



Product designation

Product type designation

Current
monitoring relays
PMA20

General characteristics

Description

AC/DC maximum
current
monitoring relay

Type of system

Single-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 time

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

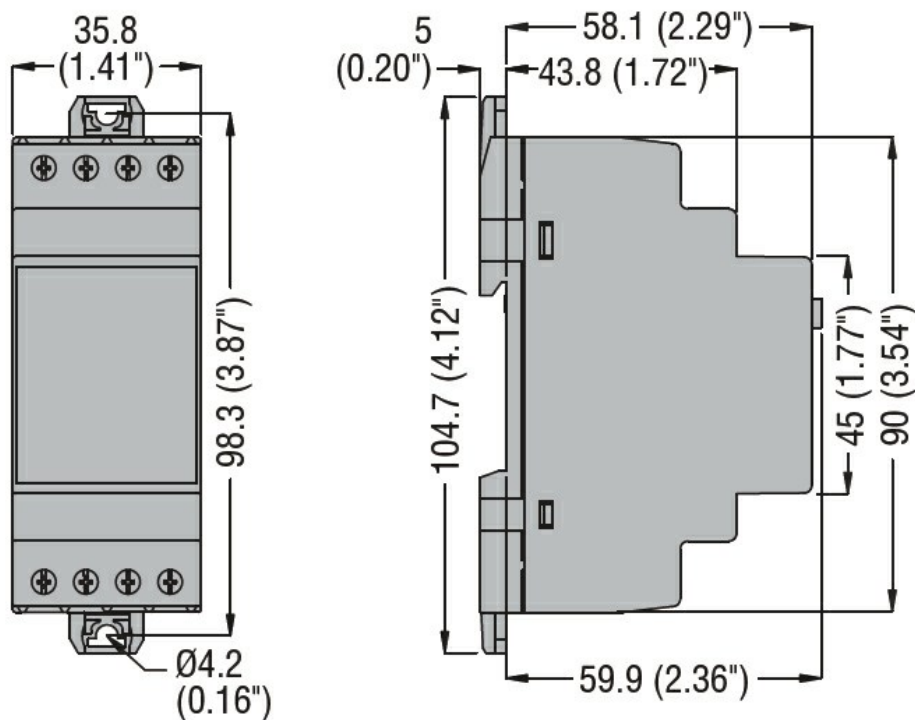
IEC Conventional free air thermal current I_{th}

A 8

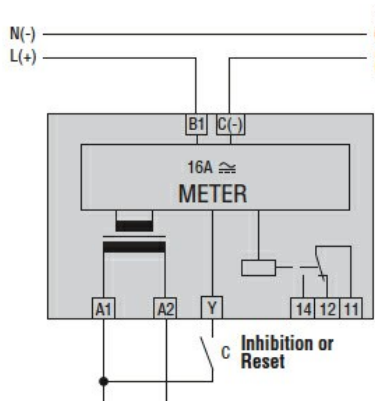
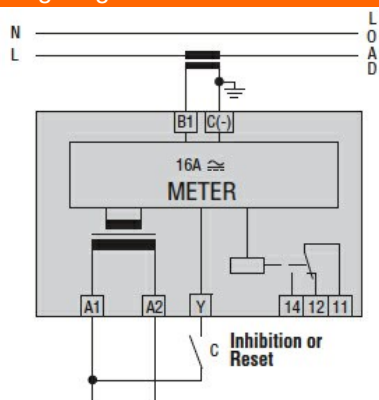
UL/CSA and IEC/EN 60947-5-1 designation

B300

Electrical life (with rated load)	cycles	100000
Mechanical life	cycles	30000000
Functions		
Modular version		2U
Maximum AC/DC current		Yes
Minimum or maximum AC/DC current		No
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