

WIRING DIAGRAMS

High **PROTEC** | PROTECTION TECHNOLOGY
MADE SIMPLE

MRI4 | Feeder Protection

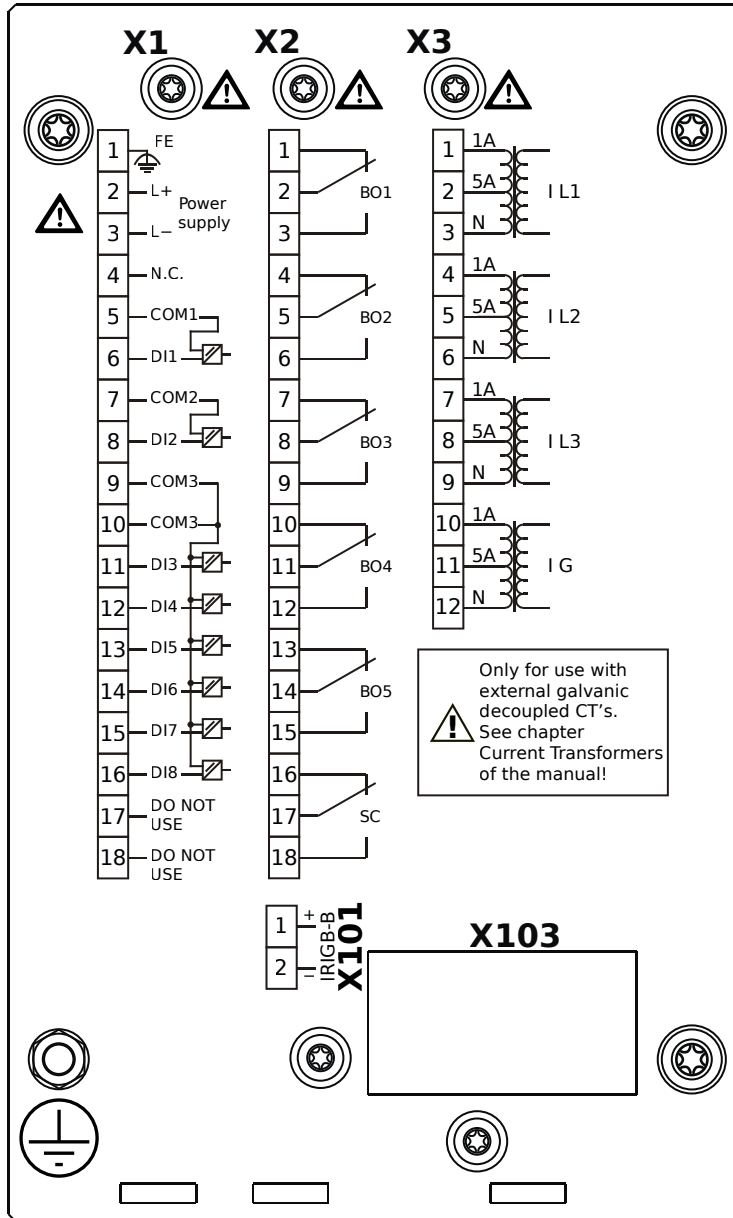
Version: 3.7

Original document

English

This document does not replace the Technical Manual.

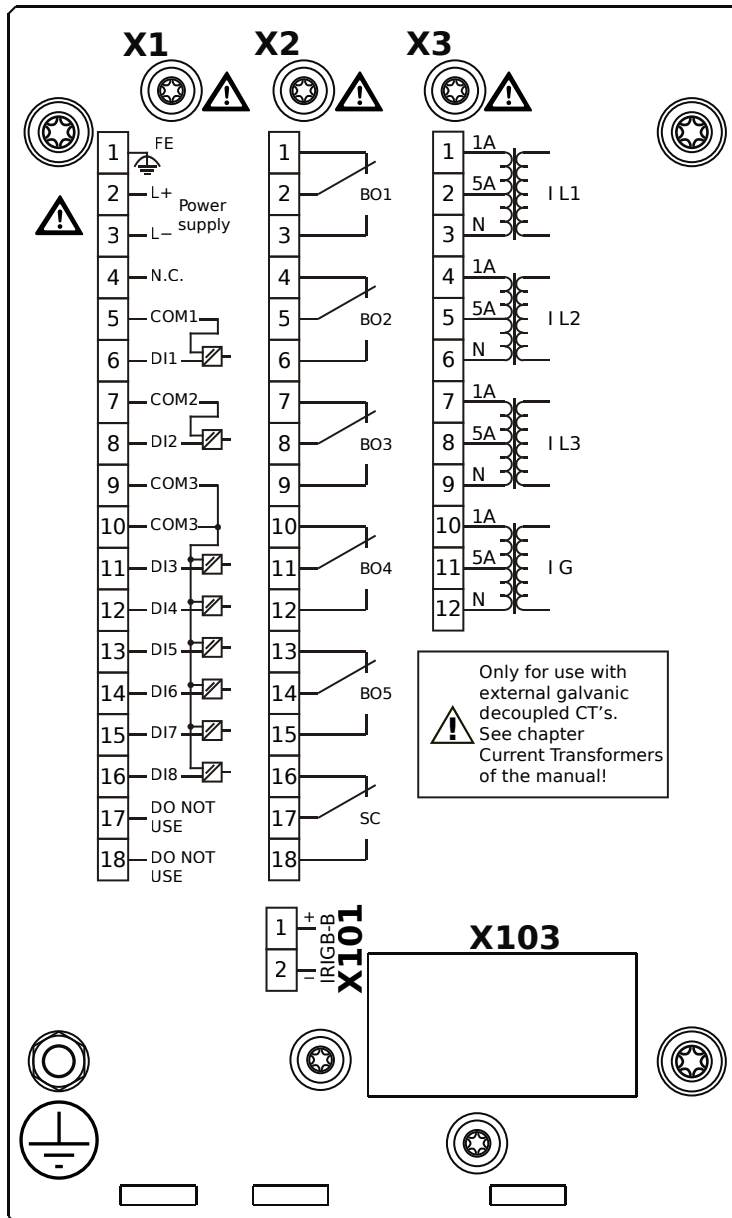
MRI4-2A0AAA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X

MRI4-2A0AAB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

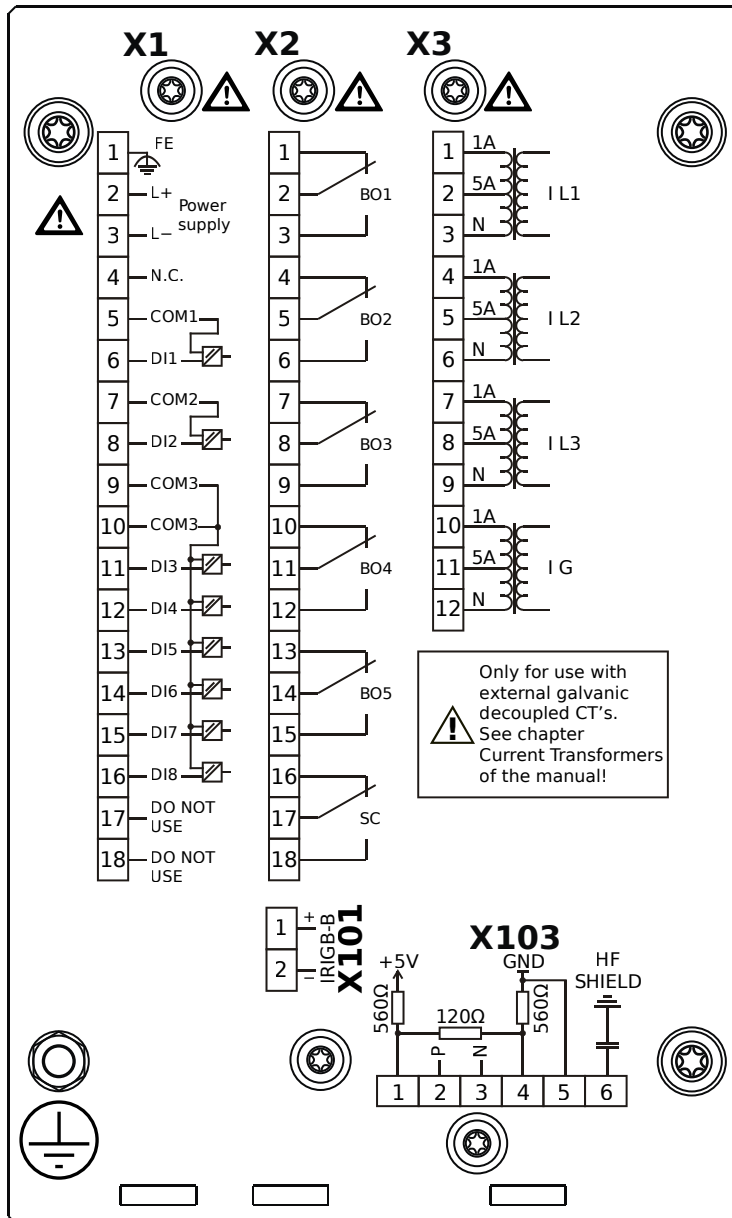
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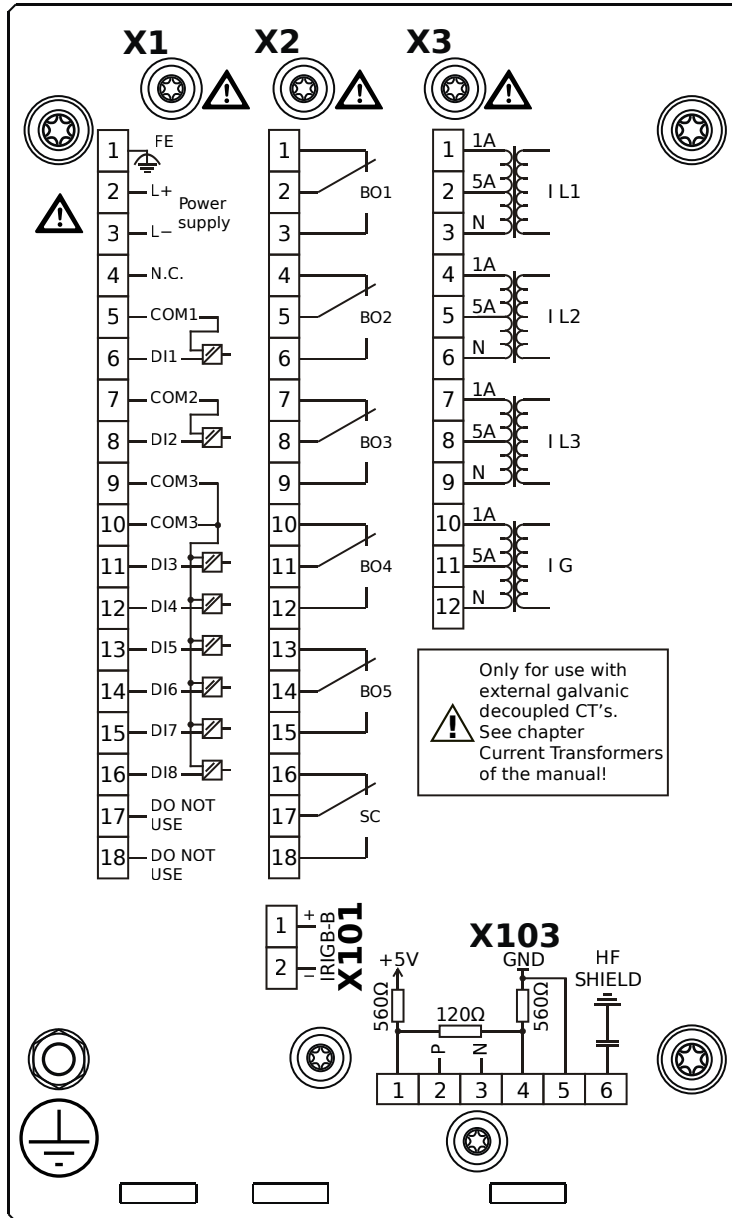
MRI4-2A0ABA



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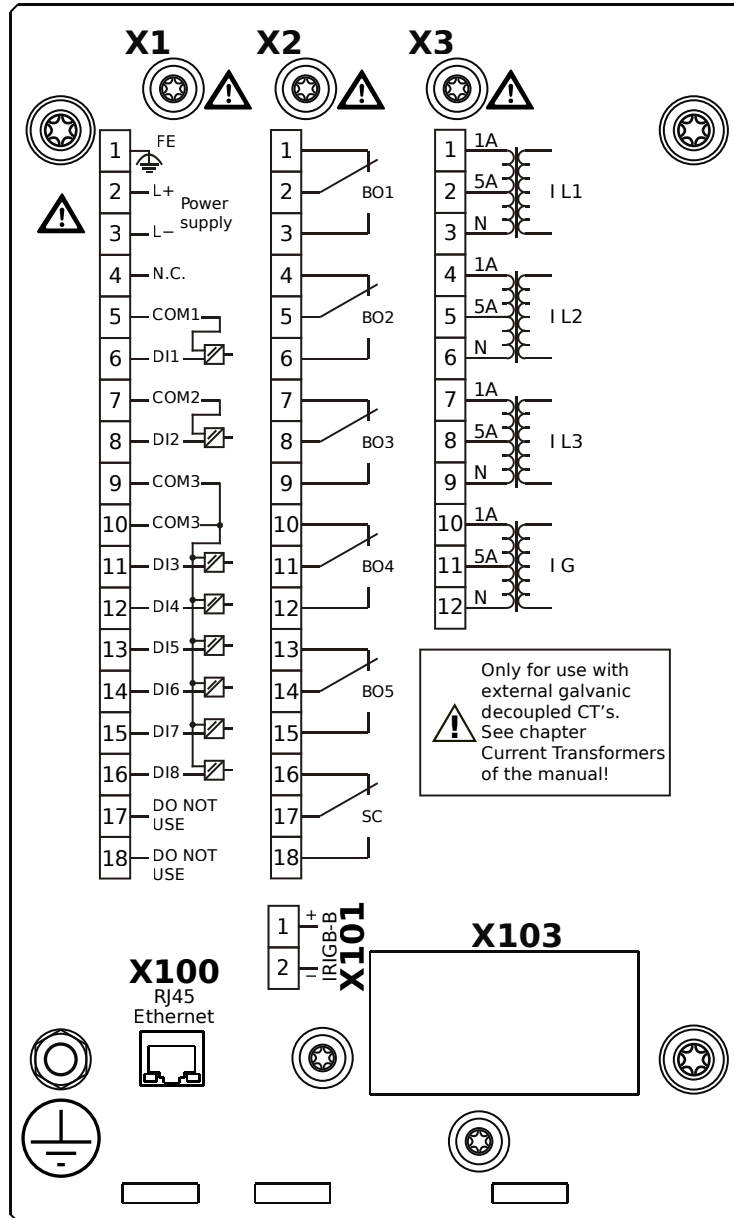
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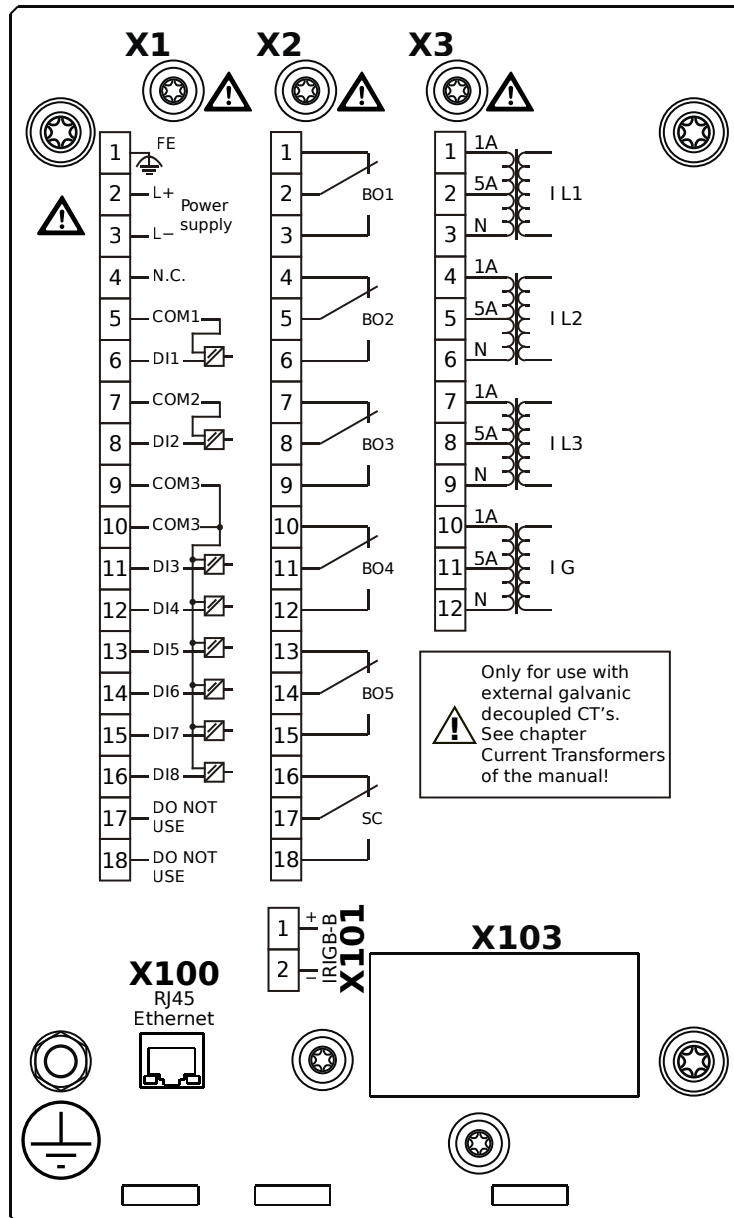
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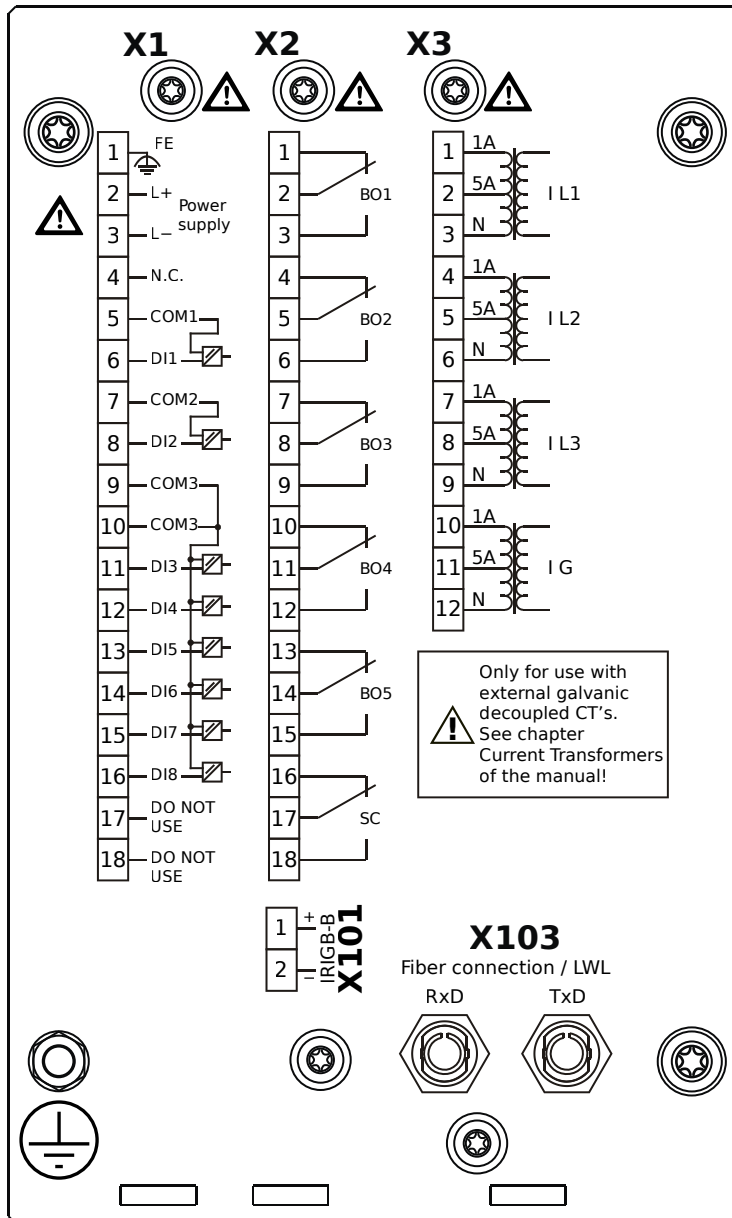
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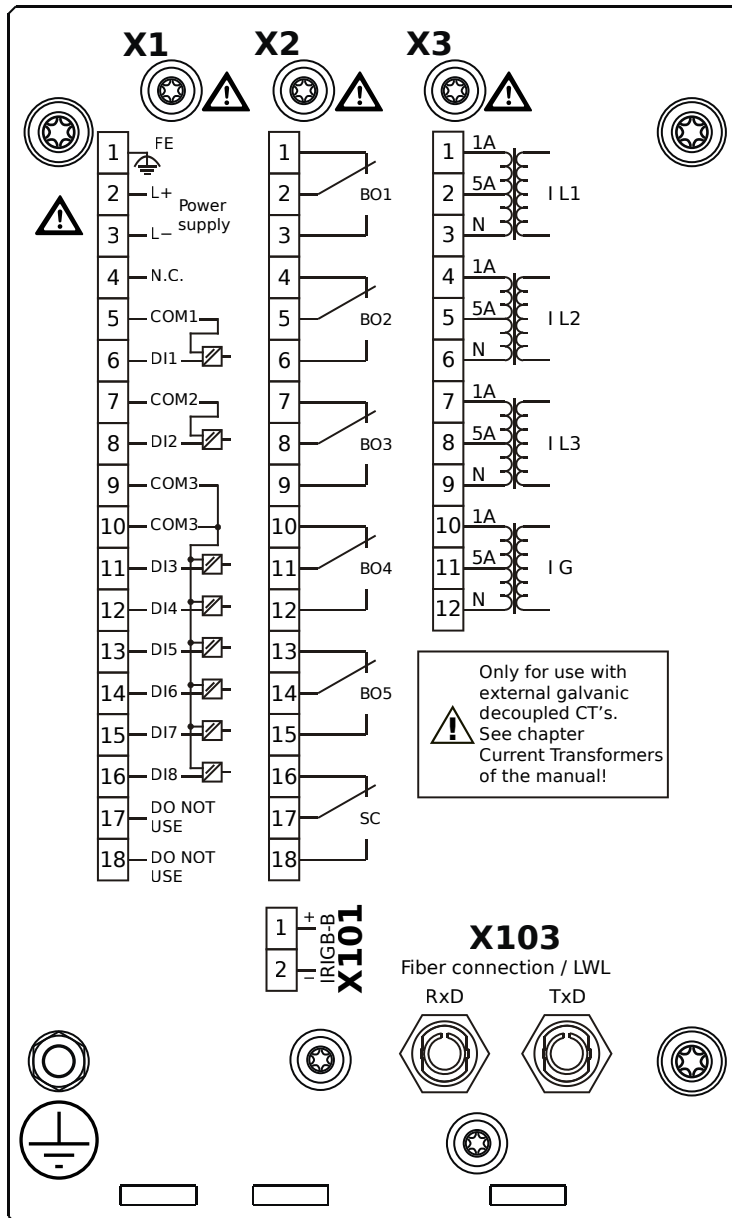
MRI4-2A0ADA



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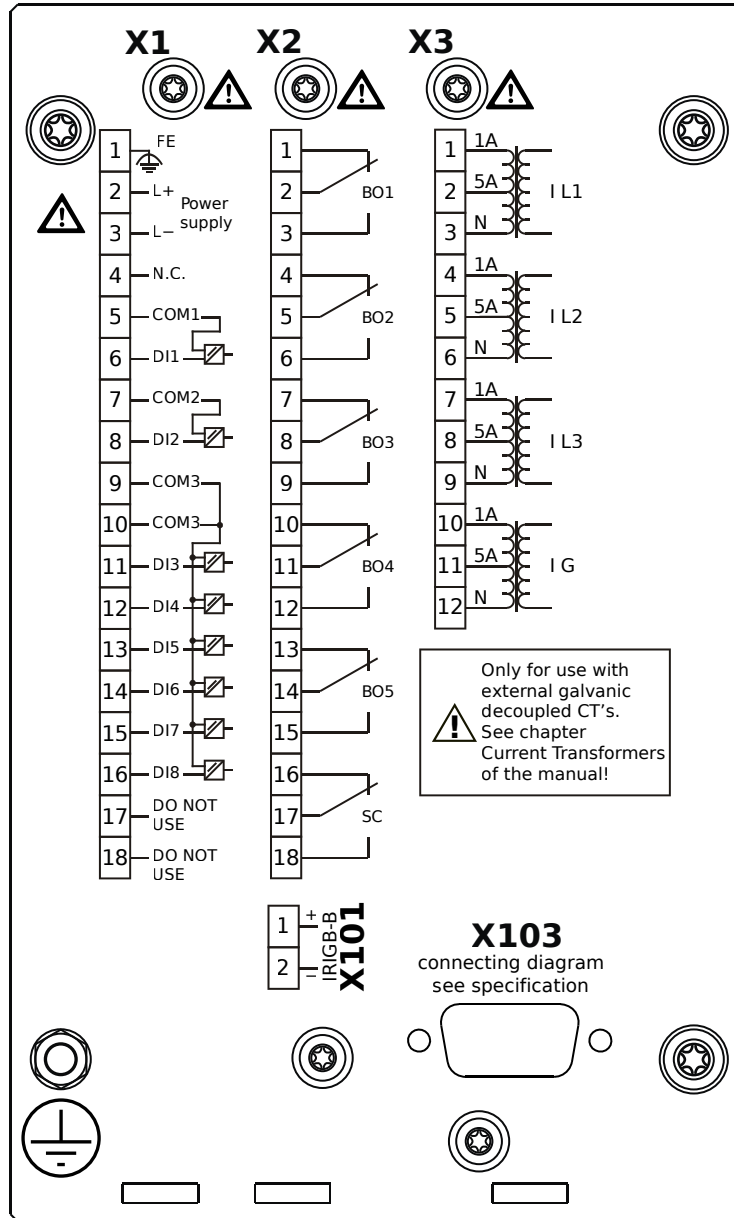
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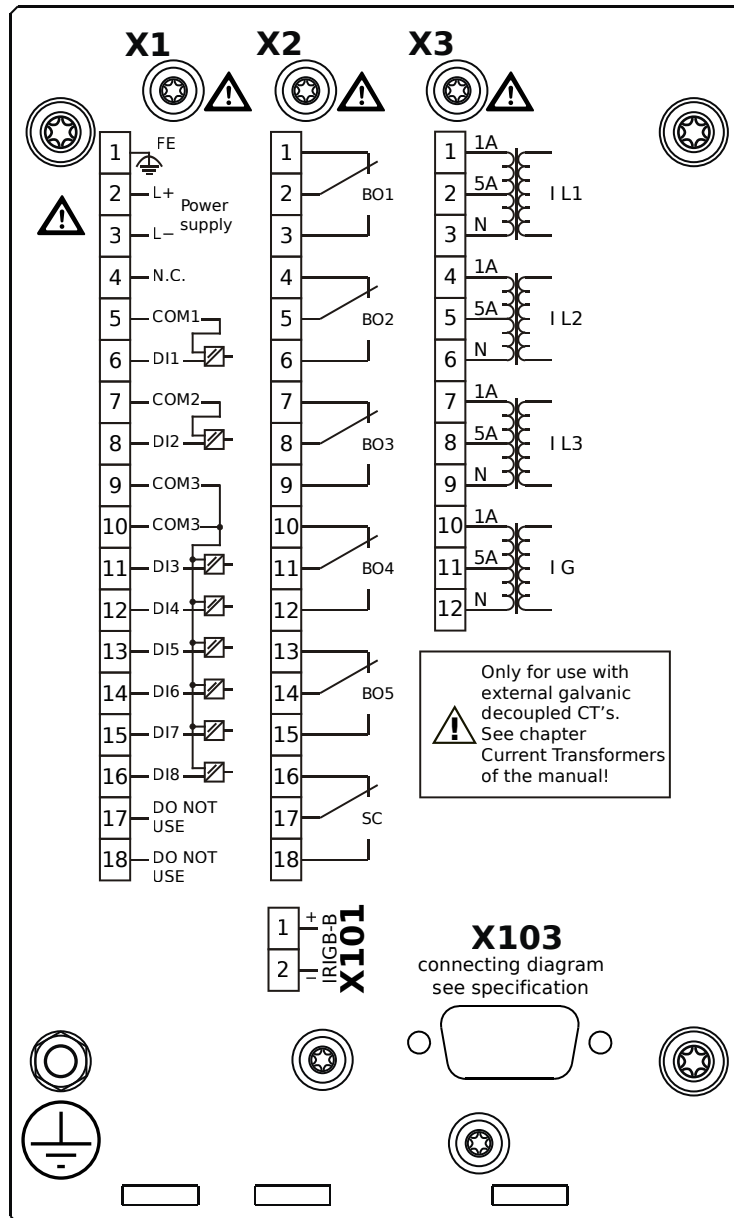
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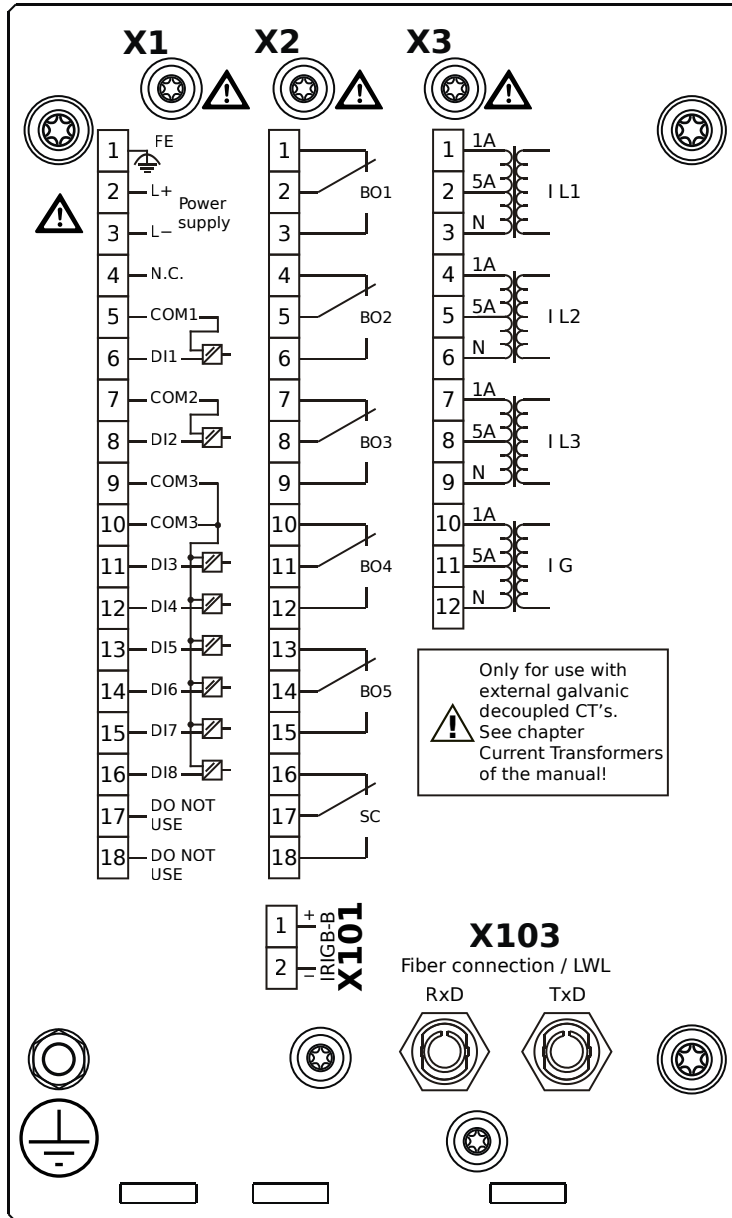
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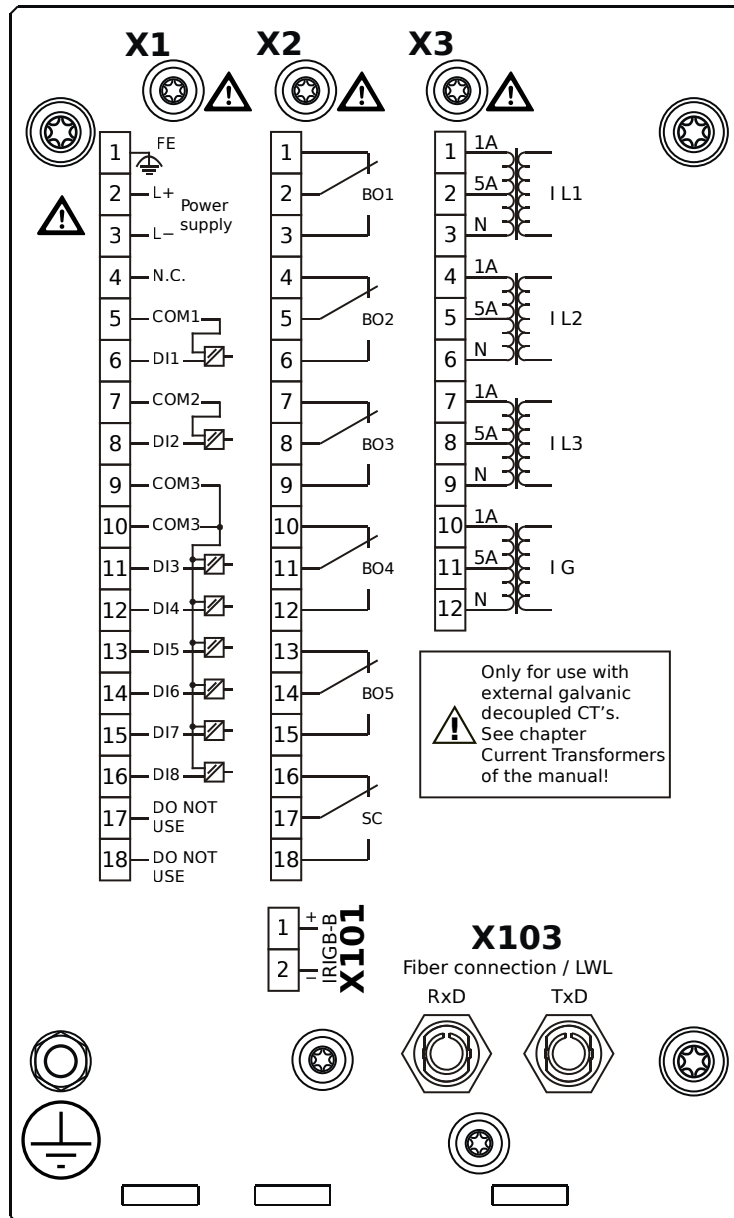
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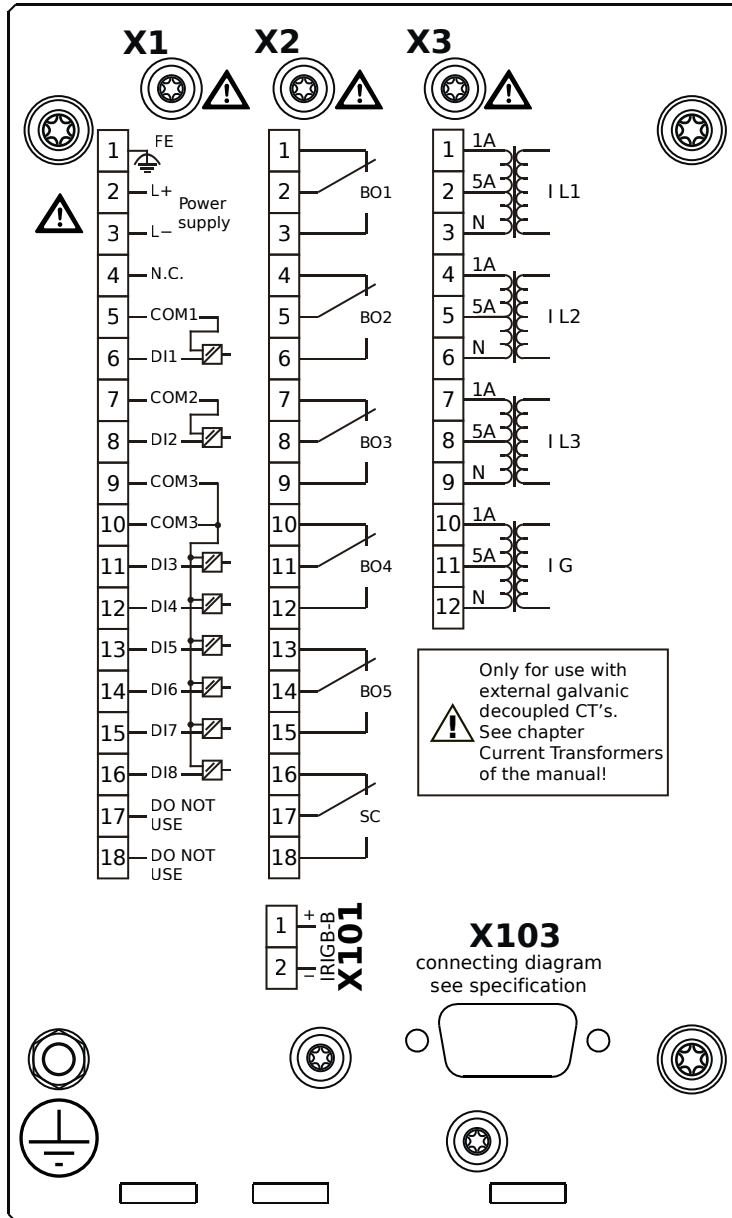
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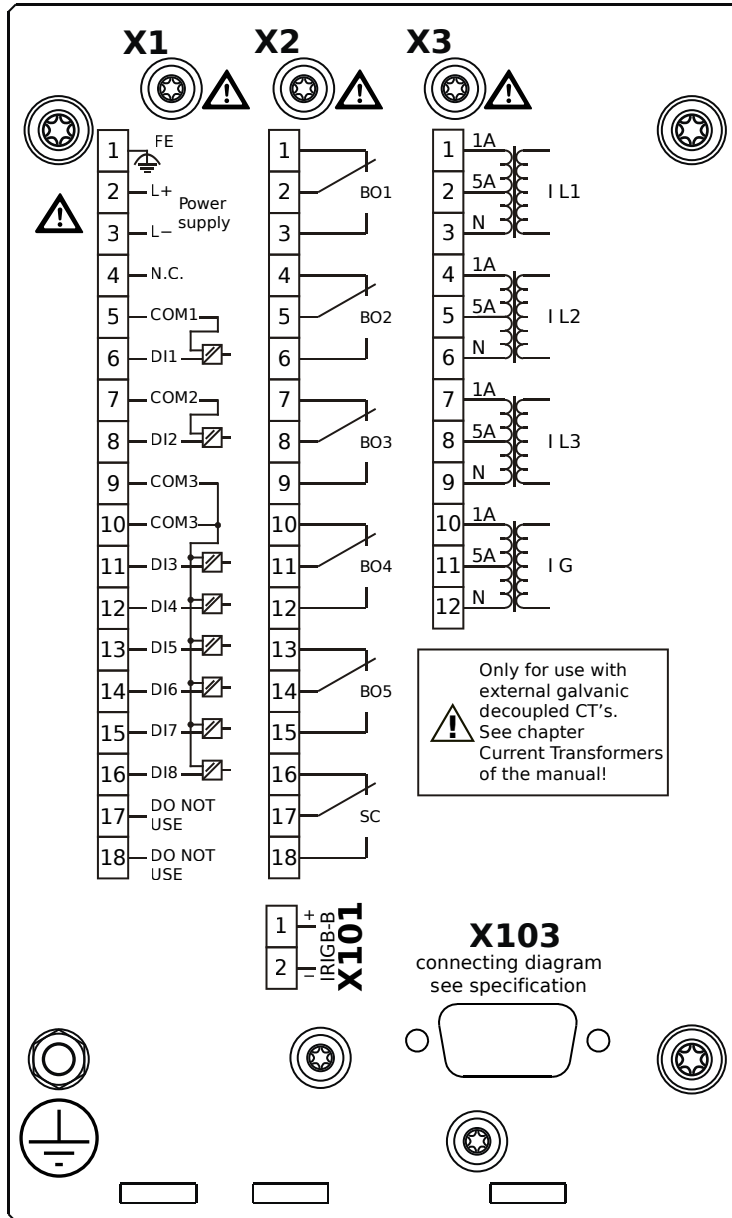
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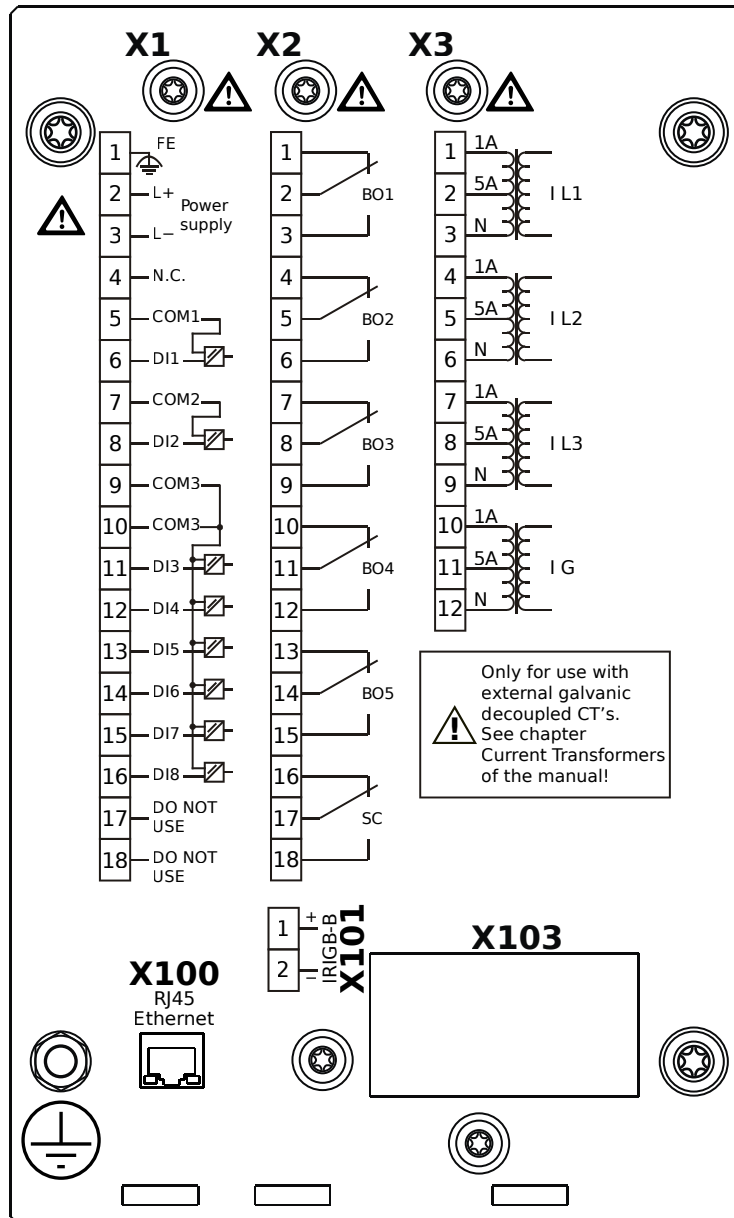
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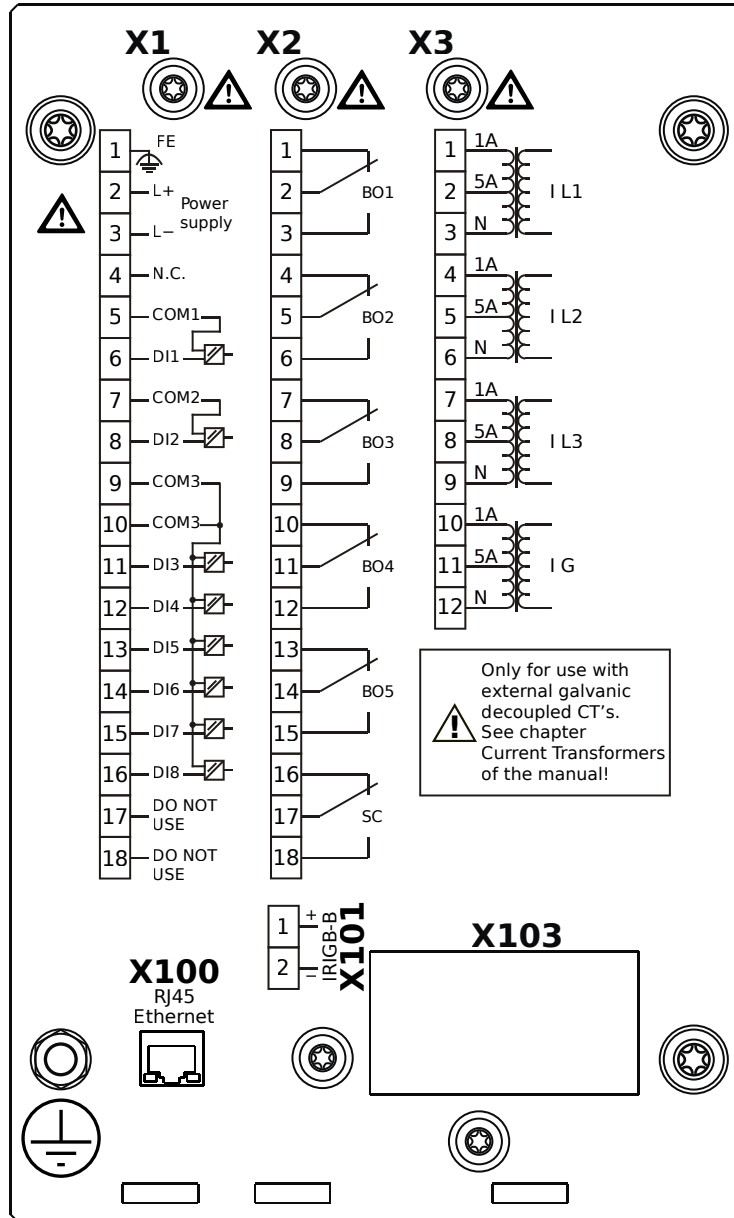
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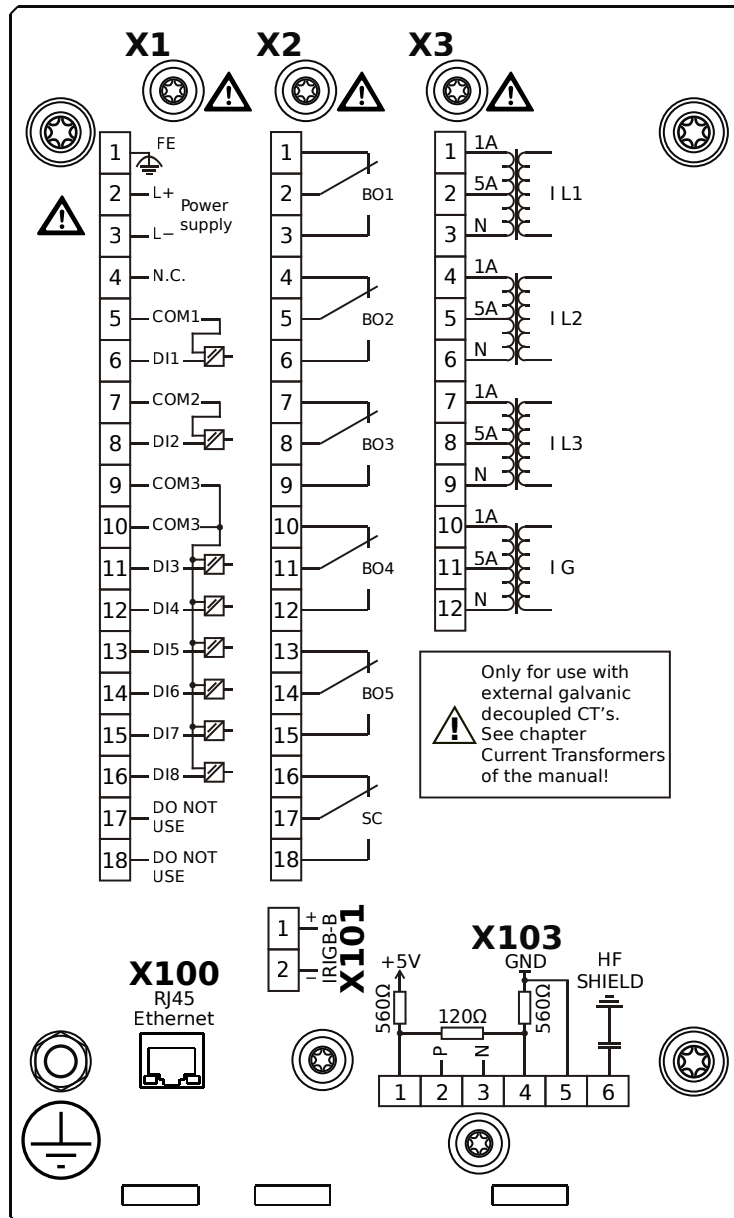
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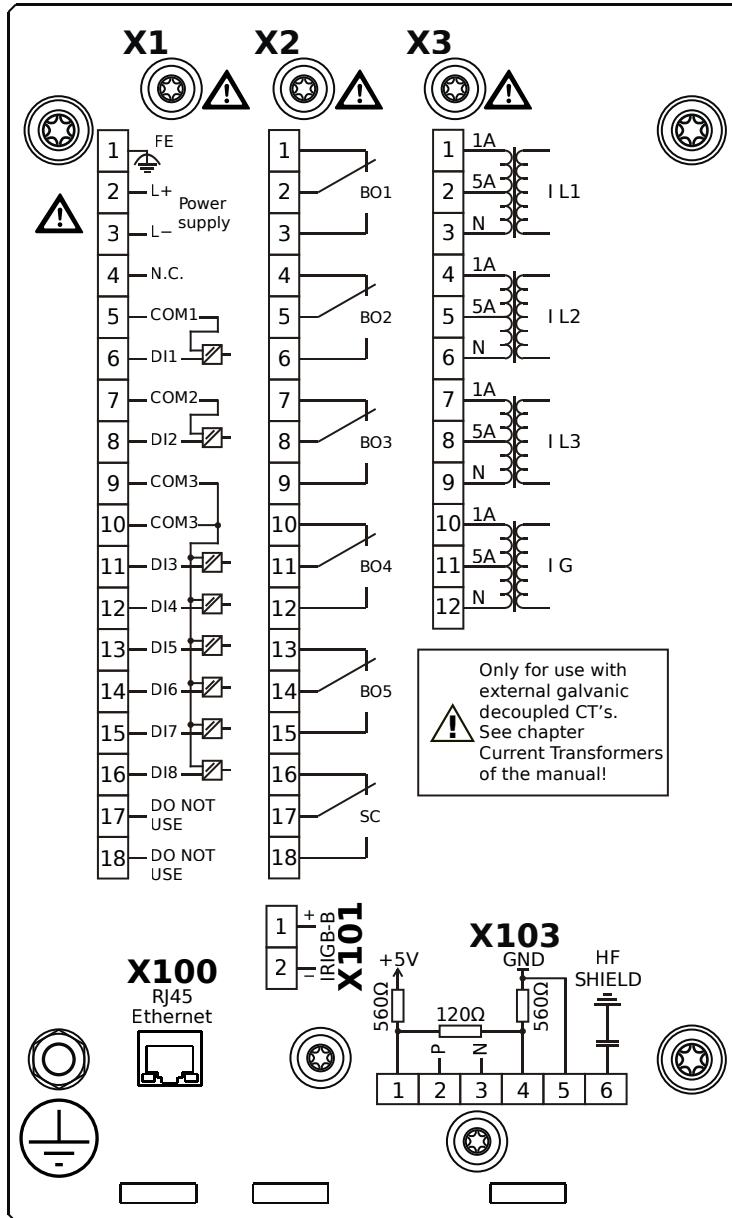
MRI4-2A0AIA



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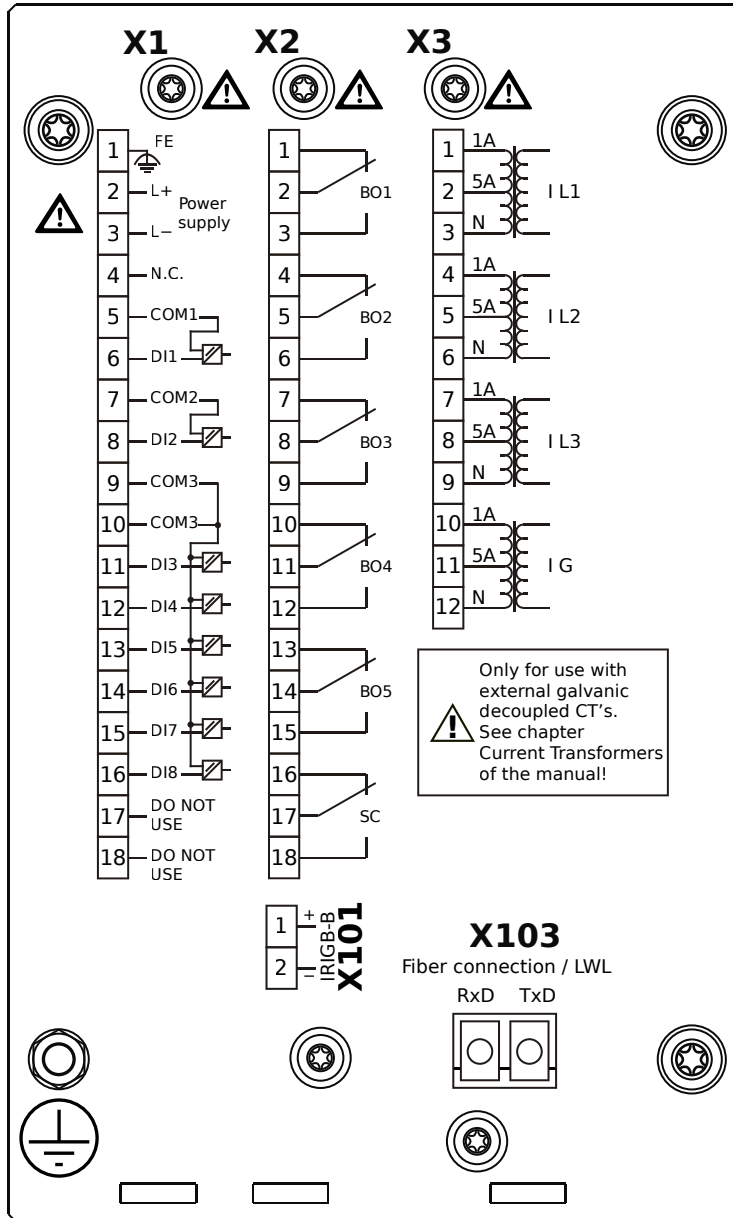
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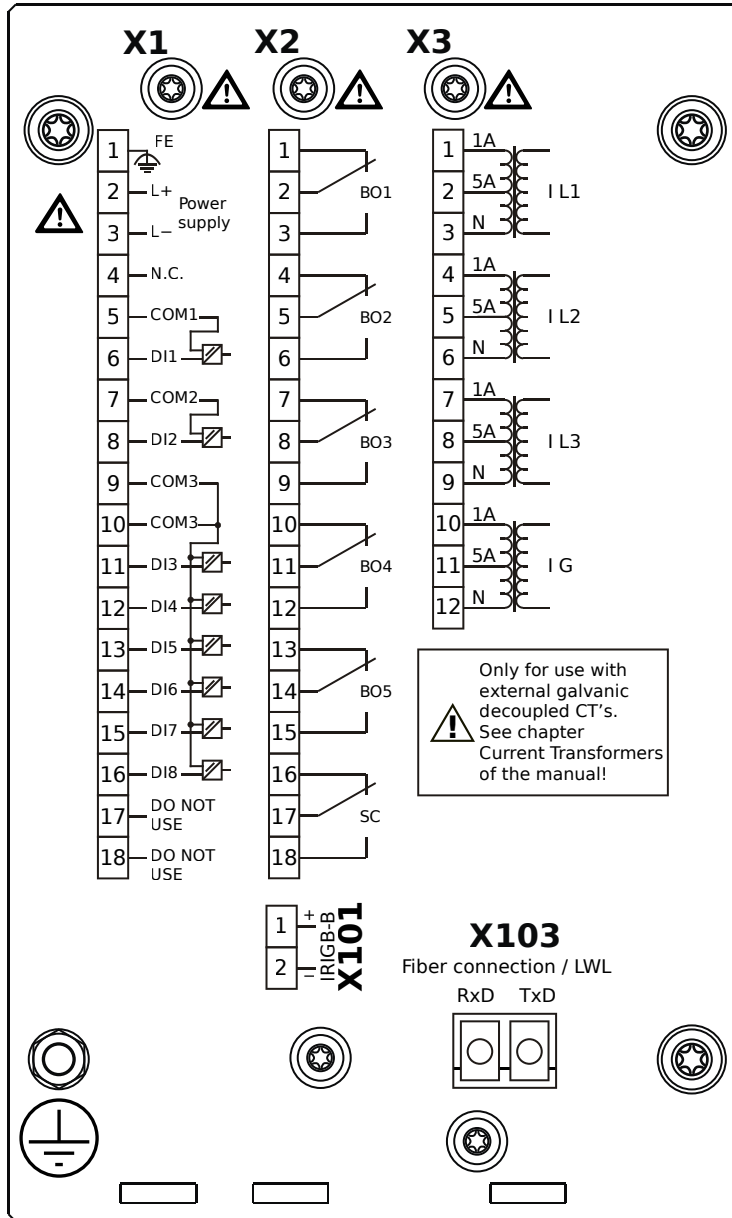
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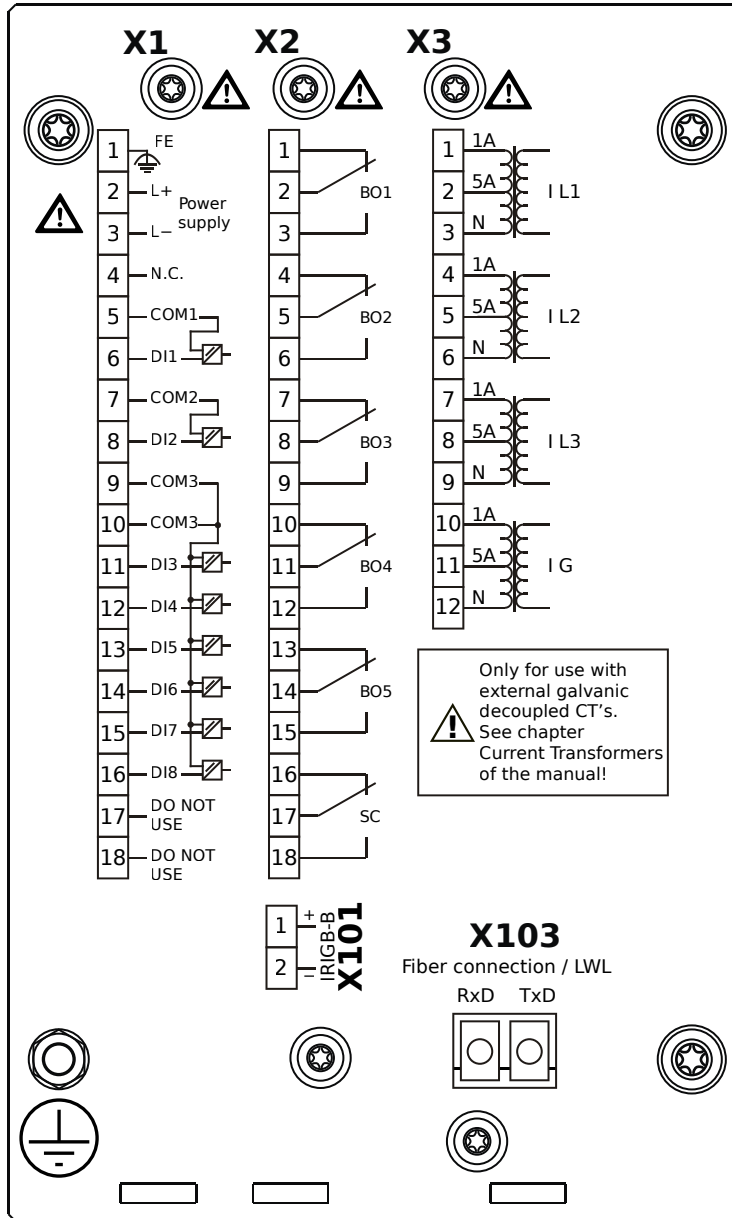
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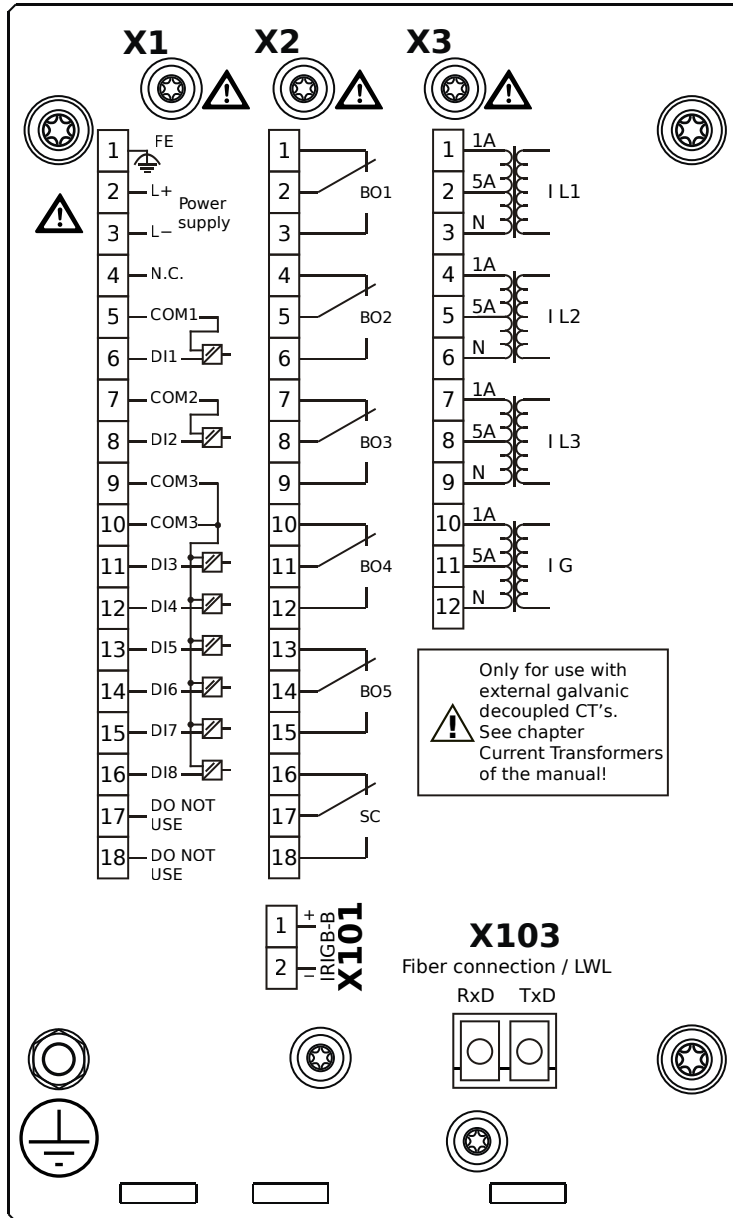
MRI4-2A0ALA



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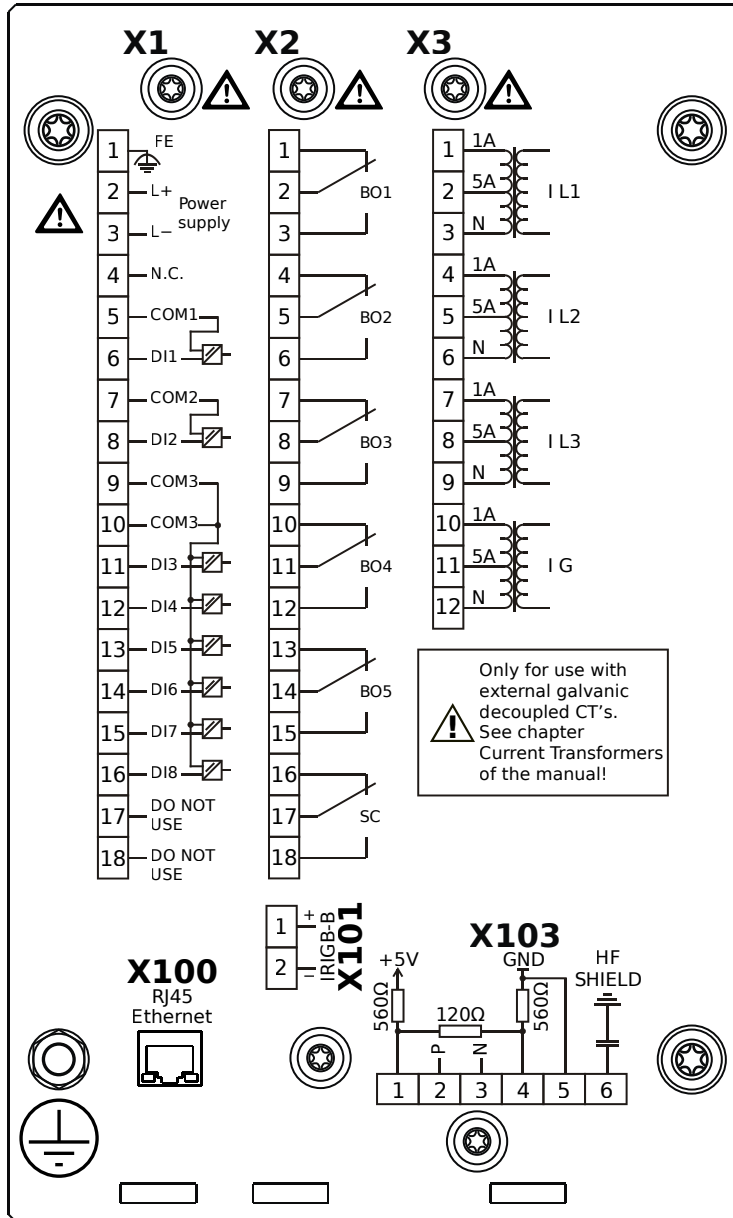
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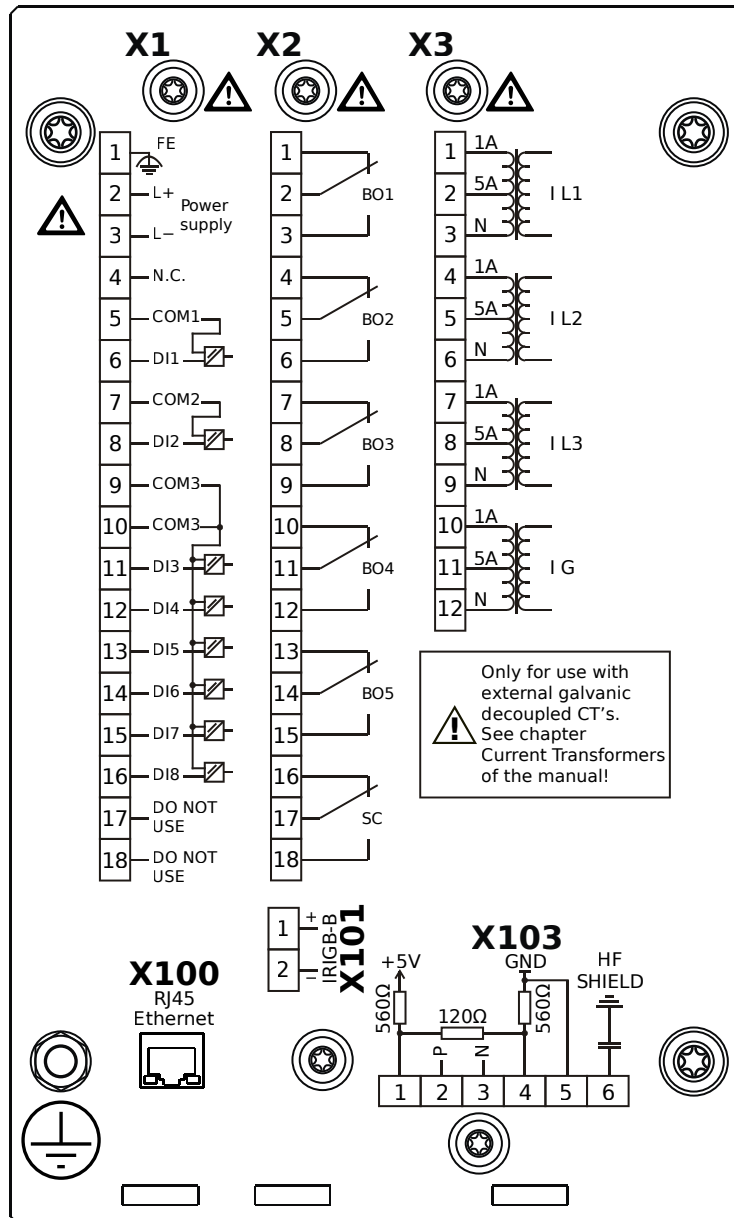
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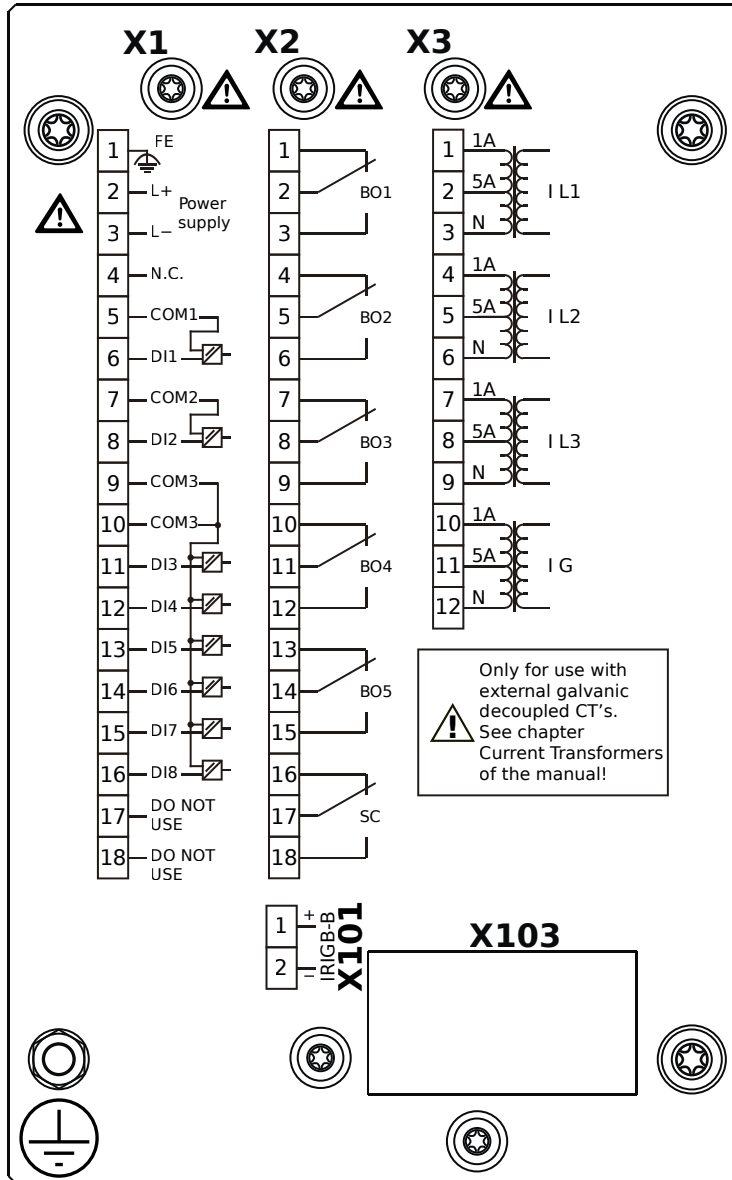
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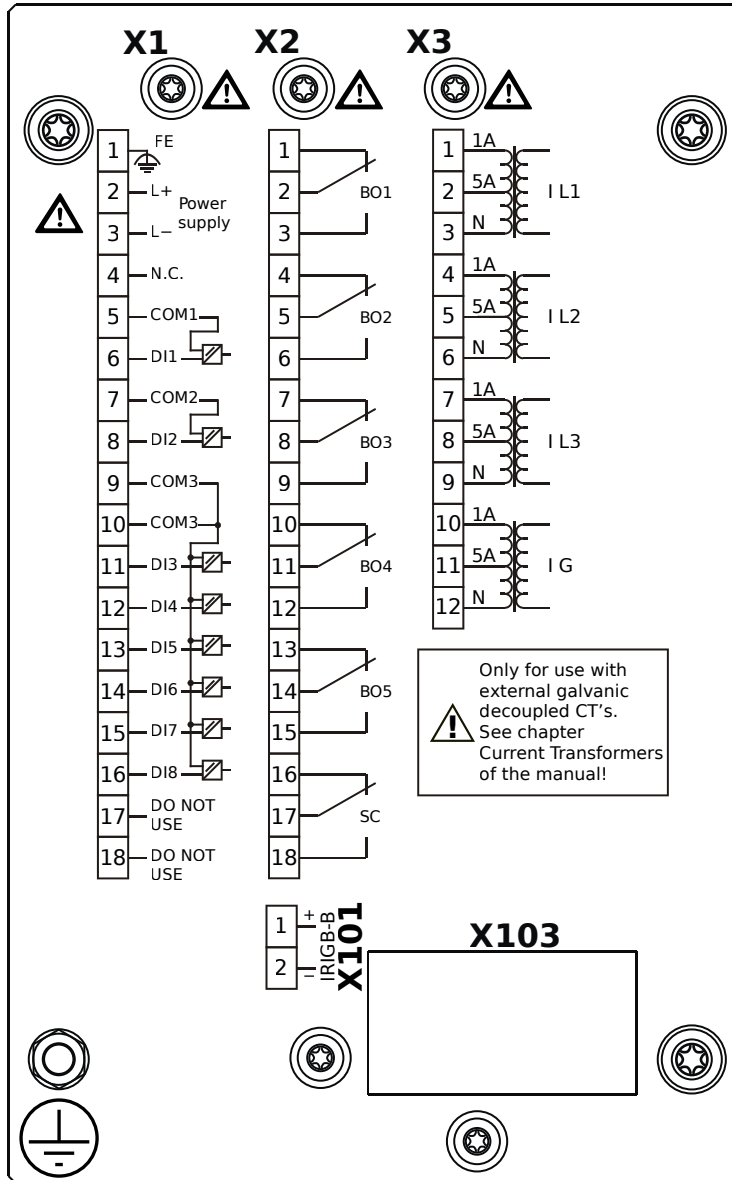
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Housing B1, small display, 19" rack mounting

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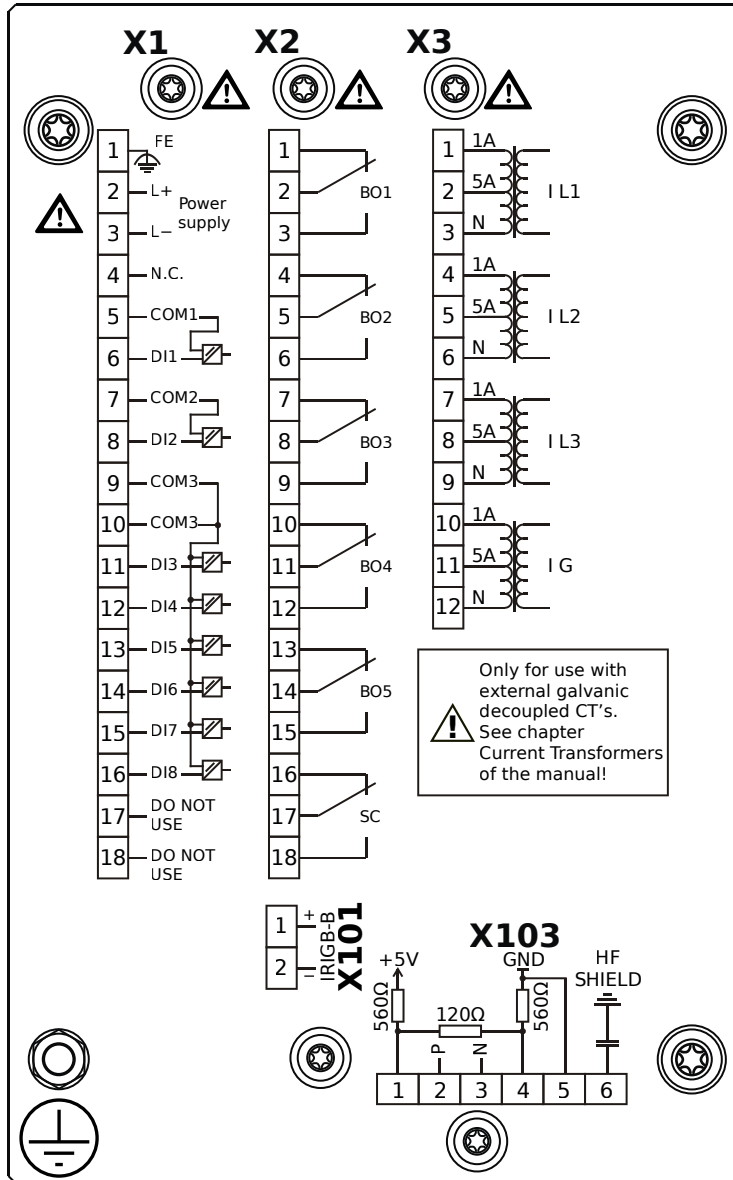
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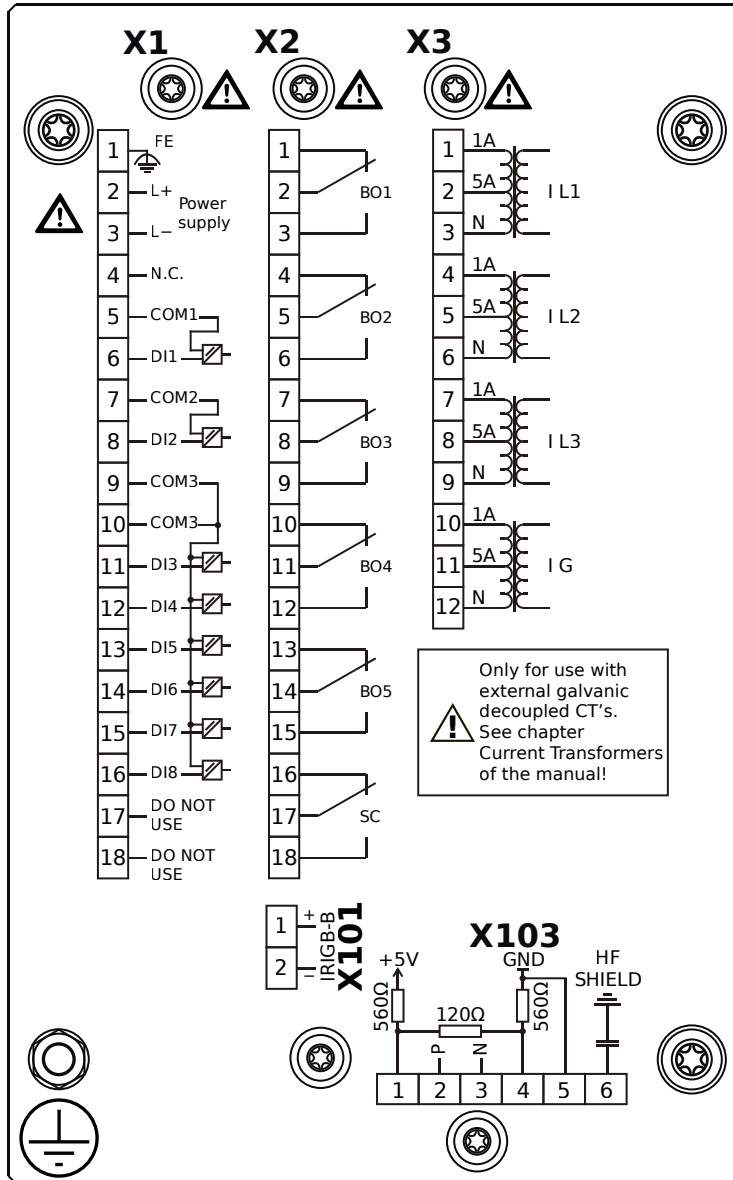
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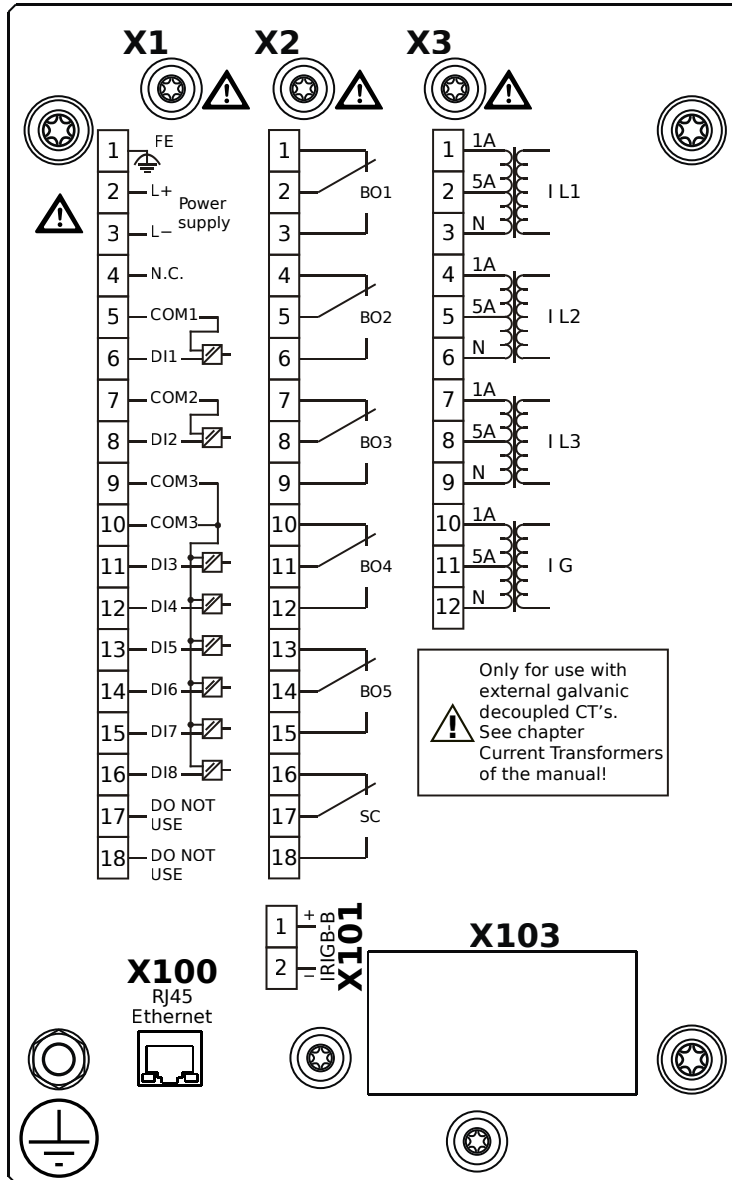
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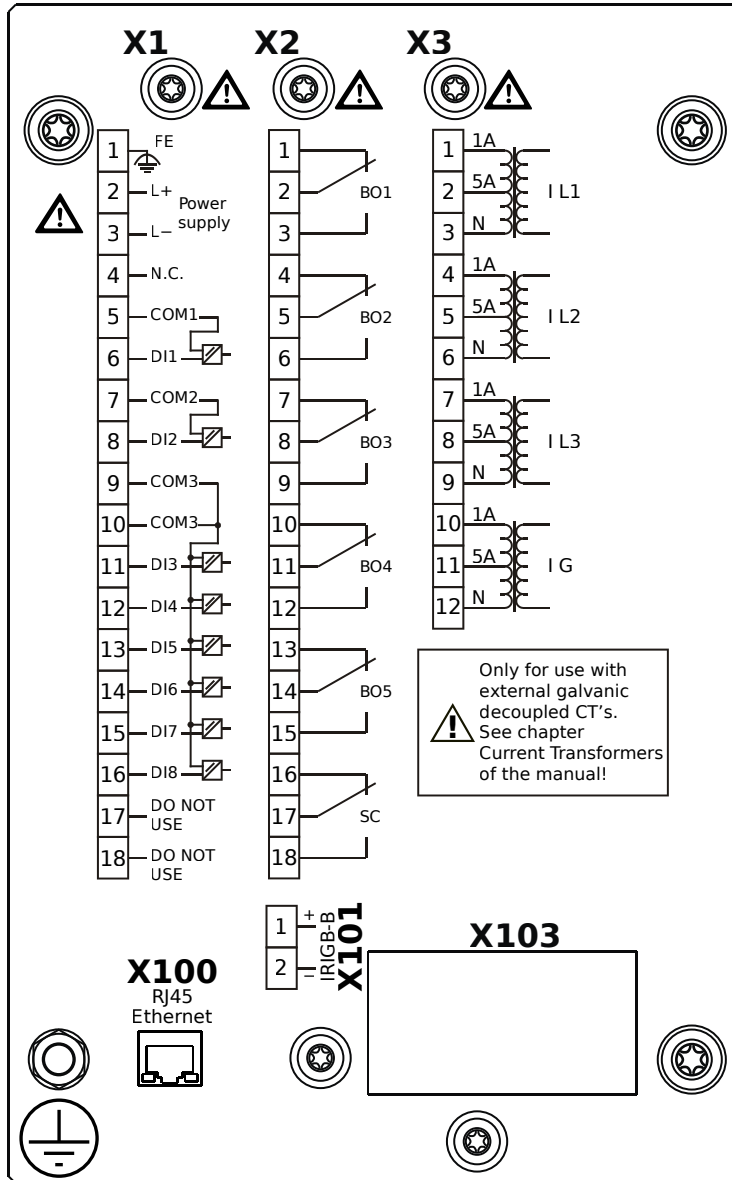
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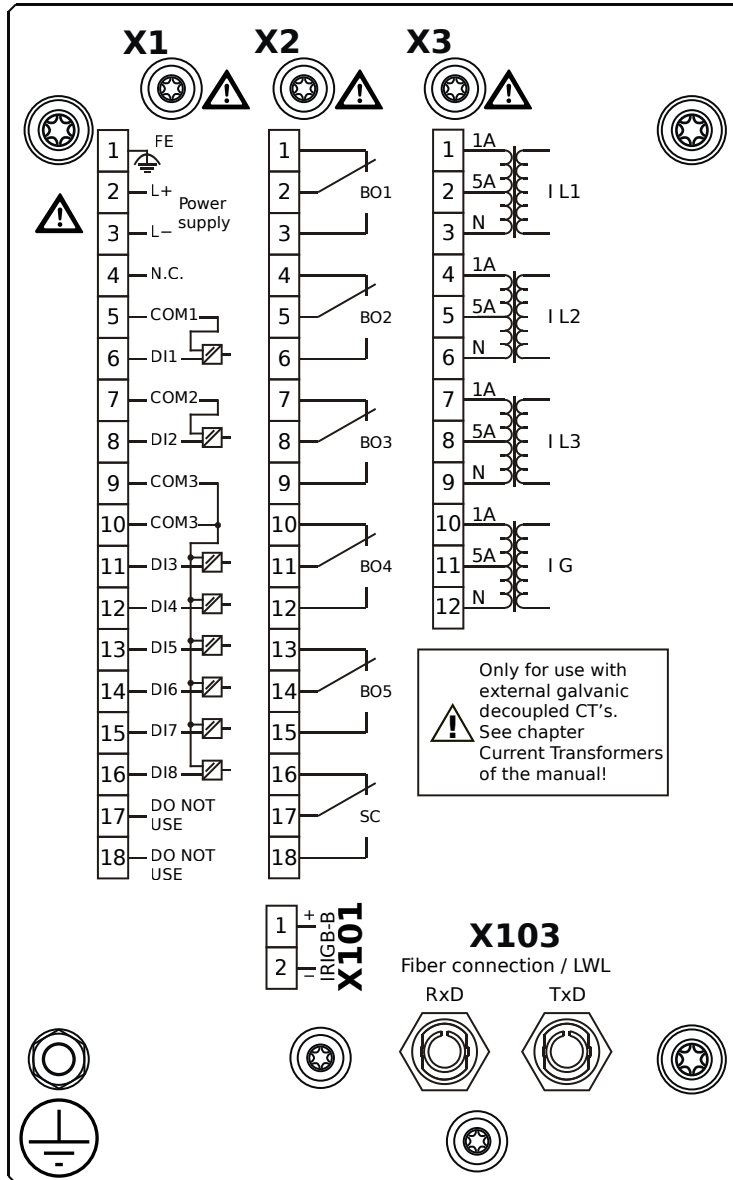
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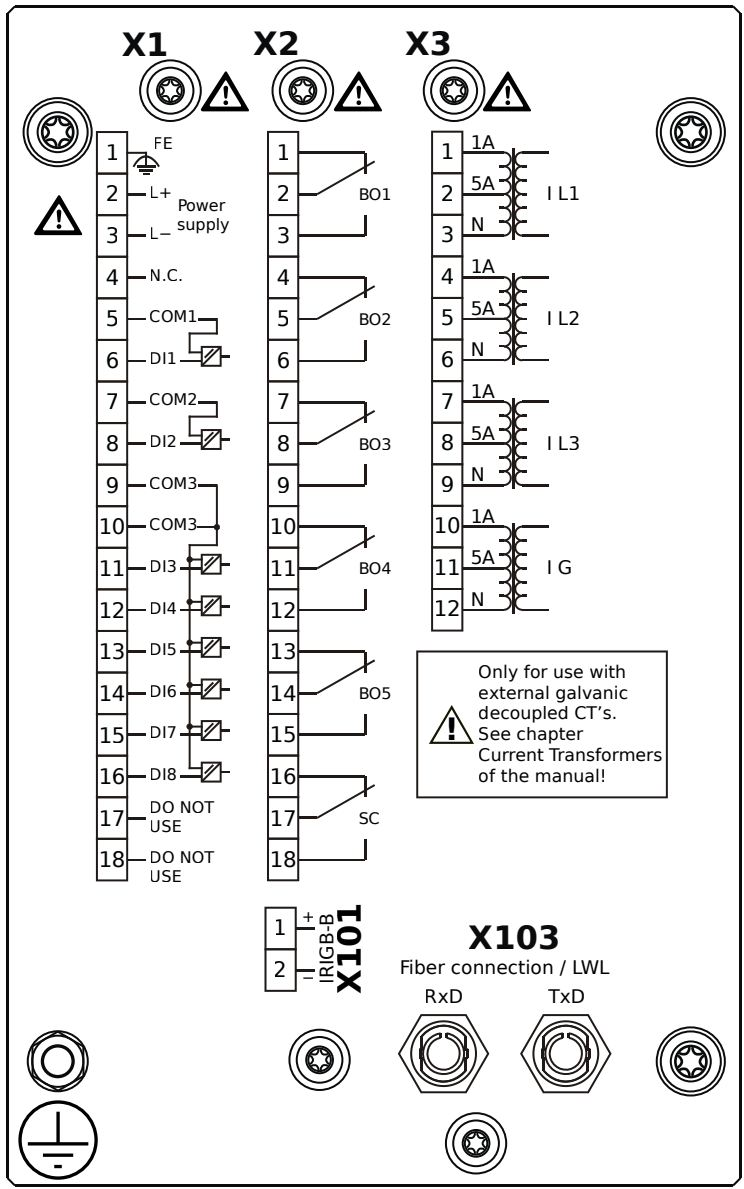
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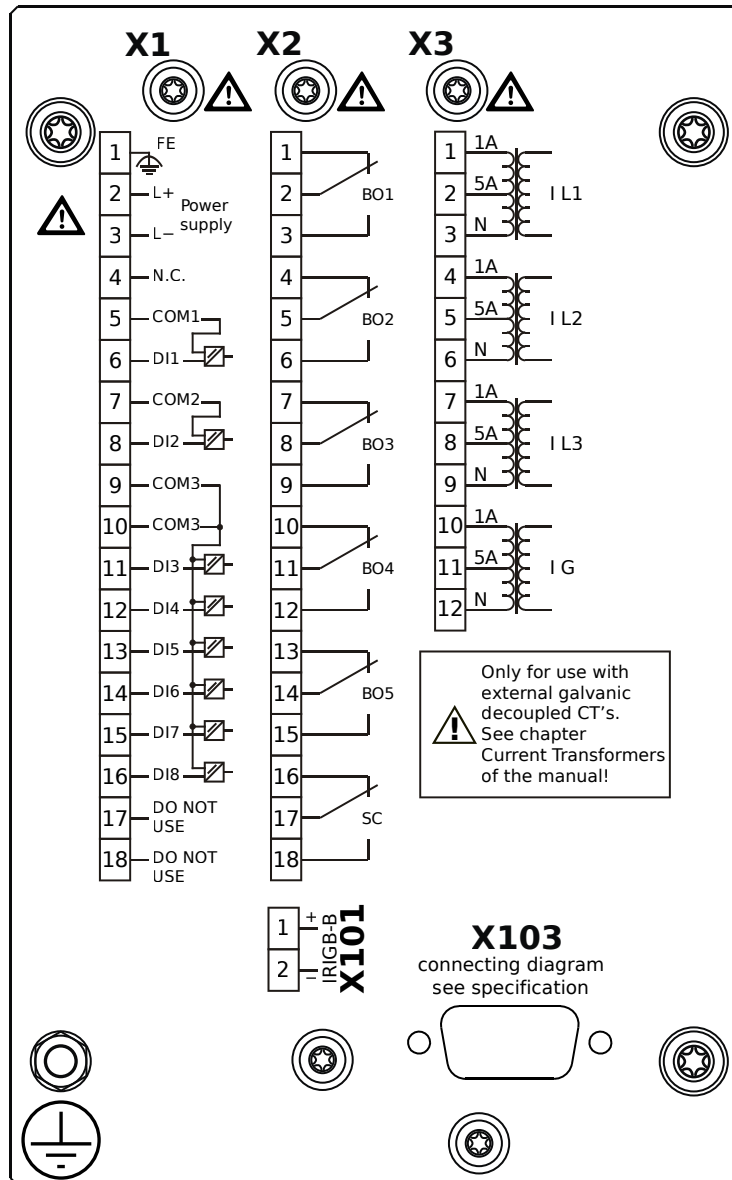
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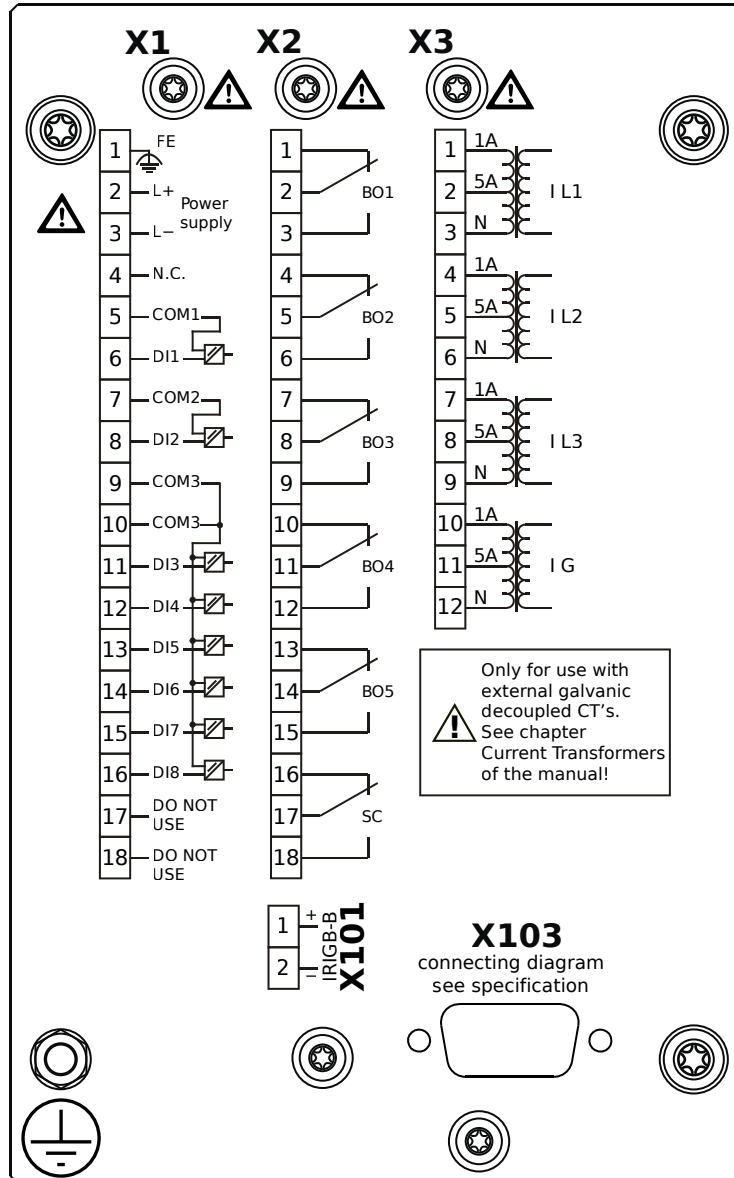
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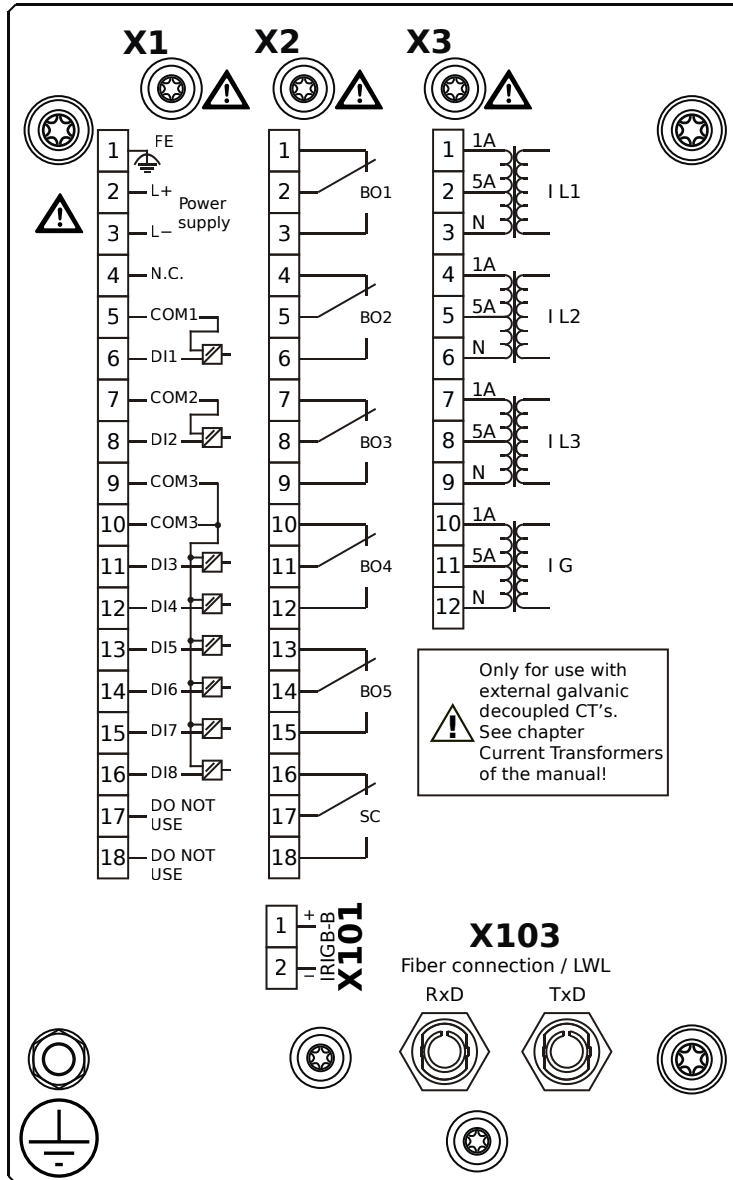
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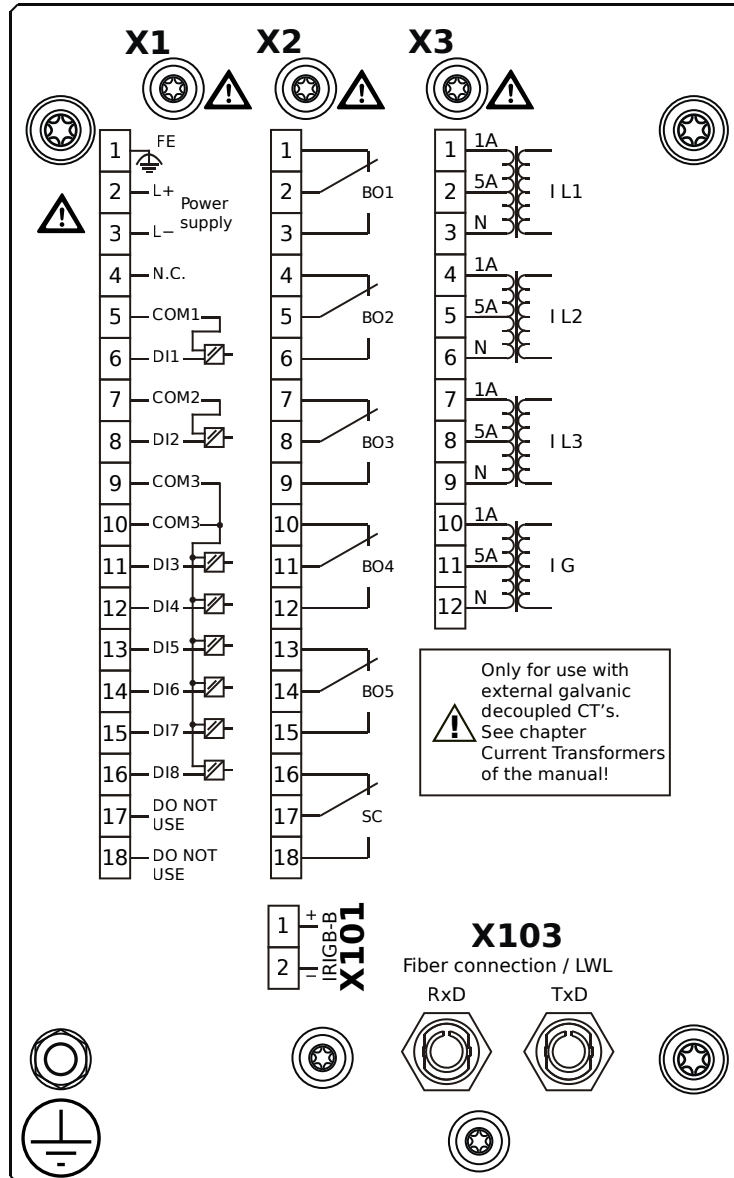
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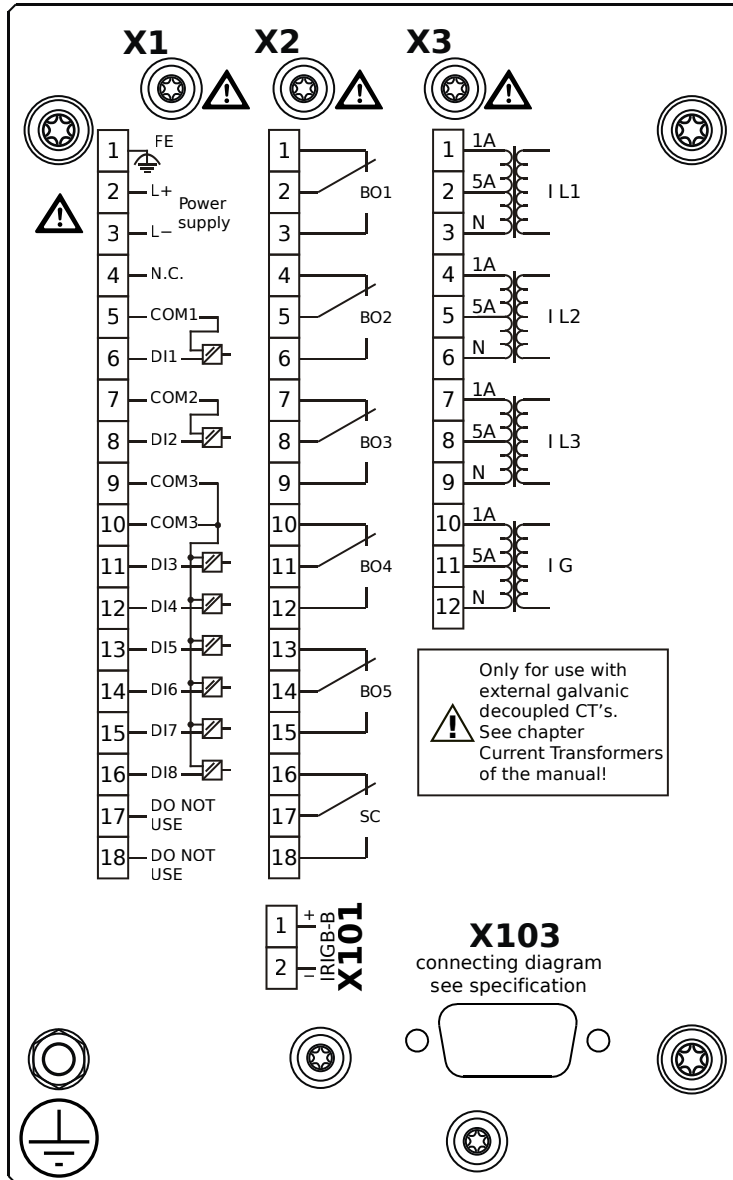
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X103 – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

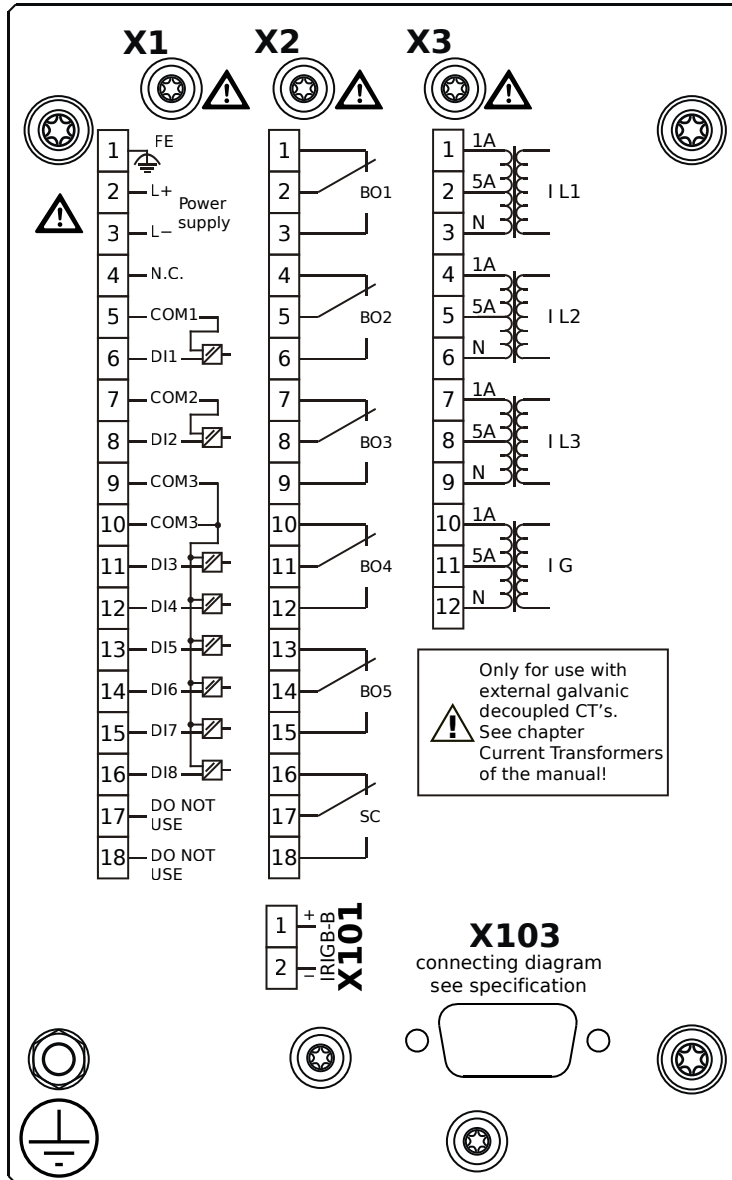
MRI4-2A0BGA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

MRI4-2A0BGB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

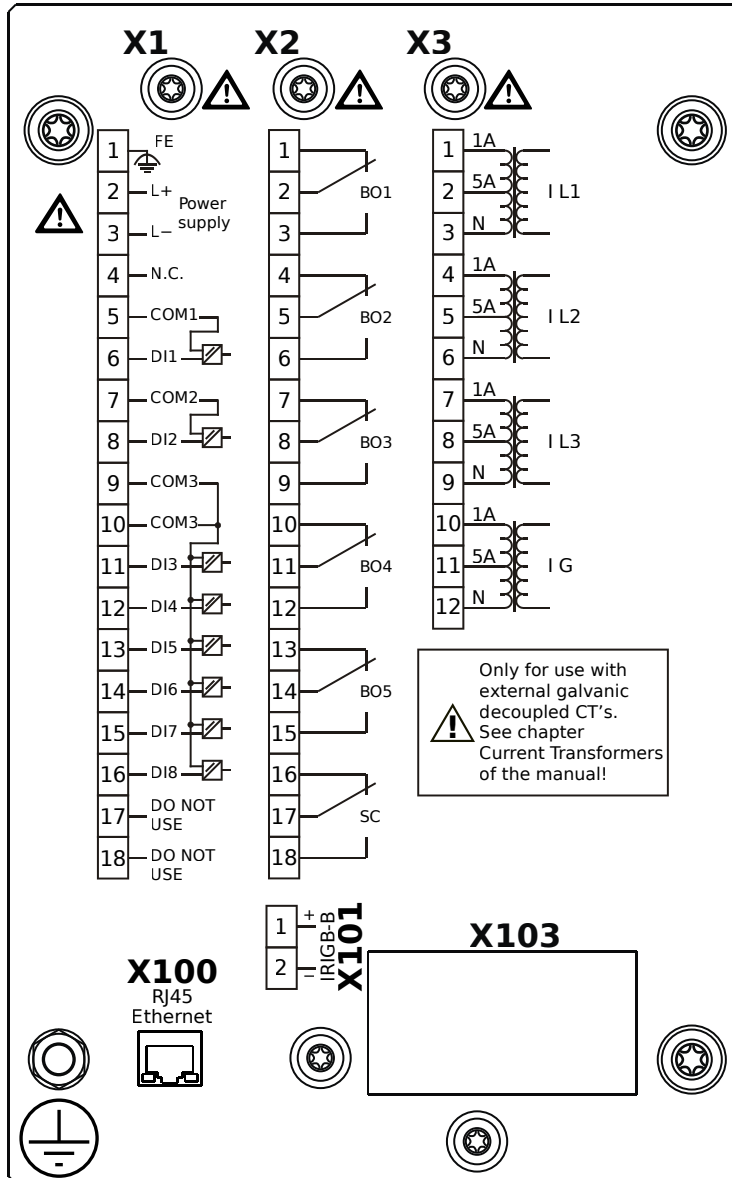
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TI: Standard current measuring card

X101 – IRIG-B00X

X103 – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

MRI4-2A0BHA



Housing B1, small display, 19" rack mounting

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

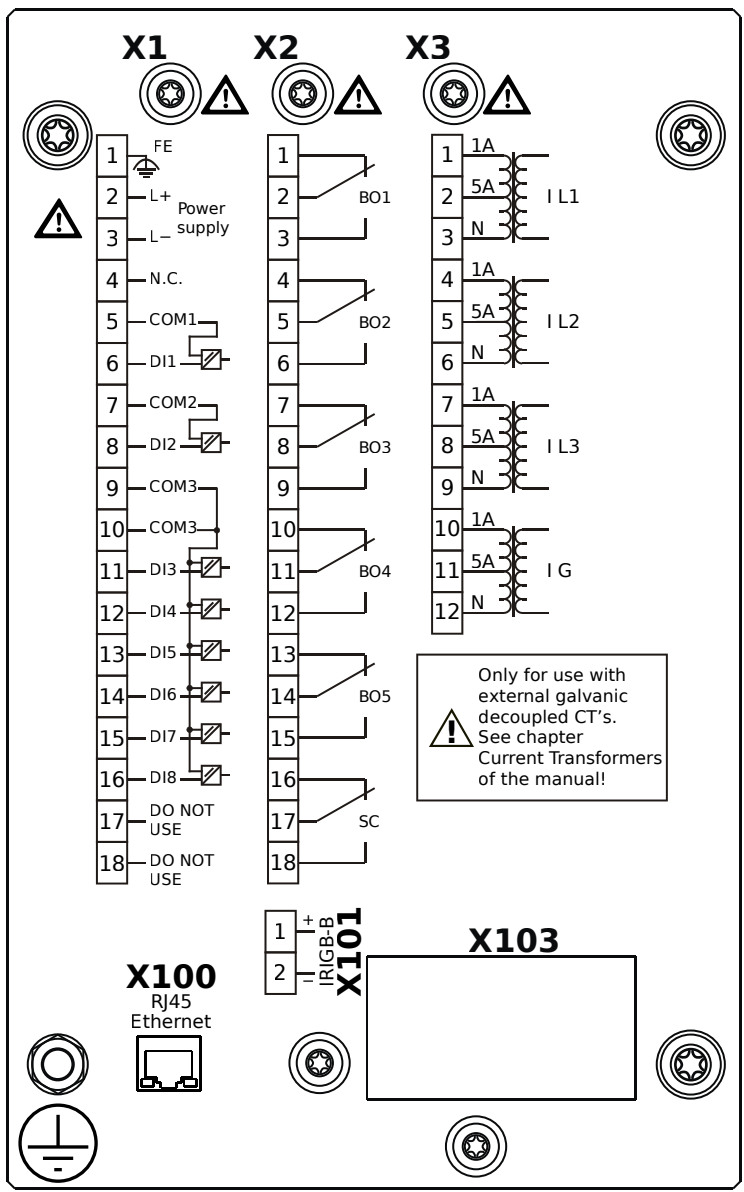
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TI: Standard current measuring card

X100 – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)

X101 – IRIG-B00X

MRI4-2A0BHB

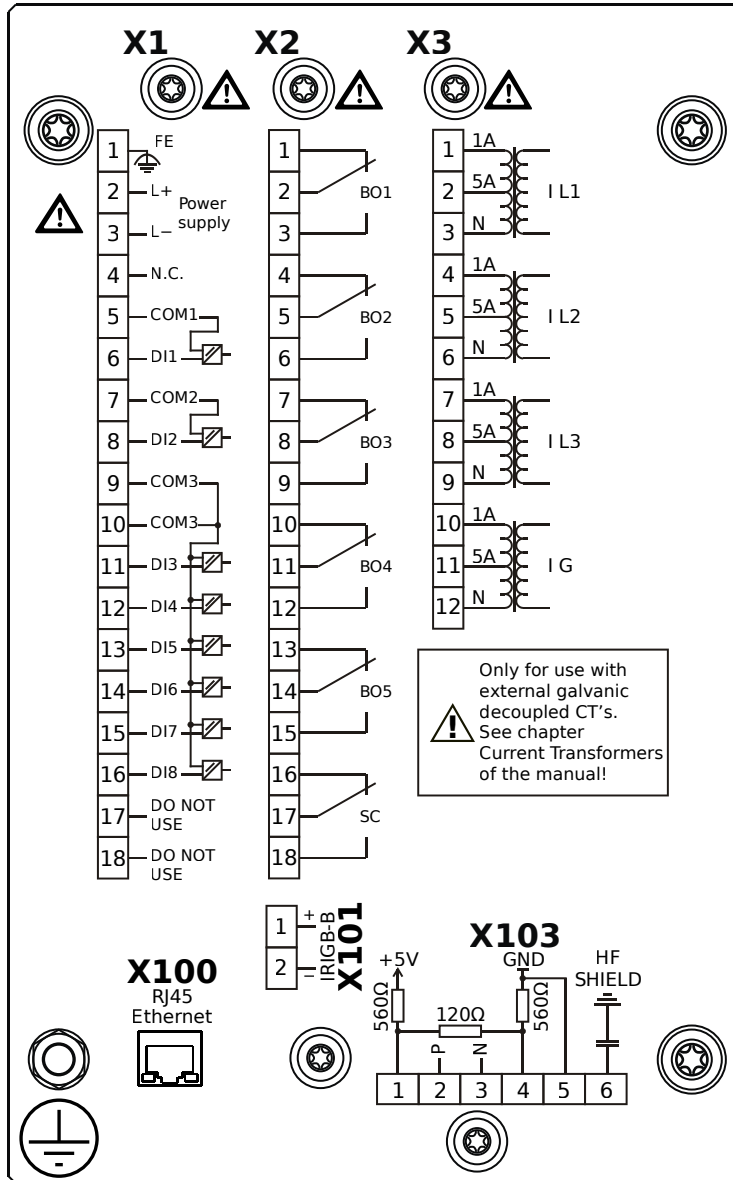


Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

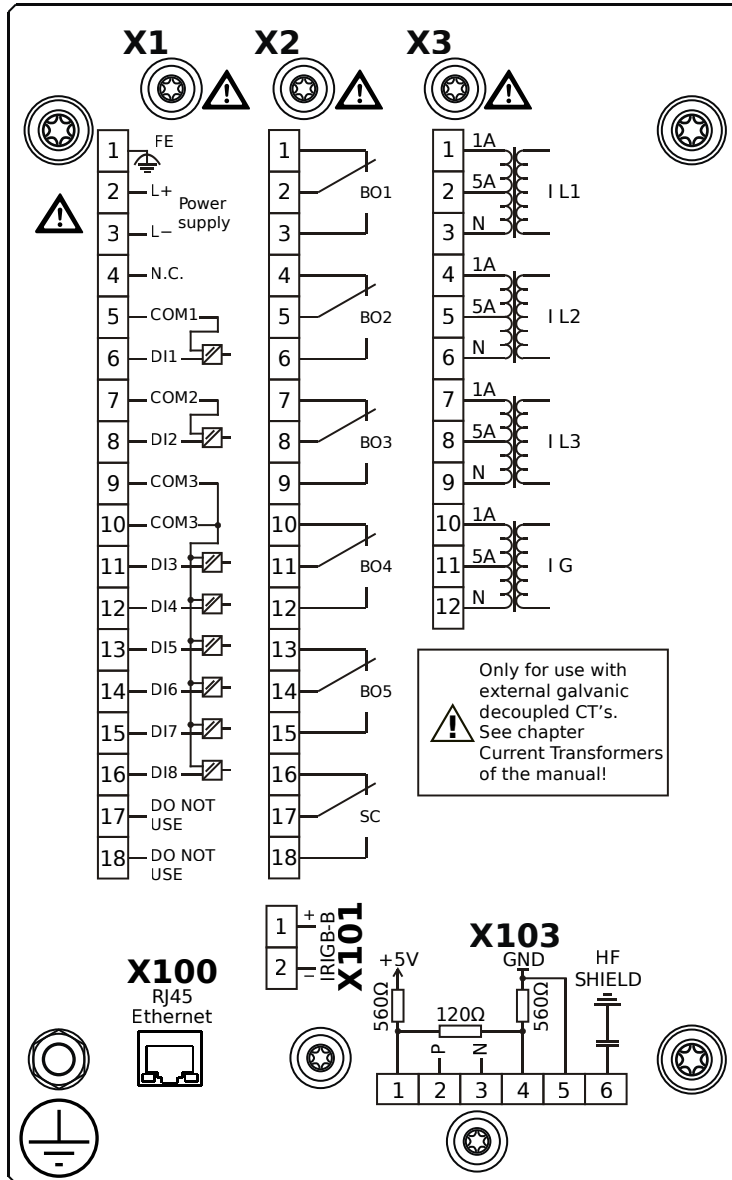
MRI4-2A0BIA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

MRI4-2A0BIB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

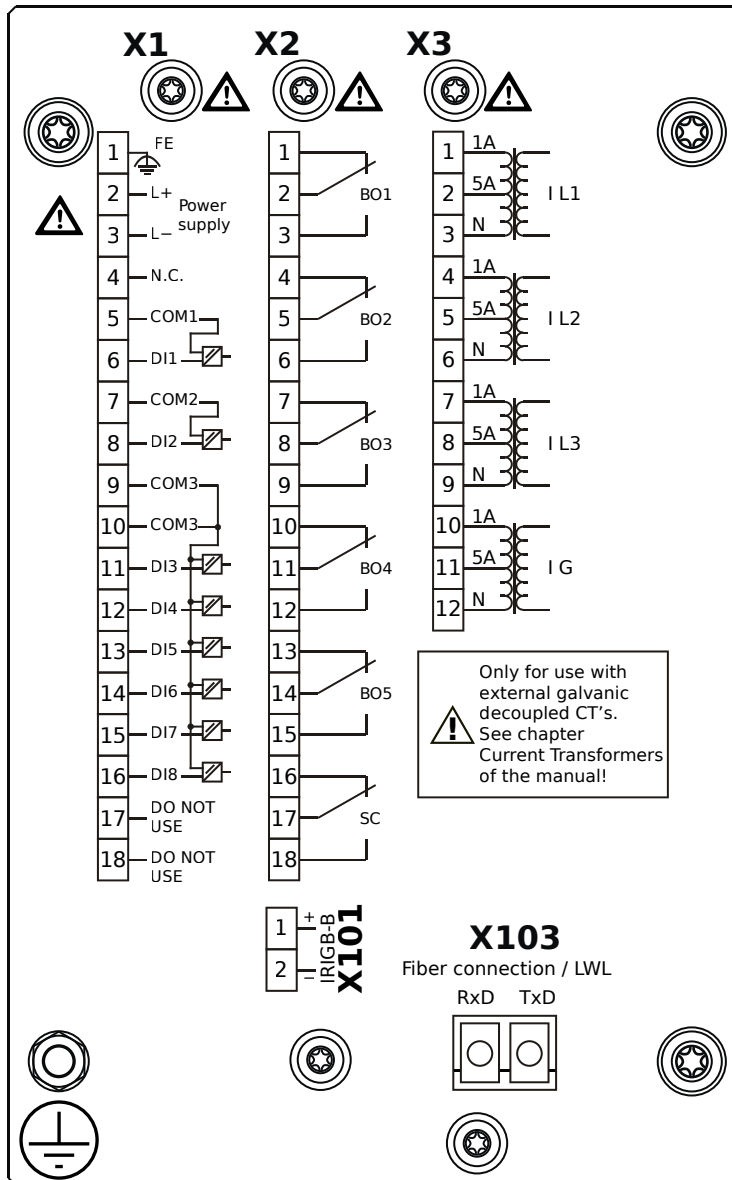
X3 – TI: Standard current measuring card

X100 – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)

X101 – IRIG-B00X

X103 – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

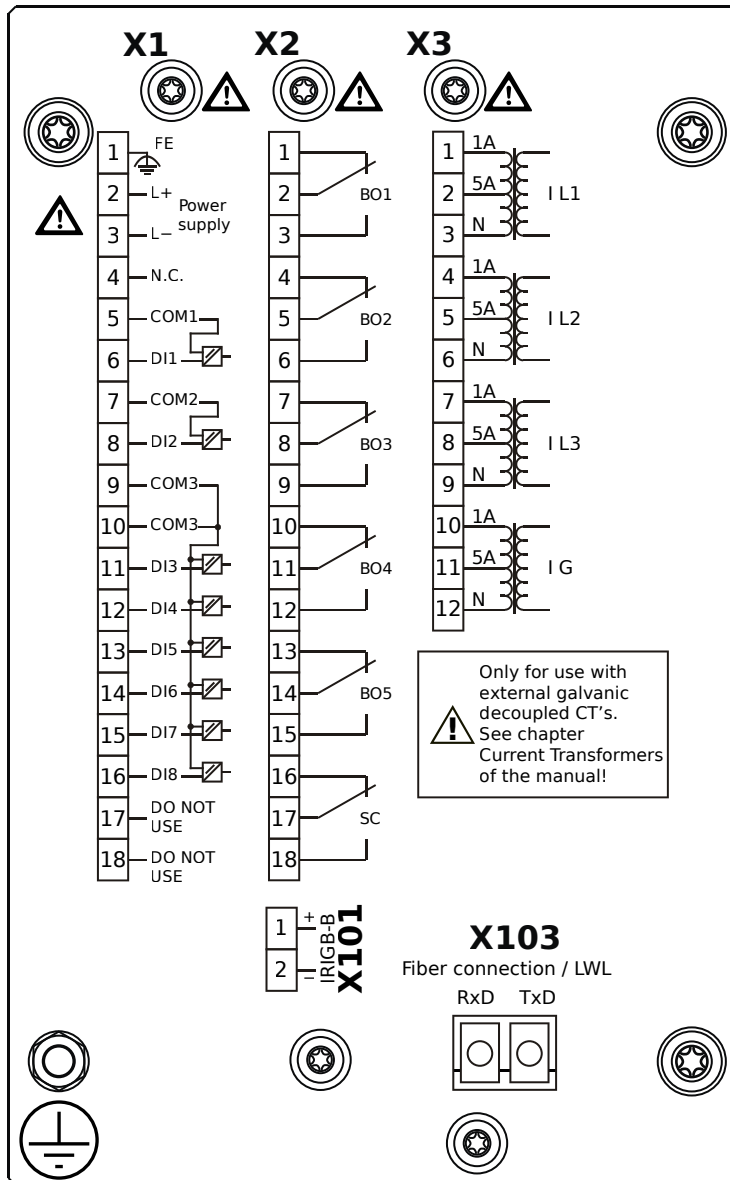
MRI4-2A0BKA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X
- X103** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

MRI4-2A0BKB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

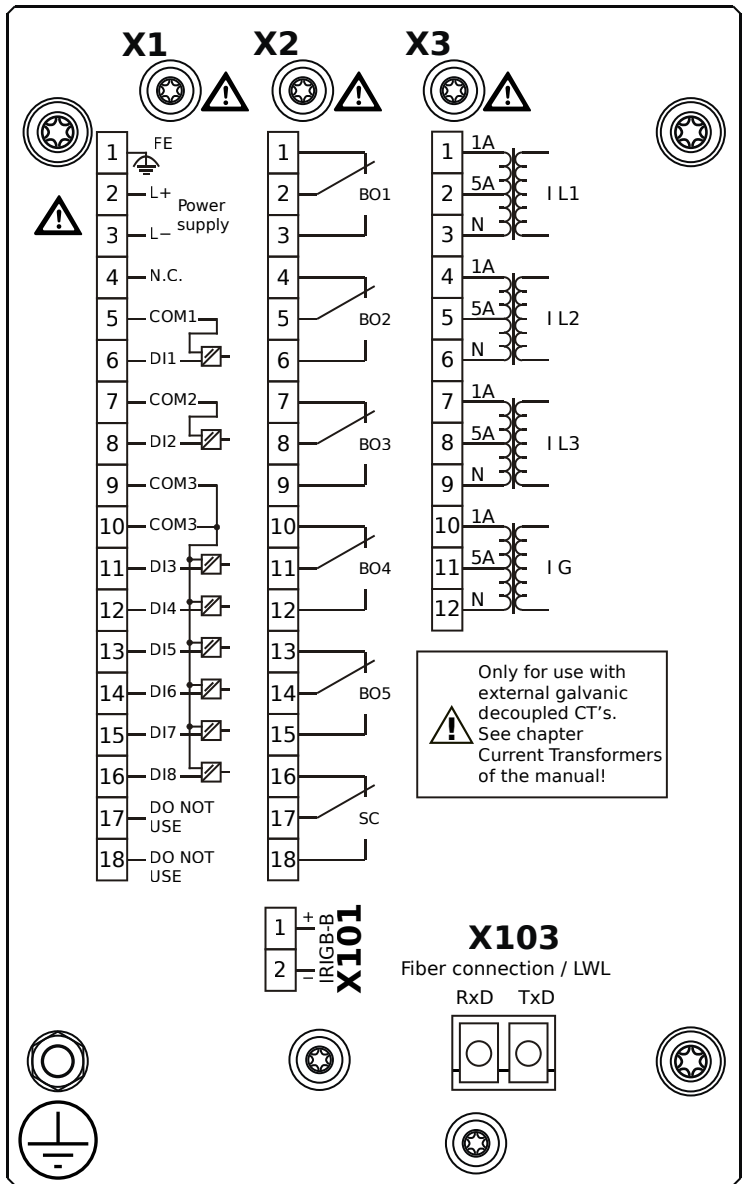
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TI: Standard current measuring card

X101 – IRIG-B00X

X103 – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

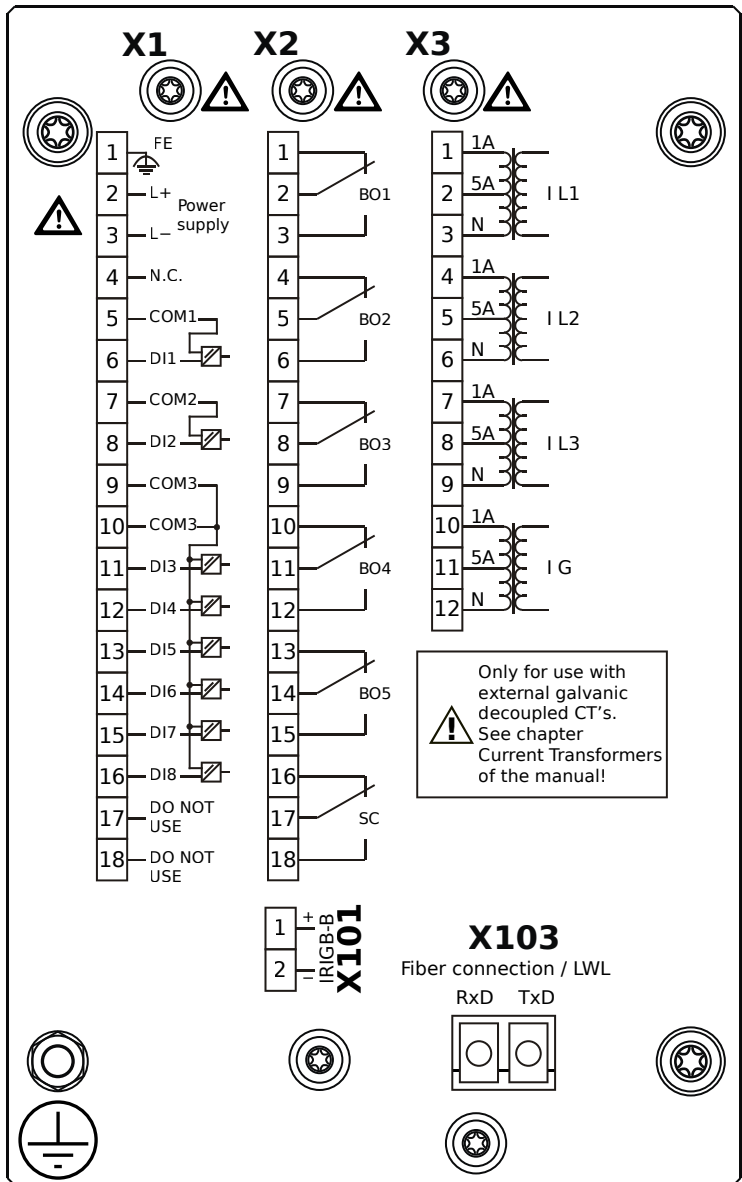
MRI4-2A0BLA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X
- X103** – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

MRI4-2A0BLB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

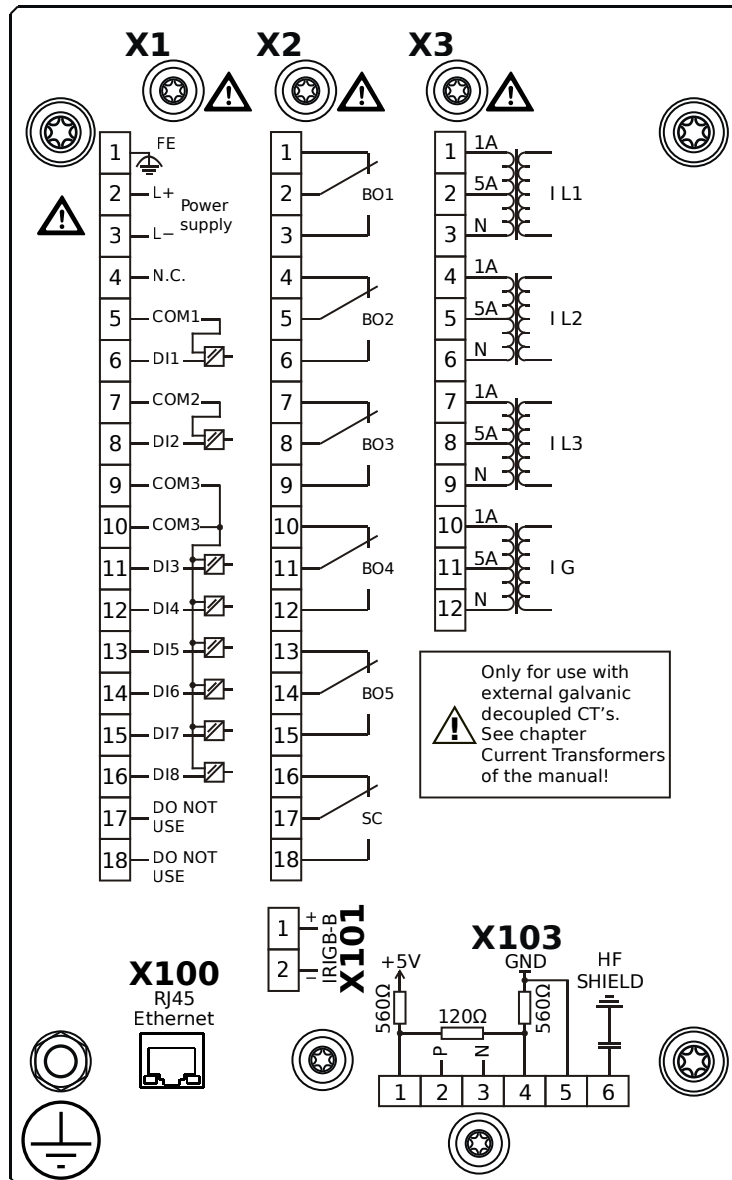
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TI: Standard current measuring card

X101 – IRIG-B00X

X103 – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

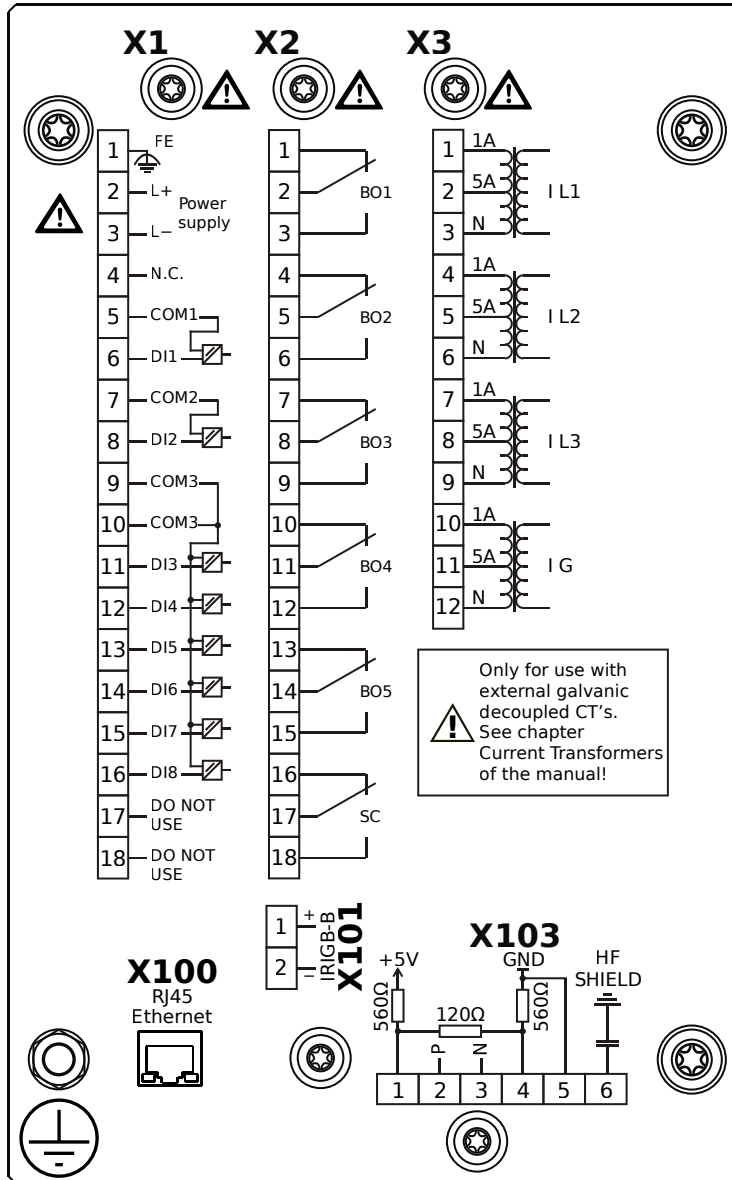
MRI4-2A0BTA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

MRI4-2A0BTB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

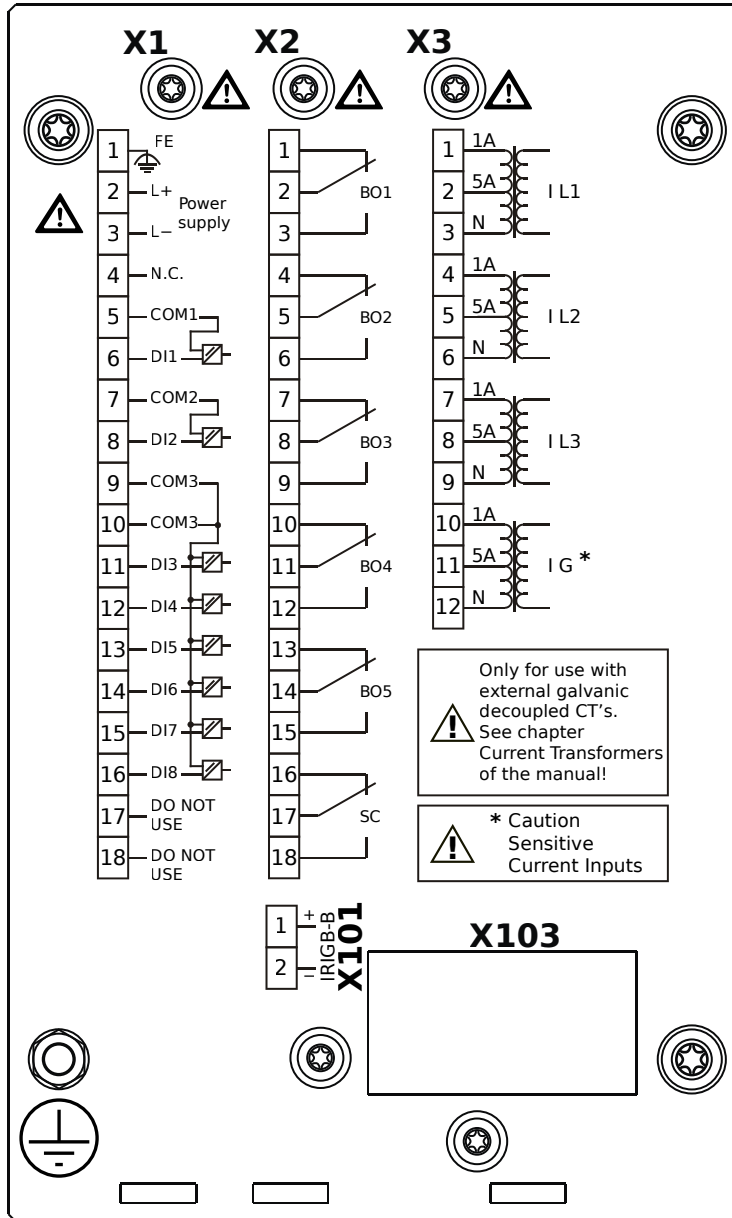
X3 – TI: Standard current measuring card

X100 – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)

X101 – IRIG-B00X

X103 – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

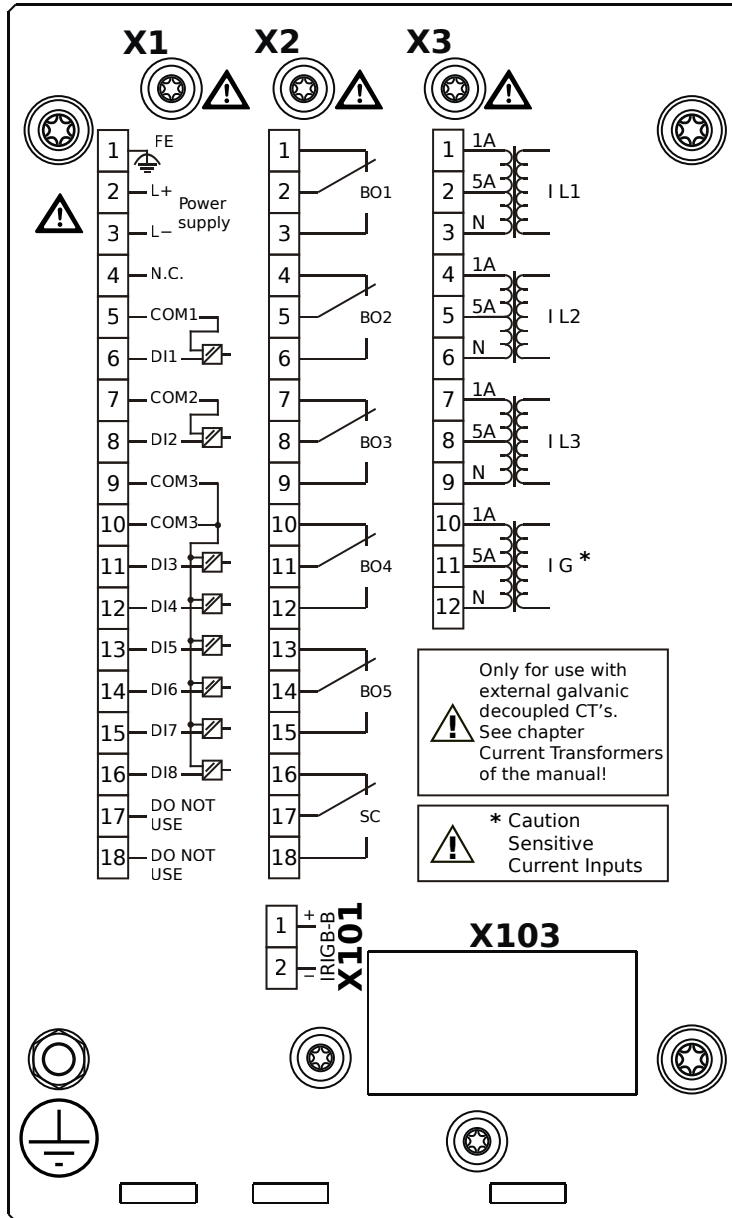
MRI4-2A1AAA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X

MRI4-2A1AAB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

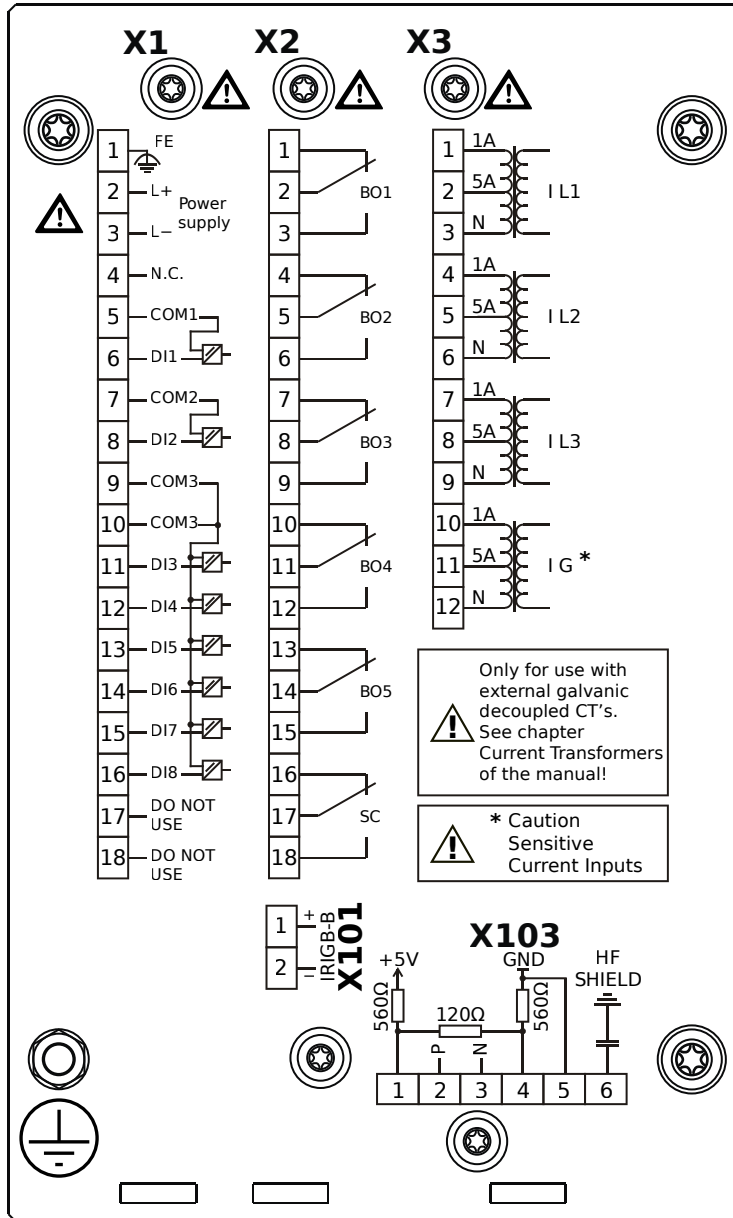
X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

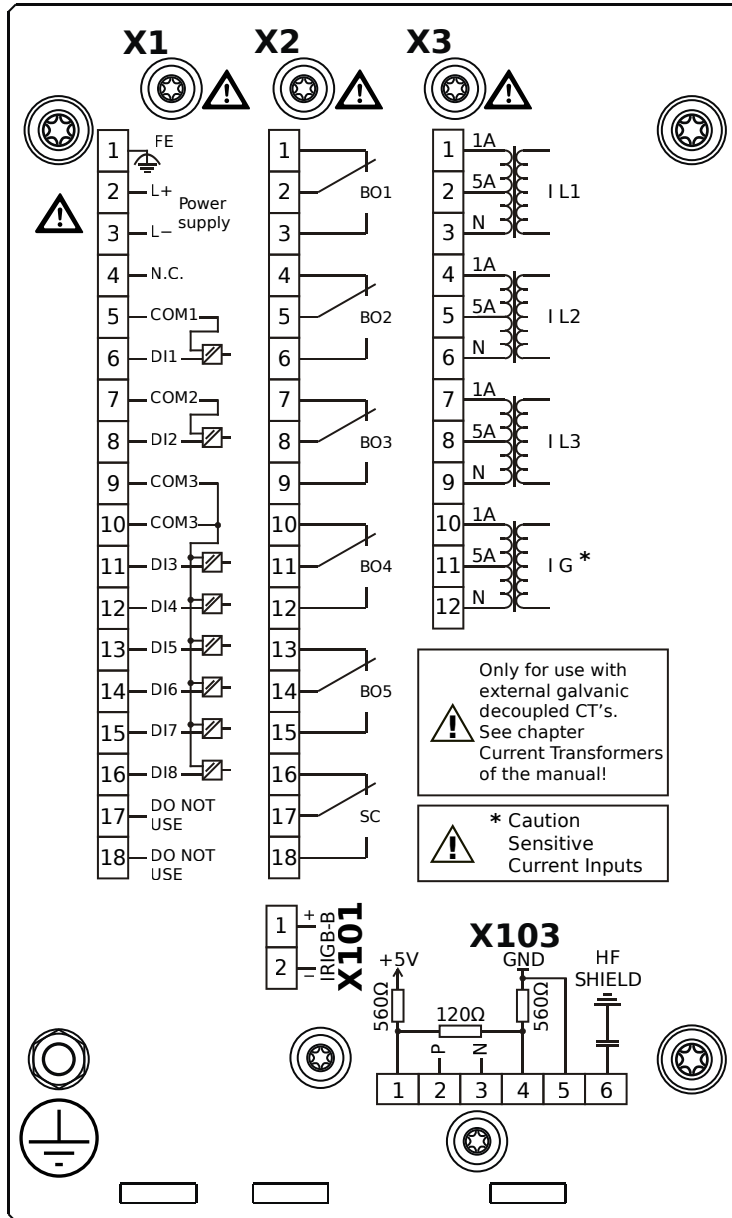
MRI4-2A1ABA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, Terminals

MRI4-2A1ABB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

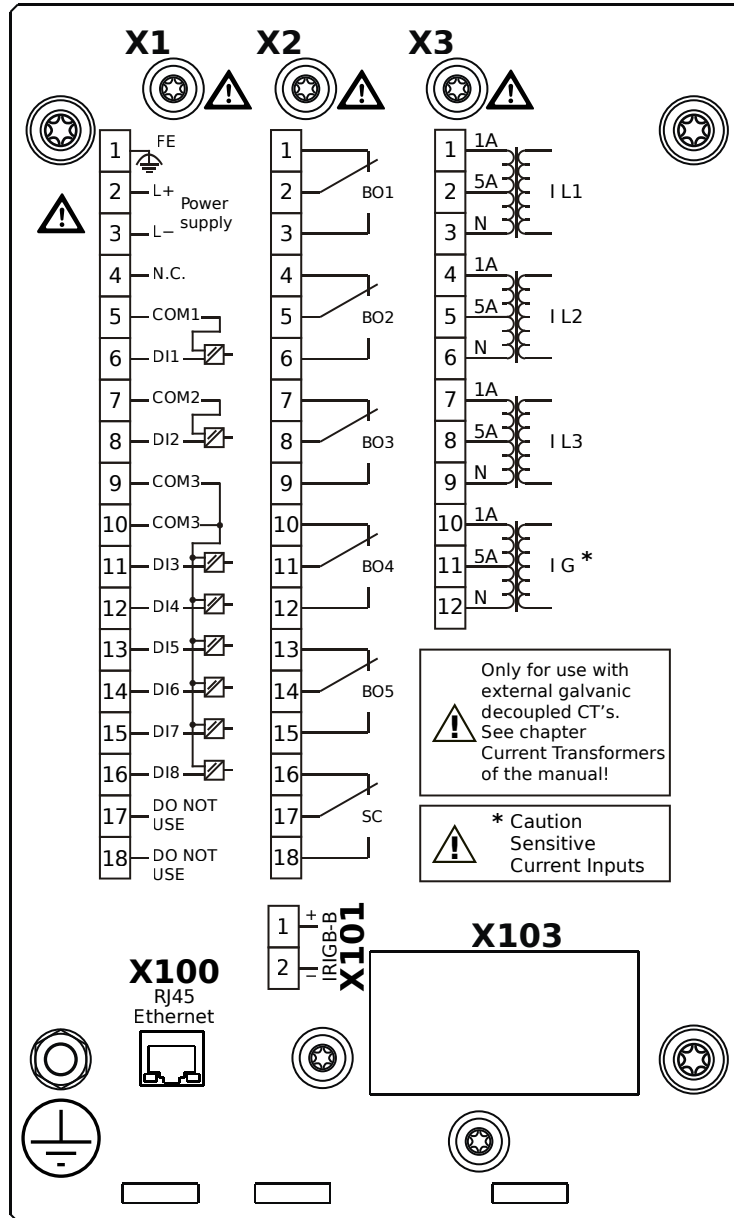
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, Terminals

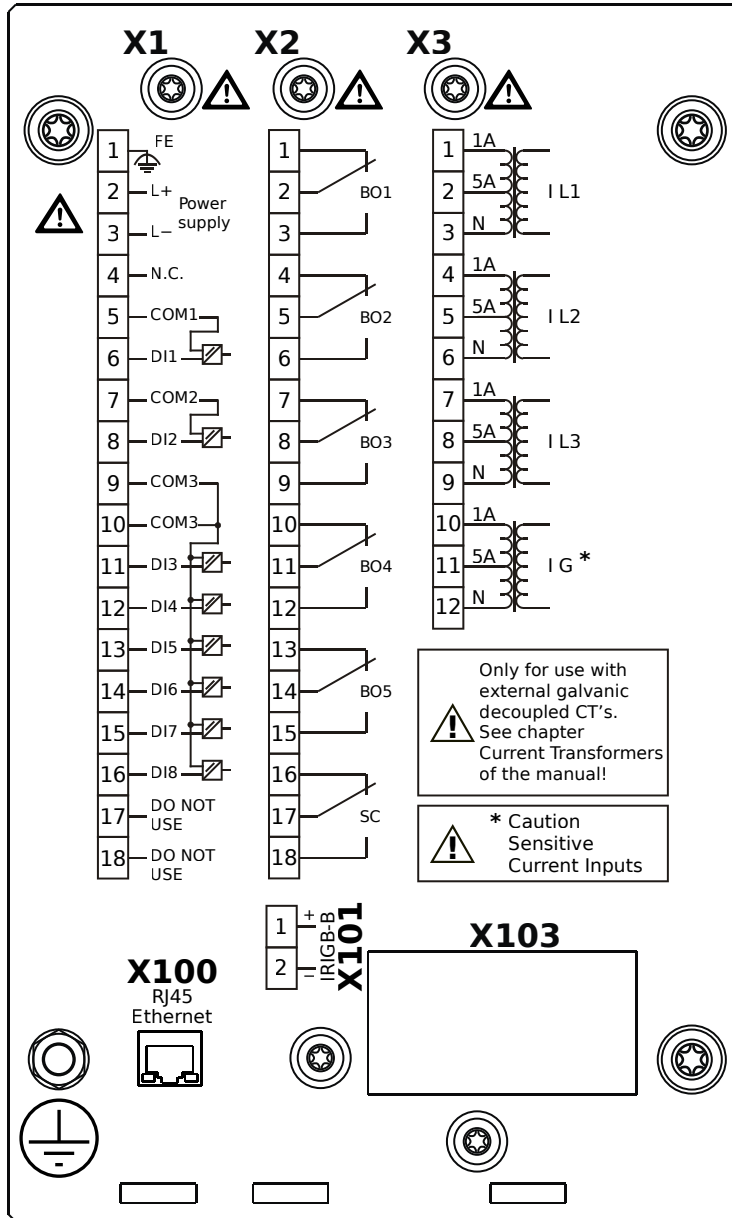
MRI4-2A1ACA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

MRI4-2A1ACB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

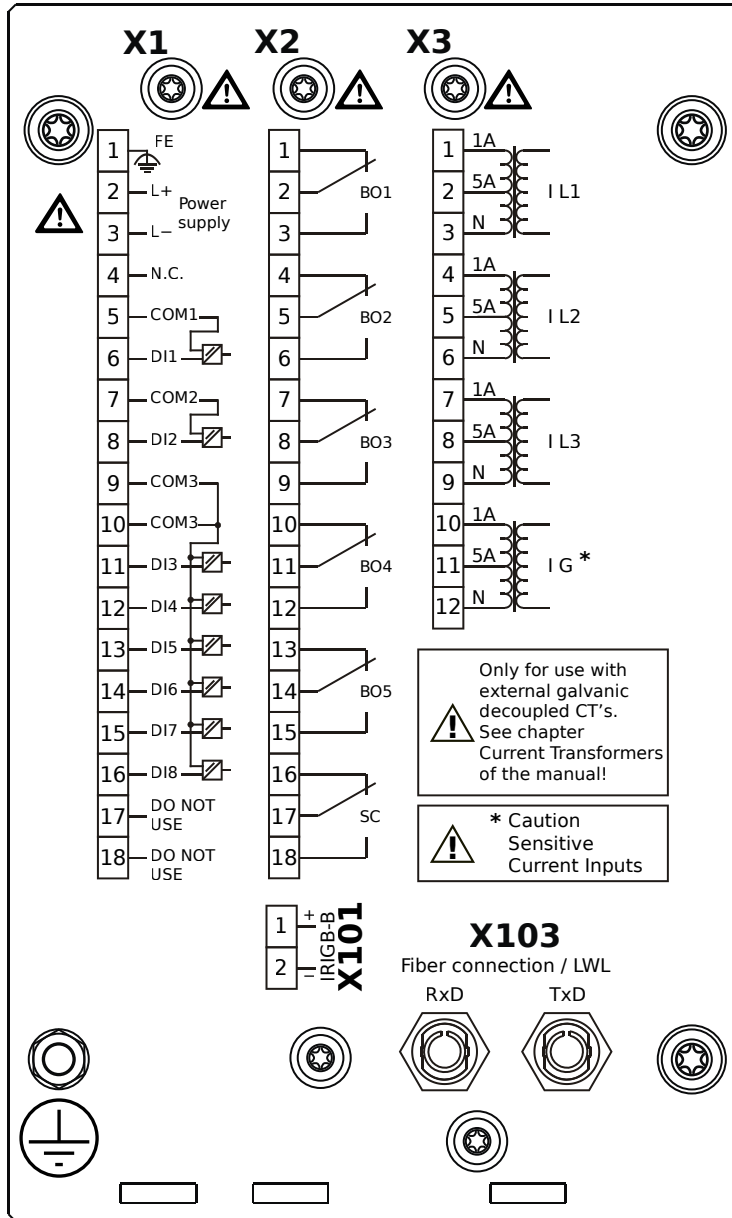
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X100 – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)

X101 – IRIG-B00X

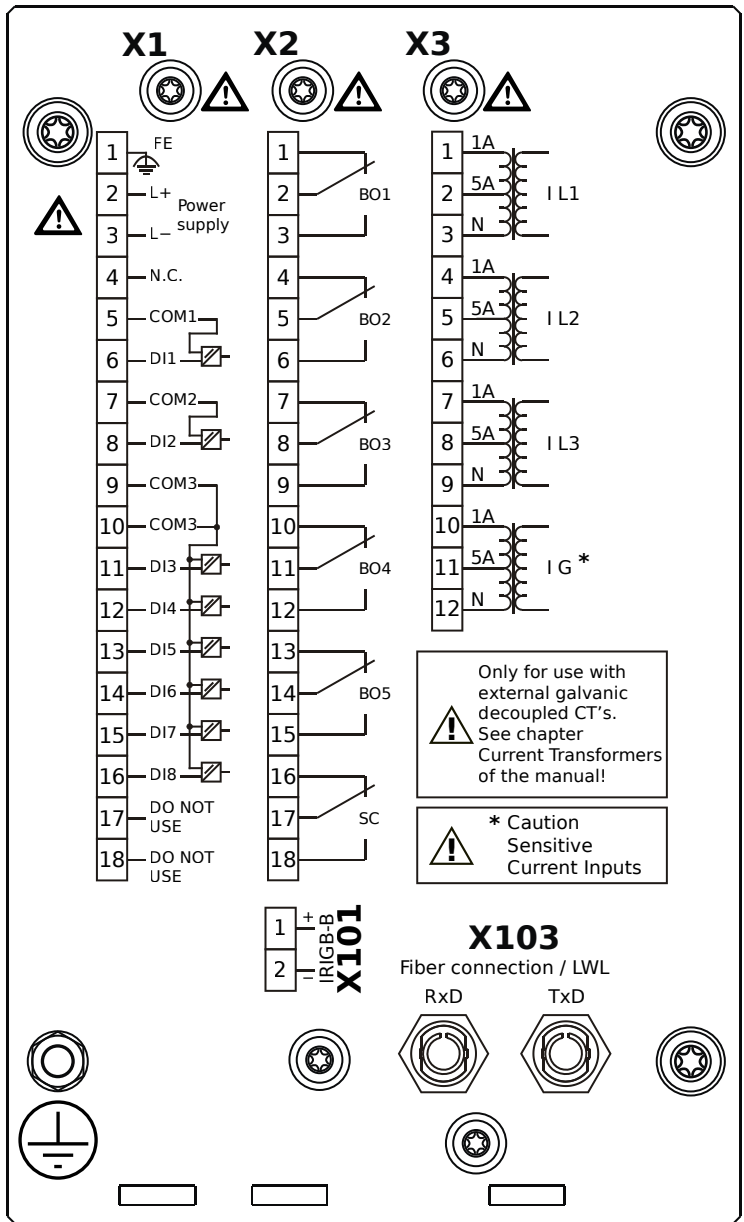
MRI4-2A1ADA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, Fiber optics interface, ST Connector

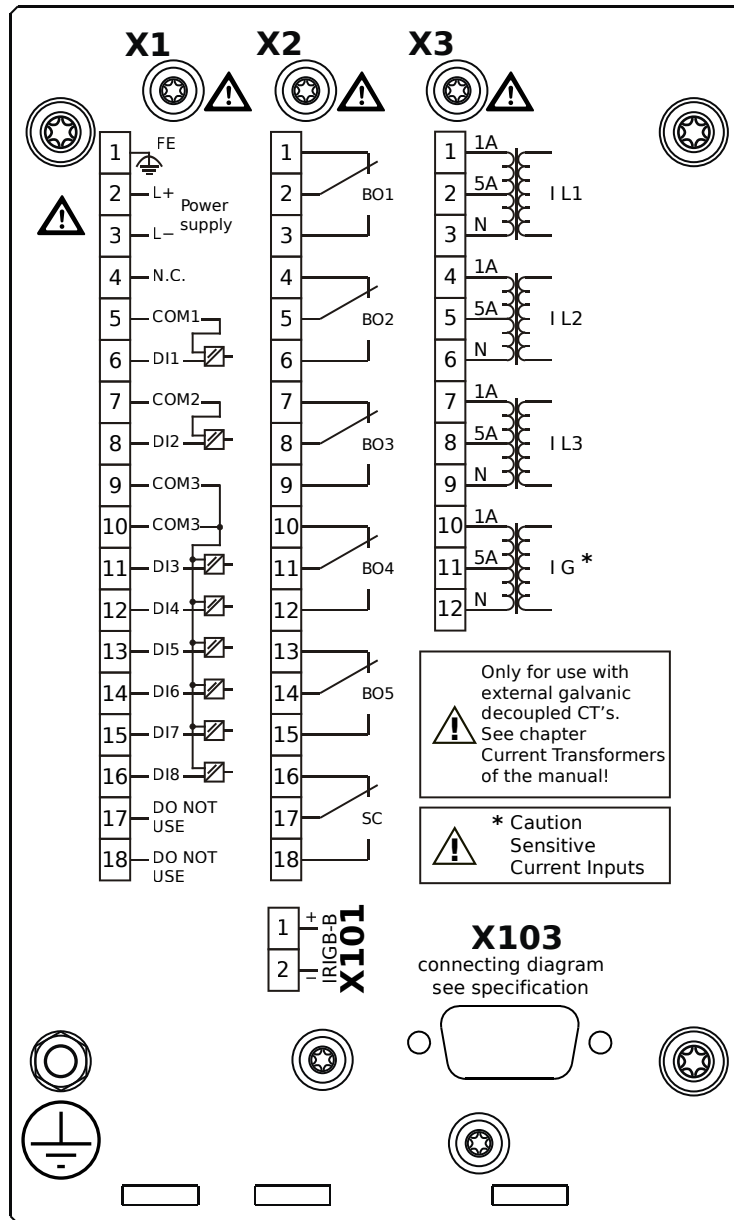
MRI4-2A1ADB



Housing B1, small display, door mounting

- + Conformal Coating (for installations in harsh environment)
- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, Fiber optics interface, ST Connector

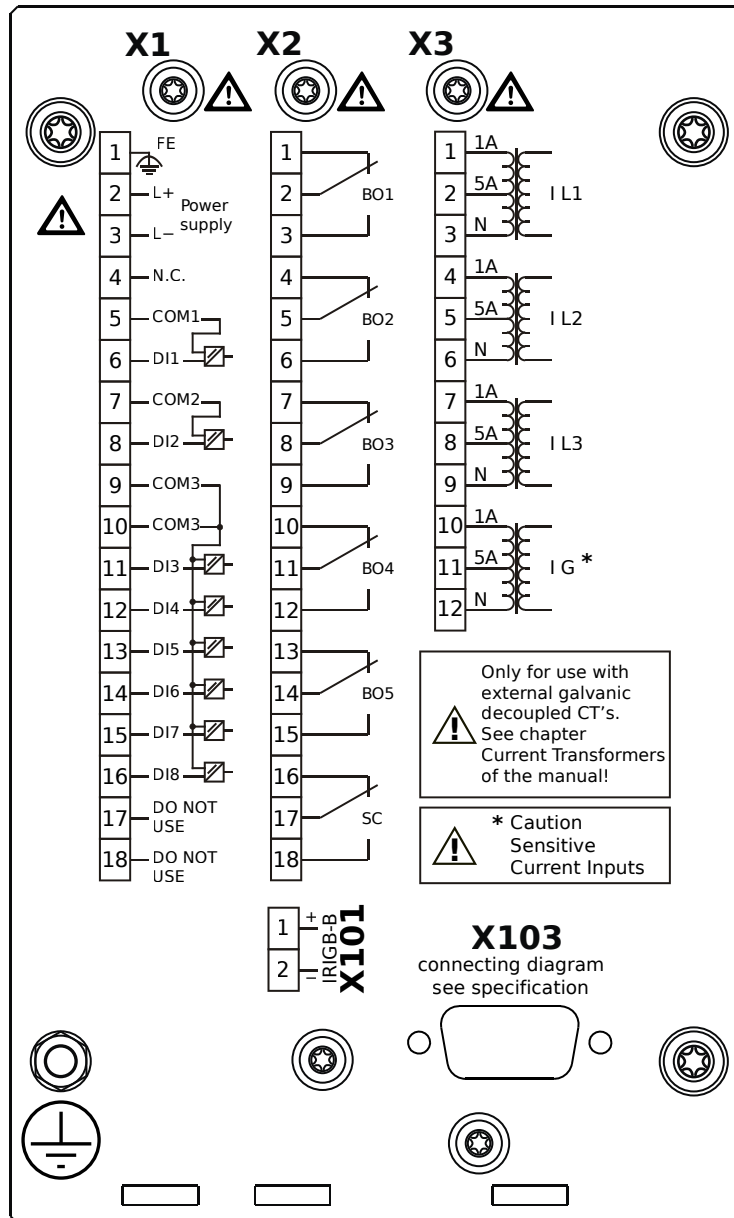
MRI4-2A1AEA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, RS485, D-SUB

MRI4-2A1AEB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

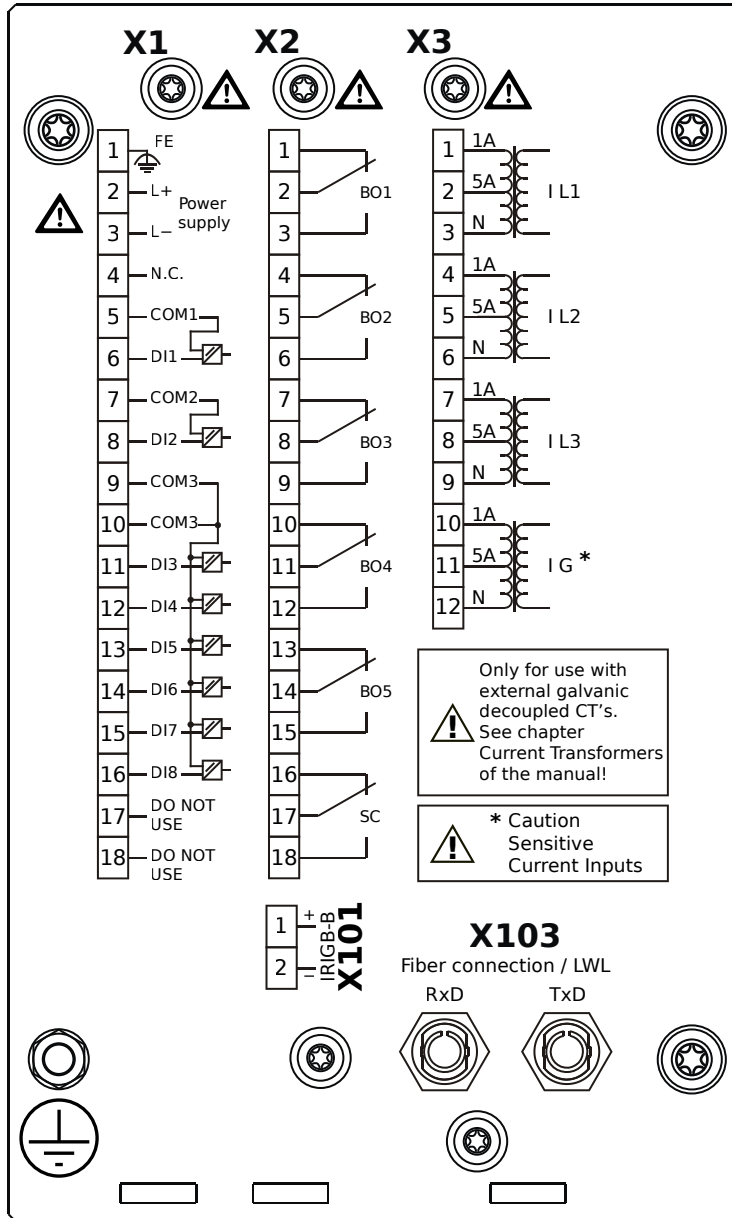
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Profibus-DP, RS485, D-SUB

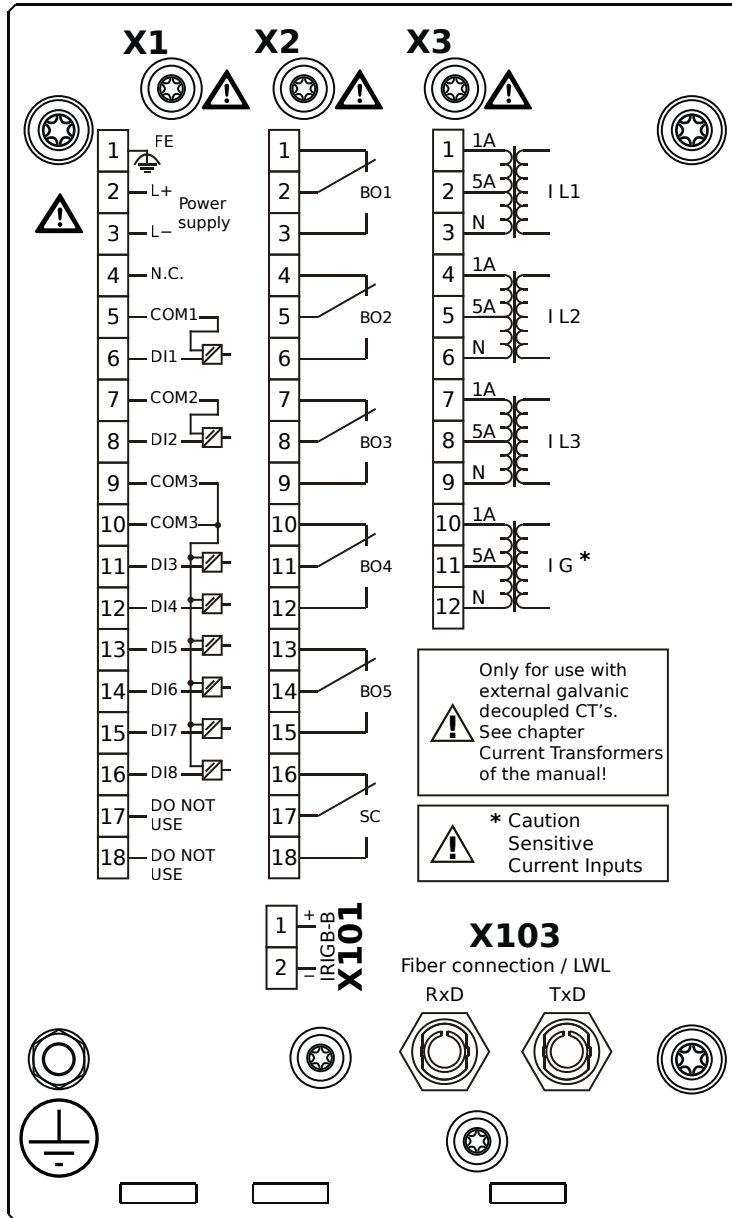
MRI4-2A1AFA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

MRI4-2A1AFB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

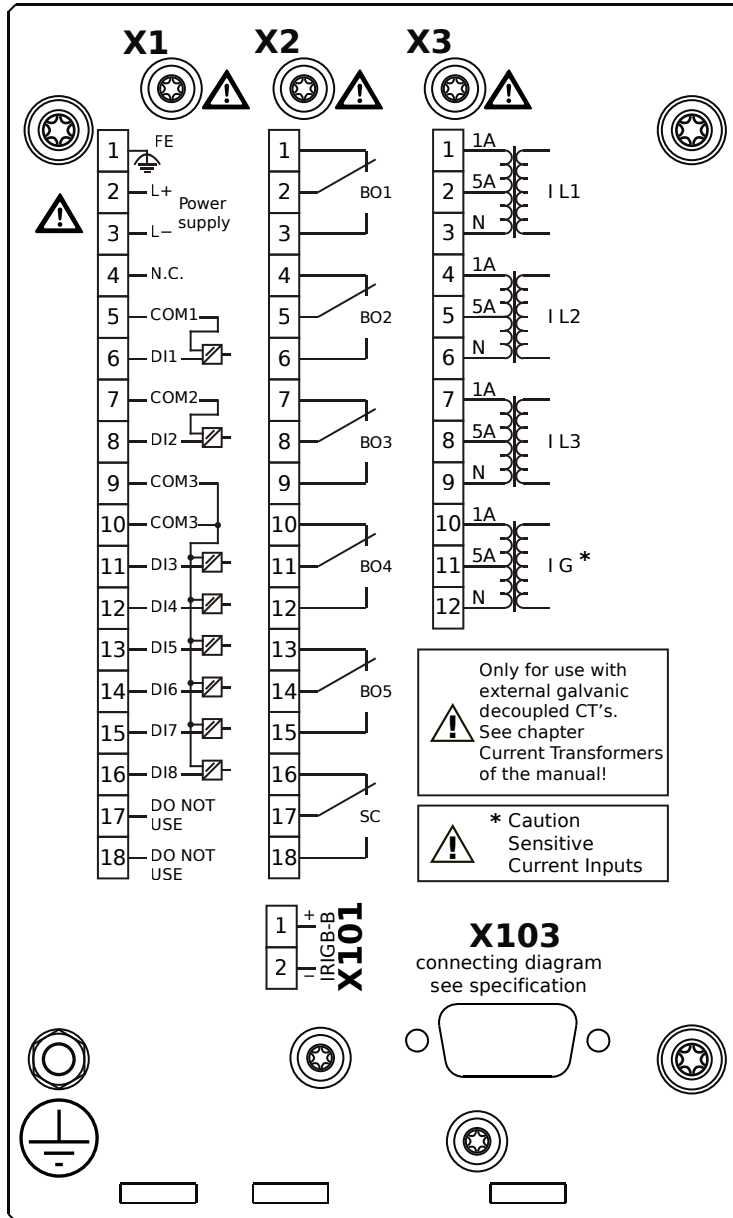
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

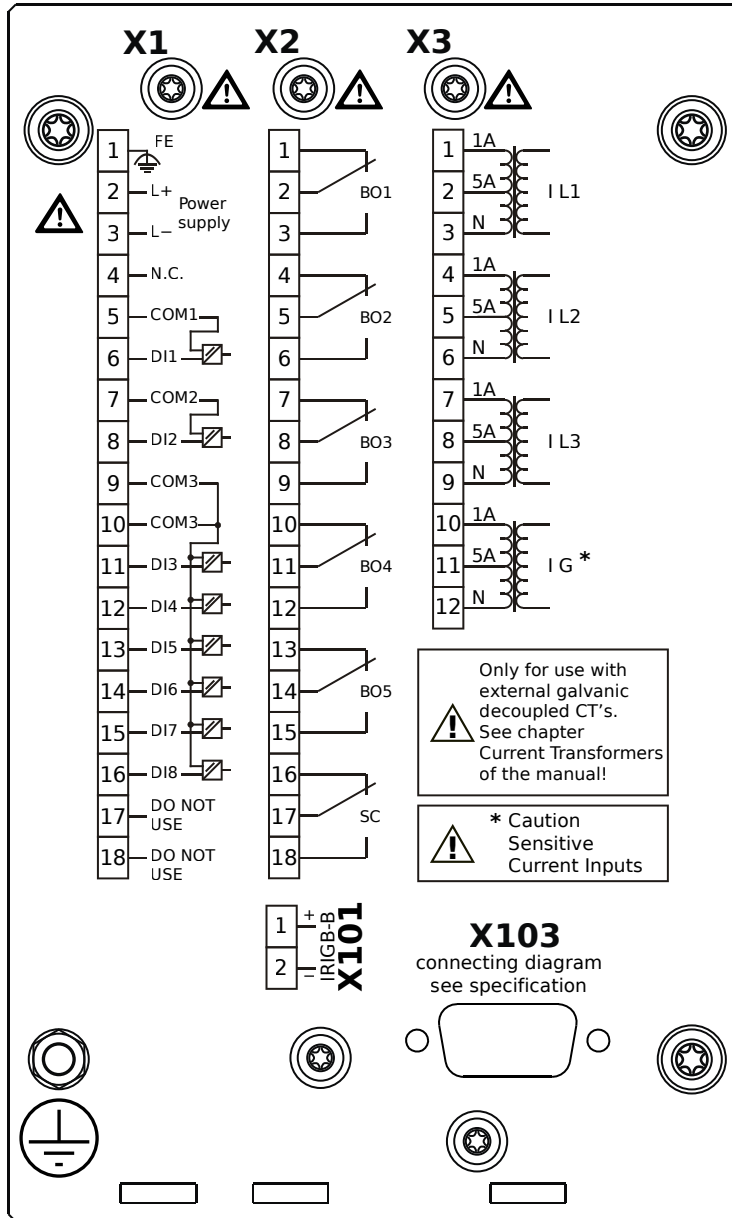
MRI4-2A1AGA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

MRI4-2A1AGB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

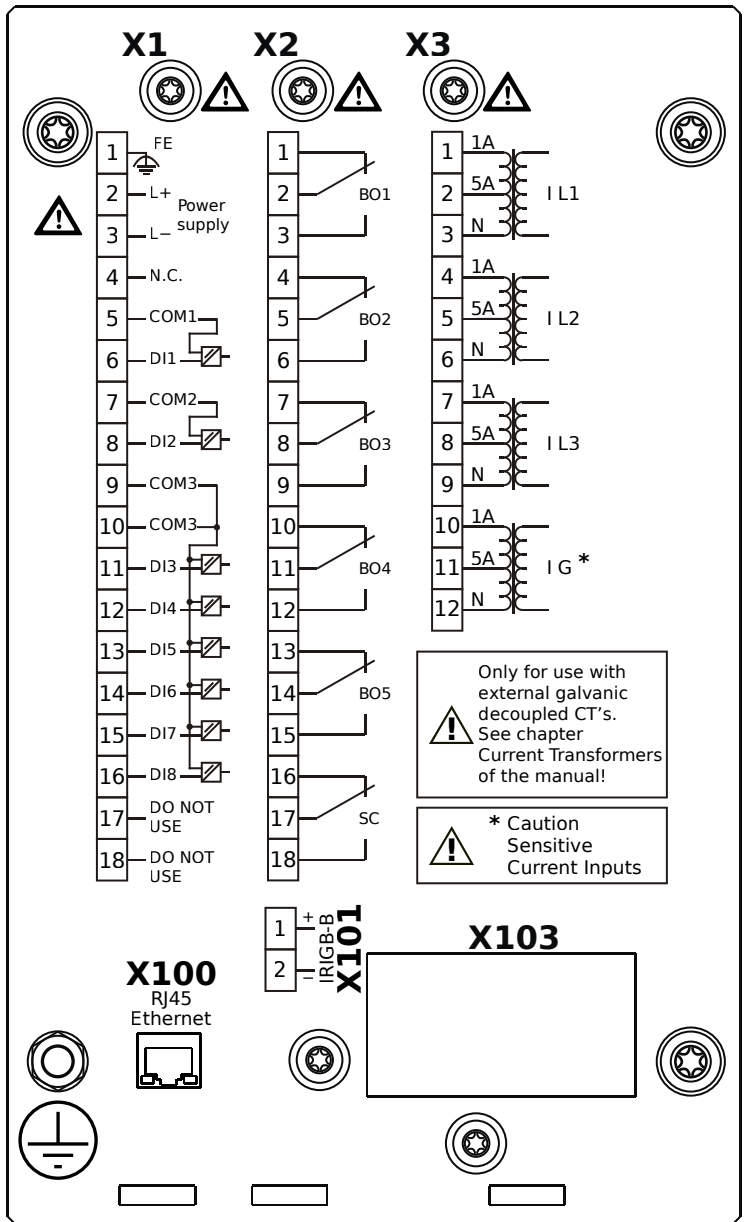
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

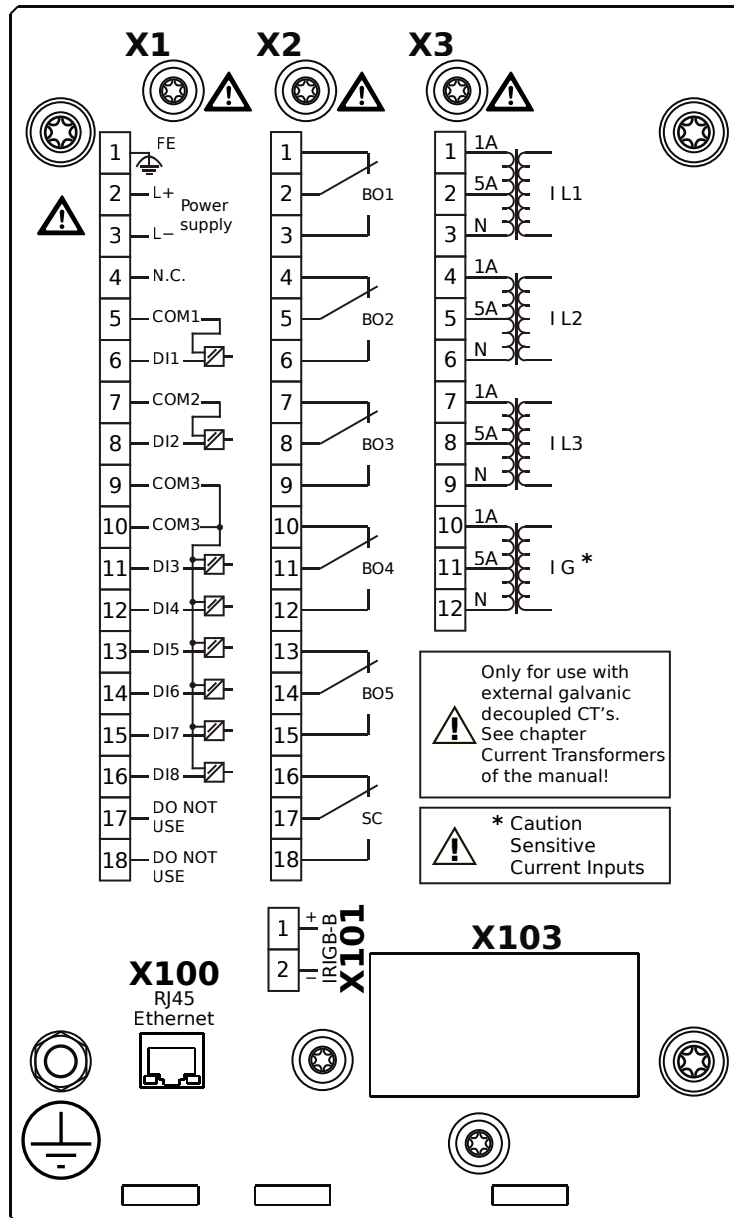
MRI4-2A1AHA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

MRI4-2A1AHB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

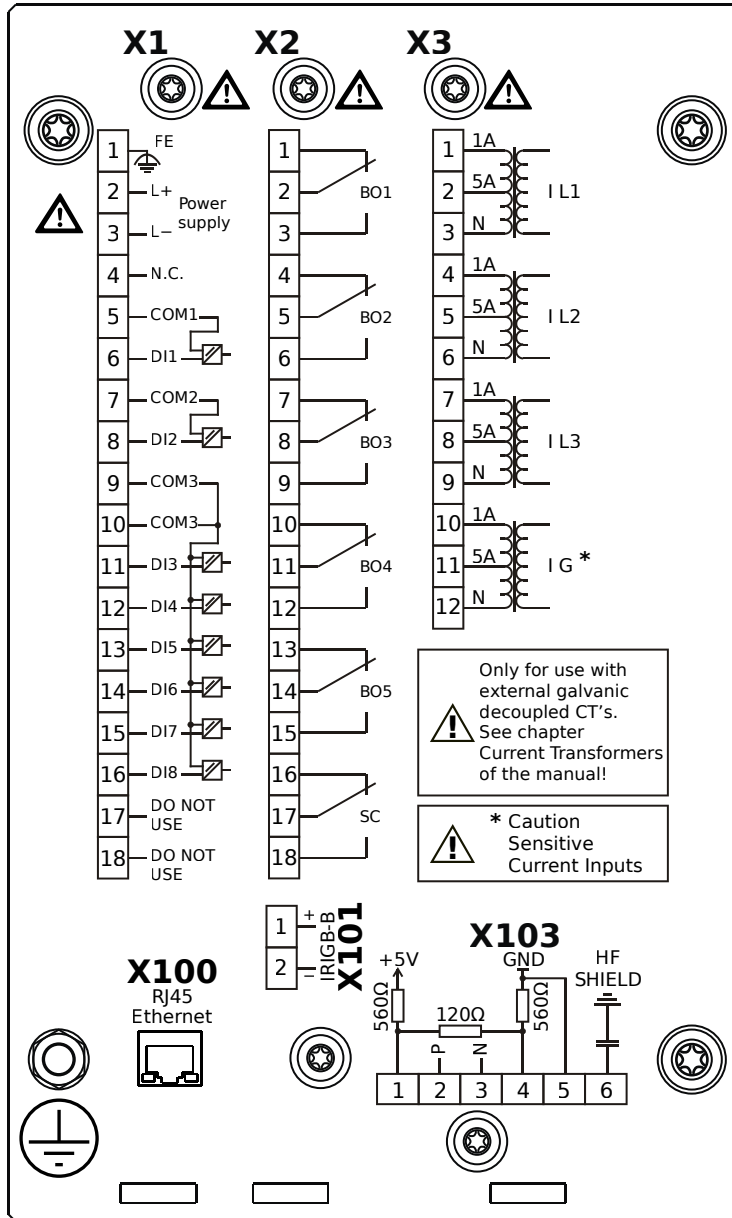
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X100 – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)

X101 – IRIG-B00X

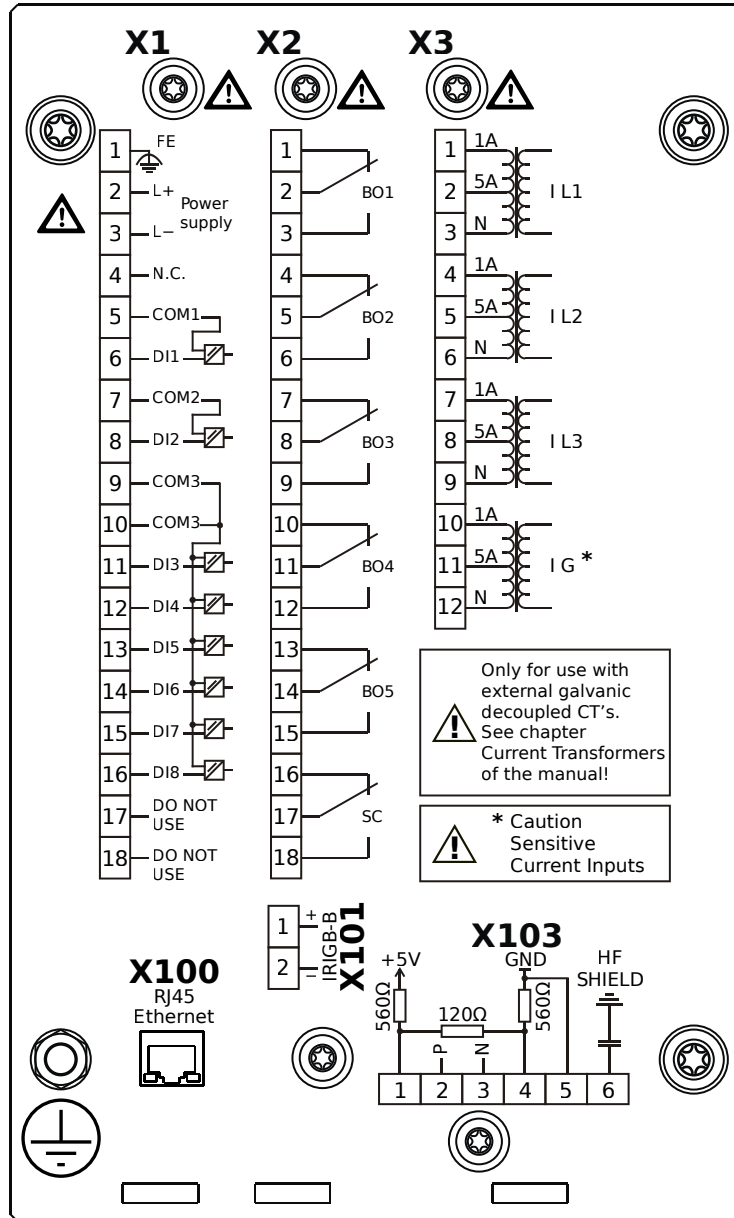
MRI4-2A1AIA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

MRI4-2A1AIB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

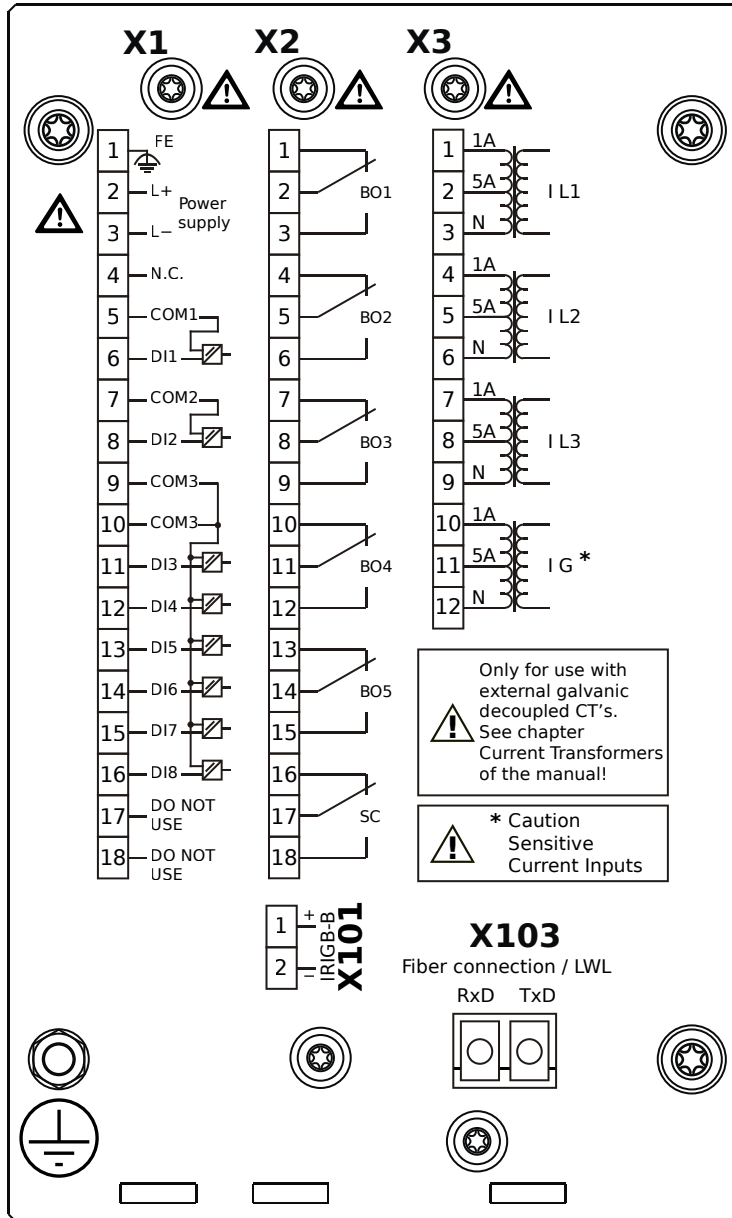
X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X100 – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)

X101 – IRIG-B00X

X103 – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

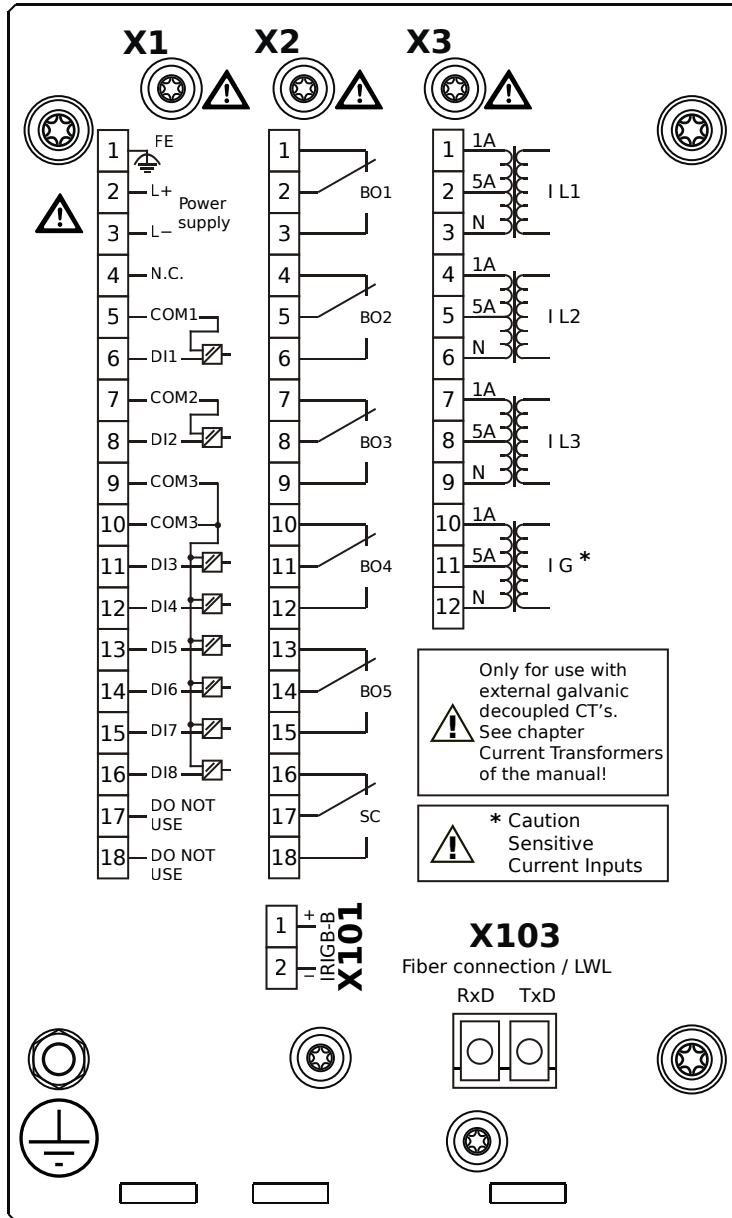
MRI4-2A1AKA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

MRI4-2A1AKB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

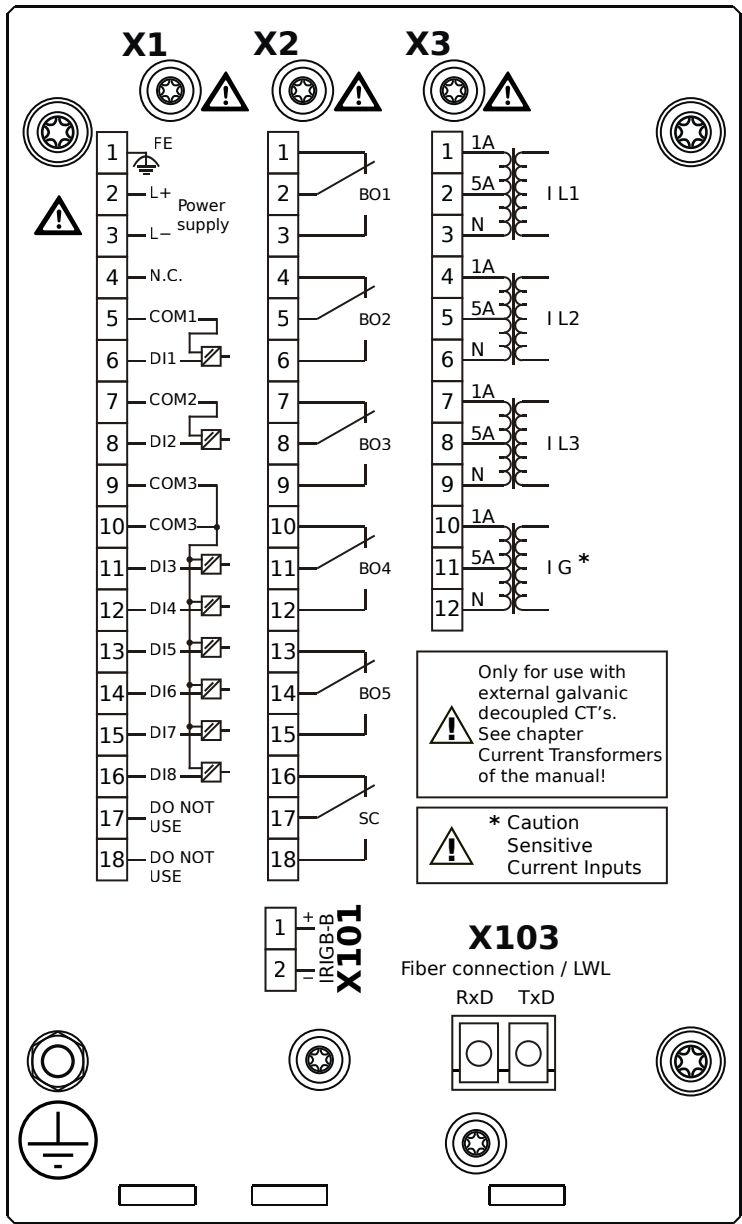
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

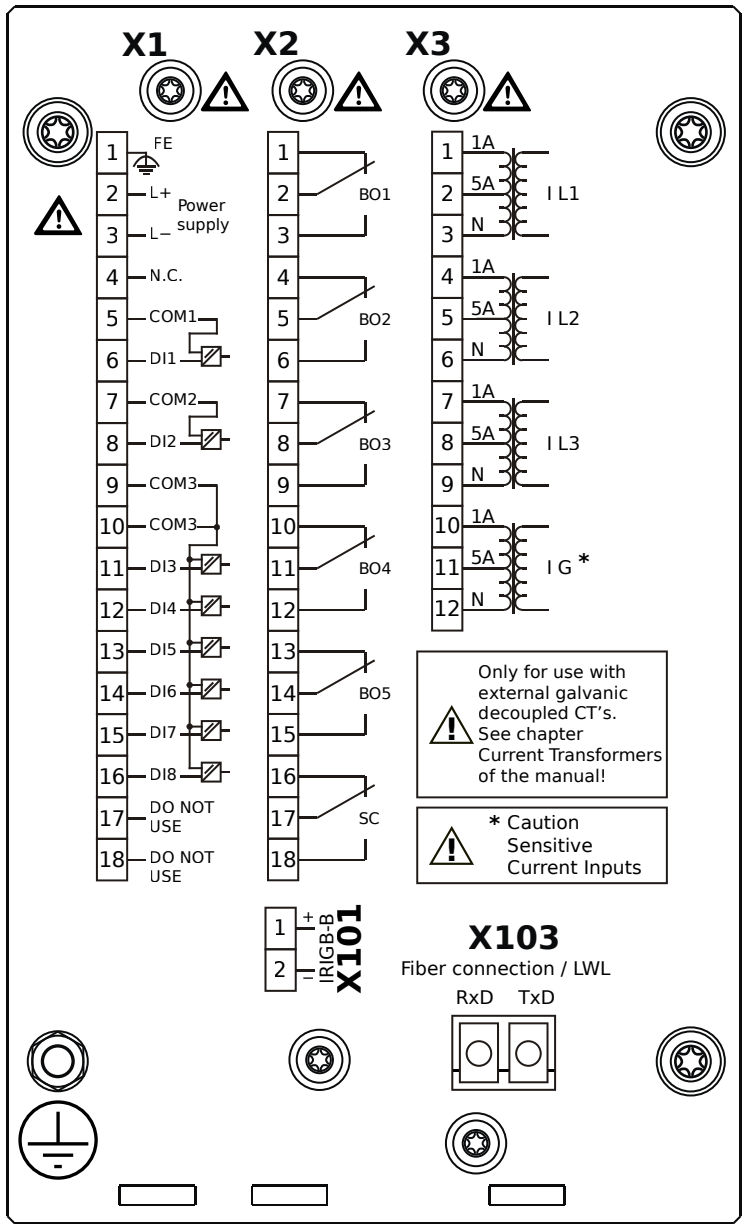
MRI4-2A1ALA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

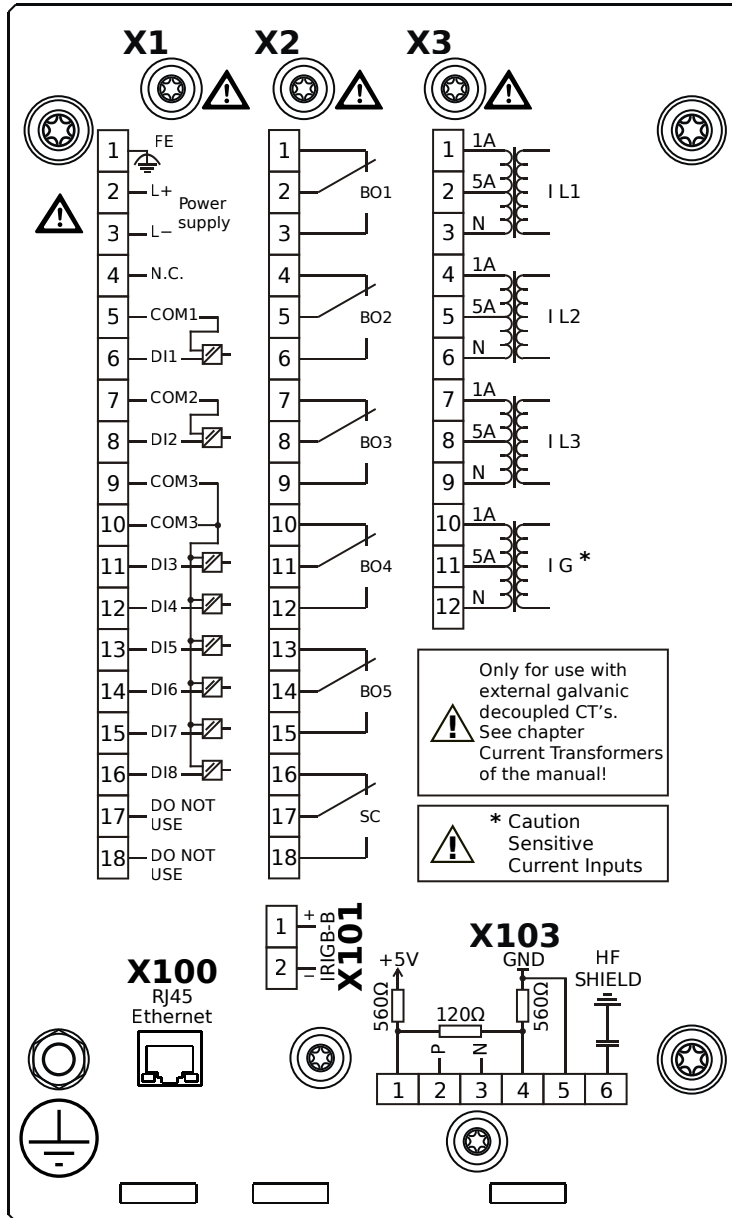
MRI4-2A1ALB



Housing B1, small display, door mounting

- + Conformal Coating (for installations in harsh environment)
- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

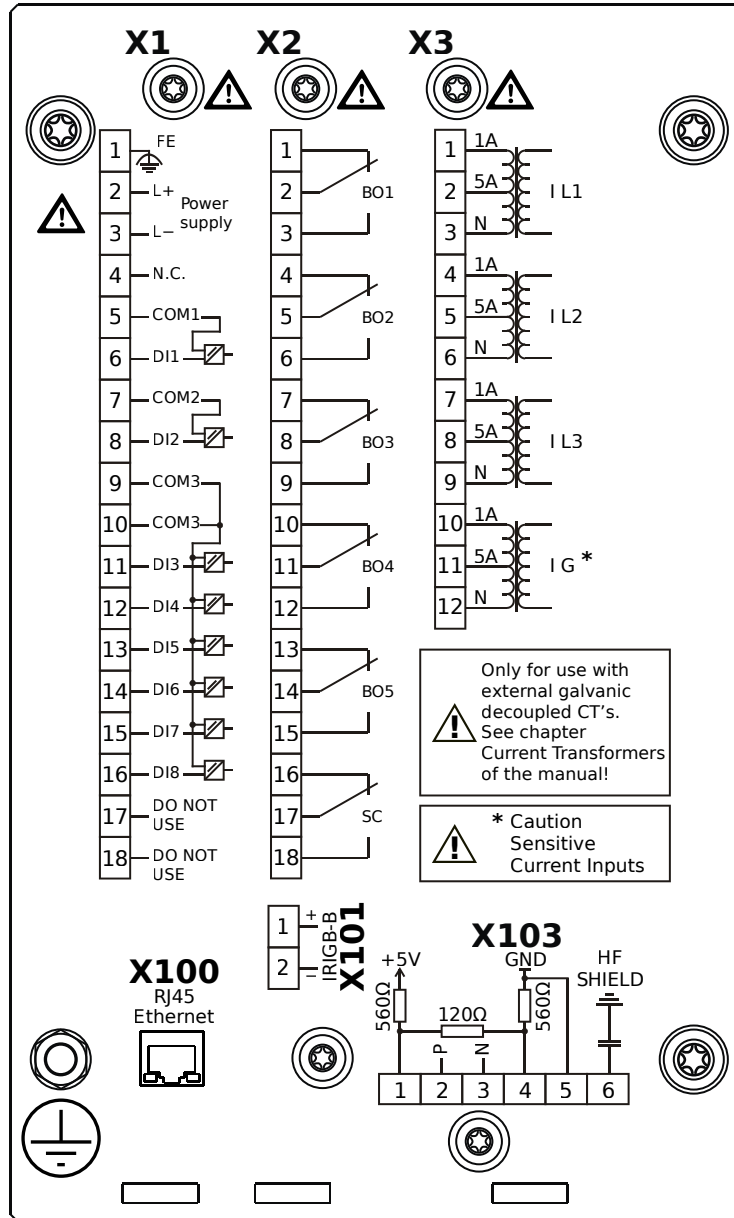
MRI4-2A1ATA



Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

MRI4-2A1ATB



Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

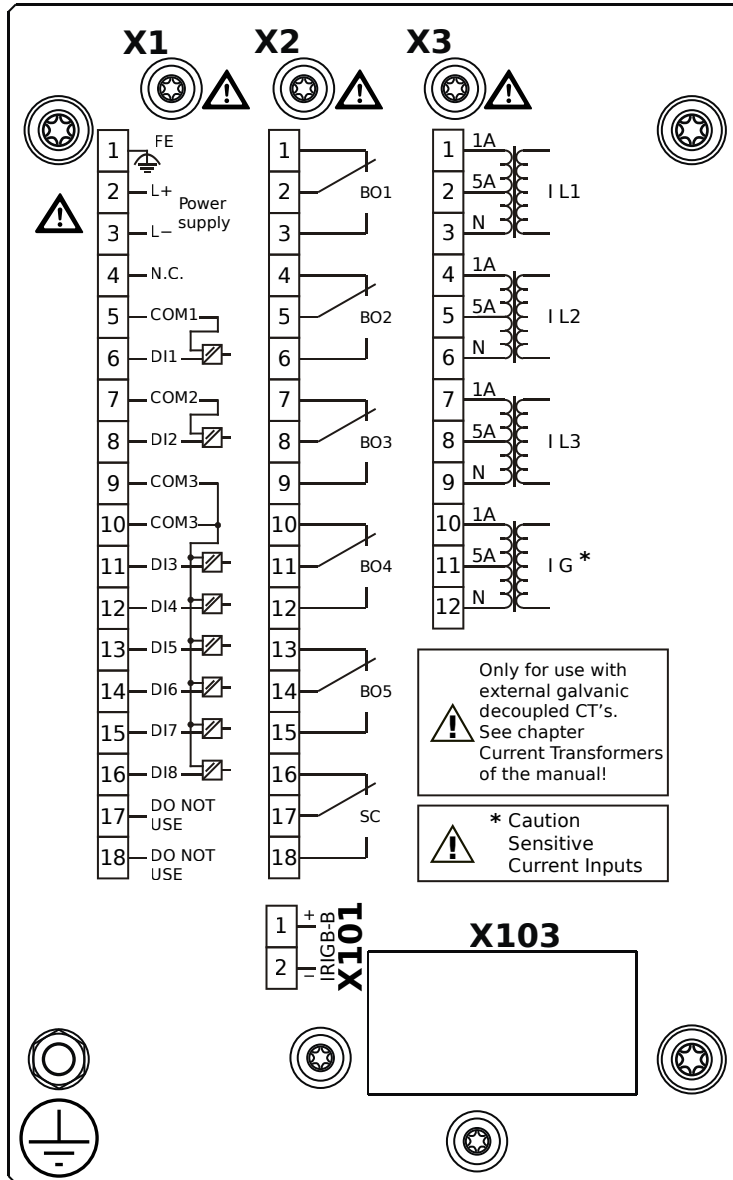
X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X100 – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)

X101 – IRIG-B00X

X103 – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

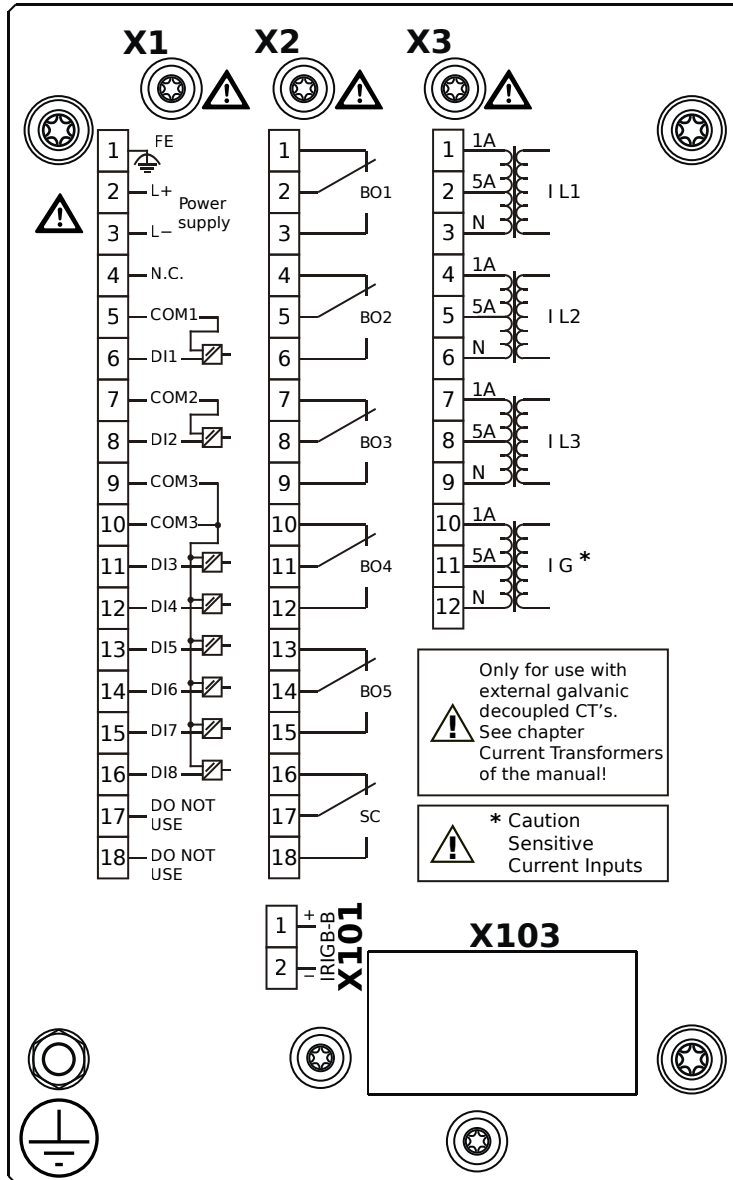
MRI4-2A1BAA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X

MRI4-2A1BAB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

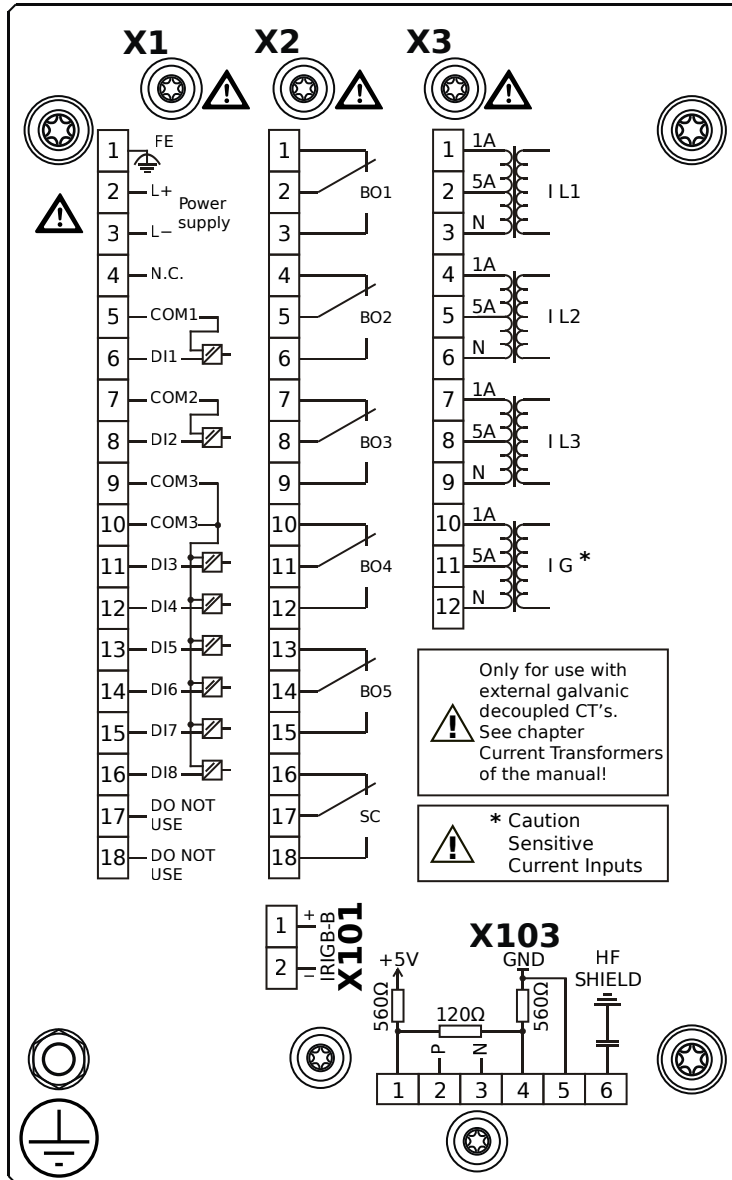
X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

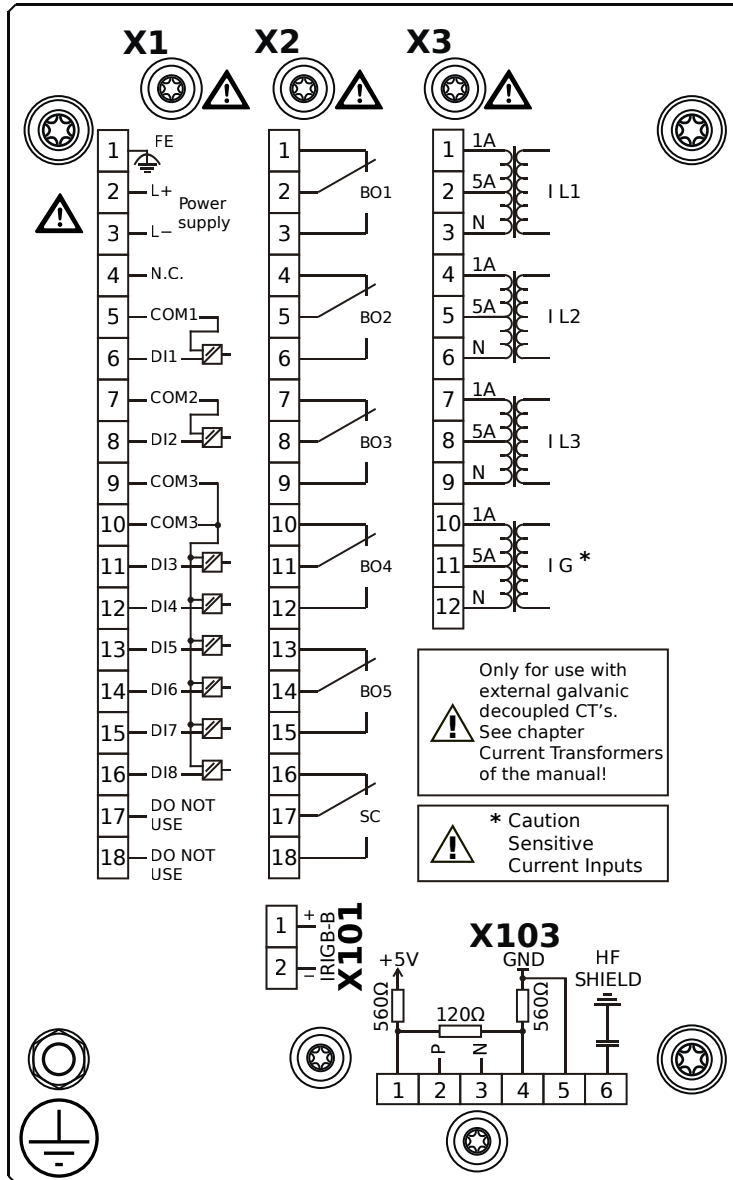
MRI4-2A1BBA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, Terminals

MRI4-2A1BBB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

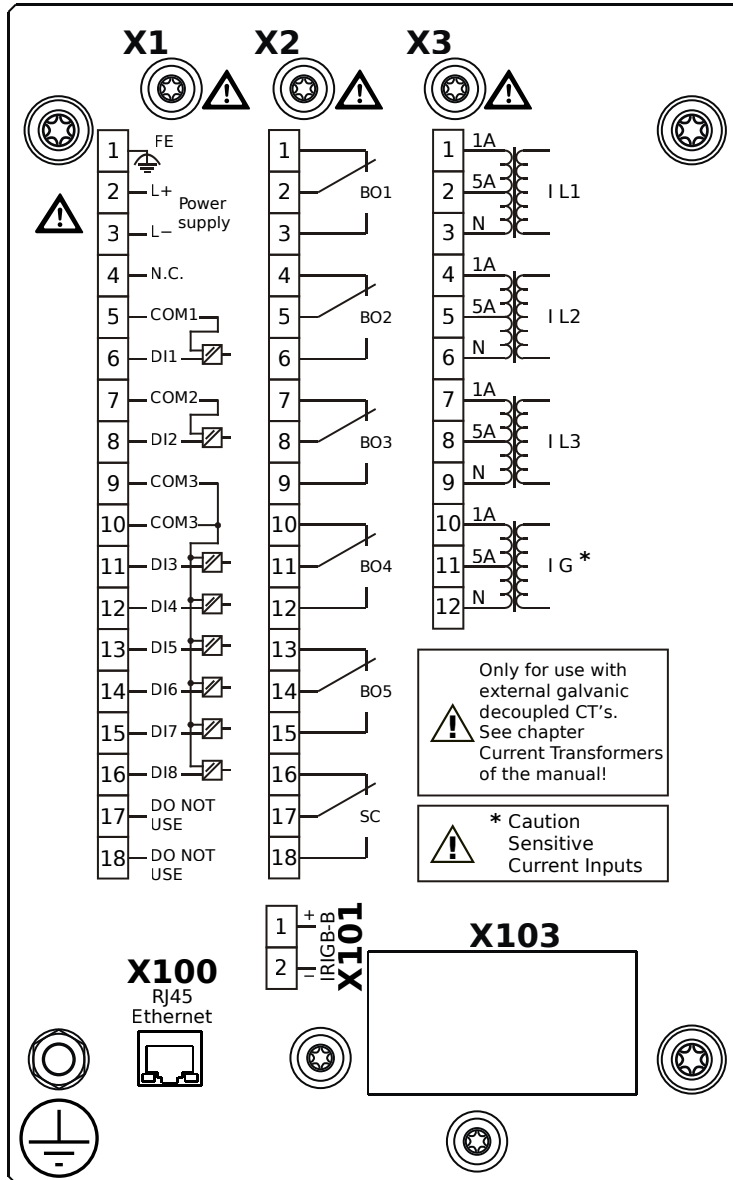
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, Terminals

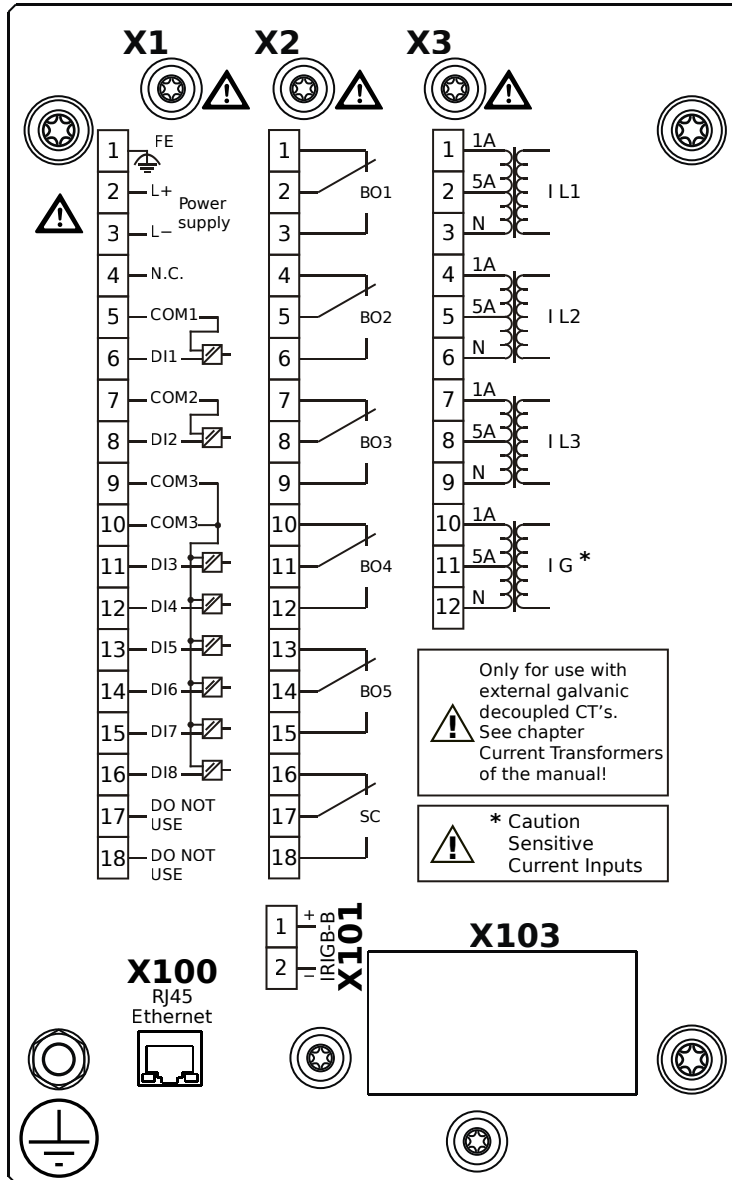
MRI4-2A1BCA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

MRI4-2A1BCB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

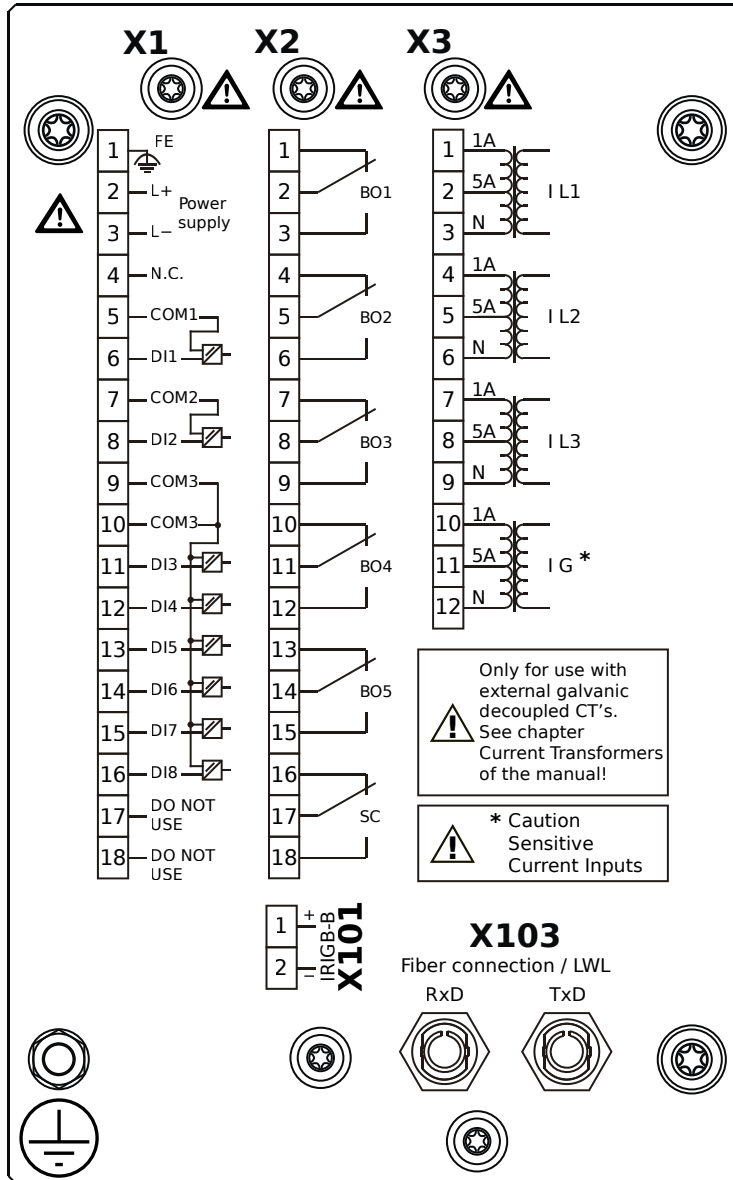
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X100 – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)

X101 – IRIG-B00X

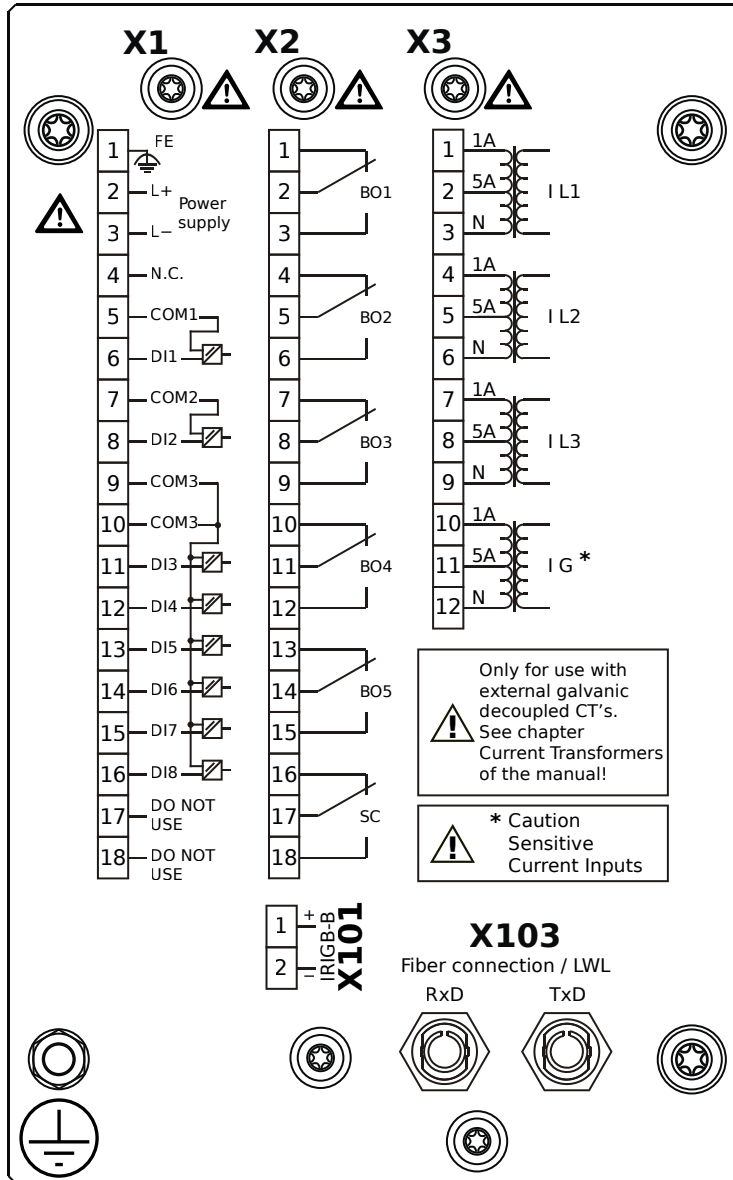
MRI4-2A1BDA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, Fiber optics interface, ST Connector

MRI4-2A1BDB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

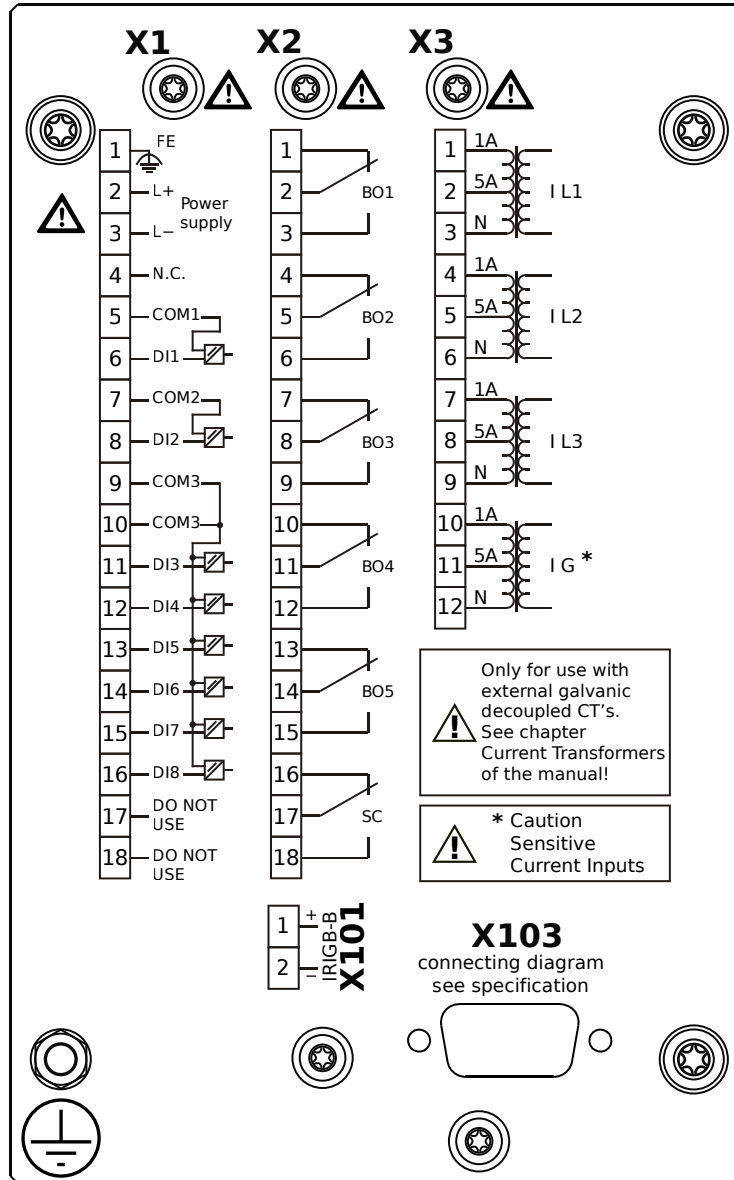
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Profibus-DP, Fiber optics interface, ST Connector

MRI4-2A1BEA



Housing B1, small display, 19" rack mounting

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

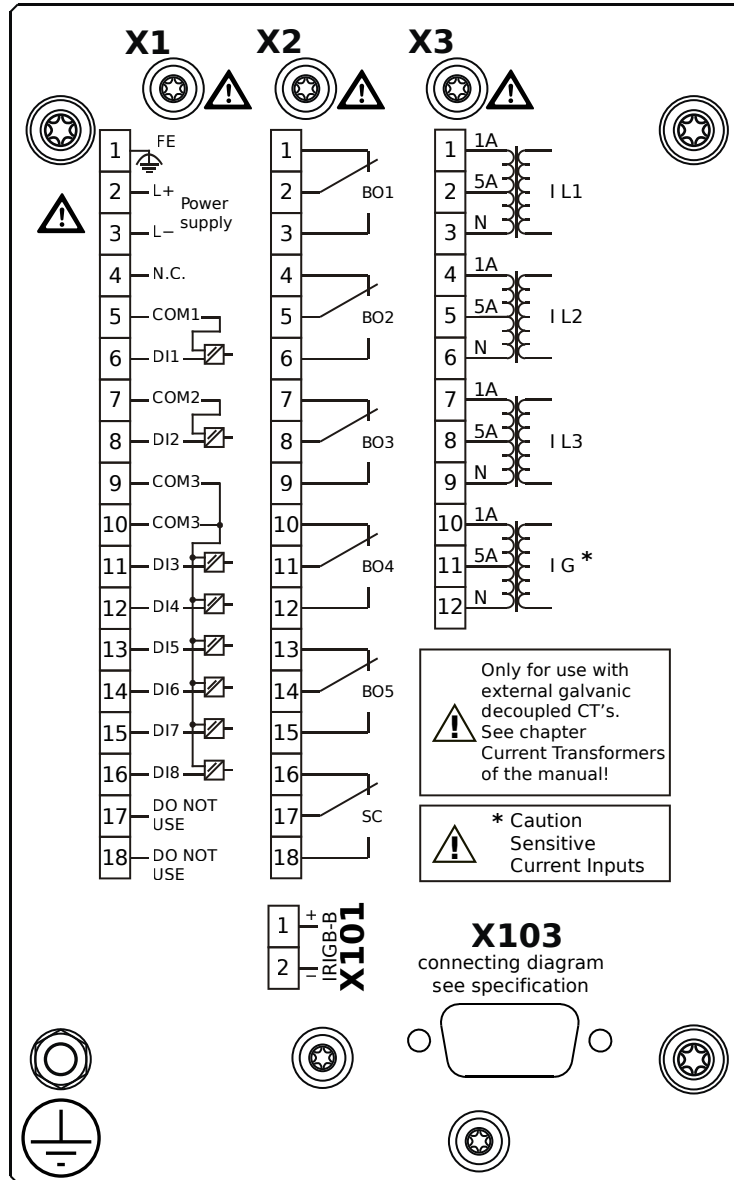
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Profibus-DP, RS485, D-SUB

MRI4-2A1BEB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

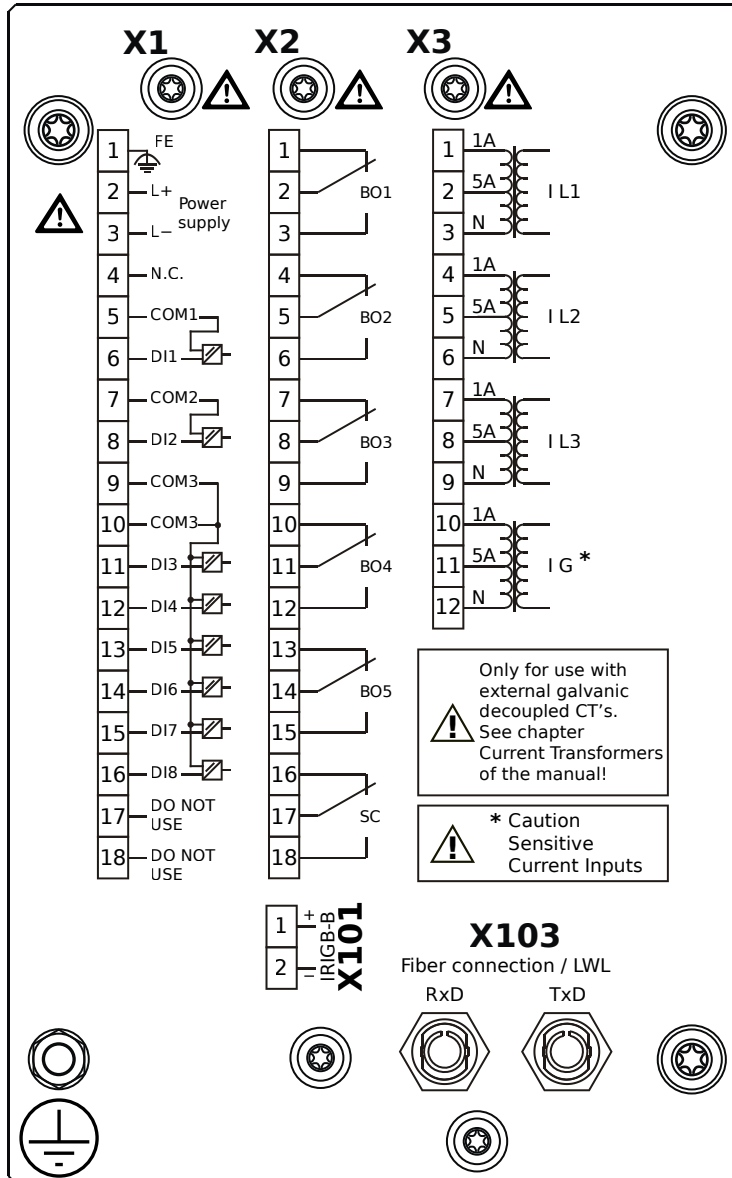
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Profibus-DP, RS485, D-SUB

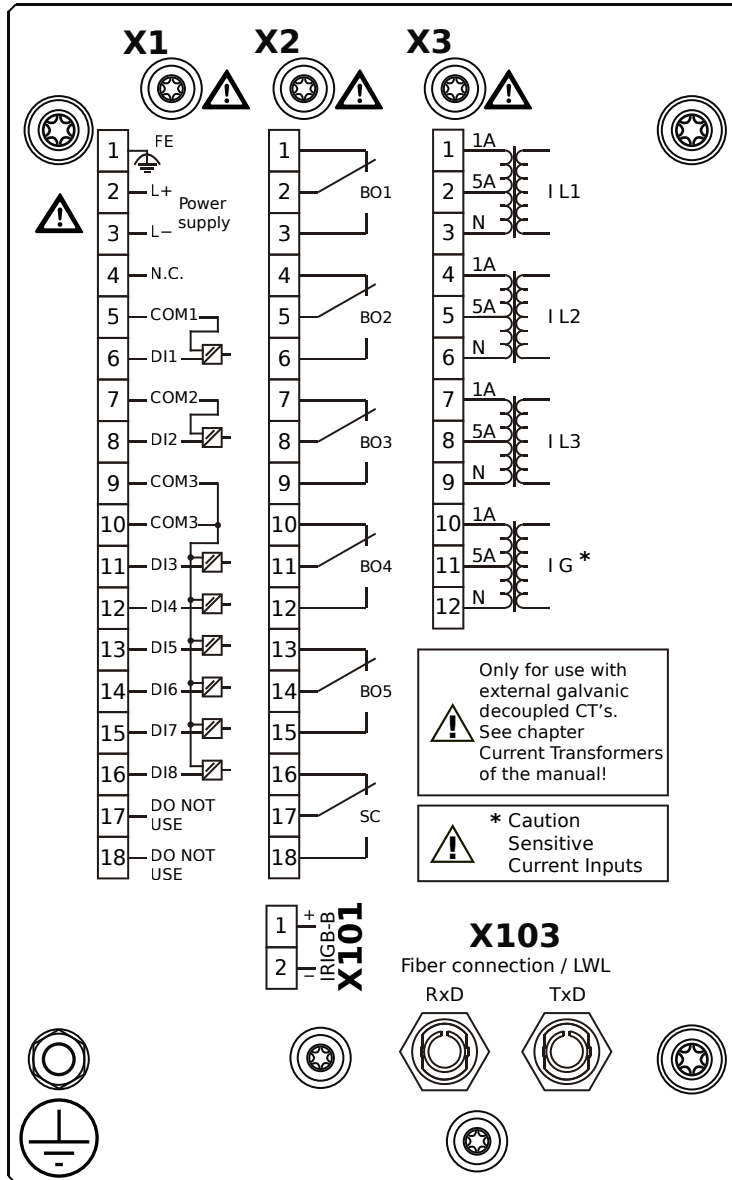
MRI4-2A1BFA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

MRI4-2A1BFB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

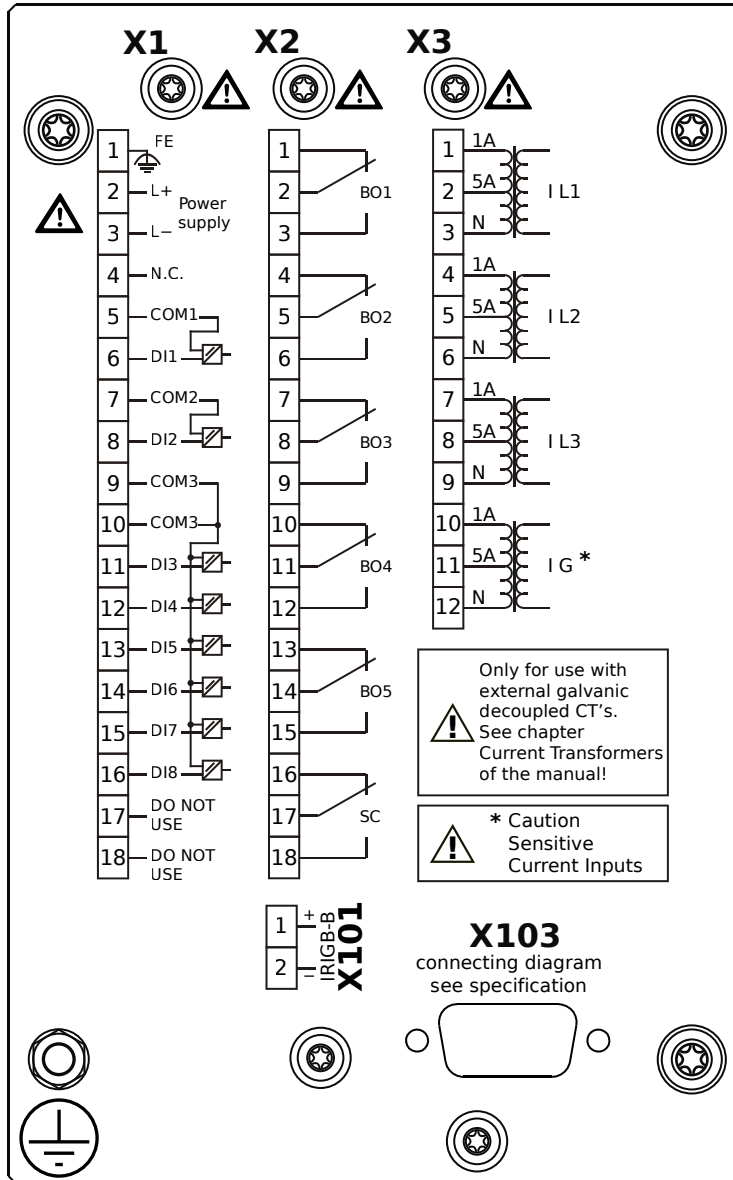
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

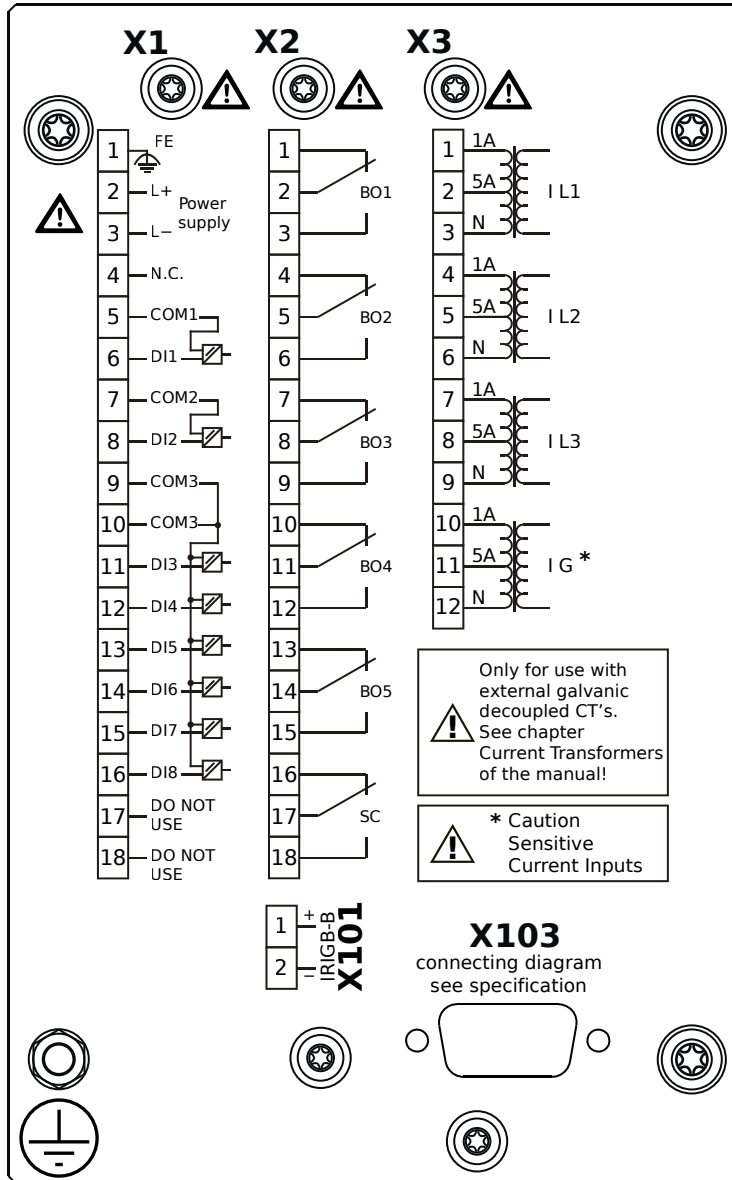
MRI4-2A1BGA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

MRI4-2A1BGB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

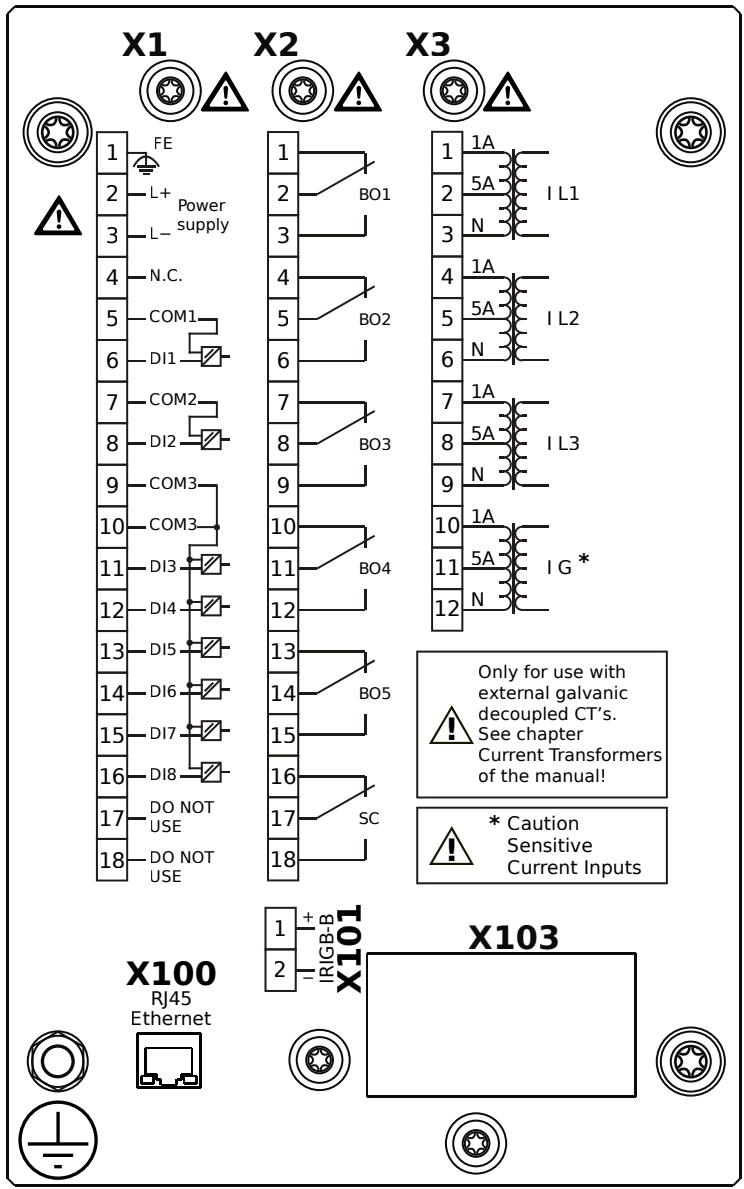
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

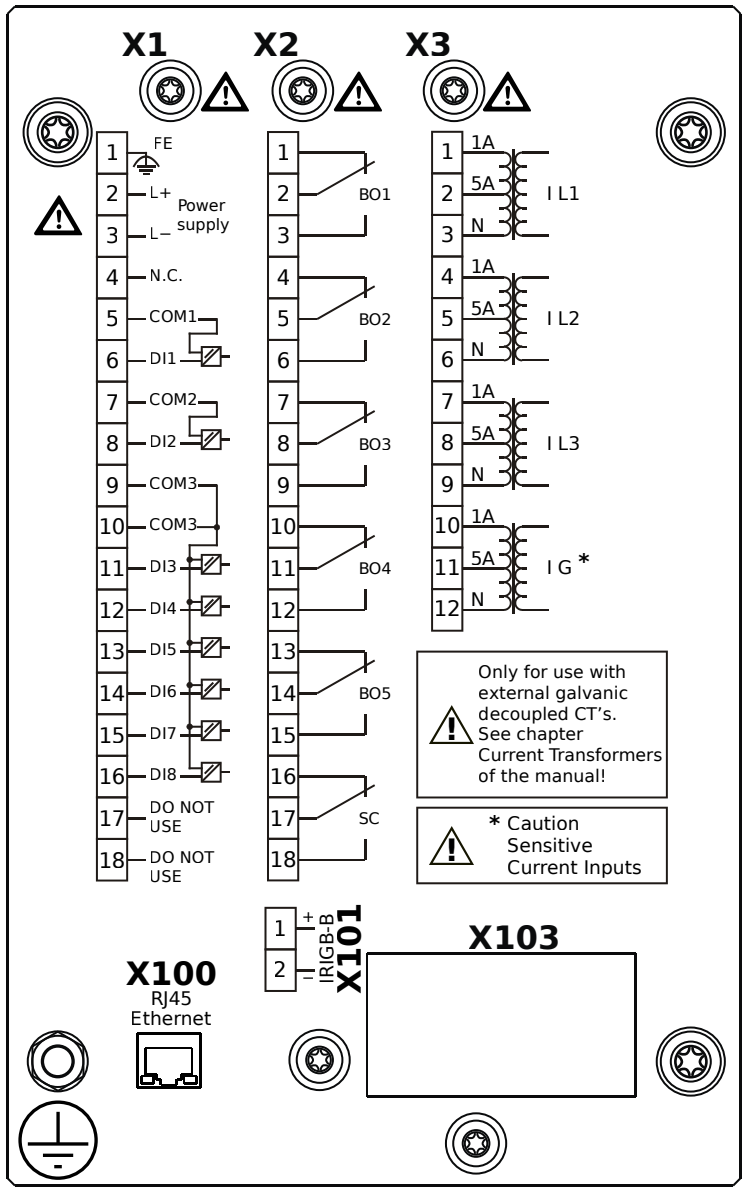
MRI4-2A1BHA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

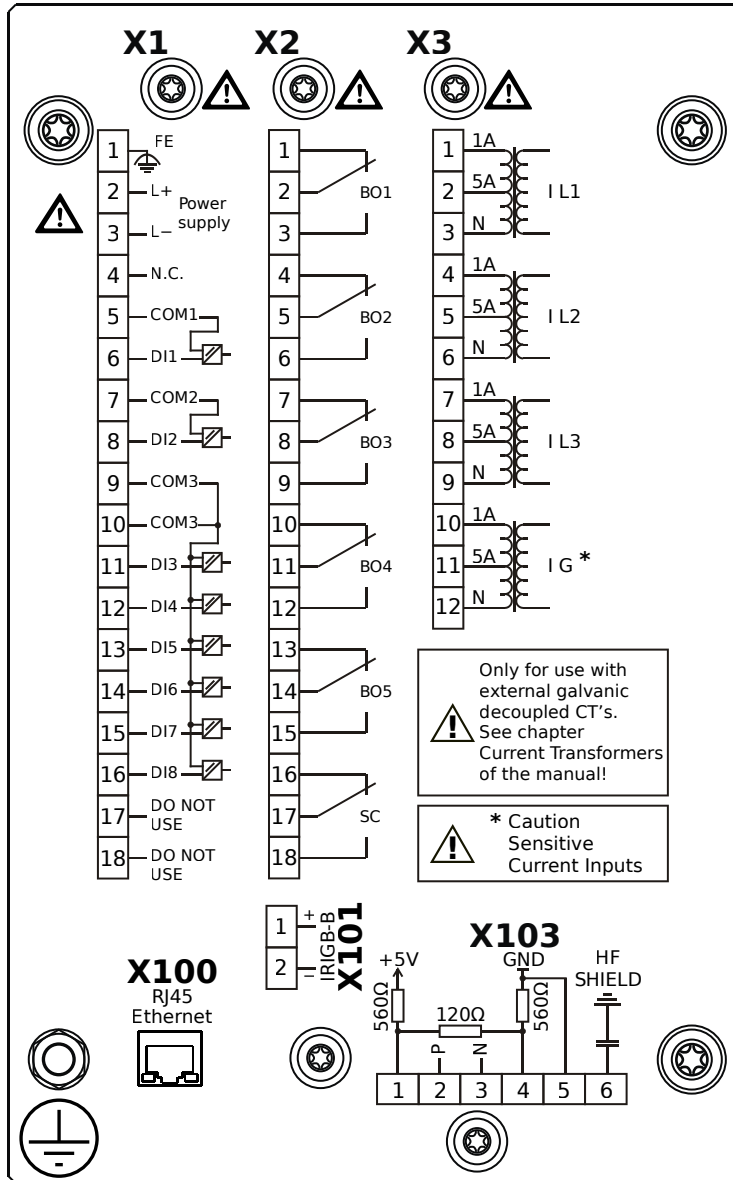
MRI4-2A1BHB



Housing B1, small display, 19" rack mounting

- + Conformal Coating (for installations in harsh environment)
- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

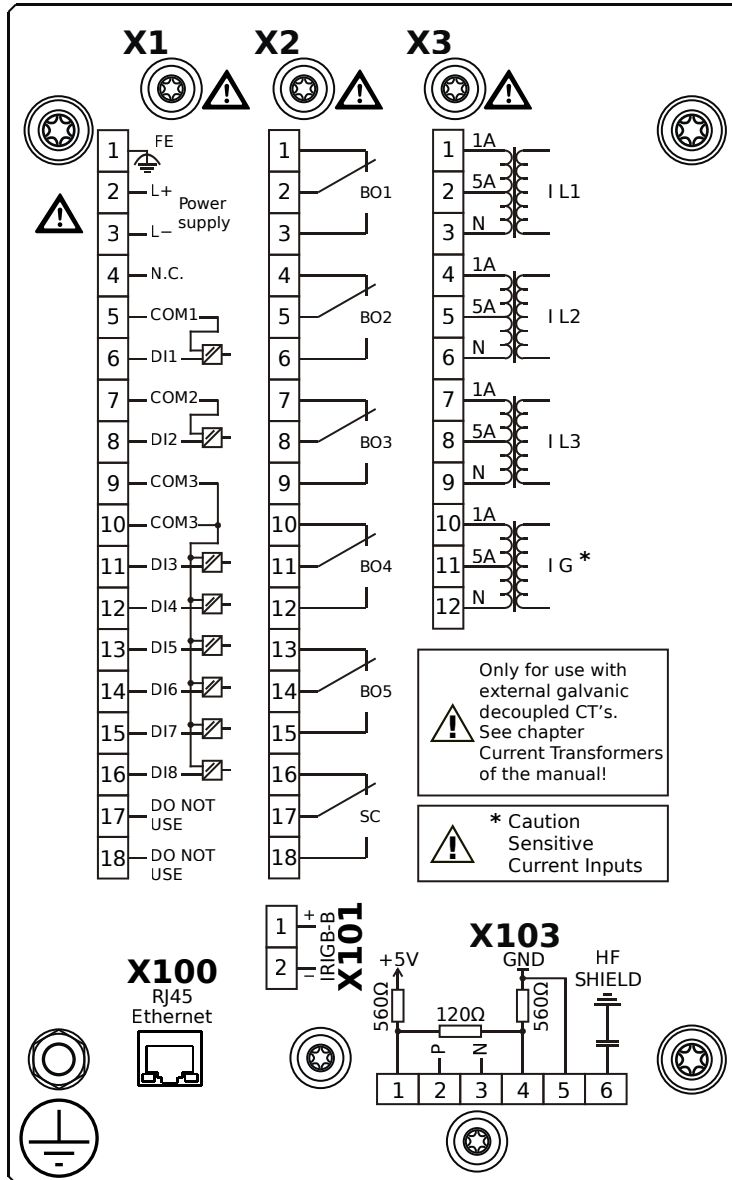
MRI4-2A1BIA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

MRI4-2A1BIB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

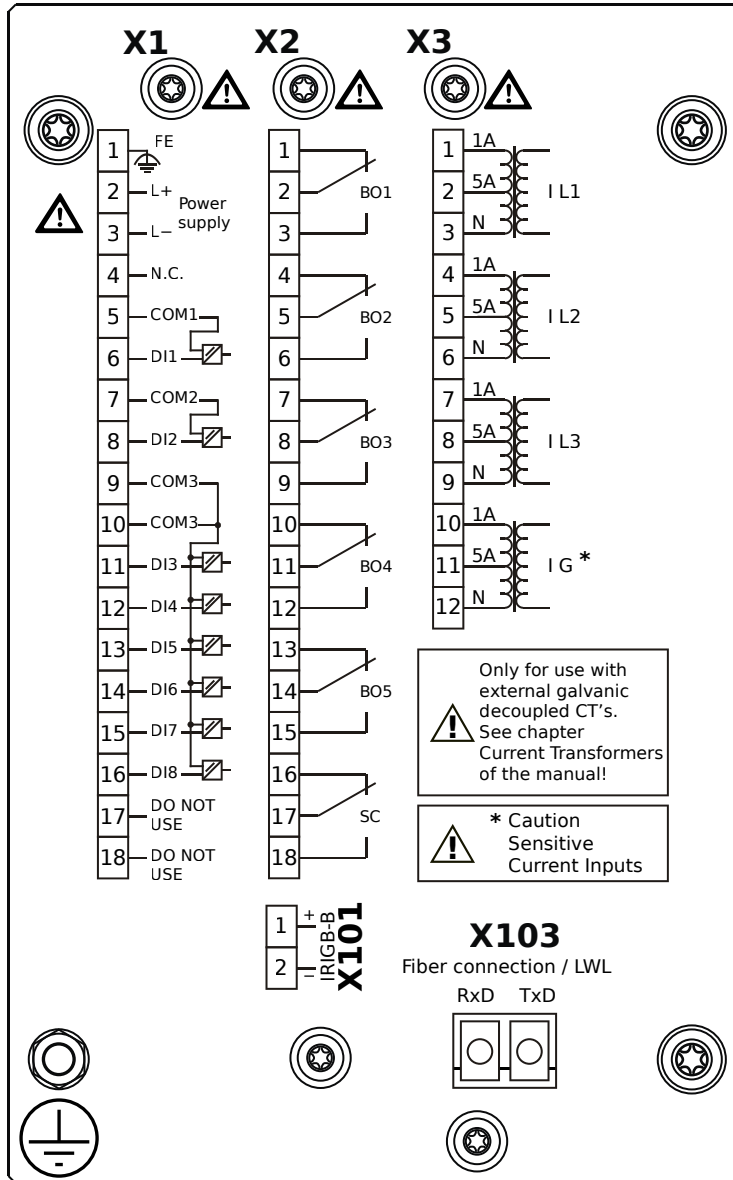
X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X100 – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)

X101 – IRIG-B00X

X103 – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

MRI4-2A1BKA



Housing B1, small display, 19" rack mounting

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

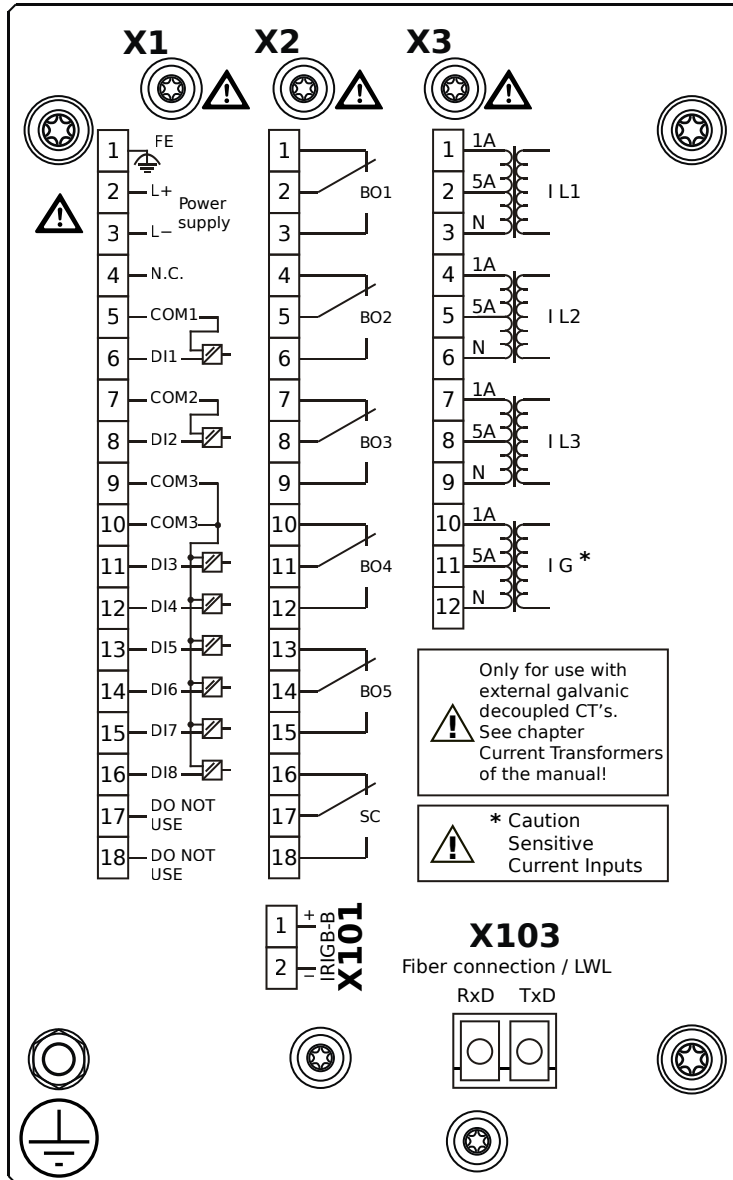
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

MRI4-2A1BKB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

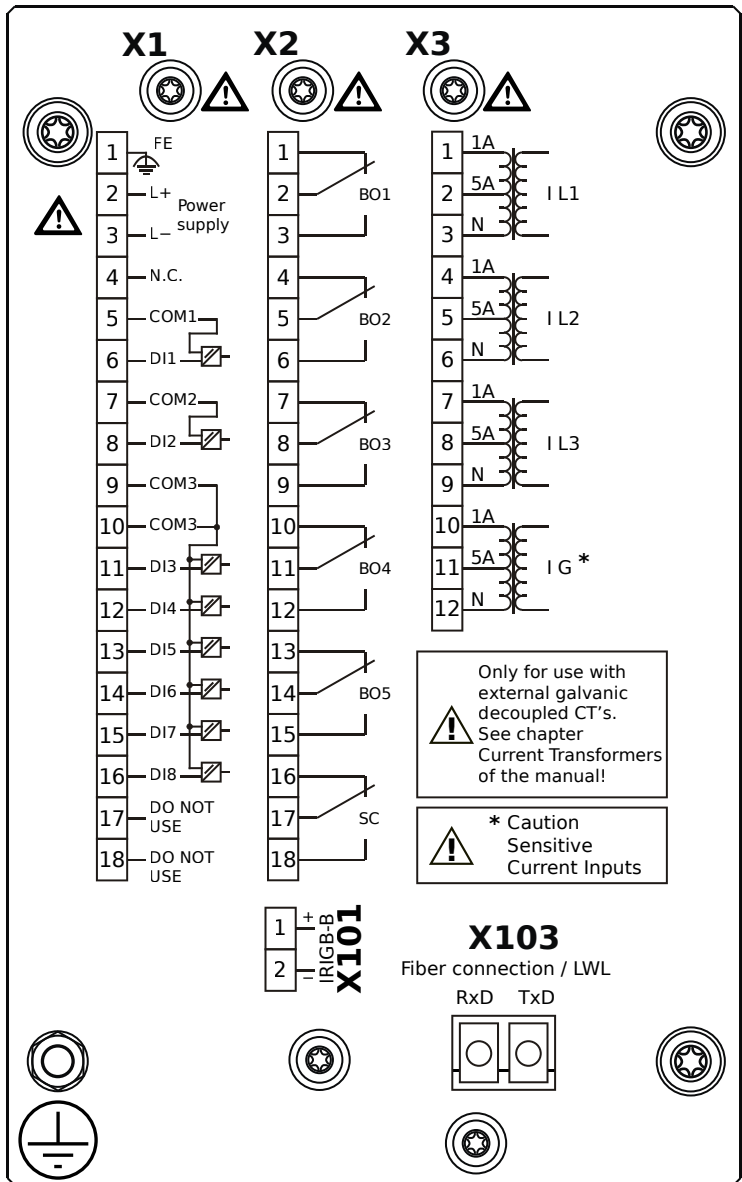
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

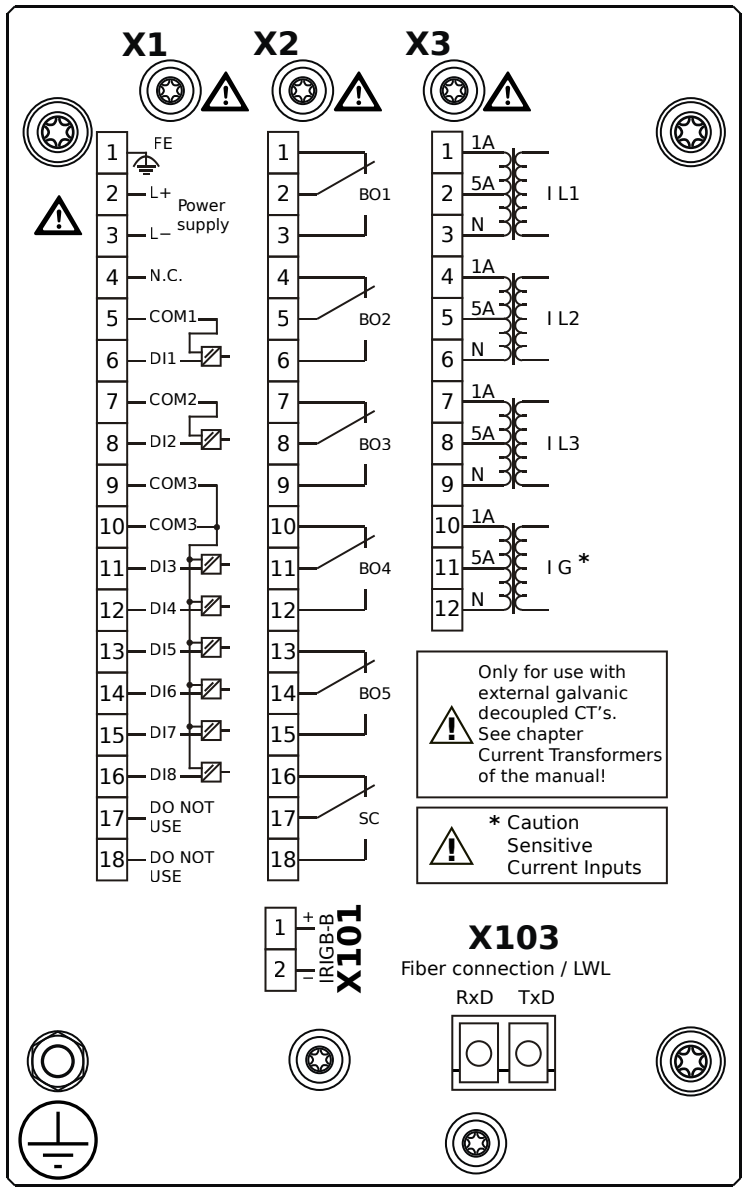
MRI4-2A1BLA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

MRI4-2A1BLB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

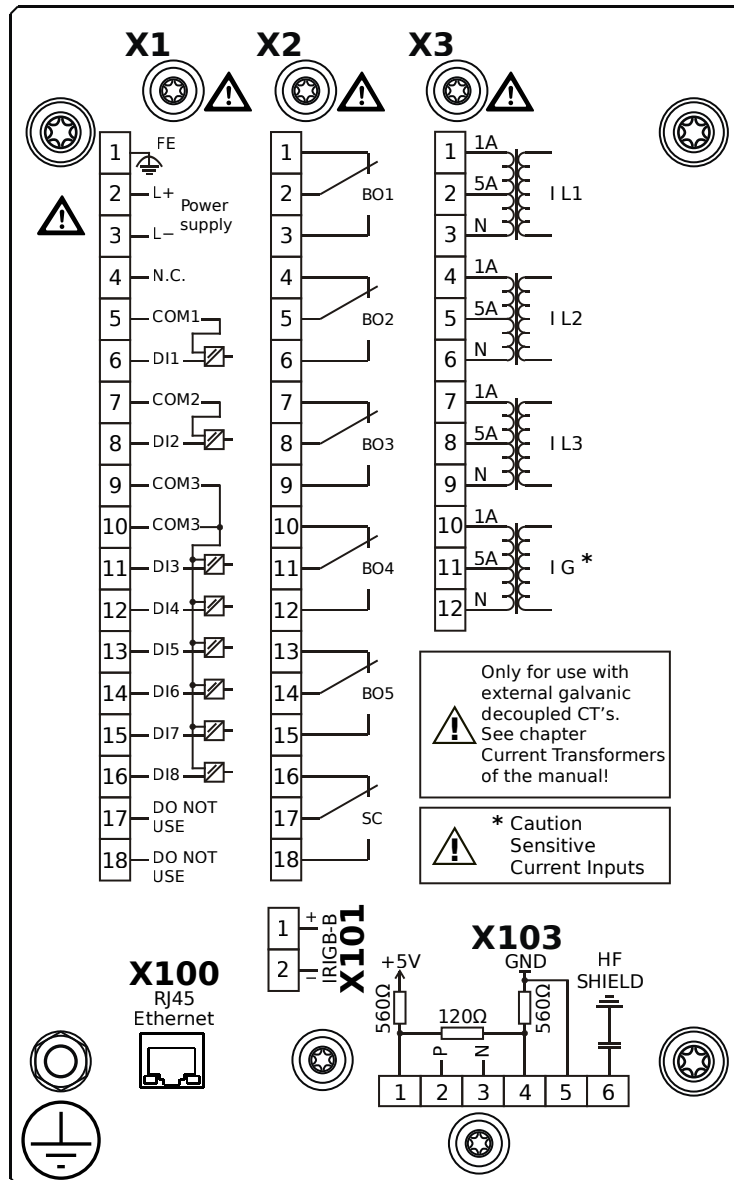
X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

X3 – TIs: Standard phase current measuring card and sensitive ground current measuring

X101 – IRIG-B00X

X103 – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

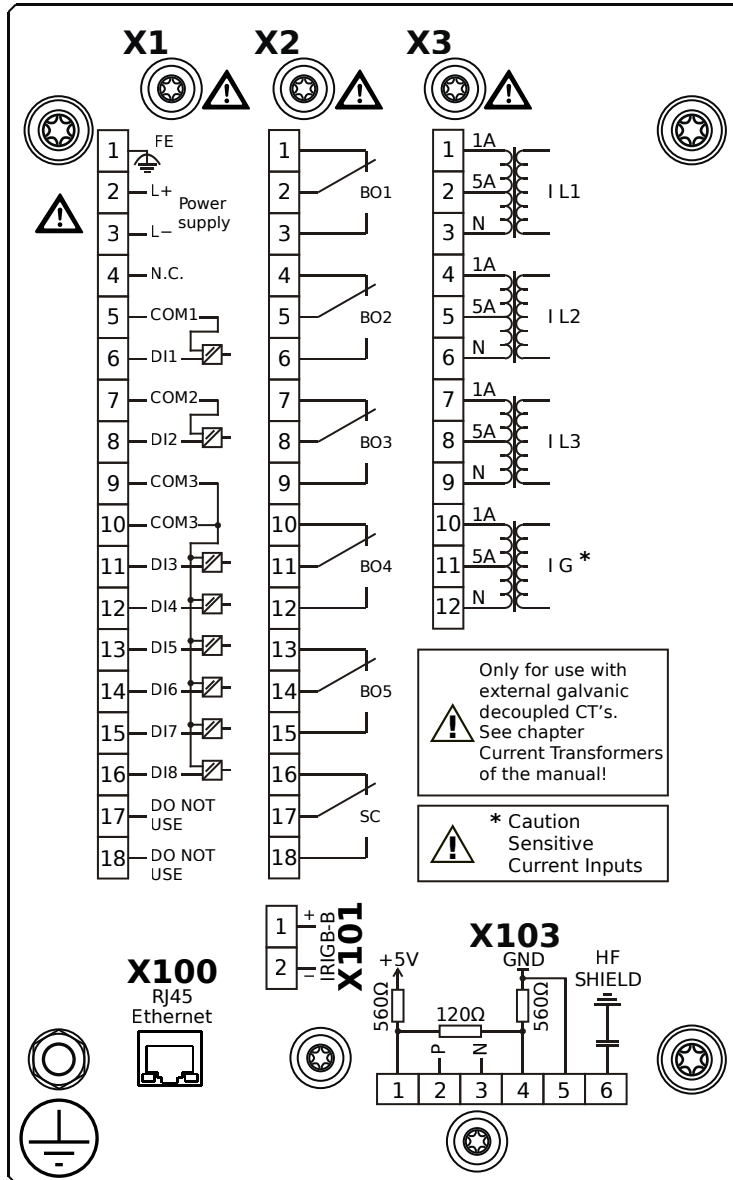
MRI4-2A1BTA



Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact
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- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

MRI4-2A1BTB



Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

X1 – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

X2 – OR5: Assembly Group with 5 Output Relays + 1 Supervision Contact

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X101 – IRIG-B00X

X103 – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

Appendix – Legend

In this legend designations of various device types are listed, e.g. transformer protection, motor protection, generator protection, etc. Therefore it can occur that not every designation actually appears on the wiring diagram of your device.

FE	– Connection of functional earth (see chapter Grounding in the Technical Manual).
Power Supply	– Connection for auxiliary power supply.
IL1	– Phase current input L1 (in some countries designated as IA).
IL2	– Phase current input L2 (in some countries designated as IB).
IL3	– Phase current input L3 (in some countries designated as IC).
IG	– Earth current input.
IL1 W1 ... IL3 W1	– Phase current input L1...L3, winding side 1.
IL1 W2 ... IL3 W2	– Phase current input L1...L3, winding side 2.
IG W1, IG W2	– Earth current input, winding side 1 / 2.
VL1	– Phase-to-neutral voltage L1 (in some countries designated as VA).
VL2	– Phase-to-neutral voltage L2 (in some countries designated as VB).
VL3	– Phase-to-neutral voltage L3 (in some countries designated as VC).
VL12	– Phase-to-phase voltage V12 (in some countries designated as VAB).
VL23	– Phase-to-phase voltage V23 (in some countries designated as VBC).
VL31	– Phase-to-phase voltage V31 (in some countries designated as VCA).
VX	– 4th voltage measuring input for measuring residual voltage or synchro-check.
BO	– Binary output relay.
NO / NC	– Contact output, normally open (Form A) / closed (Form B).
DI	– Digital input.
COM	– Common connection of digital inputs.
Out+, AnOut	– Analog output + (0/4...20 mA or 0...10 V).
In–, AnIn	– Analog input + (0/4...20 mA or 0...10 V).
n.c.	– Not connected.
DO NOT USE	– Do not use. (Caution: Non-usable internal wiring may exist.)
SC	– Self-supervision contact.
HF SHIELD	– Connection cable shield.
Fiber Optics / LWL	– Fiber optic connection.

High PROTEC

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