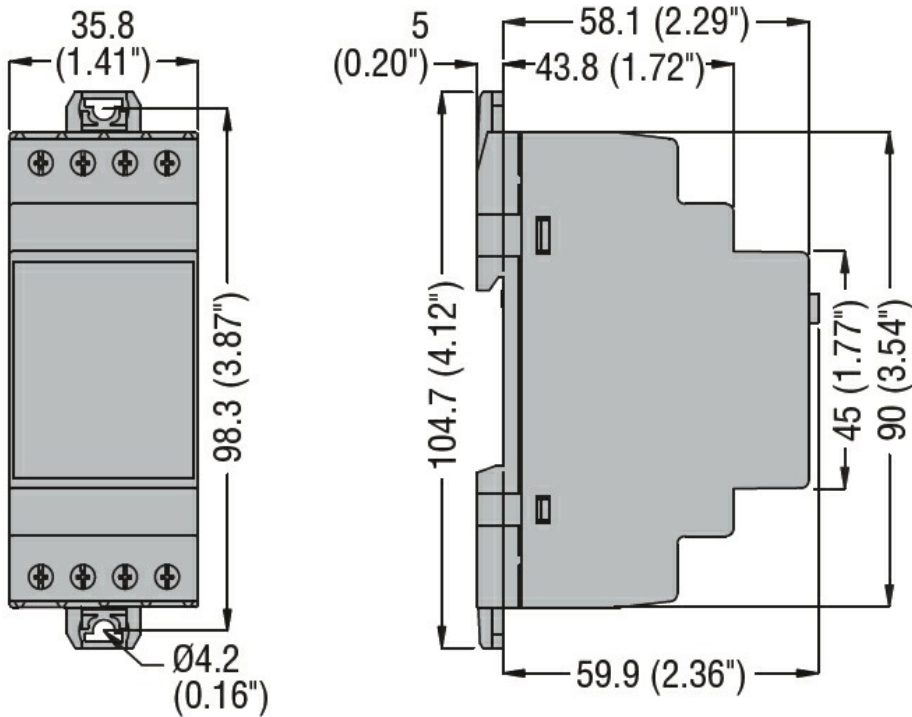


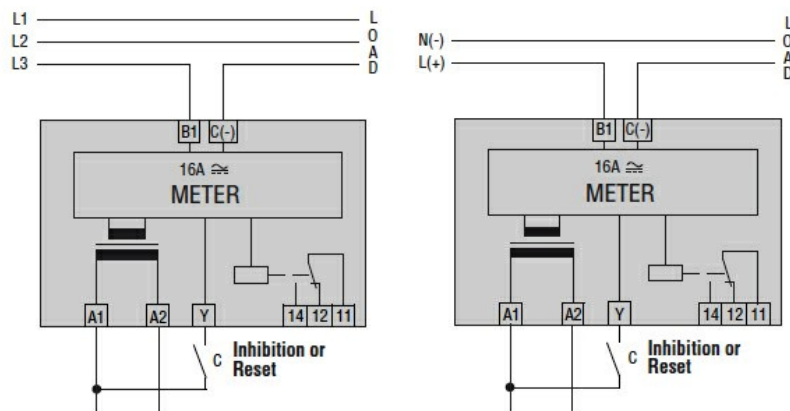
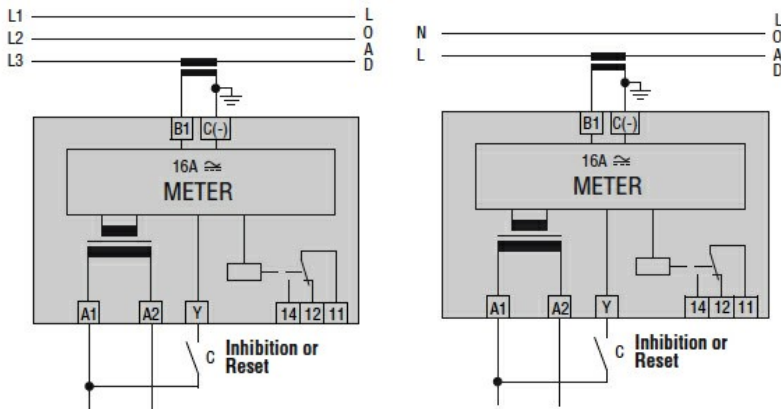


| | | | |
|--|---|----------------|------------------------------------|
| Product designation | Current monitoring relays | | |
| Product type designation | PMA30 | | |
| General characteristics | | | |
| Description | AC/DC minimum or maximum current monitoring relay | | |
| Type of system | Single-phase and three-phase | | |
| Power supply | | | |
| Auxiliary supply voltage U_s | 24...240VAC/DC | | |
| Operating voltage range | 0.85...1.1 U_s | | |
| Rated frequency | Hz | 50/60 \pm 5% | |
| Power consumption Max | VA | 3.2 | |
| Power dissipation Max | W | 1.6 | |
| Control circuit | | | |
| Rated current (I_e) | A | 5 or 16 | |
| Overload capacity | 5 I_e for 1s - 160A for 10ms - Constant 16A | | |
| Connection | Direct or by current transformer | | |
| Current set-point (% I_e) | Max | % | 5...100 |
| Tripping delay | | s | 0.1...30 |
| Resetting hysteresis | | % | 1...50 |
| Inhibition time | | s | 1...60 |
| Type of reset | Automatic or manual | | |
| External input | Resetting / Inhibition | | |
| Repeat accuracy | | % | \pm 1 (with constant parameters) |
| Relay outputs | | | |
| Number of relays | Nr. | 1 | |
| Relay state | Normally energised / De-energised (selectable) | | |
| Contact arrangement | 1 changeover SPDT | | |
| Rated operational voltage AC (IEC) | VAC | 250 | |
| Maximum switching voltage | VAC | 400 | |
| IEC Conventional free air thermal current I_{th} | A | 8 | |

| | | | |
|---|--|--|---------------------|
| UL/CSA and IEC/EN 60947-5-1 designation | | B300 | |
| Electrical life (with rated load) | | cycles | 100000 |
| Mechanical life | | cycles | 30000000 |
| Functions | | | |
| Modular version | | 2U | |
| Maximum AC/DC current | | No | |
| Minimum or maximum AC/DC current | | Yes | |
| Minimum and maximum AC/DC current | | No | |
| Indications | | | |
| Indication | | 1 green LED for power on / inhibition and 1 red LED for tripping | |
| Connections | | | |
| Tightening torque for terminals | | max | Nm 0.8 |
| | | max | lbin 7 |
| Conductor cross section | | | |
| AWG/Kcmil | | min | AWG 24 |
| | | Max | AWG 12 |
| IEC | | min | mm ² 0.2 |
| | | Max | mm ² 4 |
| Insulations | | | |
| Rated insulation voltage Ui | | V | 415 |
| Rated impulse withstand voltage Uimp | | kV | 4 |
| Operating frequency withstand voltage | | kV | 2.5 |
| Ambient conditions | | | |
| Temperature | | | |
| Operating temperature | | min | °C -20 |
| | | max | °C +60 |
| Storage temperature | | min | °C -30 |
| | | max | °C +80 |
| Housing | | | |
| Execution (n° of modules) | | 2 | |
| Material | | Self-extinguishing polyamide | |
| Mounting | | Modular DIN 43880 housing | |
| IEC degree of protection | | IP40 on front; IP20 at terminals | |
| Dimensions (W x H x D) | | mm | 35.8 x 104.7 x 64.9 |
| Weight | | g | 121 |
| Dimensions | | | |



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60255-5

IEC/EN 61000-6-2

IEC/EN 61000-6-3

UL 508

Certificates

cULus
EAC

ETIM classification

ETIM 8.0

EC001440 -
Current
monitoring relay