



AC CURRENT PROTECTOR TRIP RELAY

DIGITAL METERING SYSTEM

KEY FEATURES

- LED fault indication
- Adjustable nominal voltages, trip points, time delay and differentials
- Compact DIN-rail enclosure
- Power on LED (Green)
- Designed to avoid nuisance tripping

TE Connectivity's (TE) Crompton Instruments AC current protector trip relay provides continuous surveillance of monitored circuits and offers user-adjustable trip points (setpoints) with time delay settings. When the current moves outside the set point limit for longer than the time delay, the relay will operate providing an alarm control or tripping signal.

The setpoint adjustment range is between 40% and 120% of the nominal current with 1A or 5A nominal input current (via current transformers or direct connection). An internal differential setting of 1% reduces nuisance tripping if the measured signal is noisy or unstable. The relay will trip if the measured current moves outside the set point limit and the red LED indicates a fault condition. An adjustable time delay eliminates premature operation on short-duration current fluctuations. During this delay period the red LED will flash. Protectors draw their operating power from a separate auxiliary supply input.

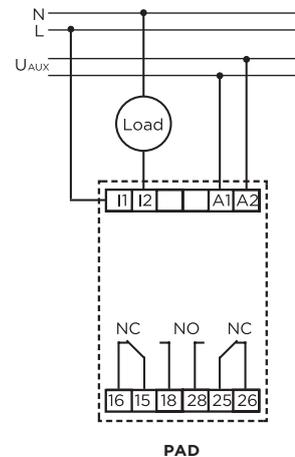
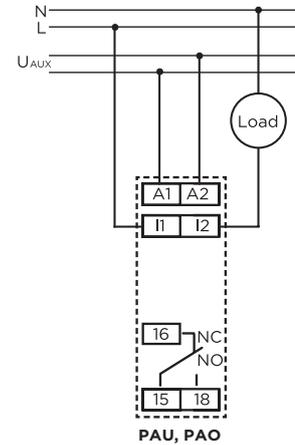
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AC Current Protector Trip Relay



SPECIFICATION						
Technical parameters	PAU-1	PAU-5	PAO-1	PAO-5	PAD-1	PAD-5
Under current protection (de-energise on trip)	●	●	-	-	●	●
Over current protection (energise on trip)	-	-	●	●	●	●
Auxiliary supply terminals	A1, A2					
Auxiliary supply voltage	24 - 240V AC/DC					
Auxiliary supply voltage tolerance	±10%					
Auxiliary voltage burden (max)	2.6VA / 0.8W			3VA / 1.2W		
Operating frequency AC	45 - 65 Hz					
Current input terminals	I1, I2					
Rated current In	1A AC	5A AC	1A AC	5A AC	1A AC	5A AC
Current input burden (max)	0.1VA	0.5VA	0.1VA	0.5VA	0.1VA	0.5VA
Upper current limit Imax	Adjustable 40 - 120% In					
Lower current limit Imin	Adjustable 40 - 120% In					
Overload capacity -continuous -max. 3s	2A 20A	10A 50A	2A 20A	10A 50A	2A 20A	10A 50A
Differential (hysteresis)	Internally pre-set at 1% In					
Time delay	Adjustable 0.5 - 10s				Independently adjustable under/over 0.5 - 10s	
Output relay-contact	1x change over (AgNi) plated				2x change over (AgNi) plated	
Output relay-contact terminals	15, 16, 18				Under 15, 16, 18/over 25, 26, 28	
Load capability of relay contact AC	250V / 8A, max. 2000VA					
Load capability of relay contact DC	30 V / 8 A					
Mechanical life	3x10 ⁶ by rated load					
Relay reset	Automatic					
ANSI no.	37	37	50	50	37/50	37/50
Operating temperature	-20 + 55°C					
Storage temperature	-30 + 70°C					
Electric strength (supplying - contact relay)	4 kV / 1 min.					
Overvoltage category	III.					
Pollution degree	2					
Enclosure integrity	IP40 from the front panel /IP10 terminals				IP40 from the front panel/ IP20 terminals	
Enclosure style	DIN-rail, 1 module				DIN-rail, 3 module	
Case material	Flame retardant polycarbonate					
Connecting conductors profile (mm ²)	max. 2 x 2.5 mm ² / 1 x 4 mm ²				max. 2 x 1.5 mm ² / 1 x 2.5 mm ²	
Dimensions	H 90 x W 17.6 x D 64 mm				H 90 x W 52 x D 65 mm	
Weight	70 g				208 g	
Standards	EN 60255-6, EN 60255-27, EN 61000-6-2, EN 6100-6-4					

PROTECTOR CONNECTION



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