EMI Meter Series

The most flexible way to measure energy



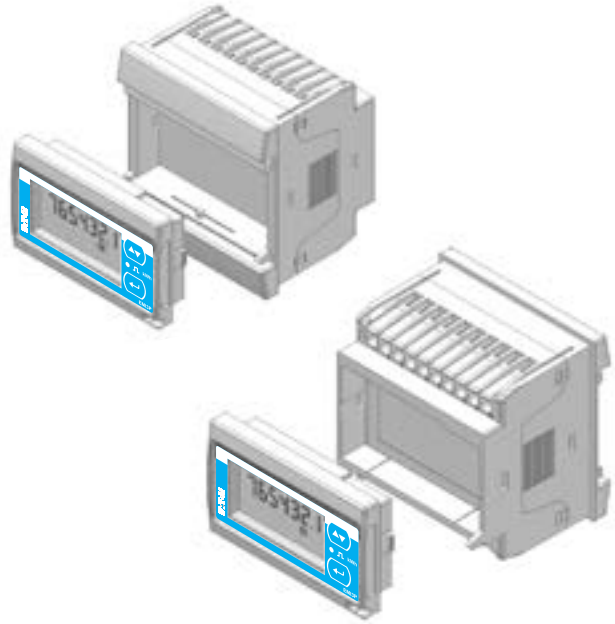
Powering Business Worldwide

Measurement is the basis for every energy management system. This is why Eaton offers you the most flexible way to measure energy.

The intelligent design of the EMI meter series offers absolute flexibility through the possibility of double assembly. This means, that the removable display can be used on both sides, front and back. Advantageously, the meter can be mounted on a DIN rail or in a control panel with the dimensions 72x72 mm and 96x96 mm (optional cover).

Even more flexibility is achieved in combination with the new Rogowski coil series. Ideal for retrofitting into existing systems, these air coils offer many advantages over conventional current transformers. The Rogowski coils are connected directly to the meter without the need for an intermediate amplifier.

Current transformers with a secondary current of 1 A or 5 A can also be used. Eaton's T-Line current transformers provide a range from 30 A to 5000 A with accuracy classes from 0,2s to 3. Further information can be found at **www.eaton.com/meter.**







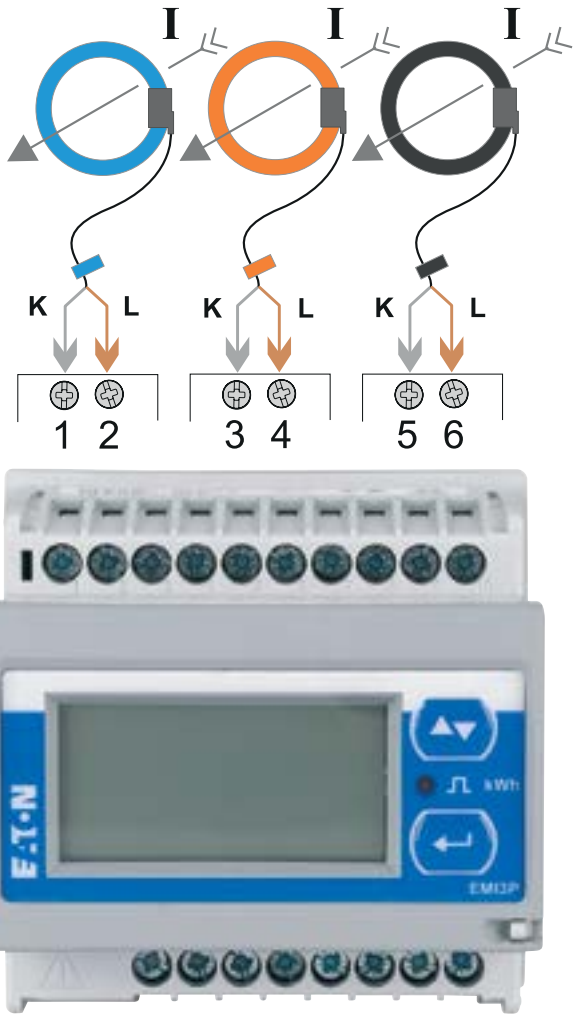
Tailored to the needs of mechanical engineering for maximum flexibility, with benefits that are useful in all industries:

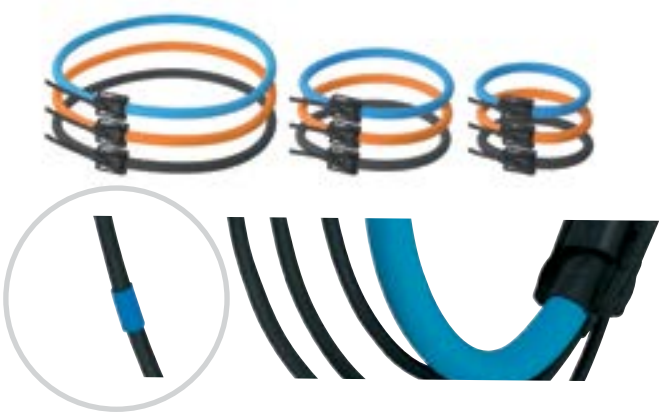
- DIN-Rail and Panel mounting (72x72 mm & 96x96 mm)
- CE and cULus certified
- Modbus RTU and Pulse Output
- For Rogowski Coils or 1/5A Current Transformers
- THD up to 15th harmonics
- Accuracy Class 1 for active energy according to EN62053-21
- Standard meter functions: W, var, PF, Hz, Phase-sequence,…
- Several ways to prevent unwanted access, such as entering a PIN code, locking the display on the back of the display, or removing the display.

Type/Article Numbers	Description
EMI3P-Y2C0	Energy Meter for 1/5 A Current Transformers
EMI3P-Y2R0	Energy Meter for Rogowski Coils
EMI3P-ROG4-4 kA	EMI3P Rogowski coils with 400 mm length
EMI3P-ROG6-4 kA	EMI3P Rogowski coils with 600 mm length
EMI3P-ROG9-4 kA	EMI3P Rogowski coils with 900 mm length
EMI3P-ADAPTER96	Adapter 96 mm x 96 mm
EMI3P-DISPLAY	Spare Display for EMI3P Meter

Rogowski air coils are characterized by their flexibility, adaptability and electromagnetic immunity. Useful features for any type of installation:

- Measuring range from 20 A to 4 000 A with a single coil
- Accuracy of ±1% and Linearity of ±0.2%
- For single cables, cable bundles or high capacity busbars
- The absence of ferromagnetic cores eliminates magnetic interference
- Quick and easy installation with unique click connectors
- Direct connection to EMI3P-Y2R0 without additional integrator
- Cat. IV (600 V) and Cat. III (1000 V)
- 3 different sizes and colors with color indication on connection side
- CE and cULus certified

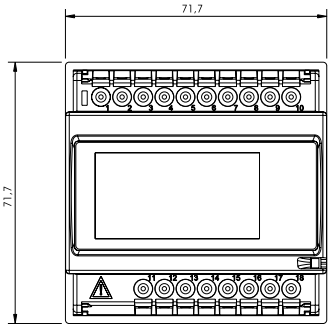


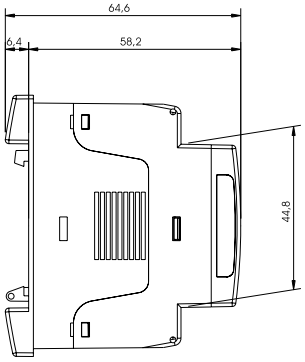


EMI3P-ROG4-4 kA with 400 mm length for **cable diameters up to 115 mm**
EMI3P-ROG6-4 kA with 600 mm length for **cable diameters up to 179 mm**
EMI3P-ROG9-4 kA with 900 mm length for **cable diameters up to 275 mm**

Dimensions

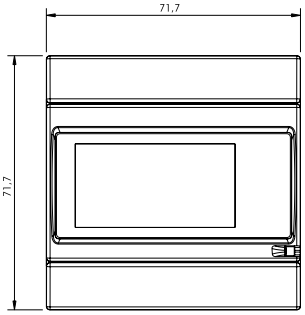
DIN configuration

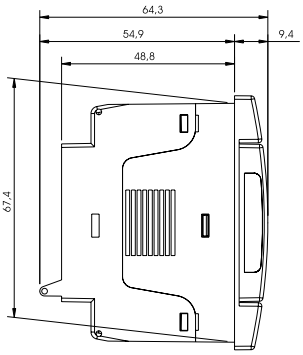


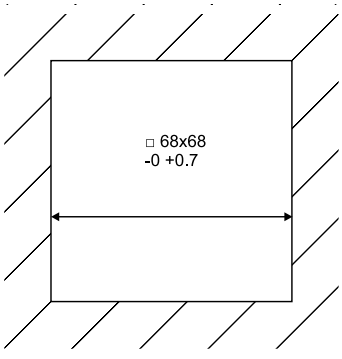


Dimensions and panel cut out

(72x72 panel mounting configuration)



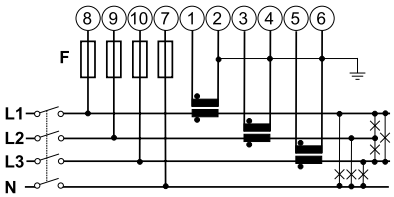




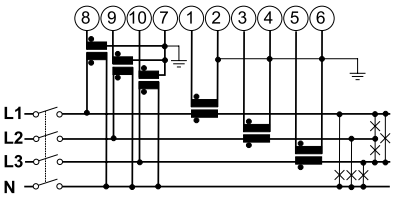
Wiring diagrams

(6A) Self power supply, system type selection: 3P.n

3-ph, 4-wire, unbalanced load **Fig. 1**
3-CT connection

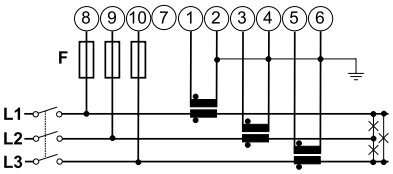


3-ph, 4-wire, unbalanced load **Fig. 2**
3-CT and 3-VT/PT connections

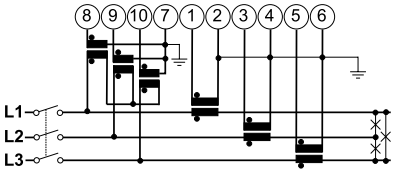


(6A) System type selection: 3P

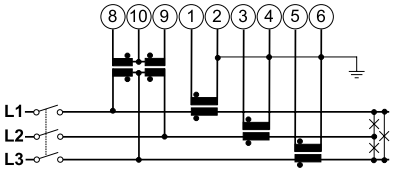
3-ph, 3-wire, unbalanced load **Fig. 3**
3-CT connection



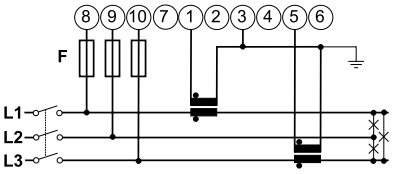
3-ph, 3-wire, unbalanced load **Fig. 4**
3-CT and 3-VT/PT connections



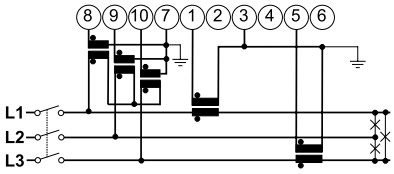
3-ph, 3-wire, unbalanced load **Fig. 5**
3-CT and 2-VT/PT connections



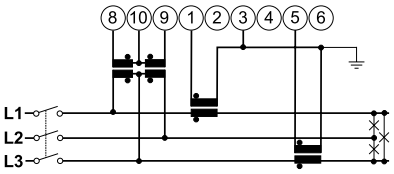
3-ph, 3-wire, unbalanced load **Fig. 6**
2-CT connections (ARON)



3-ph, 3-wire, unbalanced load **Fig. 7**
2-CT and 3-VT/PT connections ARON

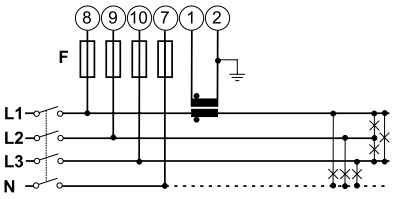


3-ph, 3-wire, unbalanced load **Fig. 8**
2-CT and 2-VT/PT connections ARON



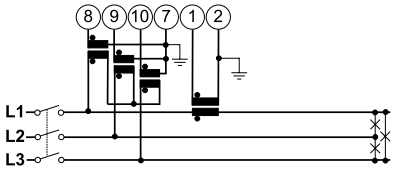
(6A) Self power supply, system type selection: 3P.1

3-ph, 3/4-wire, balanced load **Fig. 9**
1-CT connection

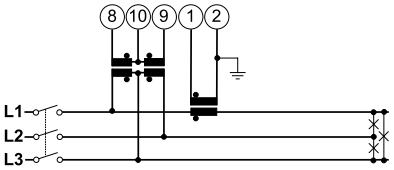


N connection is optional.
NOTE: in the calculations, it is considered only the voltage relevant to L1

3-ph, 3-wire, balanced load **Fig.10**
1-CT and 3-VT/PT connections

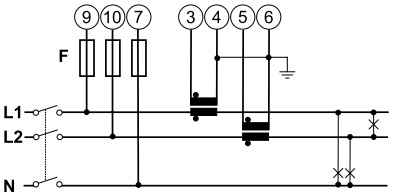


3-ph, 3-wire, balanced load **Fig.11**
1-CT and 2-VT/PT connections

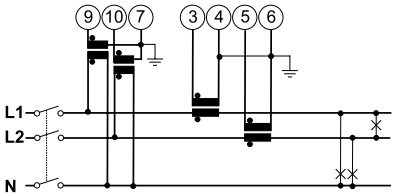


(6A) System type selection: 2P

2-ph, 3-wire **Fig.12**
2-CT connection

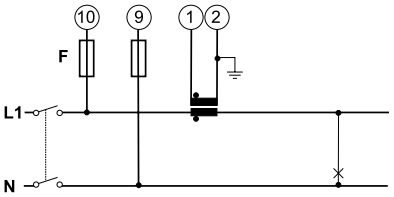


2-ph, 3-wire **Fig.13**
2-CT and 2-VT/PT connections



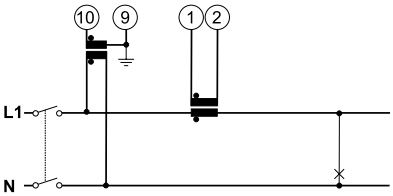
(6A) System type selection: 1P

1-ph, 2-wire **Fig.14**
1-CT connection



(6A) System type selection: 1P

1-ph, 2-wire **Fig.15**
1-CT and 1-VT connections



For more information contact https://www.eaton.com/us/en-us/support/international-support-contacts.html
or visit http://eaton.com/meter. For technical questions please contact your local Eaton team.

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