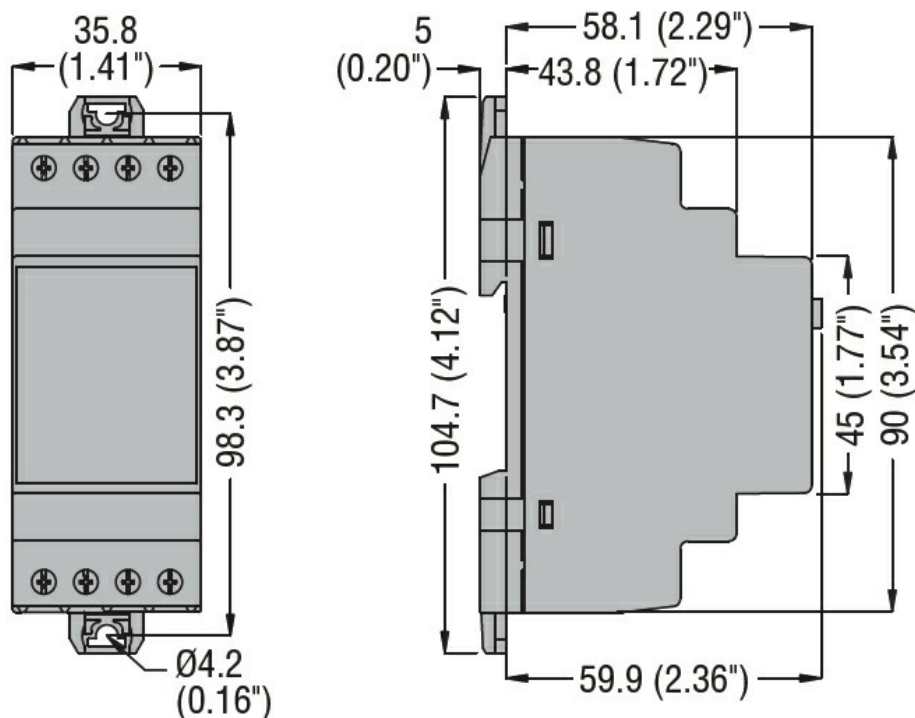


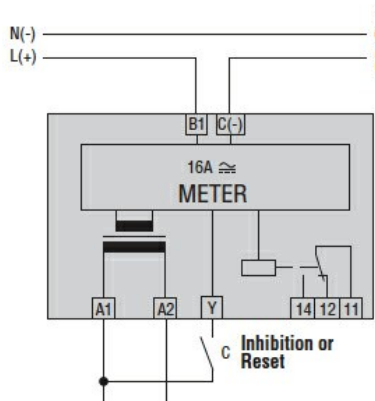
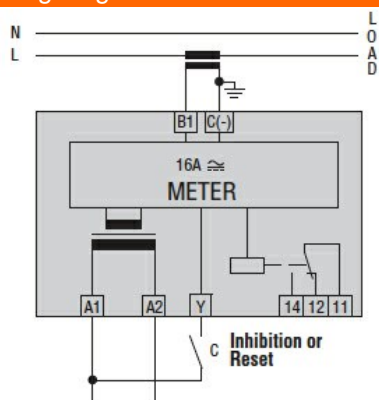


Product designation			Current monitoring relays
Product type designation			PMA20
General characteristics			
Description			AC/DC maximum current monitoring relay
Type of system			Single-phase
Power supply			
Auxiliary supply voltage $U_s$			24...240VAC/DC
Operating voltage range			0.85... 1.1 $U_s$
Rated 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		%	$\pm 1$ (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
<b>Functions</b>			
Modular version			2U
Maximum AC/DC current			Yes
Minimum or maximum AC/DC current			No
Minimum and maximum AC/DC current			No
<b>Indications</b>			
Indication			1 green LED for power on / inhibition and 1 red LED for tripping
<b>Connections</b>			
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 <sup>2</sup> 0.2
		Max	mm <sup>2</sup> 4
<b>Insulations</b>			
Rated insulation voltage Ui		V	415
Rated impulse withstand voltage Uimp		kV	4
Operating frequency withstand voltage		kV	2.5
<b>Ambient conditions</b>			
Temperature			
Operating temperature		min	°C -20
		max	°C +60
Storage temperature		min	°C -30
		max	°C +80
<b>Housing</b>			
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
<b>Dimensions</b>			



## 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

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Certificates

cULus  
EAC

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ETIM classification

ETIM 8.0

EC001440 -  
Current  
monitoring relay