



Product designation

Product type designation

General characteristics

Current
monitoring relays
PMA30

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 % ± 1 (with constant
parameters)

Relay outputs

Number of relays Nr. 1

Relay state

Normally
energised / De-
energised
(selectable)

Contact arrangement

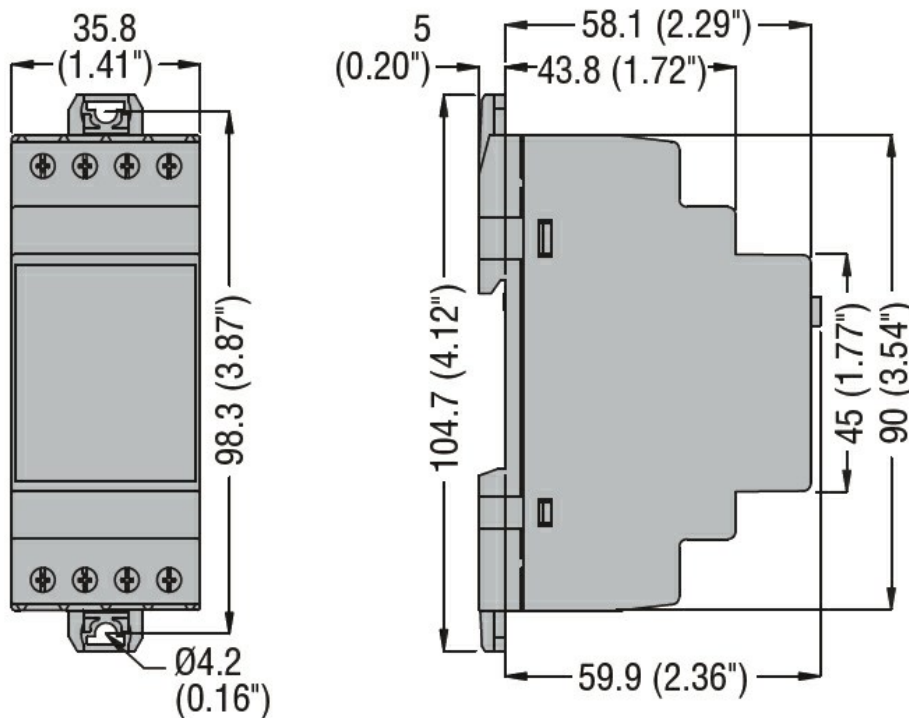
1 changeover
SPDT

Rated operational voltage AC (IEC) VAC 250

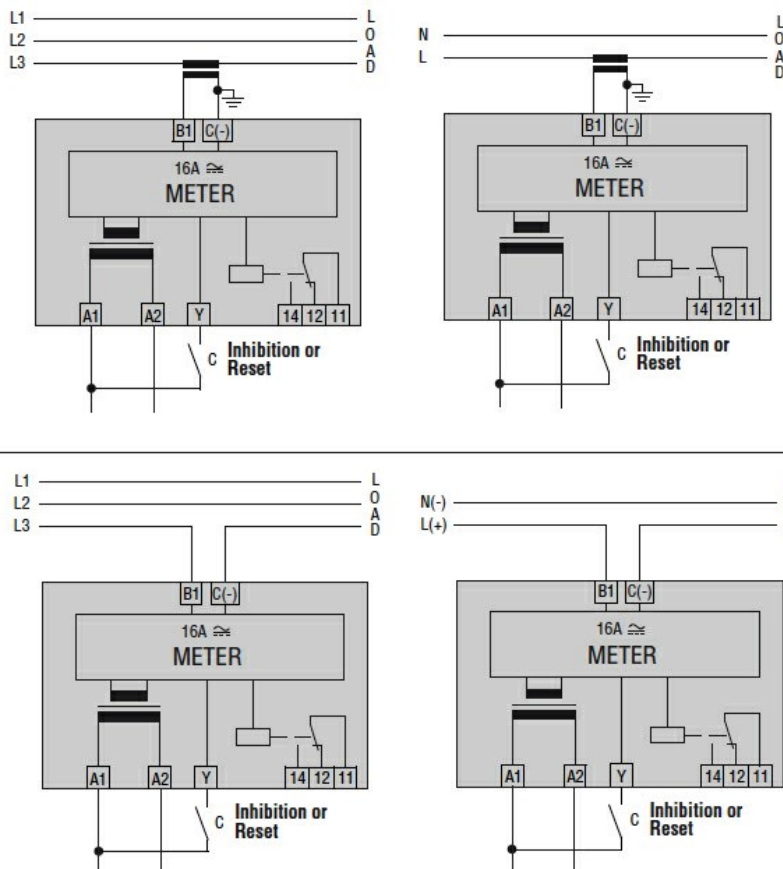
Maximum switching voltage VAC 400

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