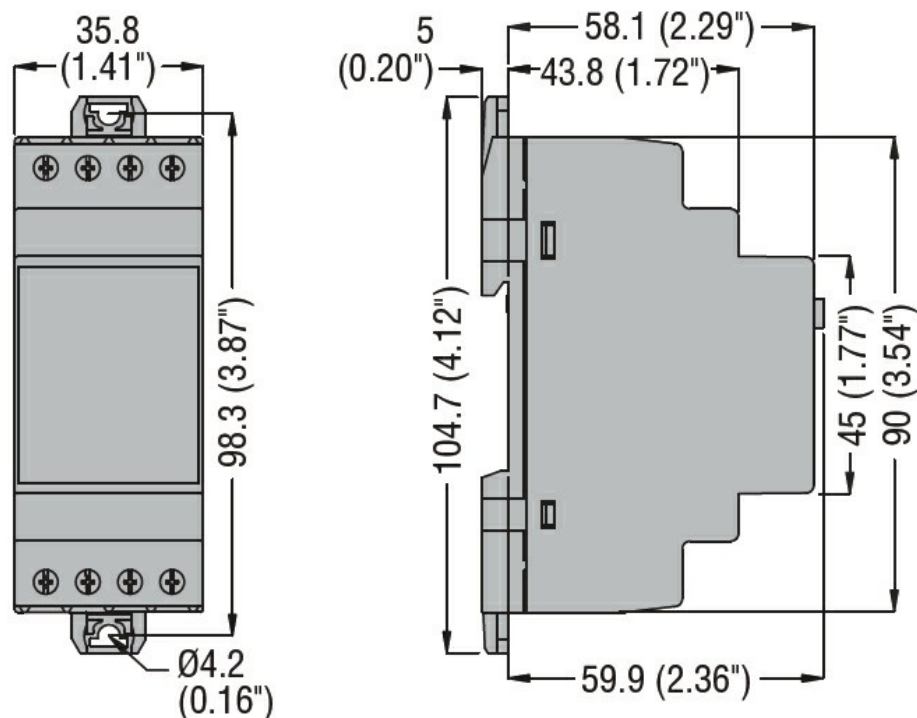


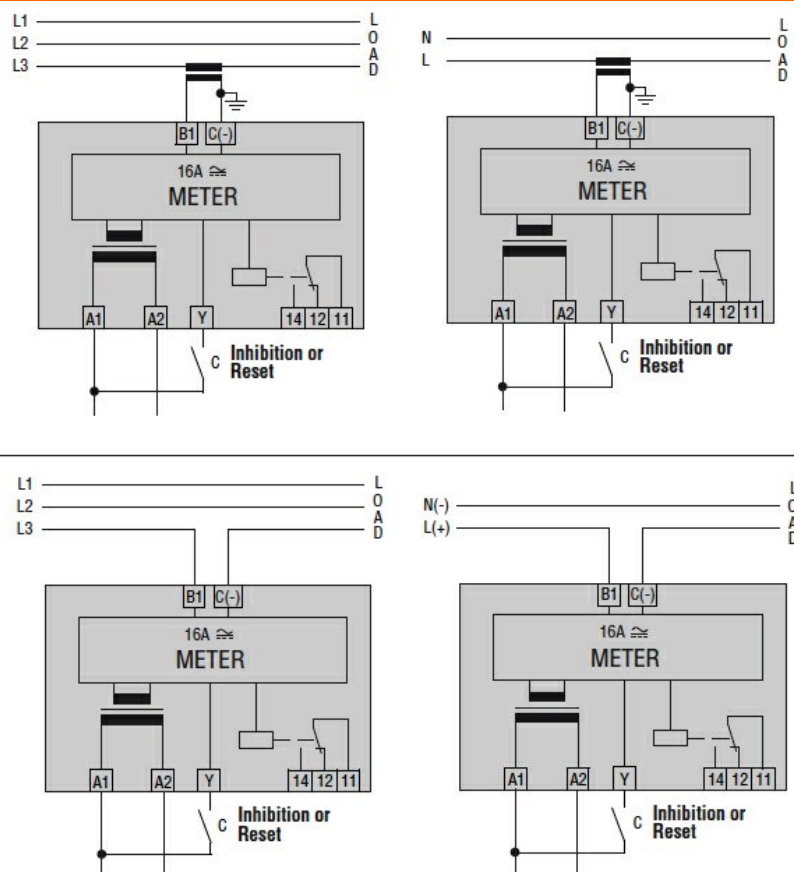


Product designation			Current monitoring relays
Product type designation			PMA30
General characteristics			
Description			AC/DC minimum or maximum current monitoring relay
Type of system			Single-phase and three-phase
Power supply			
Auxiliary supply voltage $U_s$			24...240VAC/DC
Operating voltage range			0.85... 1.1 $U_s$
Rated frequency		Hz	50/60 ±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 <sup>2</sup>	0.2
			Max	mm <sup>2</sup>	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

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UL 508

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Certificates

cULus  
EAC

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ETIM classification

ETIM 8.0

EC001440 -  
Current  
monitoring relay