

## **ENERGY AND AUTOMATION**

Order code	Rated current le	Auxiliary supply voltage	Qty per pkg	Wt
	[A]	[V]	n°	[kg]

Single-phase system.

AC/DC minimum or maximum current control. Delayed trip. Auxiliary AC/DC power supply.

Automatic or manual reset.

PMA30 240	5 or 16A	24-240V	1	0.121
		AC/DC		

#### Current monitoring relay for 1-phase systems PMA30

Single-phase connection by CT



Single-phase direct connection

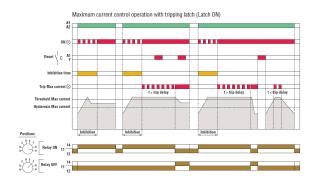


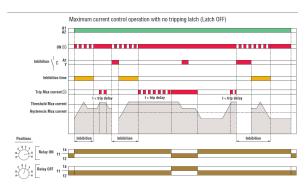


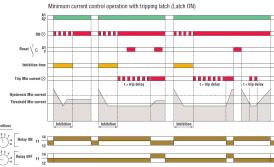


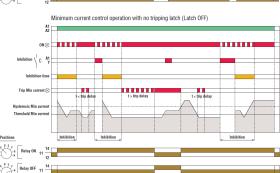


Operation				
Mode	Function	Relay output	Latch	
Α	Minimum	OFF	OFF	
В	current		ON	
С	1	ON	OFF	
D	1		ON	
Е	Maximum	OFF	OFF	
F	current		ON	
G	1	ON	OFF	
ш	1		UN	











## General characteristics

- Current monitoring relay for AC/DC minimum or maximum current control; AC/DC multivoltage auxiliary power supply
- Direct connection up to 16A max or by current transformer (CT)
- Excellent tripping accuracy
- TRMS current measurements (True Root Mean Square)
- Resetting and inhibition input
- 1 relay output with 1 changeover contact (SPDT) Modular DIN 43880 housing, 2 module
- IEC protection degree: IP40 on front (only when placed in IP40 enclosure or control board); IP20 at terminals.

### **ADJUSTMENTS**

Minimum or maximum current tripping "Set point"

threshold 5-100% le

"Hysteresis" Minimum or maximum hysteresis

threshold 1-50%

"Trip delay" Tripping time 0.1-30s "Inhibition time"

Tripping delay for external input or at

power up 1-60s

"le" Current scale selection: 5A or 16A

"Mode" · Min or max function

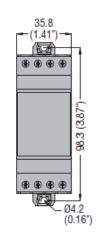
· Relay output normally energised or

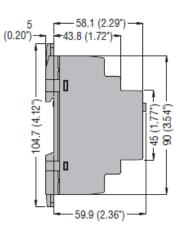
de-energised

. Tripping memory (Latch) On or Off.

## Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601), as Auxiliary Devices -Modular ampere monitoring relays. Compliant with standards: IEC/EN 60255-5. IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL 508, CSA C22.2 nº 14.









# **ENERGY AND AUTOMATION**

TYPE		PMA20	PMA30	PMA	40
DESCRIPTION		TIMAZO	T WASO	1 MP	140
		Single-phase maximum current monitoring AC/DC multiscale	Single-phase minimum or maximum current monitoring AC/DC multiscale	Single- minimum an current m AC/DC m	d maximum onitoring
CONTROL CIRCU	IIT				
Rated current to b	e monitored le	5 or 16A 0.02 - 0.05 - 0.25 - 1 - 5 - 16			25 - 1 - 5 - 16A
Rated frequency			50/60Hz ±5%		
Overload capacity	/			50mA - 1A inputs	16A input
		160A fo	5 le for 1s 160A for 10ms Constant 16A		5 le for 1s 160A for 10ms Constant 16A
Connection			Direct or by current transformer		
	pping values		5-100% f.s.		
	pping time		0.1-30s		
	nibition time		1-60s		
	setting hysteresis	1-5		3% f	xed
Resetting			Automatic / Manual		
External input		Resetting		_	
Repeat accuracy			±1% with constant parameters		
AUXILIARY SUPF					
Auxiliary supply v	oltage Us	24-240VAC/DC			
Operating range			0.85-1.1 Us		
Rated frequency			50/60Hz ±5%		
Power consumpti	, ,	3.2		7VA	
Power dissipation	n (maximum)	1.6	SW .	1.7	W
RELAY OUTPUTS					
Number of relays			1	2	
Relay state		N	lormally energised / de-energised (selectat	ole)	
Contact arrangem		1 changeover contact SPDT each			
Rated operational		250VAC			
Maximum switch voltage		400VAC			
IEC conventional current Ith			8A		
UL/CSA and IEC/Edesignation	EN 60947-5-1	B300			
Electrical life (with rated load)		10 <sup>5</sup> cycles			
Mechanical life		30x10 <sup>6</sup> cycles			
Indications			n LED n/inhibition	1 green LED for power on/inhibition 2 red LEDs for max/min tripping	
CONNECTIONS					
Tightening torque maximum	)	0.8Nm (7lbin; 7-9lbin per UL/CSA)			
Conductor section	n min-max	0.2-4.0mm <sup>2</sup> (24-12AWG; 18-12 AWG per UL/CSA)			
INSULATION (inp					
IEC rated insulation		415V			
	withstand voltage Uimp	4kV			
IEC power frequen voltage			2.5kV		
AMBIENT CONDI					
Operating temper			–20+60°C		
Storage temperat	ure		−30+80°C		
HOUSING					
Material			Self-extinguishing polyamide		