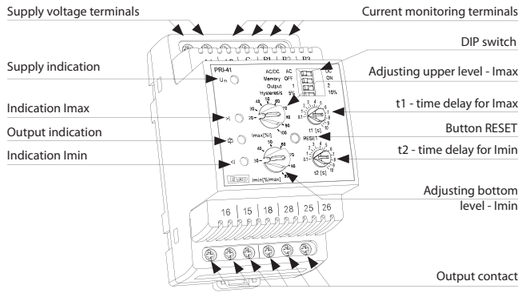
EAN code
PRI-41/110V: 8595188140508
PRI-41/230V: 8595188140485
PRI-41/400V: 8595188147446
PRI-41/24V: 8595188140492
PRI-42/110V: 8595188140539
PRI-42/230V: 8595188140515
PRI-42/400V: 8595188147484
PRI-42/24V: 8595188140522

Technical parameters	PRI-41		PRI-42
Supply circuit			
Supply terminals:	A1 - A2		
Voltage range:	AC 110 V, AC 230 V, AC 400 V or AC / DC 24 V (AC 50 - 60 Hz)		
Burden max.:	2.5 W / 5 VA (AC 110 V, AC 230 V, AC 400 V), 1.4 W / 2 VA (AC/DC 24 V)		
Operating range:	-15 %; +10 %		
Measuring circuit			
Ranges:*	AC/DC 3.2 - 16 A (AC 50 - 60 Hz)	AC/DC 1 - 5 A (AC 50 - 60 Hz)	AC/DC 0.32 - 1.6 A (AC 50 - 60 Hz)
Terminals:	C - B1	C - B2	C - B3
Input resistance:	2.3 mΩ	11 mΩ	23 mΩ
Max. permanent current:	16 A	8 A	3 A
Inrush overload <1ms:	20 A	16 A	6 A
Time delay for Imax:	adjustable 0.1-10 s		
Time delay for Imin:	adjustable 0.1-10 s		
Accuracy			
Measuring accuracy:	5 %		
Repeat accuracy:	< 1 %		
Temperature dependancy:	< 0.1 % / °C		
Limit values tolerance:	5 %		
Hysteresis (fault to OK):	selectable 5 % / 10 % from range		
Output			
Number of contacts:	2x changeover / SPDT (AgNi / Silver Alloy)		
Current rating:	16 A / AC1		
Breaking capacity:	4000 VA / AC1, 384 W / DC		
Inrush current:	30 A / < 3 s		
Switching voltage:	250 V AC1 / 24 V DC		
Output indication:	yellow LED		
Mechanical life:	$3x10^7$		
Electrical life (AC1):	$0.7x10^5$		
Other information			
Operating temperature:	-20 °C to 55 °C (-4 °F to 131 °F)		
Storage temperature:	-30 °C to 70 °C (-22 °F to 158 °F)		
Electrical strength:	4 kV (supply - output)		
Operating position:	any		
Mounting:	DIN rail EN 60715		
Protection degree:	IP40 from front panel / IP20 terminals		
Overvoltage category:	III.		
Pollution degree:	2		
Max. cable size (mm^2):	solid wire max. 1x 2.5 or 2x 1.5 / with sleeve max. 1x 1.5 (AWG 12)		
Dimensions:	90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)		
Weight:	250 g (8.8 oz.) (110V, 230 V, 400 V); 153 g (5.4 oz.) (24 V)		
Standards:	EN 60255-6, EN 61010-1		

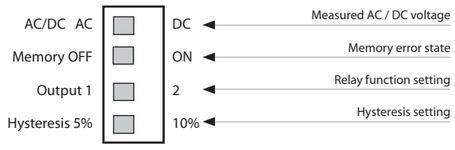
* Only one of the inputs can be connected.

- used to monitor overloading / relief (machine, motor, etc.), check consumption, diagnostics on a remote device (burning, short circuit, increased current draw, etc.)
- relay designed for monitoring DC and AC currents in three ranges
- the relay controls the current size in two independent levels (Imax, Imin)
- setting the monitored level Imax (in % of range)
- setting the monitored level Imin
  (in % of range - for PRI-42 - function WINDOW)
  (in % of the set upper limit - for PRI-41 - function HYSTERESIS)
- adjustable function "MEMORY"
- function of second relay (independently / in parallel)
- adjustable delay for eliminating short-term outages and surges for every level independently
- galvanically separated power supply from monitoring inputs
- output contact: 2x changeover 16 A / 250 V AC1 for each current level
- 3-MODULE, DIN rail mounting

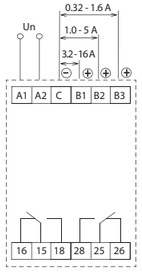
Description



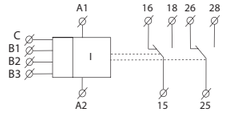
Description and importance of DIP switches



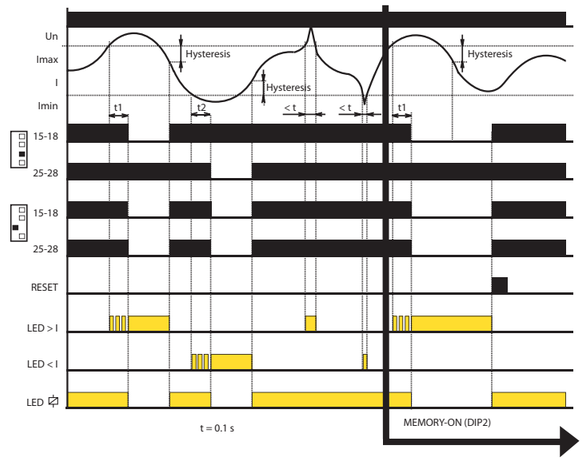
Connection



Symbol



Function



- if the value of the monitored current is in the zone between the set upper and lower levels, the status OK occurs - both relays are closed and the yellow LED illuminates. If the value of the monitored current is outside the set limits (> Imax or < Imin), an error state occurs.
- when moving to an error state I > Imax, it times the delay t1 and a red LED > I simultaneously flashes. After the t1 time elapses, the red LED > I illuminates and the relevant relay opens.
- when moving to an error state I < Imin, it times the delay t2 and a red LED < I simultaneously flashes. After the time t2 elapses, the red LED < I illuminates and the relevant relay opens.
- when moving from the error status to the OK status, the relevant red LED immediately goes out, and the corresponding relay closes.