# PMA30240

CURRENT MONITORING RELAY FOR SINGLE-PHASE SYSTEM, AC/DC MINIMUM OR MAXIMUM CURRENT CONTROL, 5A OR 16A

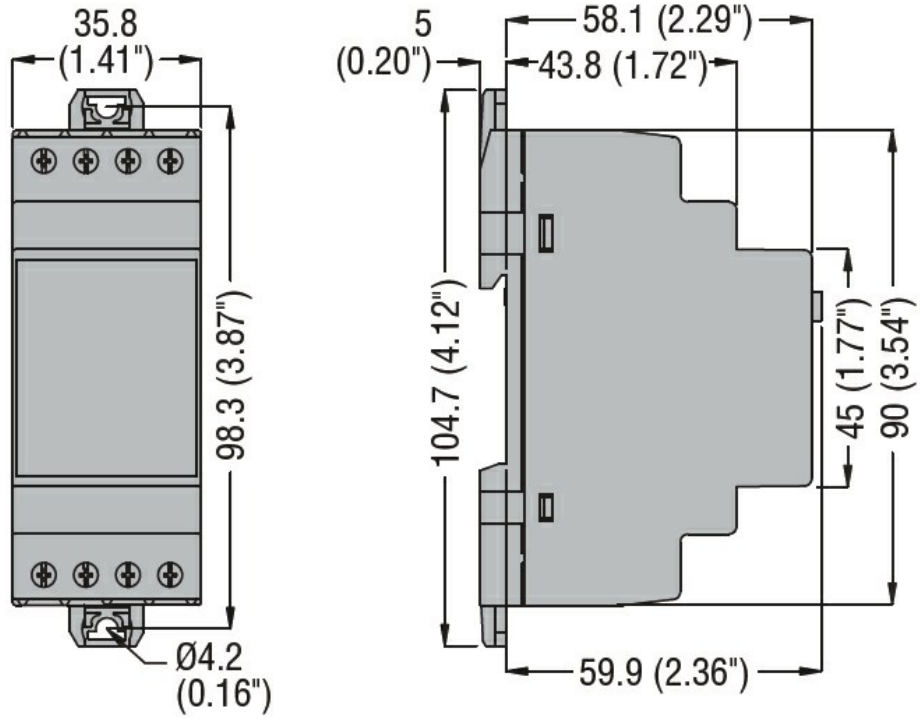


| | | | |
|---|---|---|---|
| Product designation | | | Current monitoring relays |
| Product type designation | | | PMA30 |
| **General characteristics** | | | |
| Description | | | AC/DC minimum or maximum current monitoring relay |
| Type of system | | | Single-phase and three-phase |
| **Power supply** | | | |
| Auxiliary supply voltage Us | | | 24…240VAC/DC |
| Operating voltage range | | | 0.85…1.1 Us |
| Rated frequency | | Hz | 50/60 ±5% |
| Power consumption Max | | VA | 3.2 |
| Power dissipation Max | | W | 1.6 |
| **Control circut** | | | |
| Rated current (Ie) | | A | 5 or 16 |
| Overload capacity | | | 5Ie for 1s - 160A for 10ms - Constant 16A |
| Connection | | | Direct or by current transformer |
| Current set-point (% Ie) | 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 | | % | ±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 Ith | | A | 8 |

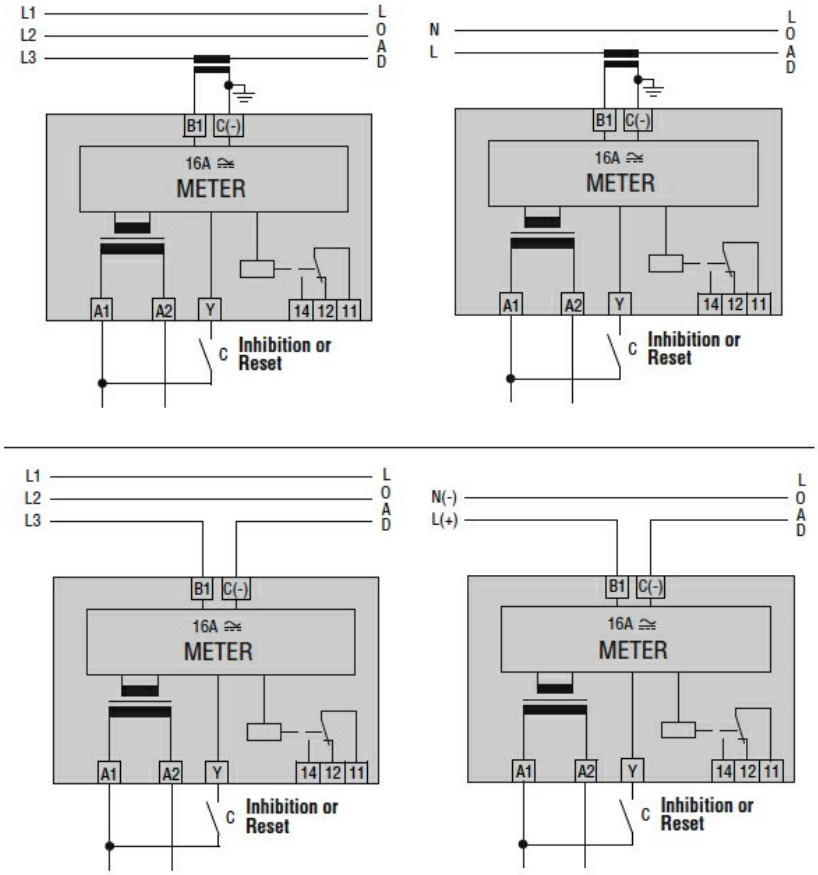

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

| | | | |
|---|---|---|---|
| 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 | Ibin | 7 |
| Conductor cross section | | | |
| AWG/Kcmil | | | |
| | min | AWG | 24 |
| | Max | AWG | 12 |
| IEC | | | |
| | min | mm² | 0.2 |
| | Max | mm² | 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** | | | |


The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding




## 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 |


The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

| | |
|---|---|
| | UL 508 |
| Certificates | |
| | cULus |
| | EAC |

## ETIM classification

| | |
|---|---|
| ETIM 8.0 | EC001440 - Current monitoring relay |


The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding