



**MCDTV4 – Modbus  
HighPROTEC**

Data point list

**Manual MCDTV4 R3.6 (Build 41596)**

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This Manual is valid for version (applies for Modbus RTU and Modbus TCP):

Version 3.6.b

Build: 41590

## Modbus Parameters

For the Modbus Protocol several parameters have to be set which are relevant for the communication between the control system (SCADA) and the device. The parameters and their setting possibilities or value ranges are shown in the table below.



**ATTENTION!**

The Parameters are described within the appendix of the device manual (chapter Modbus).

## Notes for the SCADA-System

When using Modbus RTU the following times have to be considered by the control system and are fixed within the device :  
The dwell times ( $t_D$ ) before start of a telegram must at least be set to 3.5 characters.

Examples:

3.5 characters 9600 Baud = 4 ms

3.5 characters 19200 Baud = 2 ms

3.6 3.5 characters 38400 Baud = 1 ms

Start of a new telegram is expected when the dwell time ( $t_D$ ) is  $> 3.5$  characters.

The fact that the probability of disruptions during transmission of a telegram increases with its length has to be taken into duly consideration and thus a query to the Slave should be possibly such that the response telegram is not much longer than 32 Byte.

## Specific Modbus Function Codes

For reading out data from the device or to carry out commands, the services listed in the table, also called »Function Codes«, are supported.

Function-code	Designation	Description
3	Read Holding Registers	There are single or several data words read as from a specific data word address. Only status addresses and parameter addresses can be read.
4	Read Input Registers	There are single or several data words read as from a specific data word address. Only measuring values can be read.
5	Write single Output (Bit)	All other values are illegal and will not affect the output. Via this function code acknowledgments can be executed as well as counters reseted or blockings set.
8	Loopback Test	Test function for the communication system
16	Load Multiple Registers	There are single or several data words written as from a specific data word address.

Table 3.1: function codes

On the following pages the Modbus functions are described in detail:

**Function-Code 3/4:**

Query

Slave address	3/4	Register address HI	Register address LO	Register number HI	Register number LO	Check-sum HI	Check-sum LO
---------------	-----	---------------------	---------------------	--------------------	--------------------	--------------	--------------

Response

Slave address	3/4	Byte number	Register 0 HI	Register 0 LO	...	Check-sum HI	Check-sum LO
---------------	-----	-------------	---------------	---------------	-----	--------------	--------------

Register address ( $HI \cdot 256 + LO$ )

The data word address from where reading should start.

Register number ( $HI \cdot 256 + LO$ )

Number of data words to be read. Valid range: 1..125

Byte number

Number of subsequent Bytes containing data words.

Register

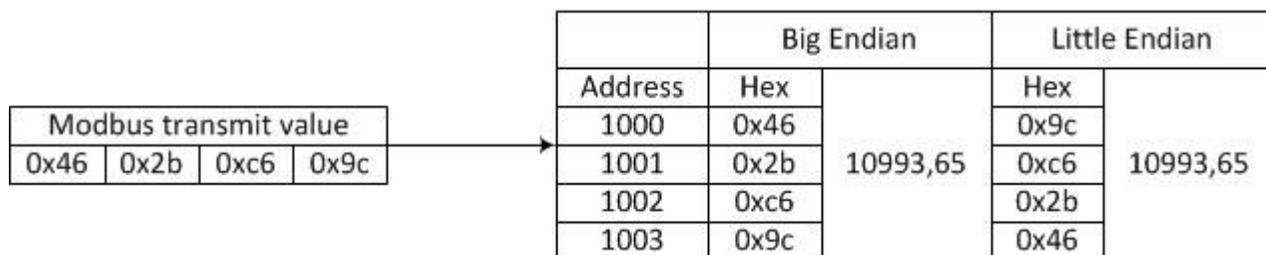
Data words read out of the device (Highbyte and Lowbyte).

**Float Values IEEE 754**

	Sign	Exponent								Mantissa																				
Value:	+1	$2^{13}$								1.34199857711792																				
Encoded as:	0	140								2868892																				
Binary:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Decimal Representation																10993.652												
		Binary Representation																01000110001010111100011010011100												
		Hexadecimal Representation																0x462bc69c												

For displaying a float value, it is important to save received bytes in a correct order. A float value in Modbus will be transmitted in “Big Endian” format (Motorola Format), that means most significant byte is transmitted first.

For saving received bytes in Modbus master it must be considered which architecture is used. Is Modbus Master is a “Little Endian” architecture, received frame needs to be swapped to corresponding memory addresses. If it is not saved in correct order it is possible that displayed value is useless.



**Function Code 5:**

Query

Slave address	5	Register address HI	Register address LO	Register data HI	Register data LO	Check-sum HI	Check-sum LO
---------------	---	---------------------	---------------------	------------------	------------------	--------------	--------------

Response

Slave address	5	Register address HI	Register address LO	Register data HI	Register data LO	Check-sum HI	Check-sum LO
---------------	---	---------------------	---------------------	------------------	------------------	--------------	--------------

Register address (HI\*256 + LO)  
Data word address to be written

Register data  
Value of the data word to be written (Highbyte and Lowbyte).

Permitted value range :

FF00 hex request for a single bit to be on: This often means to reset a counter, execute acknowledgments or set blockings signals.  
0000 hex request for a single bit to be off: This often means to deactivate blocking signals or to reset single bits.

**Function Code 8:**

Query

Slave address	8	Data Diag Code HI 0x00	Data Diag Code LO 0x00	Test data	Test data	Check-sum HI	Check-sum LO
---------------	---	---------------------------	---------------------------	-----------	-----------	--------------	--------------

Response

Slave address	8	Data Diag Code HI	Data Diag Code LO	Test data	Test data	Check-sum HI	Check-sum LO
---------------	---	-------------------	-------------------	-----------	-----------	--------------	--------------

Data Diag Code HI (high), Data Diag Code LO ( Low)  
Diagnostic Code (subfunction code of function code 8) for testing the communication system. The Diagnostic Code „Return Query Data“ (0x00, 0x00) is being supported.

Test Data

By using the Diagnostic Code 0x00 0x00, the transmitted data is sent back to the Master unchanged.

**Function Code 16:**

Query

Slave address	16	Register address HI	Register address LO	Register number HI	Register number LO	Byte number	Register 0 HI	Register 0 LO	...	Check-sum HI	Check-sum LO
---------------	----	---------------------	---------------------	--------------------	--------------------	-------------	---------------	---------------	-----	--------------	--------------

Response

Slave address	16	Register address HI	Register address LO	Register number HI	Register number LO	Check-sum HI	Check-sum LO
---------------	----	---------------------	---------------------	--------------------	--------------------	--------------	--------------

Register address (HI\*256 + LO)

Data word address as from where writing should start.

Register number (HI\*256 + LO)

Query: Number of data words to be written. Valid range: 1..123

Response: Number of data words written.

Byte number

Number of subsequent Bytes to contain data words.

Register

Data words read out of the device (Highbyte und Lowbyte).

## Setting Date and Time

Date and time can be set by means of function code 16 and read with function code 3. If the device address 0 (broadcast address) is selected, the times of all devices connected to this bus are simultaneously reset. The devices do not respond to a broadcast command.

## Supported MODBUS- Error Messages

Exception Response Telegrams are described within the general "Modbus Application Protocol Specification". An exception response table with examples is shown there. The table below contains just the actually used codes. In case the device has recognized an error it will react in the following way:

Exception Code	Designation	Description
1	Illegal Function	The message received includes a function code which is not supported by the Slave.
2	Illegal Data Address	Access was sought on a data word address not included in the data module.
3	Illegal Data Value	The received message contains an invalid data structure (e.g. wrong number of data bytes).
4	Slave Device Failure	An unrecoverable error occurred while the server (or slave) was attempting to perform the requested action.

The response given by the *device* in a failure case has the following format:

Slave Address	0x80 + Function Code	Exception Code	Check-sum HI	Check-sum LO
---------------	----------------------	----------------	--------------	--------------

In the second Byte of the response the Function Code is sent with the highest Bit set to 1. This is equivalent to an addition by 0x80. The third Byte holds the Exception Code of the error message.

## Appendix - Data Point Lists

### Signals

<b>Module</b> ( - ANSI / IEEE Device Number )	<b>Subgroup</b> <b>Names</b> <b>Functions</b>	<b>Start Register</b> <b>Address</b>	<b>No. of Modbus</b> <b>Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask</b> <b>/ (Bit</b> <b>Position)</b>	<b>Unit</b>	<b>Description</b>
AnIn[1]		247	1	3	Struct			
	Broken wire	247	1	3	Bit	0x1 (1)	-	Signal: Broken wire. This signal is only valid, if the analog input is used in the 4...20 mA mode.
	Input forced	247	1	3	Bit	0x2 (2)	-	The value of analog Input has been set by force. That means that the value of the analog Input is forced and does not represent the real measured value.
AnIn[2]		248	1	3	Struct			
	Broken wire	248	1	3	Bit	0x4 (3)	-	Signal: Broken wire. This signal is only valid, if the analog input is used in the 4...20 mA mode.
	Input forced	248	1	3	Bit	0x8 (4)	-	The value of analog Input has been set by force. That means that the value of the analog Input is forced and does not represent the real measured value.
AnIn[3]		264	1	3	Struct			
	Broken wire	264	1	3	Bit	0x1 (1)	-	Signal: Broken wire. This signal is only valid, if the analog input is used in the 4...20 mA mode.

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	Input forced	264	1	3	Bit	0x2 (2)	-	The value of analog Input has been set by force. That means that the value of the analog Input is forced and does not represent the real measured value.
AnIn[4]		265	1	3	Struct			
	Broken wire	265	1	3	Bit	0x4 (3)	-	Signal: Broken wire. This signal is only valid, if the analog input is used in the 4...20 mA mode.
	Input forced	265	1	3	Bit	0x8 (4)	-	The value of analog Input has been set by force. That means that the value of the analog Input is forced and does not represent the real measured value.
AnaP[1]		224	1	3	Struct			
	ExBlo1-I	224	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	224	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	224	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	224	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	224	1	3	Bit	0x10 (5)	-	Signal: External Blocking

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	Blo TripCmd	224	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	224	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Pickup	224	1	3	Bit	0x80 (8)	-	Signal: Alarm Analog Input
	Trip (*)	224	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	224	1	3	Bit	0x200 (10)	-	Signal: Trip Command
AnaP[2]		225	1	3	Struct			
	ExBlo1-I	225	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	225	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	225	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	225	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	225	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	225	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked

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	ExBlo TripCmd	225	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Pickup	225	1	3	Bit	0x80 (8)	-	Signal: Alarm Analog Input
	Trip (*)	225	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	225	1	3	Bit	0x200 (10)	-	Signal: Trip Command
AnaP[3]		226	1	3	Struct			
	ExBlo1-I	226	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	226	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	226	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	226	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	226	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	226	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	226	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command

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	Pickup	226	1	3	Bit	0x80 (8)	-	Signal: Alarm Analog Input
	Trip (*)	226	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	226	1	3	Bit	0x200 (10)	-	Signal: Trip Command
AnaP[4]		227	1	3	Struct			
	ExBlo1-I	227	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	227	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	227	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	227	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	227	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	227	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	227	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Pickup	227	1	3	Bit	0x80 (8)	-	Signal: Alarm Analog Input

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	Trip (*)	227	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	227	1	3	Bit	0x200 (10)	-	Signal: Trip Command
AnaP[5]		228	1	3	Struct			
	ExBlo1-l	228	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-l	228	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-l	228	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	228	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	228	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	228	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	228	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Pickup	228	1	3	Bit	0x80 (8)	-	Signal: Alarm Analog Input
	Trip (*)	228	1	3	Bit	0x100 (9)	-	Signal: Trip

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	TripCmd (*)	228	1	3	Bit	0x200 (10)	-	Signal: Trip Command
AnaP[6]		229	1	3	Struct			
	ExBlo1-I	229	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	229	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	229	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	229	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	229	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	229	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	229	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Pickup	229	1	3	Bit	0x80 (8)	-	Signal: Alarm Analog Input
	Trip (*)	229	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	229	1	3	Bit	0x200 (10)	-	Signal: Trip Command

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AnaP[7]		230	1	3	Struct			
	ExBlo1-I	230	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	230	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	230	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	230	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	230	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	230	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	230	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Pickup	230	1	3	Bit	0x80 (8)	-	Signal: Alarm Analog Input
	Trip (*)	230	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	230	1	3	Bit	0x200 (10)	-	Signal: Trip Command
AnaP[8]		231	1	3	Struct			

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	ExBlo1-I	231	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	231	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	231	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	231	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	231	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	231	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	231	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Pickup	231	1	3	Bit	0x80 (8)	-	Signal: Alarm Analog Input
	Trip (*)	231	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	231	1	3	Bit	0x200 (10)	-	Signal: Trip Command
BO Slot X2		1003	1	3	Struct			
	BO 1	1003	1	3	Bit	0x1 (1)	-	Signal: Binary Output Relay

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	BO 2	1003	1	3	Bit	0x2 (2)	-	Signal: Binary Output Relay
	BO 3	1003	1	3	Bit	0x4 (3)	-	Signal: Binary Output Relay
	BO 4	1003	1	3	Bit	0x8 (4)	-	Signal: Binary Output Relay
	BO 5	1003	1	3	Bit	0x10 (5)	-	Signal: Binary Output Relay
	BO 6	1003	1	3	Bit	0x20 (6)	-	Signal: Binary Output Relay
	DISARMED!	1003	1	3	Bit	0x40 (7)	-	Signal: CAUTION! RELAYS DISARMED in order to safely perform maintenance while eliminating the risk of taking an entire process off-line. (Note: The Self Supervision Contact cannot be disarmed). YOU MUST ENSURE that the relays are ARMED AGAIN after maintenance
	Outs forced	1003	1	3	Bit	0x80 (8)	-	Signal: The State of at least one Relay Output has been set by force. That means that the state of at least one Relay is forced and hence does not show the state of the assigned signals.
BO Slot X5		1013	1	3	Struct			
	BO 1	1013	1	3	Bit	0x1 (1)	-	Signal: Binary Output Relay

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	BO 2	1013	1	3	Bit	0x2 (2)	-	Signal: Binary Output Relay
	BO 3	1013	1	3	Bit	0x4 (3)	-	Signal: Binary Output Relay
	BO 4	1013	1	3	Bit	0x8 (4)	-	Signal: Binary Output Relay
	DISARMED!	1013	1	3	Bit	0x40 (7)	-	Signal: CAUTION! RELAYS DISARMED in order to safely perform maintenance while eliminating the risk of taking an entire process off-line. (Note: The Self Supervision Contact cannot be disarmed). YOU MUST ENSURE that the relays are ARMED AGAIN after maintenance
	Outs forced	1013	1	3	Bit	0x80 (8)	-	Signal: The State of at least one Relay Output has been set by force. That means that the state of at least one Relay is forced and hence does not show the state of the assigned signals.
CBF[1] - 50BF, 62BF		53	1	3	Struct			
	ExBlo1-I	53	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	53	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	53	1	3	Bit	0x4 (3)	-	Signal: active

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo	53	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Trigger1-I	53	1	3	Bit	0x10 (5)	-	Module Input: Trigger that will start the CBF
	Trigger2-I	53	1	3	Bit	0x20 (6)	-	Module Input: Trigger that will start the CBF
	Trigger3-I	53	1	3	Bit	0x40 (7)	-	Module Input: Trigger that will start the CBF
	running	53	1	3	Bit	0x80 (8)	-	Signal: CBF-Module started
	Alarm (*)	53	1	3	Bit	0x100 (9)	-	Signal: Circuit Breaker Failure
	Lockout (*)	53	1	3	Bit	0x200 (10)	-	Signal: Lockout
	Waiting for Trigger (*)	53	1	3	Bit	0x400 (11)	-	Waiting for Trigger
<b>CBF[2] - 50BF, 62BF</b>		<b>120</b>	<b>1</b>	<b>3</b>	<b>Struct</b>			
	ExBlo1-I	120	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	120	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	120	1	3	Bit	0x4 (3)	-	Signal: active

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo	120	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Trigger1-I	120	1	3	Bit	0x10 (5)	-	Module Input: Trigger that will start the CBF
	Trigger2-I	120	1	3	Bit	0x20 (6)	-	Module Input: Trigger that will start the CBF
	Trigger3-I	120	1	3	Bit	0x40 (7)	-	Module Input: Trigger that will start the CBF
	running	120	1	3	Bit	0x80 (8)	-	Signal: CBF-Module started
	Alarm (*)	120	1	3	Bit	0x100 (9)	-	Signal: Circuit Breaker Failure
	Lockout	120	1	3	Bit	0x200 (10)	-	Signal: Lockout
	Waiting for Trigger (*)	120	1	3	Bit	0x400 (11)	-	Waiting for Trigger
CLPU		66	1	3	Struct			
	ExBlo1-I	66	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-I	66	1	3	Bit	0x2 (2)	-	Module input state: External blocking
	Ex rev Inter-I	66	1	3	Bit	0x4 (3)	-	Module input state: External reverse interlocking

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	active	66	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	66	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Ex rev Interl	66	1	3	Bit	0x20 (6)	-	Signal: External reverse Interlocking
	enabled	66	1	3	Bit	0x200 (10)	-	Signal: Cold Load enabled
	detected (*)	66	1	3	Bit	0x400 (11)	-	Signal: Cold Load detected
	I<	66	1	3	Bit	0x800 (12)	-	Signal: No Load Current.
	Load Inrush	66	1	3	Bit	0x2000 (14)	-	Signal: Load Inrush
	Settle Time	66	1	3	Bit	0x4000 (15)	-	Signal: Settle Time
CT W1		301	1	3	Struct			
	Phase seq. wrong	301	1	3	Bit	0x1 (1)	-	Signal that the device has detected a phase sequence (L1-L2-L3 / L1-L3-L2) that is different from the one that had been set at [Field settings / General Settings] »Phase Sequence«.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Phase seq. wrong	301	1	3	Bit	0x2 (2)	-	Signal that the device has detected a phase sequence (L1-L2-L3 / L1-L3-L2) that is different from the one that had been set at [Field settings / General Settings] »Phase Sequence«.
CTS[1] - 60L		137	1	3	Struct			
	ExBlo1-I	137	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	137	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	137	1	3	Bit	0x4 (3)	-	Signal: active
	ExBlo	137	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Alarm	137	1	3	Bit	0x10 (5)	-	Signal: Alarm Current Transformer Measuring Circuit Supervision
CTS[2] - 60L		138	1	3	Struct			
	ExBlo1-I	138	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	138	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	138	1	3	Bit	0x4 (3)	-	Signal: active

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo	138	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Alarm	138	1	3	Bit	0x10 (5)	-	Signal: Alarm Current Transformer Measuring Circuit Supervision
Ctrl		176	1	3	Struct			
	Local	176	1	3	Bit	0x1 (1)	-	Switching Authority: Local
	Remote	176	1	3	Bit	0x2 (2)	-	Switching Authority: Remote
	NonInterl	176	1	3	Bit	0x4 (3)	-	Non-Interlocking is active
	SG Disturb	176	1	3	Bit	0x8 (4)	-	(At least one) Switchgear is disturbed.
	SG Indeterm	176	1	3	Bit	0x10 (5)	-	(At least one) Switchgear is moving (Position cannot be determined).
DI Slot X1		1000	1	3	Struct			
	DI 1	1000	1	3	Bit	0x1 (1)	-	Signal: Digital Input
	DI 2	1000	1	3	Bit	0x2 (2)	-	Signal: Digital Input
	DI 3	1000	1	3	Bit	0x4 (3)	-	Signal: Digital Input

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	DI 4	1000	1	3	Bit	0x8 (4)	-	Signal: Digital Input
	DI 5	1000	1	3	Bit	0x10 (5)	-	Signal: Digital Input
	DI 6	1000	1	3	Bit	0x20 (6)	-	Signal: Digital Input
	DI 7	1000	1	3	Bit	0x40 (7)	-	Signal: Digital Input
	DI 8	1000	1	3	Bit	0x80 (8)	-	Signal: Digital Input
DI Slot X5		1001	1	3	Struct			
	DI 1	1001	1	3	Bit	0x1 (1)	-	Signal: Digital Input
	DI 2	1001	1	3	Bit	0x2 (2)	-	Signal: Digital Input
	DI 3	1001	1	3	Bit	0x4 (3)	-	Signal: Digital Input
	DI 4	1001	1	3	Bit	0x8 (4)	-	Signal: Digital Input
	DI 5	1001	1	3	Bit	0x10 (5)	-	Signal: Digital Input
	DI 6	1001	1	3	Bit	0x20 (6)	-	Signal: Digital Input

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	DI 7	1001	1	3	Bit	0x40 (7)	-	Signal: Digital Input
	DI 8	1001	1	3	Bit	0x80 (8)	-	Signal: Digital Input
DI Slot X6		1014	1	3	Struct			
	DI 1	1014	1	3	Bit	0x1 (1)	-	Signal: Digital Input
	DI 2	1014	1	3	Bit	0x2 (2)	-	Signal: Digital Input
	DI 3	1014	1	3	Bit	0x4 (3)	-	Signal: Digital Input
	DI 4	1014	1	3	Bit	0x8 (4)	-	Signal: Digital Input
	DI 5	1014	1	3	Bit	0x10 (5)	-	Signal: Digital Input
	DI 6	1014	1	3	Bit	0x20 (6)	-	Signal: Digital Input
	DI 7	1014	1	3	Bit	0x40 (7)	-	Signal: Digital Input
	DI 8	1014	1	3	Bit	0x80 (8)	-	Signal: Digital Input
Exp[1]		49	1	3	Struct			

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo1-I	49	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	49	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	49	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Alarm-I	49	1	3	Bit	0x8 (4)	-	Module input state: Alarm
	Trip-I	49	1	3	Bit	0x10 (5)	-	Module input state: Trip
	active	49	1	3	Bit	0x20 (6)	-	Signal: active
	ExBlo	49	1	3	Bit	0x40 (7)	-	Signal: External Blocking
	Blo TripCmd	49	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	49	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	Alarm	49	1	3	Bit	0x200 (10)	-	Signal: Alarm
	Trip (*)	49	1	3	Bit	0x400 (11)	-	Signal: Trip

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	TripCmd (*)	49	1	3	Bit	0x800 (12)	-	Signal: Trip Command
Exp[2]		50	1	3	Struct			
	ExBlo1-I	50	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	50	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	50	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Alarm-I	50	1	3	Bit	0x8 (4)	-	Module input state: Alarm
	Trip-I	50	1	3	Bit	0x10 (5)	-	Module input state: Trip
	active	50	1	3	Bit	0x20 (6)	-	Signal: active
	ExBlo	50	1	3	Bit	0x40 (7)	-	Signal: External Blocking
	Blo TripCmd	50	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	50	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	Alarm	50	1	3	Bit	0x200 (10)	-	Signal: Alarm

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip (*)	50	1	3	Bit	0x400 (11)	-	Signal: Trip
	TripCmd (*)	50	1	3	Bit	0x800 (12)	-	Signal: Trip Command
Exp[3]		51	1	3	Struct			
	ExBlo1-l	51	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-l	51	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-l	51	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Alarm-l	51	1	3	Bit	0x8 (4)	-	Module input state: Alarm
	Trip-l	51	1	3	Bit	0x10 (5)	-	Module input state: Trip
	active	51	1	3	Bit	0x20 (6)	-	Signal: active
	ExBlo	51	1	3	Bit	0x40 (7)	-	Signal: External Blocking
	Blo TripCmd	51	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	51	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm	51	1	3	Bit	0x200 (10)	-	Signal: Alarm
	Trip (*)	51	1	3	Bit	0x400 (11)	-	Signal: Trip
	TripCmd (*)	51	1	3	Bit	0x800 (12)	-	Signal: Trip Command
Exp[4]		52	1	3	Struct			
	ExBlo1-l	52	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-l	52	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-l	52	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Alarm-l	52	1	3	Bit	0x8 (4)	-	Module input state: Alarm
	Trip-l	52	1	3	Bit	0x10 (5)	-	Module input state: Trip
	active	52	1	3	Bit	0x20 (6)	-	Signal: active
	ExBlo	52	1	3	Bit	0x40 (7)	-	Signal: External Blocking
	Blo TripCmd	52	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd	52	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	Alarm	52	1	3	Bit	0x200 (10)	-	Signal: Alarm
	Trip (*)	52	1	3	Bit	0x400 (11)	-	Signal: Trip
	TripCmd (*)	52	1	3	Bit	0x800 (12)	-	Signal: Trip Command
Ext Oil Temp		125	1	3	Struct			
	ExBlo1-I	125	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	125	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	125	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	125	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	125	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	125	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	125	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm	125	1	3	Bit	0x80 (8)	-	Signal: Alarm
	Alarm-I	125	1	3	Bit	0x100 (9)	-	Module input state: Alarm
	Trip (*)	125	1	3	Bit	0x200 (10)	-	Signal: Trip
	Trip-I (*)	125	1	3	Bit	0x400 (11)	-	Module input state: Trip
	TripCmd (*)	125	1	3	Bit	0x800 (12)	-	Signal: Trip Command
Ext Sudd Press		126	1	3	Struct			
	ExBlo1-I	126	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	126	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	126	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	126	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	126	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	126	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd	126	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	126	1	3	Bit	0x80 (8)	-	Signal: Alarm
	Alarm-I	126	1	3	Bit	0x100 (9)	-	Module input state: Alarm
	Trip (*)	126	1	3	Bit	0x200 (10)	-	Signal: Trip
	Trip-I (*)	126	1	3	Bit	0x400 (11)	-	Module input state: Trip
	TripCmd (*)	126	1	3	Bit	0x800 (12)	-	Signal: Trip Command
Ext Temp Superv[1]		127	1	3	Struct			
	ExBlo1-I	127	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	127	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	127	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	127	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	127	1	3	Bit	0x10 (5)	-	Signal: External Blocking

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Blo TripCmd	127	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	127	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	127	1	3	Bit	0x80 (8)	-	Signal: Alarm
	Alarm-I	127	1	3	Bit	0x100 (9)	-	Module input state: Alarm
	Trip (*)	127	1	3	Bit	0x200 (10)	-	Signal: Trip
	Trip-I (*)	127	1	3	Bit	0x400 (11)	-	Module input state: Trip
	TripCmd (*)	127	1	3	Bit	0x800 (12)	-	Signal: Trip Command
<b>Ext Temp Superv[2]</b>		<b>128</b>	<b>1</b>	<b>3</b>	<b>Struct</b>			
	ExBlo1-I	128	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	128	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	128	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	128	1	3	Bit	0x8 (4)	-	Signal: active

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo	128	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	128	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	128	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	128	1	3	Bit	0x80 (8)	-	Signal: Alarm
	Alarm-I	128	1	3	Bit	0x100 (9)	-	Module input state: Alarm
	Trip (*)	128	1	3	Bit	0x200 (10)	-	Signal: Trip
	Trip-I (*)	128	1	3	Bit	0x400 (11)	-	Module input state: Trip
	TripCmd (*)	128	1	3	Bit	0x800 (12)	-	Signal: Trip Command
Ext Temp Superv[3]		129	1	3	Struct			
	ExBlo1-I	129	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	129	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	129	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	active	129	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	129	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	129	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	129	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	129	1	3	Bit	0x80 (8)	-	Signal: Alarm
	Alarm-I	129	1	3	Bit	0x100 (9)	-	Module input state: Alarm
	Trip (*)	129	1	3	Bit	0x200 (10)	-	Signal: Trip
	Trip-I (*)	129	1	3	Bit	0x400 (11)	-	Module input state: Trip
	TripCmd (*)	129	1	3	Bit	0x800 (12)	-	Signal: Trip Command
Fast Status Register		5000	1	3	Struct			

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Device Type	5000	1	3	Bit	0xffff (1)	-	Device Type: Device type code for relationship between device name and its Modbus code.  Woodward: MRI4 - 1000 MRU4 - 1001 MRA4 - 1002 MCA4 - 1003 MRDT4 - 1005 MCDTV4 - 1006 MCDGV4 - 1007 MRM4 - 1009 MRMV4 - 1010 MCDLV4 - 1011
Fast Status Register		5001	1	3	Struct			
	Comm Version	5001	1	3	Bit	0xffff (1)	-	Modbus Communication version. This version number changes if something becomes incompatible between different Modbus releases.
Fast Status Register		5002	1	3	Struct			
	Config Bin Inp1-l	5002	1	3	Bit	0x1 (1)	-	State of the module input: Config Bin Inp

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Config Bin Inp2-I	5002	1	3	Bit	0x2 (2)	-	State of the module input: Config Bin Inp
	Config Bin Inp3-I	5002	1	3	Bit	0x4 (3)	-	State of the module input: Config Bin Inp
	Config Bin Inp4-I	5002	1	3	Bit	0x8 (4)	-	State of the module input: Config Bin Inp
	Config Bin Inp5-I	5002	1	3	Bit	0x10 (5)	-	State of the module input: Config Bin Inp
	Config Bin Inp6-I	5002	1	3	Bit	0x20 (6)	-	State of the module input: Config Bin Inp
	Config Bin Inp7-I	5002	1	3	Bit	0x40 (7)	-	State of the module input: Config Bin Inp
	Config Bin Inp8-I	5002	1	3	Bit	0x80 (8)	-	State of the module input: Config Bin Inp
	Config Bin Inp9-I	5002	1	3	Bit	0x100 (9)	-	State of the module input: Config Bin Inp
	Config Bin Inp10-I	5002	1	3	Bit	0x200 (10)	-	State of the module input: Config Bin Inp
	Config Bin Inp11-I	5002	1	3	Bit	0x400 (11)	-	State of the module input: Config Bin Inp
	Config Bin Inp12-I	5002	1	3	Bit	0x800 (12)	-	State of the module input: Config Bin Inp

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Config Bin Inp13-I	5002	1	3	Bit	0x1000 (13)	-	State of the module input: Config Bin Inp
	Config Bin Inp14-I	5002	1	3	Bit	0x2000 (14)	-	State of the module input: Config Bin Inp
	Config Bin Inp15-I	5002	1	3	Bit	0x4000 (15)	-	State of the module input: Config Bin Inp
	Config Bin Inp16-I	5002	1	3	Bit	0x8000 (16)	-	State of the module input: Config Bin Inp
Fast Status Register		5003	1	3	Struct			
	Config Bin Inp17-I	5003	1	3	Bit	0x1 (1)	-	State of the module input: Config Bin Inp
	Config Bin Inp18-I	5003	1	3	Bit	0x2 (2)	-	State of the module input: Config Bin Inp
	Config Bin Inp19-I	5003	1	3	Bit	0x4 (3)	-	State of the module input: Config Bin Inp
	Config Bin Inp20-I	5003	1	3	Bit	0x8 (4)	-	State of the module input: Config Bin Inp
	Config Bin Inp21-I	5003	1	3	Bit	0x10 (5)	-	State of the module input: Config Bin Inp
	Config Bin Inp22-I	5003	1	3	Bit	0x20 (6)	-	State of the module input: Config Bin Inp
	Config Bin Inp23-I	5003	1	3	Bit	0x40 (7)	-	State of the module input: Config Bin Inp

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Config Bin Inp24-I	5003	1	3	Bit	0x80 (8)	-	State of the module input: Config Bin Inp
	Config Bin Inp25-I	5003	1	3	Bit	0x100 (9)	-	State of the module input: Config Bin Inp
	Config Bin Inp26-I	5003	1	3	Bit	0x200 (10)	-	State of the module input: Config Bin Inp
	Config Bin Inp27-I	5003	1	3	Bit	0x400 (11)	-	State of the module input: Config Bin Inp
	Config Bin Inp28-I	5003	1	3	Bit	0x800 (12)	-	State of the module input: Config Bin Inp
	Config Bin Inp29-I	5003	1	3	Bit	0x1000 (13)	-	State of the module input: Config Bin Inp
	Config Bin Inp30-I	5003	1	3	Bit	0x2000 (14)	-	State of the module input: Config Bin Inp
	Config Bin Inp31-I	5003	1	3	Bit	0x4000 (15)	-	State of the module input: Config Bin Inp
	Config Bin Inp32-I	5003	1	3	Bit	0x8000 (16)	-	State of the module input: Config Bin Inp
Fast Status Register		5004	1	3	Struct			

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip Cause (*)	5004	1	3	Bit	0xffff (1)	-	Initial reason of trip. It is presented as an integer value and corresponds to the "Trip" entry in the fault record, which refers to the name of the protective module that tripped first. Look up the definition of these integer values (i. e. the mapping trip code number-->module name) in the "Cause of Trip" table within the SCADA documentation.
I2>[1] - 46		82	1	3	Struct			
	ExBlo1-I	82	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	82	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	82	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	82	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	82	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	82	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	82	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm	82	1	3	Bit	0x80 (8)	-	Signal: Alarm Negative Sequence
	Trip (*)	82	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	82	1	3	Bit	0x200 (10)	-	Signal: Trip Command
I2>[2] - 46		83	1	3	Struct			
	ExBlo1-I	83	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	83	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	83	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	83	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	83	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	83	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	83	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	83	1	3	Bit	0x80 (8)	-	Signal: Alarm Negative Sequence

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip (*)	83	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	83	1	3	Bit	0x200 (10)	-	Signal: Trip Command
IG[1] - 50N, 51N		15	1	3	Struct			
	ExBlo1-I	15	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	15	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	15	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Ex rev Inter-I	15	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	15	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	15	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Ex rev Interl	15	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking
	Blo TripCmd	15	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	15	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	IGH2 Blo	15	1	3	Bit	0x200 (10)	-	Signal: blocked by an inrush
	Alarm	15	1	3	Bit	0x400 (11)	-	Signal: Alarm IG
	Trip (*)	15	1	3	Bit	0x800 (12)	-	Signal: Trip
	TripCmd (*)	15	1	3	Bit	0x1000 (13)	-	Signal: Trip Command
IG[2] - 50N, 51N		16	1	3	Struct			
	ExBlo1-I	16	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	16	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	16	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Ex rev Interl-I	16	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	16	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	16	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Ex rev Interl	16	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Blo TripCmd	16	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	16	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	IGH2 Blo	16	1	3	Bit	0x200 (10)	-	Signal: blocked by an inrush
	Alarm	16	1	3	Bit	0x400 (11)	-	Signal: Alarm IG
	Trip (*)	16	1	3	Bit	0x800 (12)	-	Signal: Trip
	TripCmd (*)	16	1	3	Bit	0x1000 (13)	-	Signal: Trip Command
<b>IG[3] - 50N, 51N</b>		<b>17</b>	<b>1</b>	<b>3</b>	<b>Struct</b>			
	ExBlo1-I	17	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	17	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	17	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Ex rev Interl-I	17	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	17	1	3	Bit	0x10 (5)	-	Signal: active

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo	17	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Ex rev Interl	17	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking
	Blo TripCmd	17	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	17	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	IGH2 Blo	17	1	3	Bit	0x200 (10)	-	Signal: blocked by an inrush
	Alarm	17	1	3	Bit	0x400 (11)	-	Signal: Alarm IG
	Trip (*)	17	1	3	Bit	0x800 (12)	-	Signal: Trip
	TripCmd (*)	17	1	3	Bit	0x1000 (13)	-	Signal: Trip Command
IG[4] - 50N, 51N		18	1	3	Struct			
	ExBlo1-I	18	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	18	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	18	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Ex rev Interl-I	18	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	18	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	18	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Ex rev Interl	18	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking
	Blo TripCmd	18	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	18	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	IGH2 Blo	18	1	3	Bit	0x200 (10)	-	Signal: blocked by an inrush
	Alarm	18	1	3	Bit	0x400 (11)	-	Signal: Alarm IG
	Trip (*)	18	1	3	Bit	0x800 (12)	-	Signal: Trip
	TripCmd (*)	18	1	3	Bit	0x1000 (13)	-	Signal: Trip Command
IH2[1]		22	1	3	Struct			
	ExBlo1-I	22	1	3	Bit	0x1 (1)	-	Module input state: External blocking1

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo2-I	22	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	22	1	3	Bit	0x4 (3)	-	Signal: active
	ExBlo	22	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Blo L1	22	1	3	Bit	0x10 (5)	-	Signal: Blocked L1
	Blo L2	22	1	3	Bit	0x20 (6)	-	Signal: Blocked L2
	Blo L3	22	1	3	Bit	0x40 (7)	-	Signal: Blocked L3
	Blo IG meas	22	1	3	Bit	0x80 (8)	-	Signal: Blocking of the ground (earth) protection module (measured ground current)
	3-ph Blo	22	1	3	Bit	0x100 (9)	-	Signal: Inrush was detected in at least one phase - trip command blocked.
	Blo IG calc	22	1	3	Bit	0x200 (10)	-	Signal: Blocking of the ground (earth) protection module (calculated ground current)
IH2[2]		122	1	3	Struct			
	ExBlo1-I	122	1	3	Bit	0x1 (1)	-	Module input state: External blocking1

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo2-I	122	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	122	1	3	Bit	0x4 (3)	-	Signal: active
	ExBlo	122	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Blo L1	122	1	3	Bit	0x10 (5)	-	Signal: Blocked L1
	Blo L2	122	1	3	Bit	0x20 (6)	-	Signal: Blocked L2
	Blo L3	122	1	3	Bit	0x40 (7)	-	Signal: Blocked L3
	Blo IG meas	122	1	3	Bit	0x80 (8)	-	Signal: Blocking of the ground (earth) protection module (measured ground current)
	3-ph Blo	122	1	3	Bit	0x100 (9)	-	Signal: Inrush was detected in at least one phase - trip command blocked.
	Blo IG calc	122	1	3	Bit	0x200 (10)	-	Signal: Blocking of the ground (earth) protection module (calculated ground current)
IRIG-B		148	1	3	Struct			
	IRIG-B active	148	1	3	Bit	0x1 (1)	-	Signal: If there is no valid IRIG-B signal for 60 sec, IRIG-B is regarded as inactive.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	High-Low Invert	148	1	3	Bit	0x2 (2)	-	Signal: The High and Low signals of the IRIG-B are inverted. This does NOT mean that the wiring is faulty. If the wiring is faulty no IRIG-B signal will be detected.
I[1] - 50, 51		3	1	3	Struct			
	ExBlo1-I	3	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	3	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	3	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Ex rev Inter-I	3	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	3	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	3	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Ex rev Interl	3	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking
	Blo TripCmd	3	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	3	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	IH2 Blo	3	1	3	Bit	0x200 (10)	-	Signal: Blocking the trip command by an inrush
I[1] - 50, 51		4	1	3	Struct			
	Alarm L1	4	1	3	Bit	0x1 (1)	-	Signal: Alarm L1
	Alarm L2	4	1	3	Bit	0x2 (2)	-	Signal: Alarm L2
	Alarm L3	4	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	4	1	3	Bit	0x8 (4)	-	Signal: Alarm
	Trip L1 (*)	4	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	4	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	4	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	4	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	4	1	3	Bit	0x100 (9)	-	Signal: Trip Command
I[2] - 50, 51		5	1	3	Struct			

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo1-I	5	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	5	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	5	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Ex rev Interl-I	5	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	5	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	5	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Ex rev Interl	5	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking
	Blo TripCmd	5	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	5	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	IH2 Blo	5	1	3	Bit	0x200 (10)	-	Signal: Blocking the trip command by an inrush
I[2] - 50, 51		6	1	3	Struct			
	Alarm L1	6	1	3	Bit	0x1 (1)	-	Signal: Alarm L1

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm L2	6	1	3	Bit	0x2 (2)	-	Signal: Alarm L2
	Alarm L3	6	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	6	1	3	Bit	0x8 (4)	-	Signal: Alarm
	Trip L1 (*)	6	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	6	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	6	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	6	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	6	1	3	Bit	0x100 (9)	-	Signal: Trip Command
I[3] - 50, 51		7	1	3	Struct			
	ExBlo1-I	7	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	7	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	7	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Ex rev Interl-I	7	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	7	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	7	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Ex rev Interl	7	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking
	Blo TripCmd	7	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	7	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	IH2 Blo	7	1	3	Bit	0x200 (10)	-	Signal: Blocking the trip command by an inrush
I[3] - 50, 51		8	1	3	Struct			
	Alarm L1	8	1	3	Bit	0x1 (1)	-	Signal: Alarm L1
	Alarm L2	8	1	3	Bit	0x2 (2)	-	Signal: Alarm L2
	Alarm L3	8	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	8	1	3	Bit	0x8 (4)	-	Signal: Alarm

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip L1 (*)	8	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	8	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	8	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	8	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	8	1	3	Bit	0x100 (9)	-	Signal: Trip Command
I[4] - 50, 51		9	1	3	Struct			
	ExBlo1-I	9	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	9	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	9	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Ex rev Inter-I	9	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	9	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	9	1	3	Bit	0x20 (6)	-	Signal: External Blocking

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Ex rev Interl	9	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking
	Blo TripCmd	9	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	9	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	IH2 Blo	9	1	3	Bit	0x200 (10)	-	Signal: Blocking the trip command by an inrush
I[4] - 50, 51		10	1	3	Struct			
	Alarm L1	10	1	3	Bit	0x1 (1)	-	Signal: Alarm L1
	Alarm L2	10	1	3	Bit	0x2 (2)	-	Signal: Alarm L2
	Alarm L3	10	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	10	1	3	Bit	0x8 (4)	-	Signal: Alarm
	Trip L1 (*)	10	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	10	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	10	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip (*)	10	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	10	1	3	Bit	0x100 (9)	-	Signal: Trip Command
I[5] - 50, 51		11	1	3	Struct			
	ExBlo1-I	11	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	11	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	11	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Ex rev Interl-I	11	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	11	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	11	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Ex rev Interl	11	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking
	Blo TripCmd	11	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	11	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	IH2 Blo	11	1	3	Bit	0x200 (10)	-	Signal: Blocking the trip command by an inrush
I[5] - 50, 51		12	1	3	Struct			
	Alarm L1	12	1	3	Bit	0x1 (1)	-	Signal: Alarm L1
	Alarm L2	12	1	3	Bit	0x2 (2)	-	Signal: Alarm L2
	Alarm L3	12	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	12	1	3	Bit	0x8 (4)	-	Signal: Alarm
	Trip L1 (*)	12	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	12	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	12	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	12	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	12	1	3	Bit	0x100 (9)	-	Signal: Trip Command
I[6] - 50, 51		13	1	3	Struct			

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo1-I	13	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	13	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	13	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Ex rev Interl-I	13	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	13	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	13	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Ex rev Interl	13	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking
	Blo TripCmd	13	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	13	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	IH2 Blo	13	1	3	Bit	0x200 (10)	-	Signal: Blocking the trip command by an inrush
I[6] - 50, 51		14	1	3	Struct			
	Alarm L1	14	1	3	Bit	0x1 (1)	-	Signal: Alarm L1

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm L2	14	1	3	Bit	0x2 (2)	-	Signal: Alarm L2
	Alarm L3	14	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	14	1	3	Bit	0x8 (4)	-	Signal: Alarm
	Trip L1 (*)	14	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	14	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	14	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	14	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	14	1	3	Bit	0x100 (9)	-	Signal: Trip Command
Id - 87		130	1	3	Struct			
	ExBlo1-I	130	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	130	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	130	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	active	130	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	130	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	130	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	130	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Blo H2	130	1	3	Bit	0x80 (8)	-	Signal: Blocked by Harmonic:2
	Blo H4	130	1	3	Bit	0x100 (9)	-	Signal: Blocked by Harmonic:4
	Blo H5	130	1	3	Bit	0x200 (10)	-	Signal: Blocked by Harmonic:5
	H2,H4,H5 Blo	130	1	3	Bit	0x400 (11)	-	Signal: Blocked by Harmonics (Inhibit)
	Restraining	130	1	3	Bit	0x1000 (13)	-	Signal: Restraining of the differential protection by means of rising the tripping curve.
	Transient	130	1	3	Bit	0x2000 (14)	-	Signal: Temporary stabilization of the differential protection afterwards the transformer is being energized.
ld - 87		131	1	3	Struct			

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm L1	131	1	3	Bit	0x1 (1)	-	Signal: Alarm System Phase L1
	Alarm L2	131	1	3	Bit	0x2 (2)	-	Signal: Alarm System Phase L2
	Alarm L3	131	1	3	Bit	0x4 (3)	-	Signal: Alarm System L3
	Alarm	131	1	3	Bit	0x8 (4)	-	Signal: Alarm
	Trip L1 (*)	131	1	3	Bit	0x10 (5)	-	Signal: Trip System Phase L1
	Trip L2 (*)	131	1	3	Bit	0x20 (6)	-	Signal: Trip System Phase L2
	Trip L3 (*)	131	1	3	Bit	0x40 (7)	-	Signal: Trip System Phase L3
	Trip (*)	131	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	131	1	3	Bit	0x100 (9)	-	Signal: Trip Command
	Restraining: L1	131	1	3	Bit	0x1000 (13)	-	Restraining: L1
	Restraining: L2	131	1	3	Bit	0x2000 (14)	-	Restraining: L2

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Restraining: L3	131	1	3	Bit	0x4000 (15)	-	Restraining: L3
Id - 87		262	1	3	Struct			
	IH2 Blo L1	262	1	3	Bit	0x1 (1)	-	Signal:Phase L1: Blocking of the Phase Differential Protection because of second Harmonic.
	IH2 Blo L2	262	1	3	Bit	0x2 (2)	-	Signal:Phase L2: Blocking of the Phase Differential Protection because of second Harmonic.
	IH2 Blo L3	262	1	3	Bit	0x4 (3)	-	Signal:Phase L3: Blocking of the Phase Differential Protection because of second Harmonic.
	IH4 Blo L1	262	1	3	Bit	0x8 (4)	-	Signal:Phase L1: Blocking of the Phase Differential Protection because of fourth Harmonic.
	IH4 Blo L2 (*)	262	1	3	Bit	0x10 (5)	-	Signal:Phase L2: Blocking of the Phase Differential Protection because of fourth Harmonic.
	IH4 Blo L3 (*)	262	1	3	Bit	0x20 (6)	-	Signal:Phase L3: Blocking of the Phase Differential Protection because of fourth Harmonic.
	IH5 Blo L1 (*)	262	1	3	Bit	0x40 (7)	-	Signal:Phase L1: Blocking of the Phase Differential Protection because of fifth Harmonic.
	IH5 Blo L2 (*)	262	1	3	Bit	0x80 (8)	-	Signal:Phase L2: Blocking of the Phase Differential Protection because of fifth Harmonic.

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	IH5 Blo L3 (*)	262	1	3	Bit	0x100 (9)	-	Signal:Phase L3: Blocking of the Phase Differential Protection because of fifth Harmonic.
	CT Satur.Stab. triggered (*)	262	1	3	Bit	0x200 (10)	-	Signal: Temporary restraining of the Phase Differential Protection, triggered by the detection of an external fault in case of CT saturation.
	CT Satur.Stab. L1 trig. (*)	262	1	3	Bit	0x400 (11)	-	Signal: Temporary restraining of the Phase Differential Protection in phase L1, triggered by the detection of an external phase L1 fault in case of CT saturation.
	CT Satur.Stab. L2 trig. (*)	262	1	3	Bit	0x800 (12)	-	Signal: Temporary restraining of the Phase Differential Protection in phase L2, triggered by the detection of an external phase L2 fault in case of CT saturation.
	CT Satur.Stab. L3 trig. (*)	262	1	3	Bit	0x1000 (13)	-	Signal: Temporary restraining of the Phase Differential Protection in phase L3, triggered by the detection of an external phase L3 fault in case of CT saturation.
IdGH[1] - 87N		134	1	3	Struct			
	ExBlo1-I	134	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	134	1	3	Bit	0x2 (2)	-	Module input state: External blocking2

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd-I	134	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	134	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	134	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	134	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	134	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	134	1	3	Bit	0x80 (8)	-	Signal: Alarm
	Trip (*)	134	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	134	1	3	Bit	0x200 (10)	-	Signal: Trip Command
IdGH[2] - 87N		135	1	3	Struct			
	ExBlo1-I	135	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	135	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	135	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	active	135	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	135	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	135	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	135	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	135	1	3	Bit	0x80 (8)	-	Signal: Alarm
	Trip (*)	135	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	135	1	3	Bit	0x200 (10)	-	Signal: Trip Command
<b>IdG[1] - 87N</b>		<b>132</b>	<b>1</b>	<b>3</b>	<b>Struct</b>			
	ExBlo1-I	132	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	132	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	132	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	132	1	3	Bit	0x8 (4)	-	Signal: active

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo	132	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	132	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	132	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	132	1	3	Bit	0x80 (8)	-	Signal: Alarm
	Trip (*)	132	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	132	1	3	Bit	0x200 (10)	-	Signal: Trip Command
<b>IdG[2] - 87N</b>		<b>133</b>	<b>1</b>	<b>3</b>	<b>Struct</b>			
	ExBlo1-I	133	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	133	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	133	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	133	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	133	1	3	Bit	0x10 (5)	-	Signal: External Blocking

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Blo TripCmd	133	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	133	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	133	1	3	Bit	0x80 (8)	-	Signal: Alarm
	Trip (*)	133	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	133	1	3	Bit	0x200 (10)	-	Signal: Trip Command
IdH - 87		136	1	3	Struct			
	ExBlo1-I	136	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	136	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	136	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	136	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	136	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	136	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd	136	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	136	1	3	Bit	0x80 (8)	-	Signal: Alarm
	Alarm L1	136	1	3	Bit	0x100 (9)	-	Signal: Alarm System Phase L1
	Alarm L2	136	1	3	Bit	0x200 (10)	-	Signal: Alarm System Phase L2
	Alarm L3	136	1	3	Bit	0x400 (11)	-	Signal: Alarm System L3
	Trip (*)	136	1	3	Bit	0x800 (12)	-	Signal: Trip
	Trip L1 (*)	136	1	3	Bit	0x1000 (13)	-	Signal: Trip System Phase L1
	Trip L2 (*)	136	1	3	Bit	0x2000 (14)	-	Signal: Trip System Phase L2
	Trip L3 (*)	136	1	3	Bit	0x4000 (15)	-	Signal: Trip System Phase L3
	TripCmd (*)	136	1	3	Bit	0x8000 (16)	-	Signal: Trip Command
Intertripping		253	1	3	Struct			
	ExBlo1-I	253	1	3	Bit	0x1 (1)	-	Module input state: External blocking1

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo2-I	253	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	253	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Alarm-I	253	1	3	Bit	0x8 (4)	-	Module input state: Alarm
	Trip-I	253	1	3	Bit	0x10 (5)	-	Module input state: Trip
	active	253	1	3	Bit	0x20 (6)	-	Signal: active
	ExBlo	253	1	3	Bit	0x40 (7)	-	Signal: External Blocking
	Blo TripCmd	253	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	253	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	Alarm	253	1	3	Bit	0x200 (10)	-	Signal: Alarm
	Trip (*)	253	1	3	Bit	0x400 (11)	-	Signal: Trip
	TripCmd (*)	253	1	3	Bit	0x800 (12)	-	Signal: Trip Command
LOP		81	1	3	Struct			

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo1-I	81	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	81	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	81	1	3	Bit	0x4 (3)	-	Signal: active
	ExBlo	81	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	LOP Blo	81	1	3	Bit	0x10 (5)	-	Signal: Loss of Potential blocks other elements.
	Alarm	81	1	3	Bit	0x20 (6)	-	Signal: Alarm Loss of Potential
	Ex FF EVT	81	1	3	Bit	0x1000 (13)	-	Signal: Alarm Fuse Failure Earth Voltage Transformers
	Ex FF VT	81	1	3	Bit	0x2000 (14)	-	Signal: Ex FF VT
LOP		202	1	3	Struct			
	Ex FF EVT-I	202	1	3	Bit	0x1 (1)	-	State of the module input: Alarm Fuse Failure Earth Voltage Transformers
	Ex FF VT-I	202	1	3	Bit	0x2 (2)	-	State of the module input: Alarm Fuse Failure Voltage Transformers

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Blo Trigger1-I	202	1	3	Bit	0x4 (3)	-	State of the module input: An Alarm of this protective element will block the Loss of Potential Detection.
	Blo Trigger2-I	202	1	3	Bit	0x8 (4)	-	State of the module input: An Alarm of this protective element will block the Loss of Potential Detection.
	Blo Trigger3-I	202	1	3	Bit	0x10 (5)	-	State of the module input: An Alarm of this protective element will block the Loss of Potential Detection.
	Blo Trigger4-I	202	1	3	Bit	0x20 (6)	-	State of the module input: An Alarm of this protective element will block the Loss of Potential Detection.
	Blo Trigger5-I	202	1	3	Bit	0x40 (7)	-	State of the module input: An Alarm of this protective element will block the Loss of Potential Detection.
LVRT[1] - 27		254	1	3	Struct			
	ExBlo1-I	254	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	254	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	254	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	254	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	254	1	3	Bit	0x10 (5)	-	Signal: External Blocking

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Blo TripCmd	254	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	254	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
LVRT[1] - 27		255	1	3	Struct			
	Alarm L1	255	1	3	Bit	0x1 (1)	-	Signal: Alarm L1
	Alarm L2	255	1	3	Bit	0x2 (2)	-	Signal: Alarm L2
	Alarm L3	255	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	255	1	3	Bit	0x8 (4)	-	Signal: Alarm voltage stage
	Trip L1 (*)	255	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	255	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	255	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	255	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	255	1	3	Bit	0x100 (9)	-	Signal: Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	t-LVRT is running (*)	255	1	3	Bit	0x200 (10)	-	Signal: t-LVRT is running
LVRT[2] - 27		270	1	3	Struct			
	ExBlo1-I	270	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	270	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	270	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	270	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	270	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	270	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	270	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
LVRT[2] - 27		271	1	3	Struct			
	Alarm L1	271	1	3	Bit	0x1 (1)	-	Signal: Alarm L1
	Alarm L2	271	1	3	Bit	0x2 (2)	-	Signal: Alarm L2

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm L3	271	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	271	1	3	Bit	0x8 (4)	-	Signal: Alarm voltage stage
	Trip L1 (*)	271	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	271	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	271	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	271	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	271	1	3	Bit	0x100 (9)	-	Signal: Trip Command
	t-LVRT is running (*)	271	1	3	Bit	0x200 (10)	-	Signal: t-LVRT is running
Logics		1100	1	3	Struct			
	LE1.Gate Out	1100	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE1.Timer Out	1100	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE1.Out	1100	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE1.Out inverted	1100	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE1.Gate In1-I	1100	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE1.Gate In2-I	1100	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE1.Gate In3-I	1100	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE1.Gate In4-I	1100	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE1.Reset Latch-I	1100	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1101	1	3	Struct			
	LE2.Gate Out	1101	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE2.Timer Out	1101	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE2.Out	1101	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE2.Out inverted	1101	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE2.Gate In1-I	1101	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE2.Gate In2-I	1101	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE2.Gate In3-I	1101	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE2.Gate In4-I	1101	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE2.Reset Latch-I	1101	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1102	1	3	Struct			
	LE3.Gate Out	1102	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE3.Timer Out	1102	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE3.Out	1102	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE3.Out inverted	1102	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE3.Gate In1-I	1102	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE3.Gate In2-I	1102	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE3.Gate In3-I	1102	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE3.Gate In4-I	1102	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE3.Reset Latch-I	1102	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1103	1	3	Struct			
	LE4.Gate Out	1103	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE4.Timer Out	1103	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE4.Out	1103	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE4.Out inverted	1103	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE4.Gate In1-I	1103	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE4.Gate In2-I	1103	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE4.Gate In3-I	1103	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE4.Gate In4-I	1103	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE4.Reset Latch-I	1103	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Logics		1104	1	3	Struct			
	LE5.Gate Out	1104	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE5.Timer Out	1104	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE5.Out	1104	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE5.Out inverted	1104	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE5.Gate In1-I	1104	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE5.Gate In2-I	1104	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE5.Gate In3-I	1104	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE5.Gate In4-I	1104	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE5.Reset Latch-I	1104	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1105	1	3	Struct			
	LE6.Gate Out	1105	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE6.Timer Out	1105	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE6.Out	1105	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE6.Out inverted	1105	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE6.Gate In1-I	1105	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE6.Gate In2-I	1105	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE6.Gate In3-I	1105	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE6.Gate In4-I	1105	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE6.Reset Latch-I	1105	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1106	1	3	Struct			
	LE7.Gate Out	1106	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE7.Timer Out	1106	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE7.Out	1106	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE7.Out inverted	1106	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE7.Gate In1-I	1106	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE7.Gate In2-I	1106	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE7.Gate In3-I	1106	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE7.Gate In4-I	1106	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE7.Reset Latch-I	1106	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1107	1	3	Struct			
	LE8.Gate Out	1107	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE8.Timer Out	1107	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE8.Out	1107	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE8.Out inverted	1107	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE8.Gate In1-I	1107	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE8.Gate In2-I	1107	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE8.Gate In3-I	1107	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE8.Gate In4-I	1107	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE8.Reset Latch-I	1107	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1108	1	3	Struct			
	LE9.Gate Out	1108	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE9.Timer Out	1108	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE9.Out	1108	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE9.Out inverted	1108	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE9.Gate In1-I	1108	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE9.Gate In2-I	1108	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE9.Gate In3-I	1108	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE9.Gate In4-I	1108	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE9.Reset Latch-I	1108	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1109	1	3	Struct			
	LE10.Gate Out	1109	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE10.Timer Out	1109	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE10.Out	1109	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE10.Out inverted	1109	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE10.Gate In1-I	1109	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE10.Gate In2-I	1109	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE10.Gate In3-I	1109	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE10.Gate In4-I	1109	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE10.Reset Latch-I	1109	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Logics		1110	1	3	Struct			
	LE11.Gate Out	1110	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE11.Timer Out	1110	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE11.Out	1110	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE11.Out inverted	1110	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE11.Gate In1- I	1110	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE11.Gate In2- I	1110	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE11.Gate In3- I	1110	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE11.Gate In4- I	1110	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE11.Reset Latch-I	1110	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1111	1	3	Struct			
	LE12.Gate Out	1111	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate

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	LE12.Timer Out	1111	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE12.Out	1111	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE12.Out inverted	1111	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE12.Gate In1- I	1111	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE12.Gate In2- I	1111	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE12.Gate In3- I	1111	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE12.Gate In4- I	1111	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE12.Reset Latch-I	1111	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1112	1	3	Struct			
	LE13.Gate Out	1112	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE13.Timer Out	1112	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE13.Out	1112	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE13.Out inverted	1112	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE13.Gate In1- I	1112	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE13.Gate In2- I	1112	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE13.Gate In3- I	1112	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE13.Gate In4- I	1112	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE13.Reset Latch-I	1112	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1113	1	3	Struct			
	LE14.Gate Out	1113	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE14.Timer Out	1113	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE14.Out	1113	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE14.Out inverted	1113	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE14.Gate In1- I	1113	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE14.Gate In2- I	1113	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE14.Gate In3- I	1113	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE14.Gate In4- I	1113	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE14.Reset Latch-I	1113	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1114	1	3	Struct			
	LE15.Gate Out	1114	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE15.Timer Out	1114	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE15.Out	1114	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE15.Out inverted	1114	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE15.Gate In1- I	1114	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE15.Gate In2- I	1114	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE15.Gate In3- I	1114	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE15.Gate In4-I	1114	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE15.Reset Latch-I	1114	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1115	1	3	Struct			
	LE16.Gate Out	1115	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE16.Timer Out	1115	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE16.Out	1115	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE16.Out inverted	1115	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE16.Gate In1-I	1115	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE16.Gate In2-I	1115	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE16.Gate In3-I	1115	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE16.Gate In4-I	1115	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE16.Reset Latch-I	1115	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Logics		1116	1	3	Struct			
	LE17.Gate Out	1116	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE17.Timer Out	1116	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE17.Out	1116	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE17.Out inverted	1116	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE17.Gate In1- I	1116	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE17.Gate In2- I	1116	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE17.Gate In3- I	1116	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE17.Gate In4- I	1116	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE17.Reset Latch-I	1116	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1117	1	3	Struct			
	LE18.Gate Out	1117	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE18.Timer Out	1117	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE18.Out	1117	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE18.Out inverted	1117	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE18.Gate In1- I	1117	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE18.Gate In2- I	1117	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE18.Gate In3- I	1117	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE18.Gate In4- I	1117	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE18.Reset Latch-I	1117	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1118	1	3	Struct			
	LE19.Gate Out	1118	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE19.Timer Out	1118	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE19.Out	1118	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE19.Out inverted	1118	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE19.Gate In1- I	1118	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal
	LE19.Gate In2- I	1118	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE19.Gate In3- I	1118	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE19.Gate In4- I	1118	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE19.Reset Latch-I	1118	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Logics		1119	1	3	Struct			
	LE20.Gate Out	1119	1	3	Bit	0x1 (1)	-	Signal: Output of the logic gate
	LE20.Timer Out	1119	1	3	Bit	0x2 (2)	-	Signal: Timer Output
	LE20.Out	1119	1	3	Bit	0x4 (3)	-	Signal: Latched Output (Q)
	LE20.Out inverted	1119	1	3	Bit	0x8 (4)	-	Signal: Negated Latched Output (Q NOT)
	LE20.Gate In1- I	1119	1	3	Bit	0x10 (5)	-	State of the module input: Assignment of the Input Signal

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	LE20.Gate In2- I	1119	1	3	Bit	0x20 (6)	-	State of the module input: Assignment of the Input Signal
	LE20.Gate In3- I	1119	1	3	Bit	0x40 (7)	-	State of the module input: Assignment of the Input Signal
	LE20.Gate In4- I	1119	1	3	Bit	0x80 (8)	-	State of the module input: Assignment of the Input Signal
	LE20.Reset Latch-I	1119	1	3	Bit	0x100 (9)	-	State of the module input: Reset Signal for the Latching
Modbus		1005	1	3	Struct			
	Scada Cmd 1	1005	1	3	Bit	0x1 (1)	-	Scada Command
	Scada Cmd 2	1005	1	3	Bit	0x2 (2)	-	Scada Command
	Scada Cmd 3	1005	1	3	Bit	0x4 (3)	-	Scada Command
	Scada Cmd 4	1005	1	3	Bit	0x8 (4)	-	Scada Command
	Scada Cmd 5	1005	1	3	Bit	0x10 (5)	-	Scada Command
	Scada Cmd 6	1005	1	3	Bit	0x20 (6)	-	Scada Command
	Scada Cmd 7	1005	1	3	Bit	0x40 (7)	-	Scada Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Scada Cmd 8	1005	1	3	Bit	0x80 (8)	-	Scada Command
	Scada Cmd 9	1005	1	3	Bit	0x100 (9)	-	Scada Command
	Scada Cmd 10	1005	1	3	Bit	0x200 (10)	-	Scada Command
	Scada Cmd 11	1005	1	3	Bit	0x400 (11)	-	Scada Command
	Scada Cmd 12	1005	1	3	Bit	0x800 (12)	-	Scada Command
	Scada Cmd 13	1005	1	3	Bit	0x1000 (13)	-	Scada Command
	Scada Cmd 14	1005	1	3	Bit	0x2000 (14)	-	Scada Command
	Scada Cmd 15	1005	1	3	Bit	0x4000 (15)	-	Scada Command
	Scada Cmd 16	1005	1	3	Bit	0x8000 (16)	-	Scada Command
P - 32R		251	1	3	Struct			
	ExBlo1-I	251	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-I	251	1	3	Bit	0x2 (2)	-	Module input state: External blocking

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd-I	251	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	251	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	251	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	251	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	251	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	251	1	3	Bit	0x80 (8)	-	Signal: Alarm Power Protection
	Trip (*)	251	1	3	Bit	0x100 (9)	-	Signal: Trip Power Protection
	TripCmd (*)	251	1	3	Bit	0x200 (10)	-	Signal: Trip Command
PF[1] - 55		73	1	3	Struct			
	ExBlo1-I	73	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-I	73	1	3	Bit	0x2 (2)	-	Module input state: External blocking
	ExBlo TripCmd-I	73	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	active	73	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	73	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	73	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	73	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	73	1	3	Bit	0x80 (8)	-	Signal: Alarm Power Factor
	Trip (*)	73	1	3	Bit	0x100 (9)	-	Signal: Trip Power Factor
	TripCmd (*)	73	1	3	Bit	0x200 (10)	-	Signal: Trip Command
	Compensator	73	1	3	Bit	0x400 (11)	-	Signal: Compensation Signal
	Impossible	73	1	3	Bit	0x800 (12)	-	Signal: Alarm Power Factor Impossible
PF[2] - 55		74	1	3	Struct			
	ExBlo1-I	74	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-I	74	1	3	Bit	0x2 (2)	-	Module input state: External blocking

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd-I	74	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	74	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	74	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	74	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	74	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	74	1	3	Bit	0x80 (8)	-	Signal: Alarm Power Factor
	Trip (*)	74	1	3	Bit	0x100 (9)	-	Signal: Trip Power Factor
	TripCmd (*)	74	1	3	Bit	0x200 (10)	-	Signal: Trip Command
	Compensator	74	1	3	Bit	0x400 (11)	-	Signal: Compensation Signal
	Impossible	74	1	3	Bit	0x800 (12)	-	Signal: Alarm Power Factor Impossible
PQSCr		60	1	3	Struct			
	Cr OfIw Wp+	60	1	3	Bit	0x1 (1)	-	Signal: Counter Overflow Wp+

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Cr Ofw Wp-	60	1	3	Bit	0x2 (2)	-	Signal: Counter Overflow Wp-
	Cr Ofw Wq+	60	1	3	Bit	0x4 (3)	-	Signal: Counter Overflow Wq+
	Cr Ofw Wq-	60	1	3	Bit	0x8 (4)	-	Signal: Counter Overflow Wq-
	Cr Ofw Wp Net	60	1	3	Bit	0x10 (5)	-	Signal: Counter Overflow Wp Net
	Cr Ofw Wq Net	60	1	3	Bit	0x20 (6)	-	Signal: Counter Overflow Wq Net
	Cr Ofw Ws Net	60	1	3	Bit	0x40 (7)	-	Signal: Counter Overflow Ws Net
	Cr OfwW Wp+	60	1	3	Bit	0x80 (8)	-	Signal: Counter Wp+ will overflow soon
	Cr OfwW Wp-	60	1	3	Bit	0x100 (9)	-	Signal: Counter Wp- will overflow soon
	Cr OfwW Wq+	60	1	3	Bit	0x200 (10)	-	Signal: Counter Wq+ will overflow soon
	Cr OfwW Wq-	60	1	3	Bit	0x400 (11)	-	Signal: Counter Wq- will overflow soon
	Cr OfwW Wp Net	60	1	3	Bit	0x800 (12)	-	Signal: Counter Wp Net will overflow soon

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Cr OfW Wq Net	60	1	3	Bit	0x1000 (13)	-	Signal: Counter Wq Net will overflow soon
	Cr OfW Ws Net	60	1	3	Bit	0x2000 (14)	-	Signal: Counter Ws Net will overflow soon
PQS[1] - 32, 37		67	1	3	Struct			
	ExBlo1-l	67	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-l	67	1	3	Bit	0x2 (2)	-	Module input state: External blocking
	ExBlo TripCmd-l	67	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	67	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	67	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	67	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	67	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	67	1	3	Bit	0x80 (8)	-	Signal: Alarm Power Protection
	Trip (*)	67	1	3	Bit	0x100 (9)	-	Signal: Trip Power Protection

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	TripCmd (*)	67	1	3	Bit	0x200 (10)	-	Signal: Trip Command
PQS[2] - 32, 37		68	1	3	Struct			
	ExBlo1-I	68	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-I	68	1	3	Bit	0x2 (2)	-	Module input state: External blocking
	ExBlo TripCmd-I	68	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	68	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	68	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	68	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	68	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	68	1	3	Bit	0x80 (8)	-	Signal: Alarm Power Protection
	Trip (*)	68	1	3	Bit	0x100 (9)	-	Signal: Trip Power Protection
	TripCmd (*)	68	1	3	Bit	0x200 (10)	-	Signal: Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
PQS[3] - 32, 37		69	1	3	Struct			
	ExBlo1-I	69	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-I	69	1	3	Bit	0x2 (2)	-	Module input state: External blocking
	ExBlo TripCmd-I	69	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	69	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	69	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	69	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	69	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	69	1	3	Bit	0x80 (8)	-	Signal: Alarm Power Protection
	Trip (*)	69	1	3	Bit	0x100 (9)	-	Signal: Trip Power Protection
	TripCmd (*)	69	1	3	Bit	0x200 (10)	-	Signal: Trip Command
PQS[4] - 32, 37		70	1	3	Struct			

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo1-I	70	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-I	70	1	3	Bit	0x2 (2)	-	Module input state: External blocking
	ExBlo TripCmd-I	70	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	70	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	70	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	70	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	70	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	70	1	3	Bit	0x80 (8)	-	Signal: Alarm Power Protection
	Trip (*)	70	1	3	Bit	0x100 (9)	-	Signal: Trip Power Protection
	TripCmd (*)	70	1	3	Bit	0x200 (10)	-	Signal: Trip Command
PQS[5] - 32, 37		71	1	3	Struct			
	ExBlo1-I	71	1	3	Bit	0x1 (1)	-	Module input state: External blocking

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo2-I	71	1	3	Bit	0x2 (2)	-	Module input state: External blocking
	ExBlo TripCmd-I	71	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	71	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	71	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	71	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	71	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	71	1	3	Bit	0x80 (8)	-	Signal: Alarm Power Protection
	Trip (*)	71	1	3	Bit	0x100 (9)	-	Signal: Trip Power Protection
	TripCmd (*)	71	1	3	Bit	0x200 (10)	-	Signal: Trip Command
PQS[6] - 32, 37		72	1	3	Struct			
	ExBlo1-I	72	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-I	72	1	3	Bit	0x2 (2)	-	Module input state: External blocking

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd-I	72	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	72	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	72	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	72	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	72	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	72	1	3	Bit	0x80 (8)	-	Signal: Alarm Power Protection
	Trip (*)	72	1	3	Bit	0x100 (9)	-	Signal: Trip Power Protection
	TripCmd (*)	72	1	3	Bit	0x200 (10)	-	Signal: Trip Command
PSet-Switch		59	1	3	Struct			
	PS 1	59	1	3	Bit	0x1 (1)	-	Signal: The currently active Parameter Set is PS 1
	PS 2	59	1	3	Bit	0x2 (2)	-	Signal: The currently active Parameter Set is PS 2
	PS 3	59	1	3	Bit	0x4 (3)	-	Signal: The currently active Parameter Set is PS 3

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	PS 4	59	1	3	Bit	0x8 (4)	-	Signal: The currently active Parameter Set is PS 4
	PSS manual	59	1	3	Bit	0x10 (5)	-	Signal: Manual Switch over of a Parameter Set
	PSS via Scada	59	1	3	Bit	0x20 (6)	-	Signal: Parameter Set Switch via Scada. Write into this output byte the integer of the parameter set that should become active (e.g. 4 => Switch onto parameter set 4).
	PSS via Inp fct	59	1	3	Bit	0x40 (7)	-	Signal: Parameter Set Switch via input function
	PS1-I	59	1	3	Bit	0x80 (8)	-	State of the module input respectively of the signal, that should activate this Parameter Setting Group.
	PS2-I	59	1	3	Bit	0x100 (9)	-	State of the module input respectively of the signal, that should activate this Parameter Setting Group.
	PS3-I	59	1	3	Bit	0x200 (10)	-	State of the module input respectively of the signal, that should activate this Parameter Setting Group.
	PS4-I	59	1	3	Bit	0x400 (11)	-	State of the module input respectively of the signal, that should activate this Parameter Setting Group.
	min 1 param changed (*)	59	1	3	Bit	0x800 (12)	-	Signal: At least one parameter has been changed
Prot		1	1	3	Struct			

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo1-I	1	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	1	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	1	1	3	Bit	0x4 (3)	-	Signal: active
	ExBlo	1	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Alarm L1	1	1	3	Bit	0x10 (5)	-	Signal: General-Alarm L1
	Alarm L2	1	1	3	Bit	0x20 (6)	-	Signal: General-Alarm L2
	Alarm L3	1	1	3	Bit	0x40 (7)	-	Signal: General-Alarm L3
	Alarm G	1	1	3	Bit	0x80 (8)	-	Signal: General-Alarm - Earth fault
	Alarm	1	1	3	Bit	0x100 (9)	-	Signal: General Alarm
	Trip L1 (*)	1	1	3	Bit	0x200 (10)	-	Signal: General Trip L1
	Trip L2 (*)	1	1	3	Bit	0x400 (11)	-	Signal: General Trip L2

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip L3 (*)	1	1	3	Bit	0x800 (12)	-	Signal: General Trip L3
	Trip G (*)	1	1	3	Bit	0x1000 (13)	-	Signal: General Trip Ground fault
	Trip (*)	1	1	3	Bit	0x2000 (14)	-	Signal: General Trip
Prot		2	1	3	Struct			
	Blo TripCmd	2	1	3	Bit	0x1 (1)	-	Signal: Trip Command blocked
	ExBlo TripCmd-I	2	1	3	Bit	0x2 (2)	-	Module input state: External Blocking of the Trip Command
	ExBlo TripCmd	2	1	3	Bit	0x4 (3)	-	Signal: External Blocking of the Trip Command
	I dir fwd	2	1	3	Bit	0x80 (8)	-	Signal: Phase current failure forward direction
	I dir rev	2	1	3	Bit	0x100 (9)	-	Signal: Phase current failure reverse direction
	I dir n poss	2	1	3	Bit	0x200 (10)	-	Signal: Phase fault - missing reference voltage
Prot		57	1	3	Struct			
	FaultNo	57	1	3	Bit	0xffff (1)	-	Fault number
Prot		58	1	3	Struct			

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	No. of Grid Fault	58	1	3	Bit	0xffff (1)	-	Number of grid fault: A grid fault, e.g. a short circuit, might cause several faults with trip and autoreclosing; in this case, the fault number counts each fault, but the grid fault number remains the same.
Prot		200	1	3	Struct			
	IG calc dir rev	200	1	3	Bit	0x1 (1)	-	Signal: Ground fault (calculated) reverse direction
	IG calc dir fwd	200	1	3	Bit	0x2 (2)	-	Signal: Ground fault (calculated) forward
	IG calc dir n poss	200	1	3	Bit	0x4 (3)	-	Signal: Ground fault (calculated) direction detection not possible
	IG meas dir rev	200	1	3	Bit	0x8 (4)	-	Signal: Ground fault (measured) reverse direction
	IG meas dir fwd	200	1	3	Bit	0x10 (5)	-	Signal: Ground fault (measured) forward
	IG meas dir n poss	200	1	3	Bit	0x20 (6)	-	Signal: Ground fault (measured) direction detection not possible
Q - 32		252	1	3	Struct			
	ExBlo1-I	252	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-I	252	1	3	Bit	0x2 (2)	-	Module input state: External blocking

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd-I	252	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	252	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	252	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	252	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	252	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	252	1	3	Bit	0x80 (8)	-	Signal: Alarm Power Protection
	Trip (*)	252	1	3	Bit	0x100 (9)	-	Signal: Trip Power Protection
	TripCmd (*)	252	1	3	Bit	0x200 (10)	-	Signal: Trip Command
Q->&V<		157	1	3	Struct			
	ExBlo1-I	157	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	157	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	157	1	3	Bit	0x4 (3)	-	Signal: active

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo	157	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Fuse Fail VT Blo	157	1	3	Bit	0x10 (5)	-	Signal: Blocked by Fuse Failure (VT)
	Alarm	157	1	3	Bit	0x20 (6)	-	Signal: Alarm Reactive Power Undervoltage Protection
	Decoupling PCC	157	1	3	Bit	0x200 (10)	-	Signal: Decoupling at the Point of Common Coupling
	Decoupling Distr. Generator	157	1	3	Bit	0x400 (11)	-	Signal: Decoupling of the (local) Energy Generator/Resource
RTD		143	1	3	Struct			
	ExBlo1-I	143	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	143	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	143	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	143	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	143	1	3	Bit	0x10 (5)	-	Signal: External Blocking

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Blo TripCmd	143	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	143	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	143	1	3	Bit	0x80 (8)	-	Alarm RTD Temperature Protection
	Trip (*)	143	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	143	1	3	Bit	0x200 (10)	-	Signal: Trip Command
RTD		144	1	3	Struct			
	W1L1 Alarm	144	1	3	Bit	0x1 (1)	-	Winding1 Phase L1 Alarm RTD Temperature Protection
	W1L1 Timeout Alarm	144	1	3	Bit	0x2 (2)	-	Winding1 Phase L1 Timeout Alarm
	W1L1 Trip (*)	144	1	3	Bit	0x4 (3)	-	Winding1 Phase L1 Signal: Trip
	W1L1 Invalid	144	1	3	Bit	0x8 (4)	-	Winding1 Phase L1 Signal: Invalid Temperature Measurement Value (e.g caused by a defective or interrupted RTD Measurement)
	W1L2 Alarm	144	1	3	Bit	0x10 (5)	-	Winding1 Phase L2 Alarm RTD Temperature Protection

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	W1L2 Timeout Alarm	144	1	3	Bit	0x20 (6)	-	Winding1 Phase L2 Timeout Alarm
	W1L2 Trip (*)	144	1	3	Bit	0x40 (7)	-	Winding1 Phase L2 Signal: Trip
	W1L2 Invalid	144	1	3	Bit	0x80 (8)	-	Winding1 Phase L2 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
	W1L3 Alarm	144	1	3	Bit	0x100 (9)	-	Winding1 Phase L3 Alarm RTD Temperature Protection
	W1L3 Timeout Alarm	144	1	3	Bit	0x200 (10)	-	Winding1 Phase L3 Timeout Alarm
	W1L3 Trip (*)	144	1	3	Bit	0x400 (11)	-	Winding1 Phase L3 Signal: Trip
	W1L3 Invalid	144	1	3	Bit	0x800 (12)	-	Winding1 Phase L3 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
	W2L1 Alarm	144	1	3	Bit	0x1000 (13)	-	Winding2 Phase L1 Alarm RTD Temperature Protection
	W2L1 Timeout Alarm	144	1	3	Bit	0x2000 (14)	-	Winding2 Phase L1 Timeout Alarm
	W2L1 Trip (*)	144	1	3	Bit	0x4000 (15)	-	Winding2 Phase L1 Signal: Trip

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	W2L1 Invalid	144	1	3	Bit	0x8000 (16)	-	Winding2 Phase L1 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
RTD		145	1	3	Struct			
	W2L2 Alarm	145	1	3	Bit	0x1 (1)	-	Winding2 Phase L2 Alarm RTD Temperature Protection
	W2L2 Timeout Alarm	145	1	3	Bit	0x2 (2)	-	Winding2 Phase L2 Timeout Alarm
	W2L2 Trip (*)	145	1	3	Bit	0x4 (3)	-	Winding2 Phase L2 Signal: Trip
	W2L2 Invalid	145	1	3	Bit	0x8 (4)	-	Winding2 Phase L2 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
	W2L3 Alarm	145	1	3	Bit	0x10 (5)	-	Winding2 Phase L3 Alarm RTD Temperature Protection
	W2L3 Timeout Alarm	145	1	3	Bit	0x20 (6)	-	Winding2 Phase L3 Timeout Alarm
	W2L3 Trip (*)	145	1	3	Bit	0x40 (7)	-	Winding2 Phase L3 Signal: Trip
	W2L3 Invalid	145	1	3	Bit	0x80 (8)	-	Winding2 Phase L3 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Amb 1 Alarm	145	1	3	Bit	0x100 (9)	-	Ambient 1 Alarm RTD Temperature Protection
	Amb 1 Timeout Alarm	145	1	3	Bit	0x200 (10)	-	Ambient 1 Timeout Alarm
	Amb 1 Trip (*)	145	1	3	Bit	0x400 (11)	-	Ambient 1 Signal: Trip
	Amb 1 Invalid	145	1	3	Bit	0x800 (12)	-	Ambient 1 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
	Amb 2 Alarm	145	1	3	Bit	0x1000 (13)	-	Ambient 2 Alarm RTD Temperature Protection
	Amb 2 Timeout Alarm	145	1	3	Bit	0x2000 (14)	-	Ambient 2 Timeout Alarm
	Amb 2 Trip (*)	145	1	3	Bit	0x4000 (15)	-	Ambient 2 Signal: Trip
	Amb 2 Invalid	145	1	3	Bit	0x8000 (16)	-	Ambient 2 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
RTD		146	1	3	Struct			
	Aux 1 Alarm	146	1	3	Bit	0x1 (1)	-	Auxiliary 1 Alarm RTD Temperature Protection
	Aux 1 Timeout Alarm	146	1	3	Bit	0x2 (2)	-	Auxiliary 1 Timeout Alarm

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Aux 1 Trip (*)	146	1	3	Bit	0x4 (3)	-	Auxiliary 1 Signal: Trip
	Aux 1 Invalid	146	1	3	Bit	0x8 (4)	-	Auxiliary 1 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
	Aux 2 Alarm	146	1	3	Bit	0x10 (5)	-	Auxiliary 2 Alarm RTD Temperature Protection
	Aux 2 Timeout Alarm	146	1	3	Bit	0x20 (6)	-	Auxiliary 2 Timeout Alarm
	Aux 2 Trip (*)	146	1	3	Bit	0x40 (7)	-	Auxiliary 2 Signal: Trip
	Aux 2 Invalid	146	1	3	Bit	0x80 (8)	-	Auxiliary 2 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
	Aux 3 Alarm	146	1	3	Bit	0x100 (9)	-	Auxiliary 3 Alarm RTD Temperature Protection
	Aux 3 Timeout Alarm	146	1	3	Bit	0x200 (10)	-	Auxiliary 3 Timeout Alarm
	Aux 3 Trip (*)	146	1	3	Bit	0x400 (11)	-	Auxiliary 3 Signal: Trip
	Aux 3 Invalid	146	1	3	Bit	0x800 (12)	-	Auxiliary 4 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Windg W1 Group Invalid	146	1	3	Bit	0x1000 (13)	-	Winding W1 Group Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
	Windg W2 Group Invalid	146	1	3	Bit	0x2000 (14)	-	Winding W2 Group Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
	Timeout Alarm (*)	146	1	3	Bit	0x4000 (15)	-	Alarm timeout expired
RTD		147	1	3	Struct			
	Amb Group Invalid	147	1	3	Bit	0x1 (1)	-	Ambient Group Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
	Alarm Amb Group	147	1	3	Bit	0x2 (2)	-	Alarm all Windings of group Ambient
	TimeoutAlmAm bGrp	147	1	3	Bit	0x4 (3)	-	Timeout Alarm of group Ambient
	Trip Amb Group (*)	147	1	3	Bit	0x8 (4)	-	Trip all Windings of group Ambient
	Alarm WD W2 Group	147	1	3	Bit	0x10 (5)	-	Alarm all Windings of group W2
	TimeoutAlmWD W2Grp	147	1	3	Bit	0x20 (6)	-	Timeout Alarm of group W2

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip WD W2 Group (*)	147	1	3	Bit	0x40 (7)	-	Trip all Windings of group W2
	Alarm WD W1 Group	147	1	3	Bit	0x80 (8)	-	Alarm all Windings of group W1
	TimeoutAlmWD W1Grp	147	1	3	Bit	0x100 (9)	-	Timeout Alarm of group W1
	Trip WD W1 Group (*)	147	1	3	Bit	0x200 (10)	-	Trip all Windings of group W1
	Trip Group 1 (*)	147	1	3	Bit	0x2000 (14)	-	Trip Group 1
	Trip Group 2 (*)	147	1	3	Bit	0x4000 (15)	-	Trip Group 2
<b>RTD</b>		<b>205</b>	<b>1</b>	<b>3</b>	<b>Struct</b>			
	Alarm Any Group	205	1	3	Bit	0x1 (1)	-	Alarm Any Group
	Trip Any Group (*)	205	1	3	Bit	0x2 (2)	-	Trip Any Group
	TimeoutAlmAn yGrp	205	1	3	Bit	0x4 (3)	-	Timeout Alarm Any Group
	Aux4 Alarm	205	1	3	Bit	0x8 (4)	-	Auxiliary 4 Alarm RTD Temperature Protection
	Aux4 Timeout Alarm	205	1	3	Bit	0x10 (5)	-	Auxiliary 4 Timeout Alarm

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Aux4 Invalid	205	1	3	Bit	0x20 (6)	-	Auxiliary 4 Signal: Invalid Temperature Measurement Value (e.g caused by an defective or interrupted RTD Measurement)
	Aux4 Trip (*)	205	1	3	Bit	0x40 (7)	-	Auxiliary 4 Signal: Trip
	AuxGrpInvalid	205	1	3	Bit	0x80 (8)	-	Invalid Auxiliary Group
	Alarm Aux Group	205	1	3	Bit	0x100 (9)	-	Alarm Auxiliary Group
	TimeoutAlmAuxGrp	205	1	3	Bit	0x200 (10)	-	Timeout Alarm Auxiliary Group
	Trip Aux Group (*)	205	1	3	Bit	0x400 (11)	-	Trip Auxiliary Group
ReCon[1]		158	1	3	Struct			
	ExBlo1-I	158	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	158	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	158	1	3	Bit	0x4 (3)	-	Signal: active
	ExBlo	158	1	3	Bit	0x8 (4)	-	Signal: External Blocking

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Blo by Meas Circuit Superv	158	1	3	Bit	0x10 (5)	-	Signal: Module blocked by measuring circuit supervision
	reconnected-I	158	1	3	Bit	0x20 (6)	-	This signal indicates the state "reconnected" (mains parallel).
	V Ext Release PCC-I	158	1	3	Bit	0x40 (7)	-	Module input state: Release signal is being generated by the PCC (External Release)
	PCC Fuse Fail VT-I	158	1	3	Bit	0x80 (8)	-	State of the module input: Blocking if the fuse of a voltage transformer has tripped at the PCC.
	Release Energy Resource	158	1	3	Bit	0x100 (9)	-	Signal: Release Energy Resource.
	Decoupling1-I	158	1	3	Bit	0x200 (10)	-	Decoupling function, that blocks the reconnection.
	Decoupling2-I	158	1	3	Bit	0x400 (11)	-	Decoupling function, that blocks the reconnection.
	Decoupling3-I	158	1	3	Bit	0x800 (12)	-	Decoupling function, that blocks the reconnection.
	Decoupling4-I	158	1	3	Bit	0x1000 (13)	-	Decoupling function, that blocks the reconnection.
	Decoupling5-I	158	1	3	Bit	0x2000 (14)	-	Decoupling function, that blocks the reconnection.
	Decoupling6-I	158	1	3	Bit	0x4000 (15)	-	Decoupling function, that blocks the reconnection.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
ReCon[2]		159	1	3	Struct			
	ExBlo1-I	159	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	159	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	159	1	3	Bit	0x4 (3)	-	Signal: active
	ExBlo	159	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Blo by Meas Circuit Superv	159	1	3	Bit	0x10 (5)	-	Signal: Module blocked by measuring circuit supervision
	reconnected-I	159	1	3	Bit	0x20 (6)	-	This signal indicates the state "reconnected" (mains parallel).
	V Ext Release PCC-I	159	1	3	Bit	0x40 (7)	-	Module input state: Release signal is being generated by the PCC (External Release)
	PCC Fuse Fail VT-I	159	1	3	Bit	0x80 (8)	-	State of the module input: Blocking if the fuse of a voltage transformer has tripped at the PCC.
	Release Energy Resource	159	1	3	Bit	0x100 (9)	-	Signal: Release Energy Resource.
	Decoupling1-I	159	1	3	Bit	0x200 (10)	-	Decoupling function, that blocks the reconnection.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Decoupling2-I	159	1	3	Bit	0x400 (11)	-	Decoupling function, that blocks the reconnection.
	Decoupling3-I	159	1	3	Bit	0x800 (12)	-	Decoupling function, that blocks the reconnection.
	Decoupling4-I	159	1	3	Bit	0x1000 (13)	-	Decoupling function, that blocks the reconnection.
	Decoupling5-I	159	1	3	Bit	0x2000 (14)	-	Decoupling function, that blocks the reconnection.
	Decoupling6-I	159	1	3	Bit	0x4000 (15)	-	Decoupling function, that blocks the reconnection.
SG[1]		177	1	3	Struct			
	Aux OFF-I	177	1	3	Bit	0x1 (1)	-	Module input state: Position indicator/check-back signal of the CB (52b)
	Aux ON-I	177	1	3	Bit	0x2 (2)	-	Module Input State: Position indicator/check-back signal of the CB (52a)
	Ready-I	177	1	3	Bit	0x4 (3)	-	Module input state: CB ready
	Sys-in-Sync-I	177	1	3	Bit	0x8 (4)	-	State of the module input: This signals has to become true within the synchronization time. If not, switching is unsuccessful.
	Interl OFF1-I	177	1	3	Bit	0x10 (5)	-	State of the module input: Interlocking of the OFF command

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Interl OFF2-I	177	1	3	Bit	0x20 (6)	-	State of the module input: Interlocking of the OFF command
	Interl OFF3-I	177	1	3	Bit	0x40 (7)	-	State of the module input: Interlocking of the OFF command
	Interl ON1-I	177	1	3	Bit	0x80 (8)	-	State of the module input: Interlocking of the ON command
	Interl ON2-I	177	1	3	Bit	0x100 (9)	-	State of the module input: Interlocking of the ON command
	Interl ON3-I	177	1	3	Bit	0x200 (10)	-	State of the module input: Interlocking of the ON command
	SCmd OFF-I	177	1	3	Bit	0x800 (12)	-	State of the module input: Switching OFF Command, e.g. the state of the Logics or the state of the digital input
	SCmd ON-I	177	1	3	Bit	0x1000 (13)	-	State of the module input: Switching ON Command, e.g. the state of the Logics or the state of the digital input
	TripCmd (*)	177	1	3	Bit	0x2000 (14)	-	Signal: Trip Command
	OFF Cmd	177	1	3	Bit	0x4000 (15)	-	Signal: OFF Command issued to the switchgear. Depending on the setting the signal may include the OFF command of the Prot module.
	OFF Cmd manual	177	1	3	Bit	0x8000 (16)	-	Signal: OFF Cmd manual
SG[1]		178	1	3	Struct			

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ON Cmd	178	1	3	Bit	0x1 (1)	-	Signal: ON Command issued to the switchgear. Depending on the setting the signal may include the ON command of the Prot module.
	ON Cmd manual	178	1	3	Bit	0x2 (2)	-	Signal: ON Cmd manual
	Sync ON request	178	1	3	Bit	0x4 (3)	-	Signal: Synchronous ON request
	SGwear Slow SG	178	1	3	Bit	0x8 (4)	-	Signal: Alarm, the circuit breaker (load-break switch) becomes slower
	Res SGwear SI SG	178	1	3	Bit	0x10 (5)	-	Signal: Resetting the slow Switchgear Alarm
	CES Disturbed	178	1	3	Bit	0x40 (7)	-	Signal: Command Execution Supervision: Switching Command unsuccessful. Switchgear in disturbed position.
	CES Fiel Interl	178	1	3	Bit	0x80 (8)	-	Signal: Command Execution Supervision: Switching Command not executed because of field interlocking.
	CES ON d OFF	178	1	3	Bit	0x400 (11)	-	Signal: Command Execution Supervision: On Command during a pending OFF Command.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES SwitchDir	178	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision respectively Switching Direction Control: This signal becomes true, if a switch command is issued even though the switchgear is already in the requested position. Example: A switchgear that is already OFF should be switched OFF again (doubly). The same applies to CLOSE commands.
	CES SG not ready	178	1	3	Bit	0x1000 (13)	-	Signal: Command Execution Supervision: Switchgear not ready
	CES SyncTimeout	178	1	3	Bit	0x2000 (14)	-	Signal: Command Execution Supervision: Switching Command not executed. No Synchronization signal while t-sync was running.
	CES succesf	178	1	3	Bit	0x4000 (15)	-	Signal: Command Execution Supervision: Switching command executed successfully.
	Prot ON	178	1	3	Bit	0x8000 (16)	-	Signal: ON Command issued by the Prot module
SG[1]		179	1	3	Struct			
	Pos Disturb	179	1	3	Bit	0x1 (1)	-	Signal: Circuit Breaker Disturbed - Undefined Breaker Position. The Position Indicators contradict themselves. After expiring of a supervision timer this signal becomes true.

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	t-Dwell	179	1	3	Bit	0x2 (2)	-	Signal: Dwell time
	Pos Indeterm	179	1	3	Bit	0x4 (3)	-	Signal: Circuit Breaker is in Indeterminate Position
	Pos OFF	179	1	3	Bit	0x8 (4)	-	Signal: Circuit Breaker is in OFF-Position
	Pos ON	179	1	3	Bit	0x10 (5)	-	Signal: Circuit Breaker is in ON-Position
	Ready	179	1	3	Bit	0x20 (6)	-	Signal: Circuit breaker is ready for operation.
	Pos not ON	179	1	3	Bit	0x40 (7)	-	Signal: Pos not ON
	SI SingleContactl nd	179	1	3	Bit	0x80 (8)	-	Signal: The Position of the Switchgear is detected by one auxiliary contact (pole) only. Thus indeterminate and disturbed Positions cannot be detected.
	Position Ind manipul	179	1	3	Bit	0x100 (9)	-	Signal: Position Indicators faked
	OFF incl TripCmd	179	1	3	Bit	0x200 (10)	-	Signal: The OFF Command includes the OFF Command issued by the Protection module.
	ON incl Prot ON	179	1	3	Bit	0x400 (11)	-	Signal: The ON Command includes the ON Command issued by the Protection module.

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES Fail TripCmd	179	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision: Command execution failed because trip command is pending.
	Interl OFF	179	1	3	Bit	0x1000 (13)	-	Signal: One or more IL_Off inputs are active.
	Interl ON	179	1	3	Bit	0x2000 (14)	-	Signal: One or more IL_On inputs are active.
SG[1]		195	1	3	Struct			
	Isum Intr trip	195	1	3	Bit	0x10 (5)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded in at least one phase.
	Isum Intr trip: IL1	195	1	3	Bit	0x20 (6)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL1
	Isum Intr trip: IL2	195	1	3	Bit	0x40 (7)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL2
	Isum Intr trip: IL3	195	1	3	Bit	0x80 (8)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL3
	Operations Alarm	195	1	3	Bit	0x100 (9)	-	Signal: Too many Operations. (The operations counter »TripCmd Cr« has exceeded the limit set at »Operations Alarm«.)
	WearLevel Alarm	195	1	3	Bit	0x200 (10)	-	Signal: Threshold for the Alarm

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	WearLevel Lockout	195	1	3	Bit	0x400 (11)	-	Signal: Threshold for the Lockout Level
	Isum Intr ph Alm	195	1	3	Bit	0x800 (12)	-	Signal: Alarm, the per hour Sum (Limit) of interrupting currents has been exceeded.
SG[1]		256	1	3	Struct			
	Removed-I	256	1	3	Bit	0x1 (1)	-	State of the module input: The withdrawable circuit breaker is Removed
	CES SG removed	256	1	3	Bit	0x2 (2)	-	Signal: Command Execution Supervision: Switching Command unsuccessful, Switchgear removed.
	Removed	256	1	3	Bit	0x4 (3)	-	Signal: The withdrawable circuit breaker is Removed
SG[2]		180	1	3	Struct			
	Aux OFF-I	180	1	3	Bit	0x1 (1)	-	Module input state: Position indicator/check-back signal of the CB (52b)
	Aux ON-I	180	1	3	Bit	0x2 (2)	-	Module Input State: Position indicator/check-back signal of the CB (52a)
	Ready-I	180	1	3	Bit	0x4 (3)	-	Module input state: CB ready
	Sys-in-Sync-I	180	1	3	Bit	0x8 (4)	-	State of the module input: This signals has to become true within the synchronization time. If not, switching is unsuccessful.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Interl OFF1-I	180	1	3	Bit	0x10 (5)	-	State of the module input: Interlocking of the OFF command
	Interl OFF2-I	180	1	3	Bit	0x20 (6)	-	State of the module input: Interlocking of the OFF command
	Interl OFF3-I	180	1	3	Bit	0x40 (7)	-	State of the module input: Interlocking of the OFF command
	Interl ON1-I	180	1	3	Bit	0x80 (8)	-	State of the module input: Interlocking of the ON command
	Interl ON2-I	180	1	3	Bit	0x100 (9)	-	State of the module input: Interlocking of the ON command
	Interl ON3-I	180	1	3	Bit	0x200 (10)	-	State of the module input: Interlocking of the ON command
	SCmd OFF-I	180	1	3	Bit	0x800 (12)	-	State of the module input: Switching OFF Command, e.g. the state of the Logics or the state of the digital input
	SCmd ON-I	180	1	3	Bit	0x1000 (13)	-	State of the module input: Switching ON Command, e.g. the state of the Logics or the state of the digital input
	TripCmd (*)	180	1	3	Bit	0x2000 (14)	-	Signal: Trip Command
	OFF Cmd	180	1	3	Bit	0x4000 (15)	-	Signal: OFF Command issued to the switchgear. Depending on the setting the signal may include the OFF command of the Prot module.

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	OFF Cmd manual	180	1	3	Bit	0x8000 (16)	-	Signal: OFF Cmd manual
SG[2]		181	1	3	Struct			
	ON Cmd	181	1	3	Bit	0x1 (1)	-	Signal: ON Command issued to the switchgear. Depending on the setting the signal may include the ON command of the Prot module.
	ON Cmd manual	181	1	3	Bit	0x2 (2)	-	Signal: ON Cmd manual
	Sync ON request	181	1	3	Bit	0x4 (3)	-	Signal: Synchronous ON request
	SGwear Slow SG	181	1	3	Bit	0x8 (4)	-	Signal: Alarm, the circuit breaker (load-break switch) becomes slower
	Res SGwear SI SG	181	1	3	Bit	0x10 (5)	-	Signal: Resetting the slow Switchgear Alarm
	CES Disturbed	181	1	3	Bit	0x40 (7)	-	Signal: Command Execution Supervision: Switching Command unsuccessful. Switchgear in disturbed position.
	CES Fiel Interl	181	1	3	Bit	0x80 (8)	-	Signal: Command Execution Supervision: Switching Command not executed because of field interlocking.
	CES ON d OFF	181	1	3	Bit	0x400 (11)	-	Signal: Command Execution Supervision: On Command during a pending OFF Command.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES SwitchDir	181	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision respectively Switching Direction Control: This signal becomes true, if a switch command is issued even though the switchgear is already in the requested position. Example: A switchgear that is already OFF should be switched OFF again (doubly). The same applies to CLOSE commands.
	CES SG not ready	181	1	3	Bit	0x1000 (13)	-	Signal: Command Execution Supervision: Switchgear not ready
	CES SyncTimeout	181	1	3	Bit	0x2000 (14)	-	Signal: Command Execution Supervision: Switching Command not executed. No Synchronization signal while t-sync was running.
	CES succesf	181	1	3	Bit	0x4000 (15)	-	Signal: Command Execution Supervision: Switching command executed successfully.
	Prot ON	181	1	3	Bit	0x8000 (16)	-	Signal: ON Command issued by the Prot module
SG[2]		182	1	3	Struct			
	Pos Disturb	182	1	3	Bit	0x1 (1)	-	Signal: Circuit Breaker Disturbed - Undefined Breaker Position. The Position Indicators contradict themselves. After expiring of a supervision timer this signal becomes true.

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	t-Dwell	182	1	3	Bit	0x2 (2)	-	Signal: Dwell time
	Pos Indeterm	182	1	3	Bit	0x4 (3)	-	Signal: Circuit Breaker is in Indeterminate Position
	Pos OFF	182	1	3	Bit	0x8 (4)	-	Signal: Circuit Breaker is in OFF-Position
	Pos ON	182	1	3	Bit	0x10 (5)	-	Signal: Circuit Breaker is in ON-Position
	Ready	182	1	3	Bit	0x20 (6)	-	Signal: Circuit breaker is ready for operation.
	Pos not ON	182	1	3	Bit	0x40 (7)	-	Signal: Pos not ON
	SI SingleContactl nd	182	1	3	Bit	0x80 (8)	-	Signal: The Position of the Switchgear is detected by one auxiliary contact (pole) only. Thus indeterminate and disturbed Positions cannot be detected.
	Position Ind manipul	182	1	3	Bit	0x100 (9)	-	Signal: Position Indicators faked
	OFF incl TripCmd	182	1	3	Bit	0x200 (10)	-	Signal: The OFF Command includes the OFF Command issued by the Protection module.
	ON incl Prot ON	182	1	3	Bit	0x400 (11)	-	Signal: The ON Command includes the ON Command issued by the Protection module.

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES Fail TripCmd	182	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision: Command execution failed because trip command is pending.
	Interl OFF	182	1	3	Bit	0x1000 (13)	-	Signal: One or more IL_Off inputs are active.
	Interl ON	182	1	3	Bit	0x2000 (14)	-	Signal: One or more IL_On inputs are active.
SG[2]		196	1	3	Struct			
	Isum Intr trip	196	1	3	Bit	0x10 (5)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded in at least one phase.
	Isum Intr trip: IL1	196	1	3	Bit	0x20 (6)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL1
	Isum Intr trip: IL2	196	1	3	Bit	0x40 (7)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL2
	Isum Intr trip: IL3	196	1	3	Bit	0x80 (8)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL3
	Operations Alarm	196	1	3	Bit	0x100 (9)	-	Signal: Too many Operations. (The operations counter »TripCmd Cr« has exceeded the limit set at »Operations Alarm«.)
	WearLevel Alarm	196	1	3	Bit	0x200 (10)	-	Signal: Threshold for the Alarm

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	WearLevel Lockout	196	1	3	Bit	0x400 (11)	-	Signal: Threshold for the Lockout Level
	Isum Intr ph Alm	196	1	3	Bit	0x800 (12)	-	Signal: Alarm, the per hour Sum (Limit) of interrupting currents has been exceeded.
SG[2]		257	1	3	Struct			
	Removed-I	257	1	3	Bit	0x1 (1)	-	State of the module input: The withdrawable circuit breaker is Removed
	CES SG removed	257	1	3	Bit	0x2 (2)	-	Signal: Command Execution Supervision: Switching Command unsuccessful, Switchgear removed.
	Removed	257	1	3	Bit	0x4 (3)	-	Signal: The withdrawable circuit breaker is Removed
SG[3]		183	1	3	Struct			
	Aux OFF-I	183	1	3	Bit	0x1 (1)	-	Module input state: Position indicator/check-back signal of the CB (52b)
	Aux ON-I	183	1	3	Bit	0x2 (2)	-	Module Input State: Position indicator/check-back signal of the CB (52a)
	Ready-I	183	1	3	Bit	0x4 (3)	-	Module input state: CB ready
	Sys-in-Sync-I	183	1	3	Bit	0x8 (4)	-	State of the module input: This signals has to become true within the synchronization time. If not, switching is unsuccessful.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Interl OFF1-I	183	1	3	Bit	0x10 (5)	-	State of the module input: Interlocking of the OFF command
	Interl OFF2-I	183	1	3	Bit	0x20 (6)	-	State of the module input: Interlocking of the OFF command
	Interl OFF3-I	183	1	3	Bit	0x40 (7)	-	State of the module input: Interlocking of the OFF command
	Interl ON1-I	183	1	3	Bit	0x80 (8)	-	State of the module input: Interlocking of the ON command
	Interl ON2-I	183	1	3	Bit	0x100 (9)	-	State of the module input: Interlocking of the ON command
	Interl ON3-I	183	1	3	Bit	0x200 (10)	-	State of the module input: Interlocking of the ON command
	SCmd OFF-I	183	1	3	Bit	0x800 (12)	-	State of the module input: Switching OFF Command, e.g. the state of the Logics or the state of the digital input
	SCmd ON-I	183	1	3	Bit	0x1000 (13)	-	State of the module input: Switching ON Command, e.g. the state of the Logics or the state of the digital input
	TripCmd (*)	183	1	3	Bit	0x2000 (14)	-	Signal: Trip Command
	OFF Cmd	183	1	3	Bit	0x4000 (15)	-	Signal: OFF Command issued to the switchgear. Depending on the setting the signal may include the OFF command of the Prot module.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	OFF Cmd manual	183	1	3	Bit	0x8000 (16)	-	Signal: OFF Cmd manual
SG[3]		184	1	3	Struct			
	ON Cmd	184	1	3	Bit	0x1 (1)	-	Signal: ON Command issued to the switchgear. Depending on the setting the signal may include the ON command of the Prot module.
	ON Cmd manual	184	1	3	Bit	0x2 (2)	-	Signal: ON Cmd manual
	Sync ON request	184	1	3	Bit	0x4 (3)	-	Signal: Synchronous ON request
	SGwear Slow SG	184	1	3	Bit	0x8 (4)	-	Signal: Alarm, the circuit breaker (load-break switch) becomes slower
	Res SGwear SI SG	184	1	3	Bit	0x10 (5)	-	Signal: Resetting the slow Switchgear Alarm
	CES Disturbed	184	1	3	Bit	0x40 (7)	-	Signal: Command Execution Supervision: Switching Command unsuccessful. Switchgear in disturbed position.
	CES Fiel Interl	184	1	3	Bit	0x80 (8)	-	Signal: Command Execution Supervision: Switching Command not executed because of field interlocking.
	CES ON d OFF	184	1	3	Bit	0x400 (11)	-	Signal: Command Execution Supervision: On Command during a pending OFF Command.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES SwitchDir	184	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision respectively Switching Direction Control: This signal becomes true, if a switch command is issued even though the switchgear is already in the requested position. Example: A switchgear that is already OFF should be switched OFF again (doubly). The same applies to CLOSE commands.
	CES SG not ready	184	1	3	Bit	0x1000 (13)	-	Signal: Command Execution Supervision: Switchgear not ready
	CES SyncTimeout	184	1	3	Bit	0x2000 (14)	-	Signal: Command Execution Supervision: Switching Command not executed. No Synchronization signal while t-sync was running.
	CES succesf	184	1	3	Bit	0x4000 (15)	-	Signal: Command Execution Supervision: Switching command executed successfully.
	Prot ON	184	1	3	Bit	0x8000 (16)	-	Signal: ON Command issued by the Prot module
SG[3]		185	1	3	Struct			
	Pos Disturb	185	1	3	Bit	0x1 (1)	-	Signal: Circuit Breaker Disturbed - Undefined Breaker Position. The Position Indicators contradict themselves. After expiring of a supervision timer this signal becomes true.

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	t-Dwell	185	1	3	Bit	0x2 (2)	-	Signal: Dwell time
	Pos Indeterm	185	1	3	Bit	0x4 (3)	-	Signal: Circuit Breaker is in Indeterminate Position
	Pos OFF	185	1	3	Bit	0x8 (4)	-	Signal: Circuit Breaker is in OFF-Position
	Pos ON	185	1	3	Bit	0x10 (5)	-	Signal: Circuit Breaker is in ON-Position
	Ready	185	1	3	Bit	0x20 (6)	-	Signal: Circuit breaker is ready for operation.
	Pos not ON	185	1	3	Bit	0x40 (7)	-	Signal: Pos not ON
	SI SingleContactl nd	185	1	3	Bit	0x80 (8)	-	Signal: The Position of the Switchgear is detected by one auxiliary contact (pole) only. Thus indeterminate and disturbed Positions cannot be detected.
	Position Ind manipul	185	1	3	Bit	0x100 (9)	-	Signal: Position Indicators faked
	OFF incl TripCmd	185	1	3	Bit	0x200 (10)	-	Signal: The OFF Command includes the OFF Command issued by the Protection module.
	ON incl Prot ON	185	1	3	Bit	0x400 (11)	-	Signal: The ON Command includes the ON Command issued by the Protection module.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES Fail TripCmd	185	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision: Command execution failed because trip command is pending.
	Interl OFF	185	1	3	Bit	0x1000 (13)	-	Signal: One or more IL_Off inputs are active.
	Interl ON	185	1	3	Bit	0x2000 (14)	-	Signal: One or more IL_On inputs are active.
SG[3]		197	1	3	Struct			
	Isum Intr trip	197	1	3	Bit	0x10 (5)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded in at least one phase.
	Isum Intr trip: IL1	197	1	3	Bit	0x20 (6)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL1
	Isum Intr trip: IL2	197	1	3	Bit	0x40 (7)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL2
	Isum Intr trip: IL3	197	1	3	Bit	0x80 (8)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL3
	Operations Alarm	197	1	3	Bit	0x100 (9)	-	Signal: Too many Operations. (The operations counter »TripCmd Cr« has exceeded the limit set at »Operations Alarm«.)
	WearLevel Alarm	197	1	3	Bit	0x200 (10)	-	Signal: Threshold for the Alarm

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	WearLevel Lockout	197	1	3	Bit	0x400 (11)	-	Signal: Threshold for the Lockout Level
	Isum Intr ph Alm	197	1	3	Bit	0x800 (12)	-	Signal: Alarm, the per hour Sum (Limit) of interrupting currents has been exceeded.
SG[3]		258	1	3	Struct			
	Removed-I	258	1	3	Bit	0x1 (1)	-	State of the module input: The withdrawable circuit breaker is Removed
	CES SG removed	258	1	3	Bit	0x2 (2)	-	Signal: Command Execution Supervision: Switching Command unsuccessful, Switchgear removed.
	Removed	258	1	3	Bit	0x4 (3)	-	Signal: The withdrawable circuit breaker is Removed
SG[4]		186	1	3	Struct			
	Aux OFF-I	186	1	3	Bit	0x1 (1)	-	Module input state: Position indicator/check-back signal of the CB (52b)
	Aux ON-I	186	1	3	Bit	0x2 (2)	-	Module Input State: Position indicator/check-back signal of the CB (52a)
	Ready-I	186	1	3	Bit	0x4 (3)	-	Module input state: CB ready
	Sys-in-Sync-I	186	1	3	Bit	0x8 (4)	-	State of the module input: This signals has to become true within the synchronization time. If not, switching is unsuccessful.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Interl OFF1-I	186	1	3	Bit	0x10 (5)	-	State of the module input: Interlocking of the OFF command
	Interl OFF2-I	186	1	3	Bit	0x20 (6)	-	State of the module input: Interlocking of the OFF command
	Interl OFF3-I	186	1	3	Bit	0x40 (7)	-	State of the module input: Interlocking of the OFF command
	Interl ON1-I	186	1	3	Bit	0x80 (8)	-	State of the module input: Interlocking of the ON command
	Interl ON2-I	186	1	3	Bit	0x100 (9)	-	State of the module input: Interlocking of the ON command
	Interl ON3-I	186	1	3	Bit	0x200 (10)	-	State of the module input: Interlocking of the ON command
	SCmd OFF-I	186	1	3	Bit	0x800 (12)	-	State of the module input: Switching OFF Command, e.g. the state of the Logics or the state of the digital input
	SCmd ON-I	186	1	3	Bit	0x1000 (13)	-	State of the module input: Switching ON Command, e.g. the state of the Logics or the state of the digital input
	TripCmd (*)	186	1	3	Bit	0x2000 (14)	-	Signal: Trip Command
	OFF Cmd	186	1	3	Bit	0x4000 (15)	-	Signal: OFF Command issued to the switchgear. Depending on the setting the signal may include the OFF command of the Prot module.

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	OFF Cmd manual	186	1	3	Bit	0x8000 (16)	-	Signal: OFF Cmd manual
SG[4]		187	1	3	Struct			
	ON Cmd	187	1	3	Bit	0x1 (1)	-	Signal: ON Command issued to the switchgear. Depending on the setting the signal may include the ON command of the Prot module.
	ON Cmd manual	187	1	3	Bit	0x2 (2)	-	Signal: ON Cmd manual
	Sync ON request	187	1	3	Bit	0x4 (3)	-	Signal: Synchronous ON request
	SGwear Slow SG	187	1	3	Bit	0x8 (4)	-	Signal: Alarm, the circuit breaker (load-break switch) becomes slower
	Res SGwear SI SG	187	1	3	Bit	0x10 (5)	-	Signal: Resetting the slow Switchgear Alarm
	CES Disturbed	187	1	3	Bit	0x40 (7)	-	Signal: Command Execution Supervision: Switching Command unsuccessful. Switchgear in disturbed position.
	CES Fiel Interl	187	1	3	Bit	0x80 (8)	-	Signal: Command Execution Supervision: Switching Command not executed because of field interlocking.
	CES ON d OFF	187	1	3	Bit	0x400 (11)	-	Signal: Command Execution Supervision: On Command during a pending OFF Command.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES SwitchDir	187	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision respectively Switching Direction Control: This signal becomes true, if a switch command is issued even though the switchgear is already in the requested position. Example: A switchgear that is already OFF should be switched OFF again (doubly). The same applies to CLOSE commands.
	CES SG not ready	187	1	3	Bit	0x1000 (13)	-	Signal: Command Execution Supervision: Switchgear not ready
	CES SyncTimeout	187	1	3	Bit	0x2000 (14)	-	Signal: Command Execution Supervision: Switching Command not executed. No Synchronization signal while t-sync was running.
	CES succesf	187	1	3	Bit	0x4000 (15)	-	Signal: Command Execution Supervision: Switching command executed successfully.
	Prot ON	187	1	3	Bit	0x8000 (16)	-	Signal: ON Command issued by the Prot module
SG[4]		188	1	3	Struct			
	Pos Disturb	188	1	3	Bit	0x1 (1)	-	Signal: Circuit Breaker Disturbed - Undefined Breaker Position. The Position Indicators contradict themselves. After expiring of a supervision timer this signal becomes true.

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	t-Dwell	188	1	3	Bit	0x2 (2)	-	Signal: Dwell time
	Pos Indeterm	188	1	3	Bit	0x4 (3)	-	Signal: Circuit Breaker is in Indeterminate Position
	Pos OFF	188	1	3	Bit	0x8 (4)	-	Signal: Circuit Breaker is in OFF-Position
	Pos ON	188	1	3	Bit	0x10 (5)	-	Signal: Circuit Breaker is in ON-Position
	Ready	188	1	3	Bit	0x20 (6)	-	Signal: Circuit breaker is ready for operation.
	Pos not ON	188	1	3	Bit	0x40 (7)	-	Signal: Pos not ON
	SI SingleContactl nd	188	1	3	Bit	0x80 (8)	-	Signal: The Position of the Switchgear is detected by one auxiliary contact (pole) only. Thus indeterminate and disturbed Positions cannot be detected.
	Position Ind manipul	188	1	3	Bit	0x100 (9)	-	Signal: Position Indicators faked
	OFF incl TripCmd	188	1	3	Bit	0x200 (10)	-	Signal: The OFF Command includes the OFF Command issued by the Protection module.
	ON incl Prot ON	188	1	3	Bit	0x400 (11)	-	Signal: The ON Command includes the ON Command issued by the Protection module.

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES Fail TripCmd	188	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision: Command execution failed because trip command is pending.
	Interl OFF	188	1	3	Bit	0x1000 (13)	-	Signal: One or more IL_Off inputs are active.
	Interl ON	188	1	3	Bit	0x2000 (14)	-	Signal: One or more IL_On inputs are active.
SG[4]		198	1	3	Struct			
	Isum Intr trip	198	1	3	Bit	0x10 (5)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded in at least one phase.
	Isum Intr trip: IL1	198	1	3	Bit	0x20 (6)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL1
	Isum Intr trip: IL2	198	1	3	Bit	0x40 (7)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL2
	Isum Intr trip: IL3	198	1	3	Bit	0x80 (8)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL3
	Operations Alarm	198	1	3	Bit	0x100 (9)	-	Signal: Too many Operations. (The operations counter »TripCmd Cr« has exceeded the limit set at »Operations Alarm«.)
	WearLevel Alarm	198	1	3	Bit	0x200 (10)	-	Signal: Threshold for the Alarm

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	WearLevel Lockout	198	1	3	Bit	0x400 (11)	-	Signal: Threshold for the Lockout Level
	Isum Intr ph Alm	198	1	3	Bit	0x800 (12)	-	Signal: Alarm, the per hour Sum (Limit) of interrupting currents has been exceeded.
SG[4]		259	1	3	Struct			
	Removed-I	259	1	3	Bit	0x1 (1)	-	State of the module input: The withdrawable circuit breaker is Removed
	CES SG removed	259	1	3	Bit	0x2 (2)	-	Signal: Command Execution Supervision: Switching Command unsuccessful, Switchgear removed.
	Removed	259	1	3	Bit	0x4 (3)	-	Signal: The withdrawable circuit breaker is Removed
SG[5]		189	1	3	Struct			
	Aux OFF-I	189	1	3	Bit	0x1 (1)	-	Module input state: Position indicator/check-back signal of the CB (52b)
	Aux ON-I	189	1	3	Bit	0x2 (2)	-	Module Input State: Position indicator/check-back signal of the CB (52a)
	Ready-I	189	1	3	Bit	0x4 (3)	-	Module input state: CB ready
	Sys-in-Sync-I	189	1	3	Bit	0x8 (4)	-	State of the module input: This signals has to become true within the synchronization time. If not, switching is unsuccessful.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Interl OFF1-I	189	1	3	Bit	0x10 (5)	-	State of the module input: Interlocking of the OFF command
	Interl OFF2-I	189	1	3	Bit	0x20 (6)	-	State of the module input: Interlocking of the OFF command
	Interl OFF3-I	189	1	3	Bit	0x40 (7)	-	State of the module input: Interlocking of the OFF command
	Interl ON1-I	189	1	3	Bit	0x80 (8)	-	State of the module input: Interlocking of the ON command
	Interl ON2-I	189	1	3	Bit	0x100 (9)	-	State of the module input: Interlocking of the ON command
	Interl ON3-I	189	1	3	Bit	0x200 (10)	-	State of the module input: Interlocking of the ON command
	SCmd OFF-I	189	1	3	Bit	0x800 (12)	-	State of the module input: Switching OFF Command, e.g. the state of the Logics or the state of the digital input
	SCmd ON-I	189	1	3	Bit	0x1000 (13)	-	State of the module input: Switching ON Command, e.g. the state of the Logics or the state of the digital input
	TripCmd (*)	189	1	3	Bit	0x2000 (14)	-	Signal: Trip Command
	OFF Cmd	189	1	3	Bit	0x4000 (15)	-	Signal: OFF Command issued to the switchgear. Depending on the setting the signal may include the OFF command of the Prot module.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	OFF Cmd manual	189	1	3	Bit	0x8000 (16)	-	Signal: OFF Cmd manual
SG[5]		190	1	3	Struct			
	ON Cmd	190	1	3	Bit	0x1 (1)	-	Signal: ON Command issued to the switchgear. Depending on the setting the signal may include the ON command of the Prot module.
	ON Cmd manual	190	1	3	Bit	0x2 (2)	-	Signal: ON Cmd manual
	Sync ON request	190	1	3	Bit	0x4 (3)	-	Signal: Synchronous ON request
	SGwear Slow SG	190	1	3	Bit	0x8 (4)	-	Signal: Alarm, the circuit breaker (load-break switch) becomes slower
	Res SGwear SI SG	190	1	3	Bit	0x10 (5)	-	Signal: Resetting the slow Switchgear Alarm
	CES Disturbed	190	1	3	Bit	0x40 (7)	-	Signal: Command Execution Supervision: Switching Command unsuccessful. Switchgear in disturbed position.
	CES Fiel Interl	190	1	3	Bit	0x80 (8)	-	Signal: Command Execution Supervision: Switching Command not executed because of field interlocking.
	CES ON d OFF	190	1	3	Bit	0x400 (11)	-	Signal: Command Execution Supervision: On Command during a pending OFF Command.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES SwitchDir	190	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision respectively Switching Direction Control: This signal becomes true, if a switch command is issued even though the switchgear is already in the requested position. Example: A switchgear that is already OFF should be switched OFF again (doubly). The same applies to CLOSE commands.
	CES SG not ready	190	1	3	Bit	0x1000 (13)	-	Signal: Command Execution Supervision: Switchgear not ready
	CES SyncTimeout	190	1	3	Bit	0x2000 (14)	-	Signal: Command Execution Supervision: Switching Command not executed. No Synchronization signal while t-sync was running.
	CES succesf	190	1	3	Bit	0x4000 (15)	-	Signal: Command Execution Supervision: Switching command executed successfully.
	Prot ON	190	1	3	Bit	0x8000 (16)	-	Signal: ON Command issued by the Prot module
SG[5]		191	1	3	Struct			
	Pos Disturb	191	1	3	Bit	0x1 (1)	-	Signal: Circuit Breaker Disturbed - Undefined Breaker Position. The Position Indicators contradict themselves. After expiring of a supervision timer this signal becomes true.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	t-Dwell	191	1	3	Bit	0x2 (2)	-	Signal: Dwell time
	Pos Indeterm	191	1	3	Bit	0x4 (3)	-	Signal: Circuit Breaker is in Indeterminate Position
	Pos OFF	191	1	3	Bit	0x8 (4)	-	Signal: Circuit Breaker is in OFF-Position
	Pos ON	191	1	3	Bit	0x10 (5)	-	Signal: Circuit Breaker is in ON-Position
	Ready	191	1	3	Bit	0x20 (6)	-	Signal: Circuit breaker is ready for operation.
	Pos not ON	191	1	3	Bit	0x40 (7)	-	Signal: Pos not ON
	SI SingleContactl nd	191	1	3	Bit	0x80 (8)	-	Signal: The Position of the Switchgear is detected by one auxiliary contact (pole) only. Thus indeterminate and disturbed Positions cannot be detected.
	Position Ind manipul	191	1	3	Bit	0x100 (9)	-	Signal: Position Indicators faked
	OFF incl TripCmd	191	1	3	Bit	0x200 (10)	-	Signal: The OFF Command includes the OFF Command issued by the Protection module.
	ON incl Prot ON	191	1	3	Bit	0x400 (11)	-	Signal: The ON Command includes the ON Command issued by the Protection module.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES Fail TripCmd	191	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision: Command execution failed because trip command is pending.
	Interl OFF	191	1	3	Bit	0x1000 (13)	-	Signal: One or more IL_Off inputs are active.
	Interl ON	191	1	3	Bit	0x2000 (14)	-	Signal: One or more IL_On inputs are active.
SG[5]		199	1	3	Struct			
	Isum Intr trip	199	1	3	Bit	0x10 (5)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded in at least one phase.
	Isum Intr trip: IL1	199	1	3	Bit	0x20 (6)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL1
	Isum Intr trip: IL2	199	1	3	Bit	0x40 (7)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL2
	Isum Intr trip: IL3	199	1	3	Bit	0x80 (8)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL3
	Operations Alarm	199	1	3	Bit	0x100 (9)	-	Signal: Too many Operations. (The operations counter »TripCmd Cr« has exceeded the limit set at »Operations Alarm«.)
	WearLevel Alarm	199	1	3	Bit	0x200 (10)	-	Signal: Threshold for the Alarm

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	WearLevel Lockout	199	1	3	Bit	0x400 (11)	-	Signal: Threshold for the Lockout Level
	Isum Intr ph Alm	199	1	3	Bit	0x800 (12)	-	Signal: Alarm, the per hour Sum (Limit) of interrupting currents has been exceeded.
SG[5]		260	1	3	Struct			
	Removed-I	260	1	3	Bit	0x1 (1)	-	State of the module input: The withdrawable circuit breaker is Removed
	CES SG removed	260	1	3	Bit	0x2 (2)	-	Signal: Command Execution Supervision: Switching Command unsuccessful, Switchgear removed.
	Removed	260	1	3	Bit	0x4 (3)	-	Signal: The withdrawable circuit breaker is Removed
SG[6]		192	1	3	Struct			
	Aux OFF-I	192	1	3	Bit	0x1 (1)	-	Module input state: Position indicator/check-back signal of the CB (52b)
	Aux ON-I	192	1	3	Bit	0x2 (2)	-	Module Input State: Position indicator/check-back signal of the CB (52a)
	Ready-I	192	1	3	Bit	0x4 (3)	-	Module input state: CB ready
	Sys-in-Sync-I	192	1	3	Bit	0x8 (4)	-	State of the module input: This signals has to become true within the synchronization time. If not, switching is unsuccessful.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Interl OFF1-I	192	1	3	Bit	0x10 (5)	-	State of the module input: Interlocking of the OFF command
	Interl OFF2-I	192	1	3	Bit	0x20 (6)	-	State of the module input: Interlocking of the OFF command
	Interl OFF3-I	192	1	3	Bit	0x40 (7)	-	State of the module input: Interlocking of the OFF command
	Interl ON1-I	192	1	3	Bit	0x80 (8)	-	State of the module input: Interlocking of the ON command
	Interl ON2-I	192	1	3	Bit	0x100 (9)	-	State of the module input: Interlocking of the ON command
	Interl ON3-I	192	1	3	Bit	0x200 (10)	-	State of the module input: Interlocking of the ON command
	SCmd OFF-I	192	1	3	Bit	0x800 (12)	-	State of the module input: Switching OFF Command, e.g. the state of the Logics or the state of the digital input
	SCmd ON-I	192	1	3	Bit	0x1000 (13)	-	State of the module input: Switching ON Command, e.g. the state of the Logics or the state of the digital input
	TripCmd (*)	192	1	3	Bit	0x2000 (14)	-	Signal: Trip Command
	OFF Cmd	192	1	3	Bit	0x4000 (15)	-	Signal: OFF Command issued to the switchgear. Depending on the setting the signal may include the OFF command of the Prot module.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	OFF Cmd manual	192	1	3	Bit	0x8000 (16)	-	Signal: OFF Cmd manual
SG[6]		193	1	3	Struct			
	ON Cmd	193	1	3	Bit	0x1 (1)	-	Signal: ON Command issued to the switchgear. Depending on the setting the signal may include the ON command of the Prot module.
	ON Cmd manual	193	1	3	Bit	0x2 (2)	-	Signal: ON Cmd manual
	Sync ON request	193	1	3	Bit	0x4 (3)	-	Signal: Synchronous ON request
	SGwear Slow SG	193	1	3	Bit	0x8 (4)	-	Signal: Alarm, the circuit breaker (load-break switch) becomes slower
	Res SGwear SI SG	193	1	3	Bit	0x10 (5)	-	Signal: Resetting the slow Switchgear Alarm
	CES Disturbed	193	1	3	Bit	0x40 (7)	-	Signal: Command Execution Supervision: Switching Command unsuccessful. Switchgear in disturbed position.
	CES Fiel Interl	193	1	3	Bit	0x80 (8)	-	Signal: Command Execution Supervision: Switching Command not executed because of field interlocking.
	CES ON d OFF	193	1	3	Bit	0x400 (11)	-	Signal: Command Execution Supervision: On Command during a pending OFF Command.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES SwitchDir	193	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision respectively Switching Direction Control: This signal becomes true, if a switch command is issued even though the switchgear is already in the requested position. Example: A switchgear that is already OFF should be switched OFF again (doubly). The same applies to CLOSE commands.
	CES SG not ready	193	1	3	Bit	0x1000 (13)	-	Signal: Command Execution Supervision: Switchgear not ready
	CES SyncTimeout	193	1	3	Bit	0x2000 (14)	-	Signal: Command Execution Supervision: Switching Command not executed. No Synchronization signal while t-sync was running.
	CES succesf	193	1	3	Bit	0x4000 (15)	-	Signal: Command Execution Supervision: Switching command executed successfully.
	Prot ON	193	1	3	Bit	0x8000 (16)	-	Signal: ON Command issued by the Prot module
SG[6]		194	1	3	Struct			
	Pos Disturb	194	1	3	Bit	0x1 (1)	-	Signal: Circuit Breaker Disturbed - Undefined Breaker Position. The Position Indicators contradict themselves. After expiring of a supervision timer this signal becomes true.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	t-Dwell	194	1	3	Bit	0x2 (2)	-	Signal: Dwell time
	Pos Indeterm	194	1	3	Bit	0x4 (3)	-	Signal: Circuit Breaker is in Indeterminate Position
	Pos OFF	194	1	3	Bit	0x8 (4)	-	Signal: Circuit Breaker is in OFF-Position
	Pos ON	194	1	3	Bit	0x10 (5)	-	Signal: Circuit Breaker is in ON-Position
	Ready	194	1	3	Bit	0x20 (6)	-	Signal: Circuit breaker is ready for operation.
	Pos not ON	194	1	3	Bit	0x40 (7)	-	Signal: Pos not ON
	SI SingleContactl nd	194	1	3	Bit	0x80 (8)	-	Signal: The Position of the Switchgear is detected by one auxiliary contact (pole) only. Thus indeterminate and disturbed Positions cannot be detected.
	Position Ind manipul	194	1	3	Bit	0x100 (9)	-	Signal: Position Indicators faked
	OFF incl TripCmd	194	1	3	Bit	0x200 (10)	-	Signal: The OFF Command includes the OFF Command issued by the Protection module.
	ON incl Prot ON	194	1	3	Bit	0x400 (11)	-	Signal: The ON Command includes the ON Command issued by the Protection module.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	CES Fail TripCmd	194	1	3	Bit	0x800 (12)	-	Signal: Command Execution Supervision: Command execution failed because trip command is pending.
	Interl OFF	194	1	3	Bit	0x1000 (13)	-	Signal: One or more IL_Off inputs are active.
	Interl ON	194	1	3	Bit	0x2000 (14)	-	Signal: One or more IL_On inputs are active.
SG[6]		201	1	3	Struct			
	Isum Intr trip	201	1	3	Bit	0x10 (5)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded in at least one phase.
	Isum Intr trip: IL1	201	1	3	Bit	0x20 (6)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL1
	Isum Intr trip: IL2	201	1	3	Bit	0x40 (7)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL2
	Isum Intr trip: IL3	201	1	3	Bit	0x80 (8)	-	Signal: Maximum permissible Summation of the interrupting (tripping) currents exceeded: IL3
	Operations Alarm	201	1	3	Bit	0x100 (9)	-	Signal: Too many Operations. (The operations counter »TripCmd Cr« has exceeded the limit set at »Operations Alarm«.)
	WearLevel Alarm	201	1	3	Bit	0x200 (10)	-	Signal: Threshold for the Alarm

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	WearLevel Lockout	201	1	3	Bit	0x400 (11)	-	Signal: Threshold for the Lockout Level
	Isum Intr ph Alm	201	1	3	Bit	0x800 (12)	-	Signal: Alarm, the per hour Sum (Limit) of interrupting currents has been exceeded.
SG[6]		261	1	3	Struct			
	Removed-I	261	1	3	Bit	0x1 (1)	-	State of the module input: The withdrawable circuit breaker is Removed
	CES SG removed	261	1	3	Bit	0x2 (2)	-	Signal: Command Execution Supervision: Switching Command unsuccessful, Switchgear removed.
	Removed	261	1	3	Bit	0x4 (3)	-	Signal: The withdrawable circuit breaker is Removed
SOTF		65	1	3	Struct			
	ExBlo1-I	65	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo2-I	65	1	3	Bit	0x2 (2)	-	Module input state: External blocking
	Ext SOTF-I	65	1	3	Bit	0x4 (3)	-	Module input state: External Switch Onto Fault Alarm
	Ex rev Inter-I	65	1	3	Bit	0x8 (4)	-	Module input state: External reverse interlocking
	active	65	1	3	Bit	0x10 (5)	-	Signal: active

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo	65	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Ex rev Interl	65	1	3	Bit	0x40 (7)	-	Signal: External reverse Interlocking
	enabled	65	1	3	Bit	0x800 (12)	-	Signal: Switch Onto Fault enabled. This Signal can be used to modify Overcurrent Protection Settings.
	I<	65	1	3	Bit	0x2000 (14)	-	Signal: No Load Current.
SSV		273	1	3	Struct			
	System Error	273	1	3	Bit	0x1 (1)	-	Signal: Device Failure
	New error (*)	273	1	3	Bit	0x8 (4)	-	Signal: A new error message has been issued.
	New warning (*)	273	1	3	Bit	0x10 (5)	-	Signal: A new warning message has been issued.
	active	273	1	3	Bit	0x20 (6)	-	Signal: active
Sgen		1012	1	3	Struct			
	ExBlo1-I	1012	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	Ex ForcePost-I	1012	1	3	Bit	0x2 (2)	-	State of the module input:Force Post state. Abort simulation.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Running	1012	1	3	Bit	0x10 (5)	-	Signal; Measuring value simulation is running
	State	1012	1	3	Bit	0xe0 (6)	-	Signal: Wave generation states: 0=Off, 1=PreFault, 2=Fault, 3=PostFault, 4=InitReset
	Ex Start Simulation-I	1012	1	3	Bit	0x100 (9)	-	State of the module input:External Start of Fault Simulation (Using the test parameters)
	ExBlo2-I	1012	1	3	Bit	0x200 (10)	-	Module input state: External blocking2
	Manual Start	1012	1	3	Bit	0x400 (11)	-	Fault Simulation has been started manually.
	Manual Stop	1012	1	3	Bit	0x800 (12)	-	Fault Simulation has been stopped manually.
	Started	1012	1	3	Bit	0x1000 (13)	-	Fault Simulation has been started
	Stopped	1012	1	3	Bit	0x2000 (14)	-	Fault Simulation has been stopped
Sync - 25		175	1	3	Struct			
	active	175	1	3	Bit	0x1 (1)	-	Signal: active
	ExBlo1-I	175	1	3	Bit	0x2 (2)	-	Module input state: External blocking1

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo2-I	175	1	3	Bit	0x4 (3)	-	Module input state: External blocking2
	ExBlo	175	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Bypass-I	175	1	3	Bit	0x10 (5)	-	State of the module input: The Synchrocheck will be bypassed if the state of the assigned signal (logic input) becomes true.
	CBCloseInitiate-I	175	1	3	Bit	0x20 (6)	-	State of the module input: Breaker Close Initiate with synchronism check from any control sources (e.g. HMI / SCADA). If the state of the assigned signal becomes true, a Breaker Close will be initiated (Trigger Source).
	AngleDiffTooHigh	175	1	3	Bit	0x40 (7)	-	Signal: Phase Angle difference between bus and line voltages too high.
	Sys-in-Sync	175	1	3	Bit	0x80 (8)	-	Signal: Bus and line voltages are in synchronism according to the system synchronism criteria.
	LiveBus	175	1	3	Bit	0x100 (9)	-	Signal: Live-Bus flag: 1=Live-Bus, 0=Voltage is below the LiveBus threshold
	LiveLine	175	1	3	Bit	0x200 (10)	-	Signal: Live Line flag: 1=Live-Line, 0=Voltage is below the LiveLine threshold
	SlipTooHigh	175	1	3	Bit	0x400 (11)	-	Signal: Frequency difference (slip frequency) between bus and line voltages too high.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	SyncOverride	175	1	3	Bit	0x800 (12)	-	Signal:Synchronism Check is overridden because one of the Synchronism overriding conditions (DB/DL or ExtBypass) is met.
	Ready to Close	175	1	3	Bit	0x1000 (13)	-	Signal: Ready to Close
	SynchronFailed	175	1	3	Bit	0x2000 (14)	-	Signal: This signal indicates a failed synchronization. It is set for 5s when the circuit breaker is still open after the Synchron-Run-timer has timed out.
	SynchronRunTiming	175	1	3	Bit	0x4000 (15)	-	Signal: Synchron-Run-timer is timing (This timer starts when Close-Initiate is coming and stops if breaker is closed. Timeout means synchronizing failed.)
	VDiffTooHigh	175	1	3	Bit	0x8000 (16)	-	Signal: Voltage difference between bus and line too high.
Sys		154	1	3	Struct			
	Setting Lock-I	154	1	3	Bit	0x40 (7)	-	State of the module input: No parameters can be changed as long as this input is true. The parameter settings are locked.
	SNTP active	154	1	3	Bit	0x80 (8)	-	Signal: If there is no valid SNTP signal for 120 sec, SNTP is regarded as inactive.
	Setting Lock Bypass	154	1	3	Bit	0x100 (9)	-	Signal: Short-period unlock of the Setting Lock

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
SysA		173	1	3	Struct			
	ExBlo-I	173	1	3	Bit	0x1 (1)	-	Module input state: External blocking
	ExBlo	173	1	3	Bit	0x2 (2)	-	Signal: External Blocking
	Alm Current Demd	173	1	3	Bit	0x4 (3)	-	Signal: Alarm averaged demand current
	active	173	1	3	Bit	0x8 (4)	-	Signal: active
	Alarm I THD	173	1	3	Bit	0x10 (5)	-	Signal: Alarm Total Harmonic Distortion Current
	Alarm VA Power	173	1	3	Bit	0x20 (6)	-	Signal: Alarm permitted Apparent Power exceeded
	Alarm VA Demand	173	1	3	Bit	0x40 (7)	-	Signal: Alarm averaged Apparent Power exceeded
	Alarm VAr Power	173	1	3	Bit	0x80 (8)	-	Signal: Alarm permitted Reactive Power exceeded
	Alarm VAr Demand	173	1	3	Bit	0x100 (9)	-	Signal: Alarm averaged Reactive Power exceeded
	Alarm V THD	173	1	3	Bit	0x200 (10)	-	Signal: Alarm Total Harmonic Distortion Voltage
	Alarm Watt Power	173	1	3	Bit	0x400 (11)	-	Signal: Alarm permitted Active Power exceeded

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm Watt Demand	173	1	3	Bit	0x800 (12)	-	Signal: Alarm averaged Active Power exceeded
	Trip Current Demand (*)	173	1	3	Bit	0x1000 (13)	-	Signal: Trip averaged demand current
	Trip I THD (*)	173	1	3	Bit	0x2000 (14)	-	Signal: Trip Total Harmonic Distortion Current
	Trip VA Demand (*)	173	1	3	Bit	0x4000 (15)	-	Signal: Trip averaged Apparent Power exceeded
	Trip VA Power (*)	173	1	3	Bit	0x8000 (16)	-	Signal: Trip permitted Apparent Power exceeded
SysA		174	1	3	Struct			
	Trip VAr Demand (*)	174	1	3	Bit	0x1 (1)	-	Signal: Trip averaged Reactive Power exceeded
	Trip VAr Power (*)	174	1	3	Bit	0x2 (2)	-	Signal: Trip permitted Reactive Power exceeded
	Trip V THD (*)	174	1	3	Bit	0x4 (3)	-	Signal: Trip Total Harmonic Distortion Voltage
	Trip Watt Demand (*)	174	1	3	Bit	0x8 (4)	-	Signal: Trip averaged Active Power exceeded
	Trip Watt Power (*)	174	1	3	Bit	0x10 (5)	-	Signal: Trip permitted Active Power exceeded
TCS[1] - 74TC		150	1	3	Struct			

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo1-I	150	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	150	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	active	150	1	3	Bit	0x4 (3)	-	Signal: active
	ExBlo	150	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Alarm	150	1	3	Bit	0x10 (5)	-	Signal: Alarm Trip Circuit Supervision
	Not Possible	150	1	3	Bit	0x20 (6)	-	Not possible because no state indicator assigned to the breaker.
	Aux ON-I	150	1	3	Bit	0x100 (9)	-	Module Input State: Position indicator/check-back signal of the CB (52a)
	Aux OFF-I	150	1	3	Bit	0x200 (10)	-	Module input state: Position indicator/check-back signal of the CB (52b)
TCS[2] - 74TC		151	1	3	Struct			
	ExBlo1-I	151	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	151	1	3	Bit	0x2 (2)	-	Module input state: External blocking2

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	active	151	1	3	Bit	0x4 (3)	-	Signal: active
	ExBlo	151	1	3	Bit	0x8 (4)	-	Signal: External Blocking
	Alarm	151	1	3	Bit	0x10 (5)	-	Signal: Alarm Trip Circuit Supervision
	Not Possible	151	1	3	Bit	0x20 (6)	-	Not possible because no state indicator assigned to the breaker.
	Aux ON-I	151	1	3	Bit	0x100 (9)	-	Module Input State: Position indicator/check-back signal of the CB (52a)
	Aux OFF-I	151	1	3	Bit	0x200 (10)	-	Module input state: Position indicator/check-back signal of the CB (52b)
<b>ThR - 49</b>		<b>19</b>	<b>1</b>	<b>3</b>	<b>Struct</b>			
	ExBlo1-I	19	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	19	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	19	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	19	1	3	Bit	0x8 (4)	-	Signal: active

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo	19	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	19	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	19	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	19	1	3	Bit	0x80 (8)	-	Signal: Alarm Thermal Overload
	Trip (*)	19	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	19	1	3	Bit	0x200 (10)	-	Signal: Trip Command
TimeSync		54	1	3	Struct			
	synchronized	54	1	3	Bit	0x1 (1)	-	Clock is synchronized.
UFLS		272	1	3	Struct			
	ExBlo1-I	272	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	272	1	3	Bit	0x2 (2)	-	Module input state: External blocking2

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Ex Pdir-I	272	1	3	Bit	0x4 (3)	-	Ignore (block) the evaluation of the power flow direction. This results in classical frequency based load shedding functionality. When this feature is set and active, the functionality of the module turns into conventional, only frequency based load shedding.
	active	272	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	272	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Fuse Fail VT Blo	272	1	3	Bit	0x20 (6)	-	Signal: Blocked by Fuse Failure (VT)
	Trip	272	1	3	Bit	0x40 (7)	-	Signal: Signal: Trip
	Alarm	272	1	3	Bit	0x80 (8)	-	Signal: Alarm P->&f<
URTD		1007	1	3	Struct			
	W1L1 Superv	1007	1	3	Bit	0x1 (1)	-	Signal: Winding1 Phase L1, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	W1L2 Superv	1007	1	3	Bit	0x2 (2)	-	Signal: Winding1 Phase L2, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)
	W1L3 Superv	1007	1	3	Bit	0x4 (3)	-	Signal: Winding1 Phase L3, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)
	W2L1 Superv	1007	1	3	Bit	0x8 (4)	-	Signal: Winding2 Phase L1, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)
	W2L2 Superv	1007	1	3	Bit	0x10 (5)	-	Signal: Winding2 Phase L2, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)
	W2L3 Superv	1007	1	3	Bit	0x20 (6)	-	Signal: Winding2 Phase L3, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)
	Amb1 Superv	1007	1	3	Bit	0x40 (7)	-	Signal: Ambient1, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Amb2 Superv	1007	1	3	Bit	0x80 (8)	-	Signal: Ambient2, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)
	Aux1 Superv	1007	1	3	Bit	0x100 (9)	-	Signal: Auxiliary1, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)
	Aux2 Superv	1007	1	3	Bit	0x200 (10)	-	Signal: Auxiliary2, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)
	Aux3 Superv	1007	1	3	Bit	0x400 (11)	-	Signal: Auxiliary3, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)
	Superv	1007	1	3	Bit	0x800 (12)	-	Signal: URTD Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that all RTD channels are healthy.)
	Aux4 Superv	1007	1	3	Bit	0x1000 (13)	-	Signal: Auxiliary4, Channel Supervision. The value "1" reports a detected channel failure. (The value "0" means that this RTD channel is healthy.)
V/f>[1] - 24		210	1	3	Struct			

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo1-I	210	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	210	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	210	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Alarm	210	1	3	Bit	0x8 (4)	-	Signal: Alarm Overexcitation
	active	210	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	210	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Trip (*)	210	1	3	Bit	0x40 (7)	-	Signal: Trip
	Blo TripCmd	210	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	210	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	TripCmd (*)	210	1	3	Bit	0x200 (10)	-	Signal: Trip Command
V/f>[2] - 24		211	1	3	Struct			
	ExBlo1-I	211	1	3	Bit	0x1 (1)	-	Module input state: External blocking1

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo2-I	211	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	211	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	Alarm	211	1	3	Bit	0x8 (4)	-	Signal: Alarm Overexcitation
	active	211	1	3	Bit	0x10 (5)	-	Signal: active
	ExBlo	211	1	3	Bit	0x20 (6)	-	Signal: External Blocking
	Trip (*)	211	1	3	Bit	0x40 (7)	-	Signal: Trip
	Blo TripCmd	211	1	3	Bit	0x80 (8)	-	Signal: Trip Command blocked
	ExBlo TripCmd	211	1	3	Bit	0x100 (9)	-	Signal: External Blocking of the Trip Command
	TripCmd (*)	211	1	3	Bit	0x200 (10)	-	Signal: Trip Command
V012[1] - 47		100	1	3	Struct			
	ExBlo1-I	100	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	100	1	3	Bit	0x2 (2)	-	Module input state: External blocking2

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd-I	100	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	100	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	100	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	100	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	100	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	100	1	3	Bit	0x80 (8)	-	Signal: Alarm voltage asymmetry
	Trip (*)	100	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	100	1	3	Bit	0x200 (10)	-	Signal: Trip Command
V012[2] - 47		101	1	3	Struct			
	ExBlo1-I	101	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	101	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	101	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	active	101	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	101	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	101	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	101	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	101	1	3	Bit	0x80 (8)	-	Signal: Alarm voltage asymmetry
	Trip (*)	101	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	101	1	3	Bit	0x200 (10)	-	Signal: Trip Command
V012[3] - 47		102	1	3	Struct			
	ExBlo1-I	102	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	102	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	102	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	102	1	3	Bit	0x8 (4)	-	Signal: active

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo	102	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	102	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	102	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	102	1	3	Bit	0x80 (8)	-	Signal: Alarm voltage asymmetry
	Trip (*)	102	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	102	1	3	Bit	0x200 (10)	-	Signal: Trip Command
V012[4] - 47		103	1	3	Struct			
	ExBlo1-I	103	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	103	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	103	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	103	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	103	1	3	Bit	0x10 (5)	-	Signal: External Blocking

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Blo TripCmd	103	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	103	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	103	1	3	Bit	0x80 (8)	-	Signal: Alarm voltage asymmetry
	Trip (*)	103	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	103	1	3	Bit	0x200 (10)	-	Signal: Trip Command
V012[5] - 47		104	1	3	Struct			
	ExBlo1-I	104	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	104	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	104	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	104	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	104	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	104	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd	104	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	104	1	3	Bit	0x80 (8)	-	Signal: Alarm voltage asymmetry
	Trip (*)	104	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	104	1	3	Bit	0x200 (10)	-	Signal: Trip Command
V012[6] - 47		105	1	3	Struct			
	ExBlo1-I	105	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	105	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	105	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	105	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	105	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	105	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	105	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm	105	1	3	Bit	0x80 (8)	-	Signal: Alarm voltage asymmetry
	Trip (*)	105	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	105	1	3	Bit	0x200 (10)	-	Signal: Trip Command
VG[1] - 27A, 59N,A		32	1	3	Struct			
	ExBlo1-l	32	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-l	32	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-l	32	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	32	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	32	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	32	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	32	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	32	1	3	Bit	0x80 (8)	-	Signal: Alarm Residual Voltage Supervision-stage

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip (*)	32	1	3	Bit	0x100 (9)	-	Signal: Trip
	TripCmd (*)	32	1	3	Bit	0x200 (10)	-	Signal: Trip Command
VG[2] - 27A, 59N,A		33	1	3	Struct			
	ExBlo1-l	33	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-l	33	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-l	33	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	33	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	33	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	33	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	33	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	33	1	3	Bit	0x80 (8)	-	Signal: Alarm Residual Voltage Supervision-stage
	Trip (*)	33	1	3	Bit	0x100 (9)	-	Signal: Trip

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	TripCmd (*)	33	1	3	Bit	0x200 (10)	-	Signal: Trip Command
V[1] - 27, 59		24	1	3	Struct			
	ExBlo1-I	24	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	24	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	24	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	24	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	24	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	24	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	24	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
V[1] - 27, 59		25	1	3	Struct			
	Alarm L1	25	1	3	Bit	0x1 (1)	-	Signal: Alarm L1
	Alarm L2	25	1	3	Bit	0x2 (2)	-	Signal: Alarm L2

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm L3	25	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	25	1	3	Bit	0x8 (4)	-	Signal: Alarm voltage stage
	Trip L1 (*)	25	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	25	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	25	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	25	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	25	1	3	Bit	0x100 (9)	-	Signal: Trip Command
	Imin release active	25	1	3	Bit	0x200 (10)	-	Signal that the Imin release (minimum current) check is enabled and does not block the undervoltage detection at the moment.
V[2] - 27, 59		26	1	3	Struct			
	ExBlo1-I	26	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	26	1	3	Bit	0x2 (2)	-	Module input state: External blocking2

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd-I	26	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	26	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	26	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	26	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	26	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
V[2] - 27, 59		27	1	3	Struct			
	Alarm L1	27	1	3	Bit	0x1 (1)	-	Signal: Alarm L1
	Alarm L2	27	1	3	Bit	0x2 (2)	-	Signal: Alarm L2
	Alarm L3	27	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	27	1	3	Bit	0x8 (4)	-	Signal: Alarm voltage stage
	Trip L1 (*)	27	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	27	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip L3 (*)	27	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	27	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	27	1	3	Bit	0x100 (9)	-	Signal: Trip Command
	Imin release active	27	1	3	Bit	0x200 (10)	-	Signal that the Imin release (minimum current) check is enabled and does not block the undervoltage detection at the moment.
V[3] - 27, 59		28	1	3	Struct			
	ExBlo1-I	28	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	28	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	28	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	28	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	28	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	28	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd	28	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
V[3] - 27, 59		29	1	3	Struct			
	Alarm L1	29	1	3	Bit	0x1 (1)	-	Signal: Alarm L1
	Alarm L2	29	1	3	Bit	0x2 (2)	-	Signal: Alarm L2
	Alarm L3	29	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	29	1	3	Bit	0x8 (4)	-	Signal: Alarm voltage stage
	Trip L1 (*)	29	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	29	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	29	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	29	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	29	1	3	Bit	0x100 (9)	-	Signal: Trip Command

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Imin release active	29	1	3	Bit	0x200 (10)	-	Signal that the Imin release (minimum current) check is enabled and does not block the undervoltage detection at the moment.
V[4] - 27, 59		30	1	3	Struct			
	ExBlo1-I	30	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	30	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	30	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	30	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	30	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	30	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	30	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
V[4] - 27, 59		31	1	3	Struct			
	Alarm L1	31	1	3	Bit	0x1 (1)	-	Signal: Alarm L1
	Alarm L2	31	1	3	Bit	0x2 (2)	-	Signal: Alarm L2

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm L3	31	1	3	Bit	0x4 (3)	-	Signal: Alarm L3
	Alarm	31	1	3	Bit	0x8 (4)	-	Signal: Alarm voltage stage
	Trip L1 (*)	31	1	3	Bit	0x10 (5)	-	Signal: General Trip Phase L1
	Trip L2 (*)	31	1	3	Bit	0x20 (6)	-	Signal: General Trip Phase L2
	Trip L3 (*)	31	1	3	Bit	0x40 (7)	-	Signal: General Trip Phase L3
	Trip (*)	31	1	3	Bit	0x80 (8)	-	Signal: Trip
	TripCmd (*)	31	1	3	Bit	0x100 (9)	-	Signal: Trip Command
	Imin release active	31	1	3	Bit	0x200 (10)	-	Signal that the Imin release (minimum current) check is enabled and does not block the undervoltage detection at the moment.
V[5] - 27, 59		92	1	3	Struct			
	ExBlo1-I	92	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	92	1	3	Bit	0x2 (2)	-	Module input state: External blocking2

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd-I	92	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	92	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	92	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	92	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	92	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	92	1	3	Bit	0x80 (8)	-	Signal: Alarm voltage stage
	Alarm L1	92	1	3	Bit	0x100 (9)	-	Signal: Alarm L1
	Alarm L2	92	1	3	Bit	0x200 (10)	-	Signal: Alarm L2
	Alarm L3	92	1	3	Bit	0x400 (11)	-	Signal: Alarm L3
	Trip (*)	92	1	3	Bit	0x800 (12)	-	Signal: Trip
	Trip L1 (*)	92	1	3	Bit	0x1000 (13)	-	Signal: General Trip Phase L1

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip L2 (*)	92	1	3	Bit	0x2000 (14)	-	Signal: General Trip Phase L2
	Trip L3 (*)	92	1	3	Bit	0x4000 (15)	-	Signal: General Trip Phase L3
	TripCmd (*)	92	1	3	Bit	0x8000 (16)	-	Signal: Trip Command
V[5] - 27, 59		94	1	3	Struct			
	Imin release active	94	1	3	Bit	0x1 (1)	-	Signal that the Imin release (minimum current) check is enabled and does not block the undervoltage detection at the moment.
V[6] - 27, 59		93	1	3	Struct			
	ExBlo1-I	93	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	93	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	93	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	93	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	93	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	93	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd	93	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	93	1	3	Bit	0x80 (8)	-	Signal: Alarm voltage stage
	Alarm L1	93	1	3	Bit	0x100 (9)	-	Signal: Alarm L1
	Alarm L2	93	1	3	Bit	0x200 (10)	-	Signal: Alarm L2
	Alarm L3	93	1	3	Bit	0x400 (11)	-	Signal: Alarm L3
	Trip (*)	93	1	3	Bit	0x800 (12)	-	Signal: Trip
	Trip L1 (*)	93	1	3	Bit	0x1000 (13)	-	Signal: General Trip Phase L1
	Trip L2 (*)	93	1	3	Bit	0x2000 (14)	-	Signal: General Trip Phase L2
	Trip L3 (*)	93	1	3	Bit	0x4000 (15)	-	Signal: General Trip Phase L3
	TripCmd (*)	93	1	3	Bit	0x8000 (16)	-	Signal: Trip Command
V[6] - 27, 59		95	1	3	Struct			

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Imin release active	95	1	3	Bit	0x1 (1)	-	Signal that the Imin release (minimum current) check is enabled and does not block the undervoltage detection at the moment.
delta phi - 78V		249	1	3	Struct			
	ExBlo1-I	249	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	249	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	249	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	249	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	249	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	249	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	249	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	249	1	3	Bit	0x80 (8)	-	Signal: Alarm Frequency Protection (collective signal)
	Trip (*)	249	1	3	Bit	0x100 (9)	-	Signal: Trip Frequency Protection (collective signal)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	TripCmd (*)	249	1	3	Bit	0x200 (10)	-	Signal: Trip Command
	Blo by V<	249	1	3	Bit	0x400 (11)	-	Signal: Module is blocked by undervoltage.
df/dt - 81R		250	1	3	Struct			
	ExBlo1-l	250	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-l	250	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-l	250	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	250	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	250	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo TripCmd	250	1	3	Bit	0x20 (6)	-	Signal: Trip Command blocked
	ExBlo TripCmd	250	1	3	Bit	0x40 (7)	-	Signal: External Blocking of the Trip Command
	Alarm	250	1	3	Bit	0x80 (8)	-	Signal: Alarm Frequency Protection (collective signal)
	Trip (*)	250	1	3	Bit	0x100 (9)	-	Signal: Trip Frequency Protection (collective signal)

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	TripCmd (*)	250	1	3	Bit	0x200 (10)	-	Signal: Trip Command
	Blo by V<	250	1	3	Bit	0x400 (11)	-	Signal: Module is blocked by undervoltage.
f[1] - 81		34	1	3	Struct			
	ExBlo1-l	34	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-l	34	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-l	34	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	34	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	34	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo by V<	34	1	3	Bit	0x20 (6)	-	Signal: Module is blocked by undervoltage.
	Blo TripCmd	34	1	3	Bit	0x40 (7)	-	Signal: Trip Command blocked
	ExBlo TripCmd	34	1	3	Bit	0x80 (8)	-	Signal: External Blocking of the Trip Command
f[1] - 81		35	1	3	Struct			

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm f	35	1	3	Bit	0x1 (1)	-	Signal: Alarm Frequency Protection
	Alarm df/dt   DF/DT	35	1	3	Bit	0x2 (2)	-	Alarm instantaneous or average value of the rate-of-frequency-change
	Trip f (*)	35	1	3	Bit	0x4 (3)	-	Signal: Frequency has exceeded the limit.
	Trip df/dt   DF/DT (*)	35	1	3	Bit	0x8 (4)	-	Signal: Trip df/dt or DF/DT
	Alarm	35	1	3	Bit	0x10 (5)	-	Signal: Alarm Frequency Protection (collective signal)
	Alarm delta phi	35	1	3	Bit	0x20 (6)	-	Signal: Alarm Vector Surge
	Trip (*)	35	1	3	Bit	0x40 (7)	-	Signal: Trip Frequency Protection (collective signal)
	Trip delta phi (*)	35	1	3	Bit	0x80 (8)	-	Signal: Trip Vector Surge
	TripCmd (*)	35	1	3	Bit	0x100 (9)	-	Signal: Trip Command
f[2] - 81		36	1	3	Struct			
	ExBlo1-I	36	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	36	1	3	Bit	0x2 (2)	-	Module input state: External blocking2

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd-I	36	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	36	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	36	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo by V<	36	1	3	Bit	0x20 (6)	-	Signal: Module is blocked by undervoltage.
	Blo TripCmd	36	1	3	Bit	0x40 (7)	-	Signal: Trip Command blocked
	ExBlo TripCmd	36	1	3	Bit	0x80 (8)	-	Signal: External Blocking of the Trip Command
f[2] - 81		37	1	3	Struct			
	Alarm f	37	1	3	Bit	0x1 (1)	-	Signal: Alarm Frequency Protection
	Alarm df/dt   DF/DT	37	1	3	Bit	0x2 (2)	-	Alarm instantaneous or average value of the rate-of-frequency-change
	Trip f (*)	37	1	3	Bit	0x4 (3)	-	Signal: Frequency has exceeded the limit.
	Trip df/dt   DF/DT (*)	37	1	3	Bit	0x8 (4)	-	Signal: Trip df/dt or DF/DT
	Alarm	37	1	3	Bit	0x10 (5)	-	Signal: Alarm Frequency Protection (collective signal)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm delta phi	37	1	3	Bit	0x20 (6)	-	Signal: Alarm Vector Surge
	Trip (*)	37	1	3	Bit	0x40 (7)	-	Signal: Trip Frequency Protection (collective signal)
	Trip delta phi (*)	37	1	3	Bit	0x80 (8)	-	Signal: Trip Vector Surge
	TripCmd (*)	37	1	3	Bit	0x100 (9)	-	Signal: Trip Command
f[3] - 81		38	1	3	Struct			
	ExBlo1-I	38	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	38	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	38	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	38	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	38	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo by V<	38	1	3	Bit	0x20 (6)	-	Signal: Module is blocked by undervoltage.
	Blo TripCmd	38	1	3	Bit	0x40 (7)	-	Signal: Trip Command blocked

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo TripCmd	38	1	3	Bit	0x80 (8)	-	Signal: External Blocking of the Trip Command
f[3] - 81		39	1	3	Struct			
	Alarm f	39	1	3	Bit	0x1 (1)	-	Signal: Alarm Frequency Protection
	Alarm df/dt   DF/DT	39	1	3	Bit	0x2 (2)	-	Alarm instantaneous or average value of the rate-of-frequency-change
	Trip f (*)	39	1	3	Bit	0x4 (3)	-	Signal: Frequency has exceeded the limit.
	Trip df/dt   DF/DT (*)	39	1	3	Bit	0x8 (4)	-	Signal: Trip df/dt or DF/DT
	Alarm	39	1	3	Bit	0x10 (5)	-	Signal: Alarm Frequency Protection (collective signal)
	Alarm delta phi	39	1	3	Bit	0x20 (6)	-	Signal: Alarm Vector Surge
	Trip (*)	39	1	3	Bit	0x40 (7)	-	Signal: Trip Frequency Protection (collective signal)
	Trip delta phi (*)	39	1	3	Bit	0x80 (8)	-	Signal: Trip Vector Surge
	TripCmd (*)	39	1	3	Bit	0x100 (9)	-	Signal: Trip Command
f[4] - 81		40	1	3	Struct			

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	ExBlo1-I	40	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	40	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	40	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	40	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	40	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo by V<	40	1	3	Bit	0x20 (6)	-	Signal: Module is blocked by undervoltage.
	Blo TripCmd	40	1	3	Bit	0x40 (7)	-	Signal: Trip Command blocked
	ExBlo TripCmd	40	1	3	Bit	0x80 (8)	-	Signal: External Blocking of the Trip Command
f[4] - 81		41	1	3	Struct			
	Alarm f	41	1	3	Bit	0x1 (1)	-	Signal: Alarm Frequency Protection
	Alarm df/dt   DF/DT	41	1	3	Bit	0x2 (2)	-	Alarm instantaneous or average value of the rate-of-frequency-change
	Trip f (*)	41	1	3	Bit	0x4 (3)	-	Signal: Frequency has exceeded the limit.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip df/dt   DF/DT (*)	41	1	3	Bit	0x8 (4)	-	Signal: Trip df/dt or DF/DT
	Alarm	41	1	3	Bit	0x10 (5)	-	Signal: Alarm Frequency Protection (collective signal)
	Alarm delta phi	41	1	3	Bit	0x20 (6)	-	Signal: Alarm Vector Surge
	Trip (*)	41	1	3	Bit	0x40 (7)	-	Signal: Trip Frequency Protection (collective signal)
	Trip delta phi (*)	41	1	3	Bit	0x80 (8)	-	Signal: Trip Vector Surge
	TripCmd (*)	41	1	3	Bit	0x100 (9)	-	Signal: Trip Command
f[5] - 81		42	1	3	Struct			
	ExBlo1-I	42	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	42	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	42	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	42	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	42	1	3	Bit	0x10 (5)	-	Signal: External Blocking

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Blo by V<	42	1	3	Bit	0x20 (6)	-	Signal: Module is blocked by undervoltage.
	Blo TripCmd	42	1	3	Bit	0x40 (7)	-	Signal: Trip Command blocked
	ExBlo TripCmd	42	1	3	Bit	0x80 (8)	-	Signal: External Blocking of the Trip Command
f[5] - 81		43	1	3	Struct			
	Alarm f	43	1	3	Bit	0x1 (1)	-	Signal: Alarm Frequency Protection
	Alarm df/dt   DF/DT	43	1	3	Bit	0x2 (2)	-	Alarm instantaneous or average value of the rate-of-frequency-change
	Trip f (*)	43	1	3	Bit	0x4 (3)	-	Signal: Frequency has exceeded the limit.
	Trip df/dt   DF/DT (*)	43	1	3	Bit	0x8 (4)	-	Signal: Trip df/dt or DF/DT
	Alarm	43	1	3	Bit	0x10 (5)	-	Signal: Alarm Frequency Protection (collective signal)
	Alarm delta phi	43	1	3	Bit	0x20 (6)	-	Signal: Alarm Vector Surge
	Trip (*)	43	1	3	Bit	0x40 (7)	-	Signal: Trip Frequency Protection (collective signal)
	Trip delta phi (*)	43	1	3	Bit	0x80 (8)	-	Signal: Trip Vector Surge

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	TripCmd (*)	43	1	3	Bit	0x100 (9)	-	Signal: Trip Command
f[6] - 81		44	1	3	Struct			
	ExBlo1-I	44	1	3	Bit	0x1 (1)	-	Module input state: External blocking1
	ExBlo2-I	44	1	3	Bit	0x2 (2)	-	Module input state: External blocking2
	ExBlo TripCmd-I	44	1	3	Bit	0x4 (3)	-	Module input state: External Blocking of the Trip Command
	active	44	1	3	Bit	0x8 (4)	-	Signal: active
	ExBlo	44	1	3	Bit	0x10 (5)	-	Signal: External Blocking
	Blo by V<	44	1	3	Bit	0x20 (6)	-	Signal: Module is blocked by undervoltage.
	Blo TripCmd	44	1	3	Bit	0x40 (7)	-	Signal: Trip Command blocked
	ExBlo TripCmd	44	1	3	Bit	0x80 (8)	-	Signal: External Blocking of the Trip Command
f[6] - 81		45	1	3	Struct			
	Alarm f	45	1	3	Bit	0x1 (1)	-	Signal: Alarm Frequency Protection

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Alarm df/dt   DF/DT	45	1	3	Bit	0x2 (2)	-	Alarm instantaneous or average value of the rate-of-frequency-change
	Trip f (*)	45	1	3	Bit	0x4 (3)	-	Signal: Frequency has exceeded the limit.
	Trip df/dt   DF/DT (*)	45	1	3	Bit	0x8 (4)	-	Signal: Trip df/dt or DF/DT
	Alarm	45	1	3	Bit	0x10 (5)	-	Signal: Alarm Frequency Protection (collective signal)
	Alarm delta phi	45	1	3	Bit	0x20 (6)	-	Signal: Alarm Vector Surge
	Trip (*)	45	1	3	Bit	0x40 (7)	-	Signal: Trip Frequency Protection (collective signal)
	Trip delta phi (*)	45	1	3	Bit	0x80 (8)	-	Signal: Trip Vector Surge
	TripCmd (*)	45	1	3	Bit	0x100 (9)	-	Signal: Trip Command

Legend \* = These Signals have to be acknowledged by the Scada System.

## Measuring values

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
AnIn[1]	Value	20896	2	4	Float IEE754		%	Measured value of the Input in percent
AnIn[2]	Value	20900	2	4	Float IEE754		%	Measured value of the Input in percent
AnIn[3]	Value	20904	2	4	Float IEE754		%	Measured value of the Input in percent
AnIn[4]	Value	20908	2	4	Float IEE754		%	Measured value of the Input in percent
CT W1	IL1	20100	2	4	Float IEE754		A	Measured value: Phase current (fundamental)
CT W1	IL2	20102	2	4	Float IEE754		A	Measured value: Phase current (fundamental)
CT W1	IL3	20104	2	4	Float IEE754		A	Measured value: Phase current (fundamental)
CT W1	IG meas	20106	2	4	Float IEE754		A	Measured value (measured): IG (fundamental)
CT W1	I0	20114	2	4	Float IEE754		A	Measured value (calculated): Zero current (fundamental)
CT W1	I1	20116	2	4	Float IEE754		A	Measured value (calculated): Positive phase sequence current (fundamental)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W1	I2	20118	2	4	Float IEE754		A	Measured value (calculated): Unbalanced load current (fundamental)
CT W1	IL1 H2	20120	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL1
CT W1	IL2 H2	20122	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL2
CT W1	IL3 H2	20124	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL3
CT W1	IG H2 meas	20126	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IG (measured)
CT W1	IG calc	20160	2	4	Float IEE754		A	Measured value (calculated): IG (fundamental)
CT W1	phi IG calc	20200	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IG calc  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W1	phi IG meas	20202	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IG meas  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W1	phi IL1	20204	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL1  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W1	phi IL2	20206	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL2  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W1	phi IL3	20208	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL3  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W1	IL1 THD	20210	2	4	Float IEE754		A	Measured value (calculated): IL1 Total Harmonic Current
CT W1	IL2 THD	20212	2	4	Float IEE754		A	Measured value (calculated): IL2 Total Harmonic Current
CT W1	IL3 THD	20214	2	4	Float IEE754		A	Measured value (calculated): IL3 Total Harmonic Current
CT W1	%IL1 THD	20216	2	4	Float IEE754		%	Measured value (calculated): IL1 Total Harmonic Distortion

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W1	%IL2 THD	20218	2	4	Float IEE754		%	Measured value (calculated): IL2 Total Harmonic Distortion
CT W1	%IL3 THD	20220	2	4	Float IEE754		%	Measured value (calculated): IL3 Total Harmonic Distortion
CT W1	IL1 RMS	20316	2	4	Float IEE754		A	Measured value: Phase current (RMS)
CT W1	IL2 RMS	20318	2	4	Float IEE754		A	Measured value: Phase current (RMS)
CT W1	IL3 RMS	20320	2	4	Float IEE754		A	Measured value: Phase current (RMS)
CT W1	IG meas RMS	20322	2	4	Float IEE754		A	Measured value (measured): IG (RMS)
CT W1	IG calc RMS	20324	2	4	Float IEE754		A	Measured value (calculated): IG (RMS)
CT W1	%(I2/I1)	20376	2	4	Float IEE754		%	Measured value (calculated): I2/I1, phase sequence will be taken into account automatically.
CT W1	phi I0	20378	2	4	Float IEE754		°	Measured value (calculated): Angle Zero Sequence System  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W1	phi I1	20380	2	4	Float IEE754		°	Measured value (calculated): Angle of Positive Sequence System  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W1	phi I2	20382	2	4	Float IEE754		°	Measured Value (calculated): Angle of Negative Sequence System  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W1	IG H2 calc	20500	2	4	Float IEE754		%	Measured value (calculated): 2nd harmonic/1st harmonic of IG (calculated)
CT W1	I1 max	21074	2	4	Float IEE754		A	Maximum value positive phase sequence current (fundamental)
CT W1	I1 min	21076	2	4	Float IEE754		A	Minimum value positive phase sequence current (fundamental)
CT W1	I2 max	21080	2	4	Float IEE754		A	Maximum value negative sequence current (fundamental)
CT W1	I2 min	21082	2	4	Float IEE754		A	Minimum value unbalanced load current (fundamental)
CT W1	IL1 avg RMS	21130	2	4	Float IEE754		A	IL1 average value (RMS)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W1	IL2 avg RMS	21132	2	4	Float IEE754		A	IL2 average value (RMS)
CT W1	IL3 avg RMS	21134	2	4	Float IEE754		A	IL3 average value (RMS)
CT W1	IL1 max RMS	21136	2	4	Float IEE754		A	IL1 maximum value (RMS)
CT W1	IL2 max RMS	21138	2	4	Float IEE754		A	IL2 maximum value (RMS)
CT W1	IL3 max RMS	21140	2	4	Float IEE754		A	IL3 maximum value (RMS)
CT W1	IL1 min RMS	21142	2	4	Float IEE754		A	IL1 minimum value (RMS)
CT W1	IL2 min RMS	21144	2	4	Float IEE754		A	IL2 minimum value (RMS)
CT W1	IL3 min RMS	21146	2	4	Float IEE754		A	IL3 minimum value (RMS)
CT W1	IG H2 meas max	21222	2	4	Float IEE754		%	Measured value: Maximum ratio of 2nd harmonic over fundamental of IG (measured)
CT W1	IG H2 meas min	21224	2	4	Float IEE754		%	Measured value: Minimum ratio of 2nd harmonic over fundamental of IG (measured)
CT W1	IL1 H2 max	21228	2	4	Float IEE754		%	Maximum ratio of 2nd harmonic over fundamental of IL1

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W1	IL1 H2 min	21230	2	4	Float IEE754		%	Minimum ratio of 2nd harmonic over fundamental of IL1
CT W1	IL2 H2 max	21234	2	4	Float IEE754		%	Maximum ratio of 2nd harmonic over fundamental of IL2
CT W1	IL2 H2 min	21236	2	4	Float IEE754		%	Minimum ratio of 2nd harmonic over fundamental of IL2
CT W1	IL3 H2 max	21240	2	4	Float IEE754		%	Maximum ratio of 2nd harmonic over fundamental of IL3
CT W1	IL3 H2 min	21242	2	4	Float IEE754		%	Minimum ratio of 2nd harmonic/1st harmonic minimum value of IL3
CT W1	IG calc max RMS	21456	2	4	Float IEE754		A	Measured value (calculated):IG maximum value (RMS)
CT W1	IG calc min RMS	21458	2	4	Float IEE754		A	Measured value (calculated):IG minimum value (RMS)
CT W1	IG meas max RMS	21462	2	4	Float IEE754		A	Measured value: IG maximum value (RMS)
CT W1	IG meas min RMS	21464	2	4	Float IEE754		A	Measured value: IG minimum value (RMS)
CT W1	%(I2/I1) max	21468	2	4	Float IEE754		%	Measured value (calculated): I2/I1 maximum value, phase sequence will be taken into account automatically
CT W1	%(I2/I1) min	21470	2	4	Float IEE754		%	Measured value (calculated): I2/I1 minimum value, phase sequence will be taken into account automatically

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W1	IG H2 calc max	21774	2	4	Float IEE754		%	Measured value (calculated): Maximum ratio of 2nd harmonic over fundamental of IG (calculated)
CT W1	IG H2 calc min	21776	2	4	Float IEE754		%	IG H2 calc min
CT W1	IL1 Peak demand	21784	2	4	Float IEE754		A	IL1 Peak value, RMS value
CT W1	IL2 Peak demand	21786	2	4	Float IEE754		A	IL2 Peak value, RMS value
CT W1	IL3 Peak demand	21788	2	4	Float IEE754		A	IL3 Peak value, RMS value
CT W1 - fault value	IL1	50100	2	4	Float IEE754		A	Measured value: Phase current (fundamental) , as stored in the Fault Recorder
CT W1 - fault value	IL2	50102	2	4	Float IEE754		A	Measured value: Phase current (fundamental) , as stored in the Fault Recorder
CT W1 - fault value	IL3	50104	2	4	Float IEE754		A	Measured value: Phase current (fundamental) , as stored in the Fault Recorder
CT W1 - fault value	IG meas	50106	2	4	Float IEE754		A	Measured value (measured): IG (fundamental) , as stored in the Fault Recorder
CT W1 - fault value	I0	50114	2	4	Float IEE754		A	Measured value (calculated): Zero current (fundamental) , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W1 - fault value	I1	50116	2	4	Float IEE754		A	Measured value (calculated): Positive phase sequence current (fundamental) , as stored in the Fault Recorder
CT W1 - fault value	I2	50118	2	4	Float IEE754		A	Measured value (calculated): Unbalanced load current (fundamental) , as stored in the Fault Recorder
CT W1 - fault value	IL1 H2	50120	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL1 , as stored in the Fault Recorder
CT W1 - fault value	IL2 H2	50122	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL2 , as stored in the Fault Recorder
CT W1 - fault value	IL3 H2	50124	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL3 , as stored in the Fault Recorder
CT W1 - fault value	IG H2 meas	50126	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IG (measured) , as stored in the Fault Recorder
CT W1 - fault value	IG calc	50160	2	4	Float IEE754		A	Measured value (calculated): IG (fundamental) , as stored in the Fault Recorder
CT W1 - fault value	phi IG calc	50200	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IG calc  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W1 - fault value	phi IG meas	50202	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IG meas  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
CT W1 - fault value	phi IL1	50204	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL1  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
CT W1 - fault value	phi IL2	50206	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL2  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
CT W1 - fault value	phi IL3	50208	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL3  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W1 - fault value	IL1 RMS	50316	2	4	Float IEE754		A	Measured value: Phase current (RMS) , as stored in the Fault Recorder
CT W1 - fault value	IL2 RMS	50318	2	4	Float IEE754		A	Measured value: Phase current (RMS) , as stored in the Fault Recorder
CT W1 - fault value	IL3 RMS	50320	2	4	Float IEE754		A	Measured value: Phase current (RMS) , as stored in the Fault Recorder
CT W1 - fault value	IG meas RMS	50322	2	4	Float IEE754		A	Measured value (measured): IG (RMS) , as stored in the Fault Recorder
CT W1 - fault value	IG calc RMS	50324	2	4	Float IEE754		A	Measured value (calculated): IG (RMS) , as stored in the Fault Recorder
CT W1 - fault value	%(I2/I1)	50376	2	4	Float IEE754		%	Measured value (calculated): I2/I1, phase sequence will be taken into account automatically. , as stored in the Fault Recorder
CT W1 - fault value	IG H2 calc	50500	2	4	Float IEE754		%	Measured value (calculated): 2nd harmonic/1st harmonic of IG (calculated) , as stored in the Fault Recorder
CT W2	I0	20222	2	4	Float IEE754		A	Measured value (calculated): Zero current (fundamental)
CT W2	I1	20224	2	4	Float IEE754		A	Measured value (calculated): Positive phase sequence current (fundamental)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2	I2	20226	2	4	Float IEE754		A	Measured value (calculated): Unbalanced load current (fundamental)
CT W2	IG calc	20228	2	4	Float IEE754		A	Measured value (calculated): IG (fundamental)
CT W2	IG meas	20230	2	4	Float IEE754		A	Measured value (measured): IG (fundamental)
CT W2	IL1	20232	2	4	Float IEE754		A	Measured value: Phase current (fundamental)
CT W2	IL2	20234	2	4	Float IEE754		A	Measured value: Phase current (fundamental)
CT W2	IL3	20236	2	4	Float IEE754		A	Measured value: Phase current (fundamental)
CT W2	IG H2 meas	20238	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IG (measured)
CT W2	IL1 H2	20240	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL1
CT W2	IL2 H2	20242	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL2
CT W2	IL3 H2	20244	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL3
CT W2	IG calc RMS	20248	2	4	Float IEE754		A	Measured value (calculated): IG (RMS)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2	IG meas RMS	20250	2	4	Float IEE754		A	Measured value (measured): IG (RMS)
CT W2	IL1 RMS	20252	2	4	Float IEE754		A	Measured value: Phase current (RMS)
CT W2	IL2 RMS	20254	2	4	Float IEE754		A	Measured value: Phase current (RMS)
CT W2	IL3 RMS	20256	2	4	Float IEE754		A	Measured value: Phase current (RMS)
CT W2	phi IG calc	20258	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IG calc  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W2	phi IG meas	20260	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IG meas  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W2	phi IL1	20262	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL1  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2	phi IL2	20264	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL2  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W2	phi IL3	20266	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL3  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W2	IL1 THD	20268	2	4	Float IEE754		A	Measured value (calculated): IL1 Total Harmonic Current
CT W2	IL2 THD	20270	2	4	Float IEE754		A	Measured value (calculated): IL2 Total Harmonic Current
CT W2	IL3 THD	20272	2	4	Float IEE754		A	Measured value (calculated): IL3 Total Harmonic Current
CT W2	%IL1 THD	20274	2	4	Float IEE754		%	Measured value (calculated): IL1 Total Harmonic Distortion
CT W2	%IL2 THD	20276	2	4	Float IEE754		%	Measured value (calculated): IL2 Total Harmonic Distortion
CT W2	%IL3 THD	20278	2	4	Float IEE754		%	Measured value (calculated): IL3 Total Harmonic Distortion

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2	%(I2/I1)	20488	2	4	Float IEE754		%	Measured value (calculated): I2/I1, phase sequence will be taken into account automatically.
CT W2	phi I0	20490	2	4	Float IEE754		°	Measured value (calculated): Angle Zero Sequence System  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W2	phi I1	20492	2	4	Float IEE754		°	Measured value (calculated): Angle of Positive Sequence System  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W2	phi I2	20494	2	4	Float IEE754		°	Measured Value (calculated): Angle of Negative Sequence System  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
CT W2	IG H2 calc	20502	2	4	Float IEE754		%	Measured value (calculated): 2nd harmonic/1st harmonic of IG (calculated)
CT W2	IL1 avg RMS	21256	2	4	Float IEE754		A	IL1 average value (RMS)
CT W2	IL1 max RMS	21258	2	4	Float IEE754		A	IL1 maximum value (RMS)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2	IL1 min RMS	21260	2	4	Float IEE754		A	IL1 minimum value (RMS)
CT W2	IL2 avg RMS	21262	2	4	Float IEE754		A	IL2 average value (RMS)
CT W2	IL2 max RMS	21264	2	4	Float IEE754		A	IL2 maximum value (RMS)
CT W2	IL2 min RMS	21266	2	4	Float IEE754		A	IL2 minimum value (RMS)
CT W2	IL3 avg RMS	21268	2	4	Float IEE754		A	IL3 average value (RMS)
CT W2	IL3 max RMS	21270	2	4	Float IEE754		A	IL3 maximum value (RMS)
CT W2	IL3 min RMS	21272	2	4	Float IEE754		A	IL3 minimum value (RMS)
CT W2	I1 max	21276	2	4	Float IEE754		A	Maximum value positive phase sequence current (fundamental)
CT W2	I1 min	21278	2	4	Float IEE754		A	Minimum value positive phase sequence current (fundamental)
CT W2	I2 max	21282	2	4	Float IEE754		A	Maximum value negative sequence current (fundamental)
CT W2	I2 min	21284	2	4	Float IEE754		A	Minimum value unbalanced load current (fundamental)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2	IG H2 meas max	21306	2	4	Float IEE754		%	Measured value: Maximum ratio of 2nd harmonic over fundamental of IG (measured)
CT W2	IG H2 meas min	21308	2	4	Float IEE754		%	Measured value: Minimum ratio of 2nd harmonic over fundamental of IG (measured)
CT W2	IL1 H2 max	21312	2	4	Float IEE754		%	Maximum ratio of 2nd harmonic over fundamental of IL1
CT W2	IL1 H2 min	21314	2	4	Float IEE754		%	Minimum ratio of 2nd harmonic over fundamental of IL1
CT W2	IL2 H2 max	21318	2	4	Float IEE754		%	Maximum ratio of 2nd harmonic over fundamental of IL2
CT W2	IL2 H2 min	21320	2	4	Float IEE754		%	Minimum ratio of 2nd harmonic over fundamental of IL2
CT W2	IL3 H2 max	21324	2	4	Float IEE754		%	Maximum ratio of 2nd harmonic over fundamental of IL3
CT W2	IL3 H2 min	21326	2	4	Float IEE754		%	Minimum ratio of 2nd harmonic/1st harmonic minimum value of IL3
CT W2	IG calc max RMS	21756	2	4	Float IEE754		A	Measured value (calculated):IG maximum value (RMS)
CT W2	IG calc min RMS	21758	2	4	Float IEE754		A	Measured value (calculated):IG minimum value (RMS)
CT W2	IG meas max RMS	21762	2	4	Float IEE754		A	Measured value: IG maximum value (RMS)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2	IG meas min RMS	21764	2	4	Float IEE754		A	Measured value: IG minimum value (RMS)
CT W2	%(I2/I1) max	21768	2	4	Float IEE754		%	Measured value (calculated): I2/I1 maximum value, phase sequence will be taken into account automatically
CT W2	%(I2/I1) min	21770	2	4	Float IEE754		%	Measured value (calculated): I2/I1 minimum value, phase sequence will be taken into account automatically
CT W2	IG H2 calc max	21780	2	4	Float IEE754		%	Measured value (calculated): Maximum ratio of 2nd harmonic over fundamental of IG (calculated)
CT W2	IG H2 calc min	21782	2	4	Float IEE754		%	IG H2 calc min
CT W2	IL1 Peak demand	21930	2	4	Float IEE754		A	IL1 Peak value, RMS value
CT W2	IL2 Peak demand	21932	2	4	Float IEE754		A	IL2 Peak value, RMS value
CT W2	IL3 Peak demand	21934	2	4	Float IEE754		A	IL3 Peak value, RMS value
CT W2 - fault value	I0	50222	2	4	Float IEE754		A	Measured value (calculated): Zero current (fundamental) , as stored in the Fault Recorder
CT W2 - fault value	I1	50224	2	4	Float IEE754		A	Measured value (calculated): Positive phase sequence current (fundamental) , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2 - fault value	I2	50226	2	4	Float IEE754		A	Measured value (calculated): Unbalanced load current (fundamental) , as stored in the Fault Recorder
CT W2 - fault value	IG calc	50228	2	4	Float IEE754		A	Measured value (calculated): IG (fundamental) , as stored in the Fault Recorder
CT W2 - fault value	IG meas	50230	2	4	Float IEE754		A	Measured value (measured): IG (fundamental) , as stored in the Fault Recorder
CT W2 - fault value	IL1	50232	2	4	Float IEE754		A	Measured value: Phase current (fundamental) , as stored in the Fault Recorder
CT W2 - fault value	IL2	50234	2	4	Float IEE754		A	Measured value: Phase current (fundamental) , as stored in the Fault Recorder
CT W2 - fault value	IL3	50236	2	4	Float IEE754		A	Measured value: Phase current (fundamental) , as stored in the Fault Recorder
CT W2 - fault value	IG H2 meas	50238	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IG (measured) , as stored in the Fault Recorder
CT W2 - fault value	IL1 H2	50240	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL1 , as stored in the Fault Recorder
CT W2 - fault value	IL2 H2	50242	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL2 , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2 - fault value	IL3 H2	50244	2	4	Float IEE754		%	Measured value: 2nd harmonic/1st harmonic of IL3 , as stored in the Fault Recorder
CT W2 - fault value	IG calc RMS	50248	2	4	Float IEE754		A	Measured value (calculated): IG (RMS) , as stored in the Fault Recorder
CT W2 - fault value	IG meas RMS	50250	2	4	Float IEE754		A	Measured value (measured): IG (RMS) , as stored in the Fault Recorder
CT W2 - fault value	IL1 RMS	50252	2	4	Float IEE754		A	Measured value: Phase current (RMS) , as stored in the Fault Recorder
CT W2 - fault value	IL2 RMS	50254	2	4	Float IEE754		A	Measured value: Phase current (RMS) , as stored in the Fault Recorder
CT W2 - fault value	IL3 RMS	50256	2	4	Float IEE754		A	Measured value: Phase current (RMS) , as stored in the Fault Recorder
CT W2 - fault value	phi IG calc	50258	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IG calc  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2 - fault value	phi IG meas	50260	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IG meas  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
CT W2 - fault value	phi IL1	50262	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL1  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
CT W2 - fault value	phi IL2	50264	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL2  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
CT W2 - fault value	phi IL3	50266	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor IL3  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
CT W2 - fault value	%(I2/I1)	50488	2	4	Float IEE754		%	Measured value (calculated): I2/I1, phase sequence will be taken into account automatically. , as stored in the Fault Recorder
CT W2 - fault value	IG H2 calc	50502	2	4	Float IEE754		%	Measured value (calculated): 2nd harmonic/1st harmonic of IG (calculated) , as stored in the Fault Recorder
Date and Time		20000	6	4	Struct			
	y	20000	6	4	Short	Word 0 (1)	-	year
	m	20000	6	4	Short	Word 1 (17)	-	month
	d	20000	6	4	Short	Word 2 (33)	-	days
	h	20000	6	4	Short	Word 3 (49)	-	hours
	min	20000	6	4	Short	Word 4 (65)	-	minute
	ms	20000	6	4	Short	Word 5 (81)	-	milliseconds
IRIG-B	Edges	20298	2	4	Float IEE754		-	Edges: Total number of rising and falling edges. This signal indicates if a signal is available at the IRIG-B input.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
IRIG-B	NoOfFrameErrors	20300	2	4	Float IEE754		-	Total Number of Frame Errors. Physically corrupted Frame.
IRIG-B	NoOfFramesOK	20302	2	4	Float IEE754		-	Total Number valid Frames.
ld - 87	ld L1 H2	20280	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L1 Harmonic:2
ld - 87	ld L2 H2	20282	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L2 Harmonic:2
ld - 87	ld L3 H2	20284	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L3 Harmonic:2
ld - 87	ld L1 H4	20286	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L1 Harmonic:4
ld - 87	ld L2 H4	20288	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L2 Harmonic:4
ld - 87	ld L3 H4	20290	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L3 Harmonic:4
ld - 87	ld L1 H5	20292	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L1 Harmonic:5
ld - 87	ld L2 H5	20294	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L2 Harmonic:5

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Id - 87	Id L3 H5	20296	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L3 Harmonic:5
Id - 87	Id L1	20352	2	4	Float IEE754		lb	Measured value (calculated): Differential Current Phase L1
Id - 87	Id L2	20354	2	4	Float IEE754		lb	Measured value (calculated): Differential Current Phase L2
Id - 87	Id L3	20356	2	4	Float IEE754		lb	Measured value (calculated): Differential Current Phase L3
Id - 87	Is L1	20358	2	4	Float IEE754		lb	Measured value (calculated): Restraint Current Phase L1
Id - 87	Is L2	20360	2	4	Float IEE754		lb	Measured value (calculated): Restraint Current Phase L2
Id - 87	Is L3	20362	2	4	Float IEE754		lb	Measured value (calculated): Restraint Current Phase L3
Id - 87	Id L1H2max	21342	2	4	Float IEE754		%	Maximum Value Id L1H2
Id - 87	Id L2H2max	21348	2	4	Float IEE754		%	Maximum Value Id L2H2
Id - 87	Id L3H2max	21354	2	4	Float IEE754		%	Maximum Value Id L3H2
Id - 87	Id L1H4max	21360	2	4	Float IEE754		%	Maximum Value Id L1H4
Id - 87	Id L2H4max	21366	2	4	Float IEE754		%	Maximum Value Id L2H4
Id - 87	Id L3H4max	21372	2	4	Float IEE754		%	Maximum Value Id L3H4

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Id - 87	Id L1H5max	21378	2	4	Float IEE754		%	Maximum Value Id L1H5
Id - 87	Id L2H5max	21384	2	4	Float IEE754		%	Maximum Value Id L2H5
Id - 87	Id L3H5max	21390	2	4	Float IEE754		%	Maximum Value Id L3H5
Id - fault value - 87	Id L1 H2	50280	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L1 Harmonic:2 , as stored in the Fault Recorder
Id - fault value - 87	Id L2 H2	50282	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L2 Harmonic:2 , as stored in the Fault Recorder
Id - fault value - 87	Id L3 H2	50284	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L3 Harmonic:2 , as stored in the Fault Recorder
Id - fault value - 87	Id L1 H4	50286	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L1 Harmonic:4 , as stored in the Fault Recorder
Id - fault value - 87	Id L2 H4	50288	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L2 Harmonic:4 , as stored in the Fault Recorder
Id - fault value - 87	Id L3 H4	50290	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L3 Harmonic:4 , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Id - fault value - 87	Id L1 H5	50292	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L1 Harmonic:5 , as stored in the Fault Recorder
Id - fault value - 87	Id L2 H5	50294	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L2 Harmonic:5 , as stored in the Fault Recorder
Id - fault value - 87	Id L3 H5	50296	2	4	Float IEE754		%	Measured value (calculated): Differential Current Phase L3 Harmonic:5 , as stored in the Fault Recorder
Id - fault value - 87	Id L1	50352	2	4	Float IEE754		lb	Measured value (calculated): Differential Current Phase L1 , as stored in the Fault Recorder
Id - fault value - 87	Id L2	50354	2	4	Float IEE754		lb	Measured value (calculated): Differential Current Phase L2 , as stored in the Fault Recorder
Id - fault value - 87	Id L3	50356	2	4	Float IEE754		lb	Measured value (calculated): Differential Current Phase L3 , as stored in the Fault Recorder
Id - fault value - 87	Is L1	50358	2	4	Float IEE754		lb	Measured value (calculated): Restraint Current Phase L1 , as stored in the Fault Recorder
Id - fault value - 87	Is L2	50360	2	4	Float IEE754		lb	Measured value (calculated): Restraint Current Phase L2 , as stored in the Fault Recorder
Id - fault value - 87	Is L3	50362	2	4	Float IEE754		lb	Measured value (calculated): Restraint Current Phase L3 , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
IdG - 87N	IdG W1	20364	2	4	Float IEE754		A	Measured value (calculated): Ground Differential Current IdG Winding 1
IdG - 87N	IsG W1	20366	2	4	Float IEE754		A	Measured value (calculated): Ground Stabilizing Current Winding 1
IdG - 87N	IdG W2	20368	2	4	Float IEE754		A	Measured value (calculated): Ground Differential Current IdG Winding 2
IdG - 87N	IsG W2	20370	2	4	Float IEE754		A	Measured value (calculated): Ground Stabilizing Current Winding 2
IdG - fault value - 87N	IdG W1	50364	2	4	Float IEE754		A	Measured value (calculated): Ground Differential Current IdG Winding 1 , as stored in the Fault Recorder
IdG - fault value - 87N	IsG W1	50366	2	4	Float IEE754		A	Measured value (calculated): Ground Stabilizing Current Winding 1 , as stored in the Fault Recorder
IdG - fault value - 87N	IdG W2	50368	2	4	Float IEE754		A	Measured value (calculated): Ground Differential Current IdG Winding 2 , as stored in the Fault Recorder
IdG - fault value - 87N	IsG W2	50370	2	4	Float IEE754		A	Measured value (calculated): Ground Stabilizing Current Winding 2 , as stored in the Fault Recorder
LVRT[1] - 27	Cr Tot Numb of Vdips	24092	2	4	Float IEE754		-	Counter Total number of voltage dips.
LVRT[1] - 27	NumOf Vdips in t-LVRT	24094	2	4	Float IEE754		-	Number of Voltage dips during t-LVRT
LVRT[1] - 27	Cr Tot Numb of Vdips to Trip	24096	2	4	Float IEE754		-	Counter Total number of voltage dips that caused a Trip.
LVRT[2] - 27	Cr Tot Numb of Vdips	24138	2	4	Float IEE754		-	Counter Total number of voltage dips.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
LVRT[2] - 27	NumOf Vdips in t-LVRT	24140	2	4	Float IEE754		-	Number of Voltage dips during t-LVRT
LVRT[2] - 27	Cr Tot Numb of Vdips to Trip	24142	2	4	Float IEE754		-	Counter Total number of voltage dips that caused a Trip.
Modbus	Mapped Meas 1	23000	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 2	23002	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 3	23004	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 4	23006	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 5	23008	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 6	23010	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 7	23012	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 8	23014	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Modbus	Mapped Meas 9	23016	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 10	23018	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 11	23020	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 12	23022	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 13	23024	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 14	23026	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 15	23028	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
Modbus	Mapped Meas 16	23030	2	4	Float IEE754		-	Mapped Measured Values. They can be used to provide measured values to the Modbus Master.
PQSCr	cos phi	20152	2	4	Float IEE754		-	Measured value (calculated): Power factor: Sign Convention: sign(PF) = sign(P )

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
PQSCr	P	20154	2	4	Float IEE754		W	Measured value (calculated): Active power (P- = Fed Active Power, P+ = Consumpted Active Power) (fundamental)
PQSCr	Q	20156	2	4	Float IEE754		VAr	Measured value (calculated): Reactive power (Q- = Fed Reactive Power, Q+ = Consumpted Reactive Power) (fundamental)
PQSCr	S	20158	2	4	Float IEE754		VA	Measured Value (Calculated): Apparent power (fundamental)
PQSCr	Wp+	20174	2	4	Float IEE754		kWh	Positive Active Power is consumed active energy
PQSCr	Wp-	20176	2	4	Float IEE754		kWh	Negative Active Power (Fed Energy)
PQSCr	Wq+	20178	2	4	Float IEE754		kVArh	Positive Reactive Power is consumed Reactive Energy
PQSCr	Wq-	20180	2	4	Float IEE754		kVArh	Negative Reactive Power (Fed Energy)
PQSCr	P RMS	20452	2	4	Float IEE754		W	Measured value (calculated): Active power (P- = Fed Active Power, P+ = Consumpted Active Power) (RMS)
PQSCr	S RMS	20454	2	4	Float IEE754		VA	Measured Value (Calculated): Apparent power (RMS)
PQSCr	cos phi RMS	20456	2	4	Float IEE754		-	Measured value (calculated): Power factor: Sign Convention: sign(PF) = sign(P )

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
PQSCr	Wp Net	20460	2	4	Float IEE754		kWh	Absolute Active Power Hours
PQSCr	Wq Net	20462	2	4	Float IEE754		kVAh	Absolute Reactive Power Hours
PQSCr	Ws Net	20464	2	4	Float IEE754		kVAh	Absolute Apparent Power Hours
PQSCr	P 1	20496	2	4	Float IEE754		W	Measured value (calculated): Active power in positive sequence system (P- = Fed Active Power, P+ = Consumed Active Power)
PQSCr	Q 1	20498	2	4	Float IEE754		VAh	Measured value (calculated): Reactive power in positive sequence system (Q- = Fed Reactive Power, Q+ = Consumed Reactive Power)
PQSCr	cos phi max	21092	2	4	Float IEE754		-	Maximum value of the power factor: Sign Convention: sign(PF) = sign(P )
PQSCr	cos phi min	21094	2	4	Float IEE754		-	Minimum value of the power factor: Sign Convention: sign(PF) = sign(P )
PQSCr	P avg	21556	2	4	Float IEE754		W	Average of the active power
PQSCr	P max	21558	2	4	Float IEE754		W	Maximum value of the active power
PQSCr	P min	21560	2	4	Float IEE754		W	Minimum value of the active power

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
PQSCr	S avg	21562	2	4	Float IEE754		VA	Average of the apparent power
PQSCr	S max	21564	2	4	Float IEE754		VA	Maximum value of the apparent power
PQSCr	S min	21566	2	4	Float IEE754		VA	Minimum value of the apparent power
PQSCr	cos phi max RMS	21570	2	4	Float IEE754		-	Maximum value of the power factor: Sign Convention: sign(PF) = sign(P )
PQSCr	cos phi min RMS	21572	2	4	Float IEE754		-	Minimum value of the power factor: Sign Convention: sign(PF) = sign(P )
PQSCr	Q avg	21574	2	4	Float IEE754		VAr	Average of the reactive power
PQSCr	Q max	21576	2	4	Float IEE754		VAr	Maximum value of the reactive power
PQSCr	Q min	21578	2	4	Float IEE754		VAr	Minimum value of the reactive power
PQSCr	Watt Peak demand	21790	2	4	Float IEE754		W	WATTS Peak value, RMS value
PQSCr	VAr Peak demand	21792	2	4	Float IEE754		VAr	VARs Peak value, RMS value
PQSCr	VA Peak demand	21794	2	4	Float IEE754		VA	VA Peak value, RMS value

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
PQSCr - fault value	cos phi	50152	2	4	Float IEE754		-	Measured value (calculated): Power factor: Sign Convention: sign(PF) = sign(P) , as stored in the Fault Recorder
PQSCr - fault value	P	50154	2	4	Float IEE754		W	Measured value (calculated): Active power (P- = Fed Active Power, P+ = Consumpted Active Power) (fundamental) , as stored in the Fault Recorder
PQSCr - fault value	Q	50156	2	4	Float IEE754		VAr	Measured value (calculated): Reactive power (Q- = Fed Reactive Power, Q+ = Consumpted Reactive Power) (fundamental) , as stored in the Fault Recorder
PQSCr - fault value	S	50158	2	4	Float IEE754		VA	Measured Value (Calculated): Apparent power (fundamental) , as stored in the Fault Recorder
PQSCr - fault value	P RMS	50452	2	4	Float IEE754		W	Measured value (calculated): Active power (P- = Fed Active Power, P+ = Consumpted Active Power) (RMS) , as stored in the Fault Recorder
PQSCr - fault value	S RMS	50454	2	4	Float IEE754		VA	Measured Value (Calculated): Apparent power (RMS) , as stored in the Fault Recorder
PQSCr - fault value	cos phi RMS	50456	2	4	Float IEE754		-	Measured value (calculated): Power factor: Sign Convention: sign(PF) = sign(P) , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
PQSCr - fault value	P 1	50496	2	4	Float IEE754		W	Measured value (calculated): Active power in positive sequence system (P- = Fed Active Power, P+ = Consumed Active Power) , as stored in the Fault Recorder
PQSCr - fault value	Q 1	50498	2	4	Float IEE754		VAr	Measured value (calculated): Reactive power in positive sequence system (Q- = Fed Reactive Power, Q+ = Consumed Reactive Power) , as stored in the Fault Recorder
RTD	Hottest WD W1	20504	2	4	Float IEE754		°C	Hottest winding on side W1
RTD	Hottest WD W2	20506	2	4	Float IEE754		°C	Hottest winding on side W2
RTD	Hottest Amb	20508	2	4	Float IEE754		°C	Hottest Ambient Temperature
RTD	Hottest Aux Temp	21820	2	4	Float IEE754		°C	Hottest Auxiliary temperature in degrees C.
SG[1]	Sum trip IL1	20800	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[1]	Sum trip IL2	20802	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[1]	Sum trip IL3	20804	2	4	Float IEE754		A	Summation of the tripping currents phase

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
SG[1]	Isum Intr per hour	20806	2	4	Float IEE754		kA	Sum per hour of interrupting currents.
SG[1]	CB OPEN capacity	20808	2	4	Float IEE754		%	Used capacity of the circuit breaker. (100% means that the circuit breaker has to be maintained.)
SG[1]	TripCmd Cr	20810	2	4	Float IEE754		-	Counter: Total number of trips of the switchgear.
SG[2]	Sum trip IL1	20812	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[2]	Sum trip IL2	20814	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[2]	Sum trip IL3	20816	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[2]	Isum Intr per hour	20818	2	4	Float IEE754		kA	Sum per hour of interrupting currents.
SG[2]	CB OPEN capacity	20820	2	4	Float IEE754		%	Used capacity of the circuit breaker. (100% means that the circuit breaker has to be maintained.)
SG[2]	TripCmd Cr	20822	2	4	Float IEE754		-	Counter: Total number of trips of the switchgear.
SG[3]	Sum trip IL1	20824	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[3]	Sum trip IL2	20826	2	4	Float IEE754		A	Summation of the tripping currents phase

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
SG[3]	Sum trip IL3	20828	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[3]	Isum Intr per hour	20830	2	4	Float IEE754		kA	Sum per hour of interrupting currents.
SG[3]	CB OPEN capacity	20832	2	4	Float IEE754		%	Used capacity of the circuit breaker. (100% means that the circuit breaker has to be maintained.)
SG[3]	TripCmd Cr	20834	2	4	Float IEE754		-	Counter: Total number of trips of the switchgear.
SG[4]	Sum trip IL1	20836	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[4]	Sum trip IL2	20838	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[4]	Sum trip IL3	20840	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[4]	Isum Intr per hour	20842	2	4	Float IEE754		kA	Sum per hour of interrupting currents.
SG[4]	CB OPEN capacity	20844	2	4	Float IEE754		%	Used capacity of the circuit breaker. (100% means that the circuit breaker has to be maintained.)
SG[4]	TripCmd Cr	20846	2	4	Float IEE754		-	Counter: Total number of trips of the switchgear.
SG[5]	Sum trip IL1	20848	2	4	Float IEE754		A	Summation of the tripping currents phase

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
SG[5]	Sum trip IL2	20850	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[5]	Sum trip IL3	20852	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[5]	Isum Intr per hour	20854	2	4	Float IEE754		kA	Sum per hour of interrupting currents.
SG[5]	CB OPEN capacity	20856	2	4	Float IEE754		%	Used capacity of the circuit breaker. (100% means that the circuit breaker has to be maintained.)
SG[5]	TripCmd Cr	20858	2	4	Float IEE754		-	Counter: Total number of trips of the switchgear.
SG[6]	Sum trip IL1	20860	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[6]	Sum trip IL2	20862	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[6]	Sum trip IL3	20864	2	4	Float IEE754		A	Summation of the tripping currents phase
SG[6]	Isum Intr per hour	20866	2	4	Float IEE754		kA	Sum per hour of interrupting currents.
SG[6]	CB OPEN capacity	20868	2	4	Float IEE754		%	Used capacity of the circuit breaker. (100% means that the circuit breaker has to be maintained.)
SG[6]	TripCmd Cr	20870	2	4	Float IEE754		-	Counter: Total number of trips of the switchgear.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Statistics	IdG W1 max	21938	2	4	Float IEE754		A	Measured value (calculated): Ground Differential Current IdG Winding 1 Maximum Value
Statistics	IsG W1 max	21944	2	4	Float IEE754		A	Measured value (calculated): Ground Stabilizing Current Winding 1 Maximum Value
Statistics	IdG W2 max	21950	2	4	Float IEE754		A	Measured value (calculated): Ground Differential Current IdG Winding 2 Maximum Value
Statistics	IsG W2 max	21956	2	4	Float IEE754		A	Measured value (calculated): Ground Stabilizing Current Winding 2 Maximum Value
Statistics	Id L1 max	21962	2	4	Float IEE754		lb	Measured value (calculated): Differential Current Phase L1 Maximum Value
Statistics	Id L2 max	21968	2	4	Float IEE754		lb	Measured value (calculated): Differential Current Phase L2 Maximum Value
Statistics	Id L3 max	21974	2	4	Float IEE754		lb	Measured value (calculated): Differential Current Phase L3 Maximum Value
Statistics	Is L1 max	21980	2	4	Float IEE754		lb	Measured value (calculated): Restraint Current Phase L1 Maximum Value
Statistics	Is L2 max	21986	2	4	Float IEE754		lb	Measured value (calculated): Restraint Current Phase L2 Maximum Value

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Statistics	Is L3 max	21992	2	4	Float IEE754		lb	Measured value (calculated): Restraint Current Phase L3 Maximum Value
Sync - 25	f Bus	20520	2	4	Float IEE754		Hz	Bus frequency
Sync - 25	V Bus	20522	2	4	Float IEE754		V	Bus Voltage
Sync - 25	Angle Bus	20524	2	4	Float IEE754		°	Bus Angle (Reference)
Sync - 25	Angle Diff	20526	2	4	Float IEE754		°	Angle difference between bus and line voltages.
Sync - 25	Volt Diff	20528	2	4	Float IEE754		V	Voltage difference between bus and line.
Sync - 25	f Line	20530	2	4	Float IEE754		Hz	Line frequency
Sync - 25	V Line	20532	2	4	Float IEE754		V	Line Voltage
Sync - 25	Angle Line	20534	2	4	Float IEE754		°	Line Angle
Sync - 25	Slip Freq	20536	2	4	Float IEE754		Hz	Slip frequency
ThR - 49	Thermal Cap Used	20110	2	4	Float IEE754		%	Measured value: Thermal Capacity Used
ThR - 49	Time To Trip	20112	2	4	Float IEE754		s	Measured value (calculated/measured): Remaining time until the thermal overload module will trip

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
ThR - 49	Thermal Cap max	21086	2	4	Float IEE754		%	Thermal Capacity maximum value
ThR - fault value - 49	Thermal Cap Used	50110	2	4	Float IEE754		%	Measured value: Thermal Capacity Used , as stored in the Fault Recorder
ThR - fault value - 49	Time To Trip	50112	2	4	Float IEE754		s	Measured value (calculated/measured): Remaining time until the thermal overload module will trip , as stored in the Fault Recorder
URTD	Aux4	20328	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature
URTD	W1 L1	20330	2	4	Float IEE754		°C	Measured Value: Winding Temperature
URTD	W1 L2	20332	2	4	Float IEE754		°C	Measured Value: Winding Temperature
URTD	W1 L3	20334	2	4	Float IEE754		°C	Measured Value: Winding Temperature
URTD	W2 L1	20336	2	4	Float IEE754		°C	Measured Value: Winding Temperature
URTD	W2 L2	20338	2	4	Float IEE754		°C	Measured Value: Winding Temperature
URTD	W2 L3	20340	2	4	Float IEE754		°C	Measured Value: Winding Temperature
URTD	Amb1	20342	2	4	Float IEE754		°C	Measured Value: Ambient Temperature

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
URTD	Amb2	20344	2	4	Float IEE754		°C	Measured Value: Ambient Temperature
URTD	Aux1	20346	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature
URTD	Aux2	20348	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature
URTD	Aux3	20350	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature
URTD	RTD Max	20486	2	4	Float IEE754		°C	Maximum temperature of all channels.
URTD	W1 L1 max	21194	2	4	Float IEE754		°C	Measured Value: Winding Temperature Maximum Value
URTD	W1 L2 max	21196	2	4	Float IEE754		°C	Measured Value: Winding Temperature Maximum Value
URTD	W1 L3 max	21198	2	4	Float IEE754		°C	Measured Value: Winding Temperature Maximum Value
URTD	W2 L1 max	21200	2	4	Float IEE754		°C	Measured Value: Winding Temperature Maximum Value
URTD	W2 L2 max	21202	2	4	Float IEE754		°C	Measured Value: Winding Temperature Maximum Value
URTD	W2 L3 max	21204	2	4	Float IEE754		°C	Measured Value: Winding Temperature Maximum Value

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
URTD	Amb1 max	21206	2	4	Float IEE754		°C	Measured Value: Ambient Temperature Maximum Value
URTD	Amb2 max	21208	2	4	Float IEE754		°C	Measured Value: Ambient Temperature Maximum Value
URTD	Aux1 max	21210	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature Maximum Value
URTD	Aux2 max	21212	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature Maximum Value
URTD	Aux3 max	21214	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature Maximum Value
URTD	Aux4 max	21800	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature Maximum Value
URTD - fault value	Aux4	50328	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature , as stored in the Fault Recorder
URTD - fault value	W1 L1	50330	2	4	Float IEE754		°C	Measured Value: Winding Temperature , as stored in the Fault Recorder
URTD - fault value	W1 L2	50332	2	4	Float IEE754		°C	Measured Value: Winding Temperature , as stored in the Fault Recorder
URTD - fault value	W1 L3	50334	2	4	Float IEE754		°C	Measured Value: Winding Temperature , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
URTD - fault value	W2 L1	50336	2	4	Float IEE754		°C	Measured Value: Winding Temperature , as stored in the Fault Recorder
URTD - fault value	W2 L2	50338	2	4	Float IEE754		°C	Measured Value: Winding Temperature , as stored in the Fault Recorder
URTD - fault value	W2 L3	50340	2	4	Float IEE754		°C	Measured Value: Winding Temperature , as stored in the Fault Recorder
URTD - fault value	Amb1	50342	2	4	Float IEE754		°C	Measured Value: Ambient Temperature , as stored in the Fault Recorder
URTD - fault value	Amb2	50344	2	4	Float IEE754		°C	Measured Value: Ambient Temperature , as stored in the Fault Recorder
URTD - fault value	Aux1	50346	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature , as stored in the Fault Recorder
URTD - fault value	Aux2	50348	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature , as stored in the Fault Recorder
URTD - fault value	Aux3	50350	2	4	Float IEE754		°C	Measured Value: Auxiliary Temperature , as stored in the Fault Recorder
VT	f	20128	2	4	Float IEE754		Hz	Measured value: Frequency
VT	VL12	20130	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (fundamental)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT	VL23	20132	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (fundamental)
VT	VL31	20134	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (fundamental)
VT	VL1	20136	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (fundamental)
VT	VL2	20138	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (fundamental)
VT	VL3	20140	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (fundamental)
VT	VX meas	20142	2	4	Float IEE754		V	Measured value (measured): VX measured (fundamental)
VT	V0	20146	2	4	Float IEE754		V	Measured value (calculated): Symmetrical components Zero voltage(fundamental)
VT	V1	20148	2	4	Float IEE754		V	Measured value (calculated): Symmetrical components positive phase sequence voltage(fundamental)
VT	V2	20150	2	4	Float IEE754		V	Measured value (calculated): Symmetrical components negative phase sequence voltage(fundamental)
VT	VG calc	20162	2	4	Float IEE754		V	Measured value (calculated): VG (fundamental)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT	phi VG calc	20386	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VG calc  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
VT	phi VX meas	20388	2	4	Float IEE754		°	Measured value: Angle of Phasor VX meas  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
VT	phi VL12	20390	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL12  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
VT	phi VL1	20392	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL1  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT	phi VL23	20394	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL23  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
VT	phi VL2	20396	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL2  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
VT	phi VL31	20398	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL31  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
VT	phi VL3	20400	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL3  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT	phi V0	20402	2	4	Float IEE754		°	Measured value (calculated): Angle Zero Sequence System  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
VT	phi V1	20404	2	4	Float IEE754		°	Measured value (calculated): Angle of Positive Sequence System  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
VT	phi V2	20406	2	4	Float IEE754		°	Measured Value (calculated): Angle of Negative Sequence System  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude.
VT	VL1 THD	20408	2	4	Float IEE754		V	Measured value (calculated): VL1 Total Harmonic Distortion
VT	VL12 THD	20410	2	4	Float IEE754		V	Measured value (calculated): V12 Total Harmonic Distortion
VT	VL2 THD	20412	2	4	Float IEE754		V	Measured value (calculated): VL2 Total Harmonic Distortion
VT	VL23 THD	20414	2	4	Float IEE754		V	Measured value (calculated): V23 Total Harmonic Distortion

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT	VL3 THD	20416	2	4	Float IEE754		V	Measured value (calculated): VL3 Total Harmonic Distortion
VT	VL31 THD	20418	2	4	Float IEE754		V	Measured value (calculated): V31 Total Harmonic Distortion
VT	%VL1 THD	20420	2	4	Float IEE754		%	Measured value (calculated): VL1 Total Harmonic Distortion / Ground wave
VT	%VL12 THD	20422	2	4	Float IEE754		%	Measured value (calculated): V12 Total Harmonic Distortion / Ground wave
VT	%VL2 THD	20424	2	4	Float IEE754		%	Measured value (calculated): VL2 Total Harmonic Distortion / Ground wave
VT	%VL23 THD	20426	2	4	Float IEE754		%	Measured value (calculated): V23 Total Harmonic Distortion / Ground wave
VT	%VL3 THD	20428	2	4	Float IEE754		%	Measured value (calculated): VL3 Total Harmonic Distortion / Ground wave
VT	%VL31 THD	20430	2	4	Float IEE754		%	Measured value (calculated): V31 Total Harmonic Distortion / Ground wave
VT	VG calc RMS	20432	2	4	Float IEE754		V	Measured value (calculated): VG (RMS)
VT	VX meas RMS	20434	2	4	Float IEE754		V	Measured value (measured): VX measured (RMS)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT	VL1 RMS	20436	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (RMS)
VT	VL12 RMS	20438	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (RMS)
VT	VL2 RMS	20440	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (RMS)
VT	VL23 RMS	20442	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (RMS)
VT	VL3 RMS	20444	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (RMS)
VT	VL31 RMS	20446	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (RMS)
VT	%(V2/V1)	20450	2	4	Float IEE754		%	Measured value (calculated): V2/V1, phase sequence will be taken into account automatically.
VT	V/f	20646	2	4	Float IEE754		%	Ratio Volts/Hertz in relation to nominal values.
VT	f max	21002	2	4	Float IEE754		Hz	Max. frequency value
VT	f min	21004	2	4	Float IEE754		Hz	Min. frequency value
VT	V1 max	21044	2	4	Float IEE754		V	Maximum value: Symmetrical components positive phase sequence voltage(fundamental)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT	V1 min	21046	2	4	Float IEE754		V	Minimum value: Symmetrical components positive phase sequence voltage(fundamental)
VT	V2 max	21050	2	4	Float IEE754		V	Maximum value: Symmetrical components negative phase sequence voltage(fundamental)
VT	V2 min	21052	2	4	Float IEE754		V	Minimum value: Symmetrical components negative phase sequence voltage(fundamental)
VT	delta phi	21126	2	4	Float IEE754		°	Measured value (calculated): Vector surge
VT	df/dt	21128	2	4	Float IEE754		Hz/s	Measured value (calculated): Rate-of-frequency-change.
VT	VG calc max RMS	21498	2	4	Float IEE754		V	Measured value (calculated):VX maximum value (RMS)
VT	VG calc min RMS	21500	2	4	Float IEE754		V	Measured value (calculated):VX minimum value (RMS)
VT	VX meas max RMS	21504	2	4	Float IEE754		V	Measured value: VX maximum value (RMS)
VT	VX meas min RMS	21506	2	4	Float IEE754		V	Measured value: VX minimum value (RMS)
VT	VL12 avg RMS	21508	2	4	Float IEE754		V	VL12 average value (RMS)
VT	VL12 max RMS	21510	2	4	Float IEE754		V	VL12 maximum value (RMS)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT	VL12 min RMS	21512	2	4	Float IEE754		V	VL12 minimum value (RMS)
VT	VL1 avg RMS	21514	2	4	Float IEE754		V	VL1 average value (RMS)
VT	VL1 max RMS	21516	2	4	Float IEE754		V	VL1 maximum value (RMS)
VT	VL1 min RMS	21518	2	4	Float IEE754		V	VL1 minimum value (RMS)
VT	VL23 avg RMS	21520	2	4	Float IEE754		V	VL23 average value (RMS)
VT	VL23 max RMS	21522	2	4	Float IEE754		V	VL23 maximum value (RMS)
VT	VL23 min RMS	21524	2	4	Float IEE754		V	VL23 minimum value (RMS)
VT	VL2 avg RMS	21526	2	4	Float IEE754		V	VL2 average value (RMS)
VT	VL2 max RMS	21528	2	4	Float IEE754		V	VL2 maximum value (RMS)
VT	VL2 min RMS	21530	2	4	Float IEE754		V	VL2 minimum value (RMS)
VT	VL31 avg RMS	21532	2	4	Float IEE754		V	VL31 average value (RMS)

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT	VL31 max RMS	21534	2	4	Float IEE754		V	VL31 maximum value (RMS)
VT	VL31 min RMS	21536	2	4	Float IEE754		V	VL31 minimum value (RMS)
VT	VL3 avg RMS	21538	2	4	Float IEE754		V	VL3 average value (RMS)
VT	VL3 max RMS	21540	2	4	Float IEE754		V	VL3 maximum value (RMS)
VT	VL3 min RMS	21542	2	4	Float IEE754		V	VL3 minimum value (RMS)
VT	%(V2/V1) max	21552	2	4	Float IEE754		%	Measured value (calculated):V2/V1 maximum value, phase sequence will be taken into account automatically
VT	%(V2/V1) min	21554	2	4	Float IEE754		%	Measured value (calculated):V2/V1 minimum value , phase sequence will be taken into account automatically
VT	V/f max	21894	2	4	Float IEE754		%	Maximum value: Ratio Volts/Hertz in relation to nominal values.
VT	V/f min	21896	2	4	Float IEE754		%	Minimum value: Ratio Volts/Hertz in relation to nominal values.
VT - fault value	f	50128	2	4	Float IEE754		Hz	Measured value: Frequency , as stored in the Fault Recorder
VT - fault value	VL12	50130	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (fundamental) , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT - fault value	VL23	50132	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (fundamental) , as stored in the Fault Recorder
VT - fault value	VL31	50134	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (fundamental) , as stored in the Fault Recorder
VT - fault value	VL1	50136	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (fundamental) , as stored in the Fault Recorder
VT - fault value	VL2	50138	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (fundamental) , as stored in the Fault Recorder
VT - fault value	VL3	50140	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (fundamental) , as stored in the Fault Recorder
VT - fault value	VX meas	50142	2	4	Float IEE754		V	Measured value (measured): VX measured (fundamental) , as stored in the Fault Recorder
VT - fault value	V0	50146	2	4	Float IEE754		V	Measured value (calculated): Symmetrical components Zero voltage(fundamental) , as stored in the Fault Recorder
VT - fault value	V1	50148	2	4	Float IEE754		V	Measured value (calculated): Symmetrical components positive phase sequence voltage(fundamental) , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT - fault value	V2	50150	2	4	Float IEE754		V	Measured value (calculated): Symmetrical components negative phase sequence voltage(fundamental) , as stored in the Fault Recorder
VT - fault value	VG calc	50162	2	4	Float IEE754		V	Measured value (calculated): VG (fundamental) , as stored in the Fault Recorder
VT - fault value	phi VG calc	50386	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VG calc  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
VT - fault value	phi VX meas	50388	2	4	Float IEE754		°	Measured value: Angle of Phasor VX meas  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
VT - fault value	phi VL12	50390	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL12  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder

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<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT - fault value	phi VL1	50392	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL1  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
VT - fault value	phi VL23	50394	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL23  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
VT - fault value	phi VL2	50396	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL2  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
VT - fault value	phi VL31	50398	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL31  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT - fault value	phi VL3	50400	2	4	Float IEE754		°	Measured value (calculated): Angle of Phasor VL3  Reference phasor is required to calculate the angle. This is the first measured voltage (or current) channel with sufficiently high amplitude. , as stored in the Fault Recorder
VT - fault value	VG calc RMS	50432	2	4	Float IEE754		V	Measured value (calculated): VG (RMS) , as stored in the Fault Recorder
VT - fault value	VX meas RMS	50434	2	4	Float IEE754		V	Measured value (measured): VX measured (RMS) , as stored in the Fault Recorder
VT - fault value	VL1 RMS	50436	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (RMS) , as stored in the Fault Recorder
VT - fault value	VL12 RMS	50438	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (RMS) , as stored in the Fault Recorder
VT - fault value	VL2 RMS	50440	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (RMS) , as stored in the Fault Recorder
VT - fault value	VL23 RMS	50442	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (RMS) , as stored in the Fault Recorder
VT - fault value	VL3 RMS	50444	2	4	Float IEE754		V	Measured value: Phase-to-neutral voltage (RMS) , as stored in the Fault Recorder

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
VT - fault value	VL31 RMS	50446	2	4	Float IEE754		V	Measured value: Phase-to-phase voltage (RMS) , as stored in the Fault Recorder
VT - fault value	delta phi	51126	2	4	Float IEE754		°	Measured value (calculated): Vector surge , as stored in the Fault Recorder
VT - fault value	df/dt	51128	2	4	Float IEE754		Hz/s	Measured value (calculated): Rate-of-frequency-change. , as stored in the Fault Recorder
Values	Build	20008	2	4	Float IEE754		-	Build Number
Values	Operating hours Cr	20010	2	4	Float IEE754		h	Operating hours counter of the protective device

## Commands

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Acknowledge	LEDs	22000	1	5	0xFF00		-	LEDs
Acknowledge	Binary Outputs	22001	1	5	0xFF00		-	Binary Outputs
Acknowledge	Scada	22002	1	5	0xFF00		-	Scada
Acknowledge	Device	22003	1	5	0xFF00		-	Device
Acknowledge	Ack TripCmd	22005	1	5	0xFF00		-	Signal: Acknowledge Trip Command
Reset	Modbus diagnosis counter	22006	1	5	0xFF00		-	Modbus diagnosis counter
Reset	Res all Energy Cr	22011	1	5	0xFF00		-	Reset of all Energy Counters
Scada Cmd	Assbl Scada Cmd 1	22020	1	5	0xFF00= On 0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 2	22021	1	5	0xFF00= On 0x0000=O ff		-	Assignable Scada Command

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Scada Cmd	Assbl Scada Cmd 3	22022	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 4	22023	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 5	22024	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 6	22025	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 7	22026	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 8	22027	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Scada Cmd	Assbl Scada Cmd 9	22028	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 10	22029	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 11	22030	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 12	22031	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 13	22032	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 14	22033	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Scada Cmd	Assbl Scada Cmd 15	22034	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Scada Cmd	Assbl Scada Cmd 16	22035	1	5	0xFF00= On  0x0000=O ff		-	Assignable Scada Command
Fault rec	Res all rec	22040	1	5	0xFF00		-	Reset all records
PSet-Switch	Scada PS1	22050	1	5	0xFF00		-	Scada Setting Group1
PSet-Switch	Scada PS2	22051	1	5	0xFF00		-	Scada Setting Group2
PSet-Switch	Scada PS3	22052	1	5	0xFF00		-	Scada Setting Group3
PSet-Switch	Scada PS4	22053	1	5	0xFF00		-	Scada Setting Group4
AFRMS Mode	AFRMS SCADA	22054	1	5	0xFF00= On  0x0000=O ff		-	Signal: Arcflash Reduction Maintenance SCADA Mode

Appendix - Data Point Lists

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
SG	SG ControlCmd1	22100	1	5	0xFF00= On  0x0000=O ff		-	Control Command Switchgear
SG	SG ControlCmd2	22101	1	5	0xFF00= On  0x0000=O ff		-	Control Command Switchgear
SG	SG ControlCmd3	22102	1	5	0xFF00= On  0x0000=O ff		-	Control Command Switchgear
SG	SG ControlCmd4	22103	1	5	0xFF00= On  0x0000=O ff		-	Control Command Switchgear
SG	SG ControlCmd5	22104	1	5	0xFF00= On  0x0000=O ff		-	Control Command Switchgear
SG	SG ControlCmd6	22105	1	5	0xFF00= On  0x0000=O ff		-	Control Command Switchgear

## Settings

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
Date and Time		32500	6	3 16	Struct			
	y	32500	6	3 16	Short	Word 0 (1)	-	year
	m	32500	6	3 16	Short	Word 1 (17)	-	month
	d	32500	6	3 16	Short	Word 2 (33)	-	days
	h	32500	6	3 16	Short	Word 3 (49)	-	hours
	min	32500	6	3 16	Short	Word 4 (65)	-	minute
	ms	32500	6	3 16	Short	Word 5 (81)	-	milliseconds
Fault rec		50000	9	3 16	Struct			
	RecordNo	50000	9	3 16	Short	Word 0 (1)	-	Record Number

<b>Module ( - ANSI / IEEE Device Number )</b>	<b>Subgroup Names Functions</b>	<b>Start Register Address</b>	<b>No. of Modbus Registers</b>	<b>Function Code</b>	<b>Format</b>	<b>Bit Mask / (Bit Position)</b>	<b>Unit</b>	<b>Description</b>
	Trip Cause	50000	9	3 16	Short	Word 1 (17)	-	Code for the trip cause. In case of several simultaneous trip causes the primary cause is selected. If there is another trip later then the new trip cause overwrites the previous one. The codes for the trip cause are documented in the SCADA documentation.
	Pickup Cause	50000	9	3 16	Short	Word 2 (33)	-	Code for last PickUp cause corresponds to fault record: See scada doc for correlation between pickup reason and code
	FaultNo	50000	9	3 16	Short	Word 3 (49)	-	Fault number
	No. of Grid Fault	50000	9	3 16	Short	Word 4 (65)	-	Number of grid fault: A grid fault, e.g. a short circuit, might cause several faults with trip and autoreclosing; in this case, the fault number counts each fault, but the grid fault number remains the same.
	Time stamp:	50000	9	3 16	long long	Word 5- Word 9 (81)	-	Timestamp in milliseconds since 1970

## Cause of trip

Cause of trip reason is provided on two different Modbus addresses:

- At address 5004 the “last primary trip cause” is available. This means, in case of several simultaneous trip causes the primary cause is selected. If there is another trip later then the new trip cause overwrites the previous one.  
The trip cause can be read as long as a trip reason is present. In addition, the content of this register can be latched. The trip cause is latched in the same way as other trip signals, that means if the corresponding latching setting in Modbus is active, the content of the register is fixed until it is acknowledged by command.
- At address 50000 and up the last trip and alarm reason is available with related record, fault, net number and time stamp.  
It is possible to read an arbitrary saved records by requesting corresponding record number. For requesting of a certain saved record user has to send the record number on corresponding register. Be aware that the content of these registers can only be read entirely and that the content changes every time a new fault occurs in the fault recorder.

Fault values can be read on addresses greater than 50000. Addresses of fault values corresponds to addresses of instantaneous values plus offset of 30000, for example Current instantaneous value IE1 is 20100, corresponding fault value address is 50100. This address area need not be read entirely, each address can be read separately. If not a specific fault is selected, last fault value is presented on these addresses.

The following table is showing the “trip cause code” and its relation to the “trip cause reason”.

<b>Cause of trip code</b>	<b>Description</b>	<b>Module</b>
1	NORM	
1001		AnaP[1]
1002		AnaP[2]
1003		AnaP[3]
1004		AnaP[4]
1005		AnaP[5]
1006		AnaP[6]
1007		AnaP[7]
1008		AnaP[8]
1201		IG[1]
1202		IG[2]
1203		IG[3]

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<i>Cause of trip code</i>	<i>Description</i>	<i>Module</i>
1204		IG[4]
1301		Ext Oil Temp
1302		Ext Sudd Press
1303		Ext Temp Superv[1]
1304		Ext Temp Superv[2]
1305		Ext Temp Superv[3]
1306		ExP[1]
1307		ExP[2]
1308		ExP[3]
1309		ExP[4]
1310		Intertripping
1401		f[1]
1402		f[2]
1403		f[3]
1404		f[4]
1405		f[5]
1406		f[6]
1407		df/dt
1408		delta phi
1601		ld
1701		ldG[1]
1702		ldG[2]
1801		ldGH[1]
1802		ldGH[2]
1901		ldH

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<i>Cause of trip code</i>	<i>Description</i>	<i>Module</i>
2501		LVRT[1]
2502		LVRT[2]
2901		I2>[1]
2902		I2>[2]
3001		V012[1]
3002		V012[2]
3003		V012[3]
3004		V012[4]
3005		V012[5]
3006		V012[6]
3101		V/f>[1]
3102		V/f>[2]
3201		I[1]
3202		I[2]
3203		I[3]
3204		I[4]
3205		I[5]
3206		I[6]
3401		PQS[1]
3402		PQS[2]
3403		PQS[3]
3404		PQS[4]
3405		PQS[5]
3406		PQS[6]
3407		P

## Appendix - Data Point Lists

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<i>Cause of trip code</i>	<i>Description</i>	<i>Module</i>
3408		Q
3501		PF[1]
3502		PF[2]
3601		Q->&V<
3801		ThR
4001		VG[1]
4002		VG[2]
4101		V[1]
4102		V[2]
4103		V[3]
4104		V[4]
4105		V[5]
4106		V[6]
4201		RTD

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