

ENERGY AND AUTOMATION

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

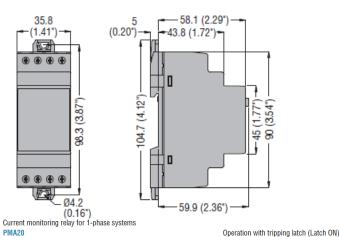
Single-phase system.

AC/DC maximum current control.

Auxiliary AC/DC power supply.

Automatic or manual reset.

PMA20 240	5 or 16A	24-240V	1	0.121
		AC/DC		



General characteristics

- Current monitoring relay for AC/DC 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

"Imax" Maximum current tripping threshold

5-100% le

"Hysteresis" Maximum hysteresis thresold

1-50%

"Trip delay" Tripping time 0.1-30s

"Inhibition time" Tripping delay for external input or at

"Aut. reset delay"

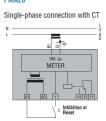
"Mode"

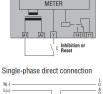
power up 1-60s Automatic resetting time 0.1-30s Rated current 5A or 16A,

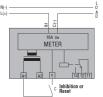
· Relay output normally energised or

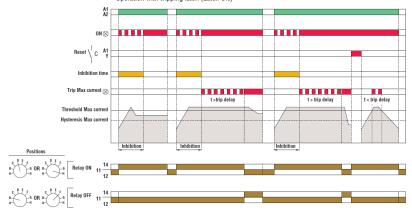
de-energised

Tripping memory (Latch) On or Off.



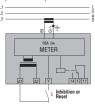




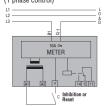


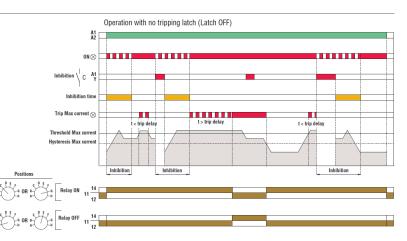
Operation				
Mode	le	Relay output	Latch	
Α	5A	OFF	OFF	
В			ON	
С		ON	OFF	
D			ON	
Ε	16A	OFF	OFF	
F			ON	
G		ON	OFF	
Н			ON	











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		1			
	Single-phase	Single-phase	Single-phase minimum and maximum		
	maximum current monitoring	minimum or maximum current monitoring	current mo		
	AC/DC multiscale	AC/DC multiscale	AC/DC m		
CONTROL CIRCUIT			-		
Rated current to be monitored le	5 0	r 16A	0.02 - 0.05 - 0.2	25 - 1 - 5 - 16A	
Rated frequency		50/60Hz ±5%			
Overload capacity			50mA - 1A inputs	16A input	
	5 le for 1s		5 le for 1s	5 le for 1s	
		for 10ms ant 16A	10le for 10ms Constant 2le	160A for 10ms Constant 16A	
Connection	CONST	Direct or by current transformer	Guistant Zie	GOIISIAIII IOA	
Adjustment Tripping values		5-100% f.s.			
Tripping time	0.1-30s				
Inhibition time	1-60s				
Resetting hysteresis	1		3% fi	ved	
Resetting	17-	1-50% 3% fixed Automatic / Manual		AUU .	
External input	Resetting / Inhibition —				
Repeat accuracy	±1% with constant parameters				
AUXILIARY SUPPLY		±170 With constant parameters			
Auxiliary supply voltage Us		24-240VAC/DC			
Operating range	0.85-1.1 Us				
Rated frequency	50/60Hz ±5%				
Power consumption (maximum)	3.2VA 7VA		Δ		
Power dissipation (maximum)		.6W	1.7W		
RELAY OUTPUTS			1.7	**	
Number of relays		1	2		
Relay state		Normally energised / de-energised (selectab			
Contact arrangement		1 changeover contact SPDT each	10)		
Rated operational voltage	250VAC				
Maximum switching		400VAC			
voltage		4000/10			
IEC conventional free air thermal current Ith		8A			
UL/CSA and IEC/EN 60947-5-1 designation	B300				
Electrical life (with rated load)	10⁵ cycles				
Mechanical life	30x10 ⁶ cycles				
Indications		1 green LED		1 green LED for	
	for power 1 red I FD	for power on/inhibition 1 red LED for tripping		power on/inhibition 2 red LEDs for max/min tripping	
CONNECTIONS	1 Ted LED	res cripburg	2 100 EED3 101 III	warmin tripping	
Fightening torque		0.8Nm (7lbin; 7-9lbin per UL/CSA)			
Conductor section min-max	0.2-4.0mm ² (24-12AWG; 18-12 AWG per UL/CSA)				
NSULATION (input-output)	<u> </u>	, , , , , , , , , , , , , , , , , , ,	7		
EC rated insulation voltage Ui		415V			
EC rated impulse withstand voltage Uimp	4kV				
EC power frequency withstand voltage		2.5kV			
AMBIENT CONDITIONS					
Operating temperature		-20+60°C			
Storage temperature	-30+80°C				
HOUSING					
		Self-extinguishing polyamide			