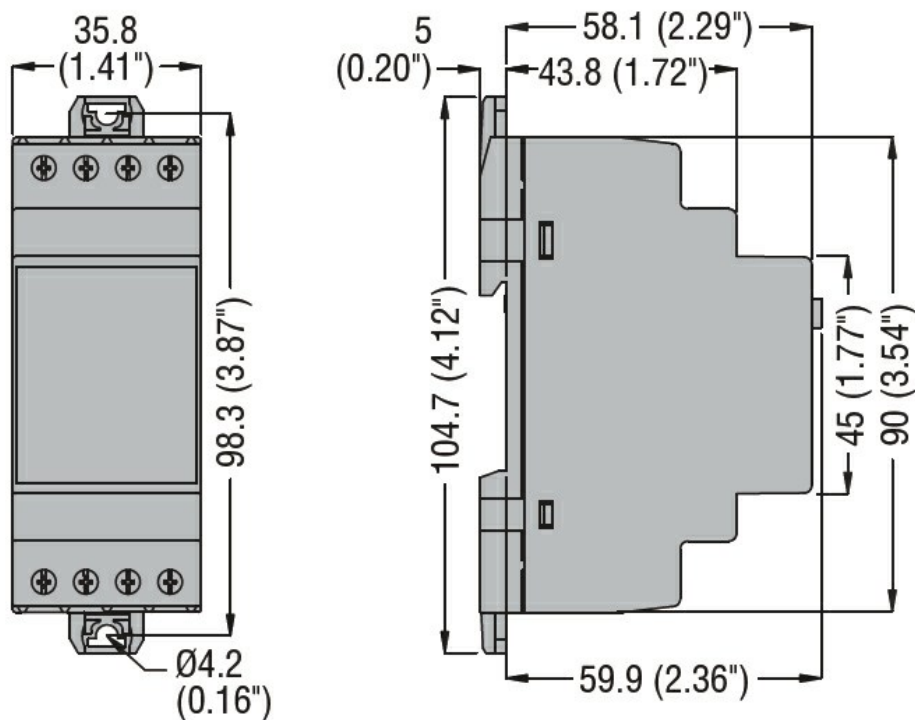


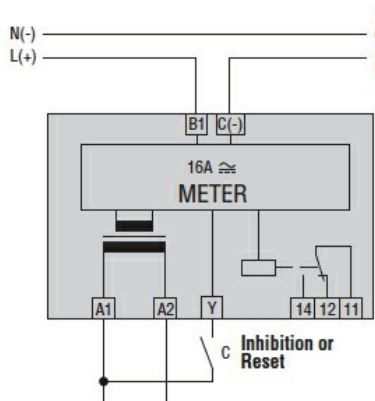
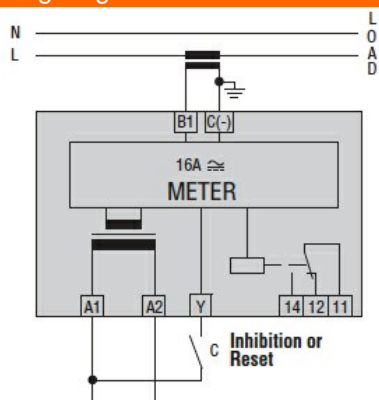


Product designation			Current monitoring relays
Product type designation			PMA20
General characteristics			
Description			AC/DC maximum current monitoring relay
Type of system			Single-phase
Power supply			
Auxiliary supply voltage U_s			24...240VAC/DC
Operating voltage range			0.85... 1.1 U_s
Rated 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