

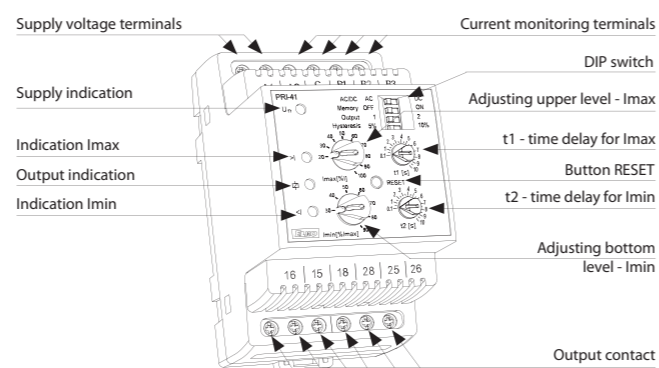


EAN code
 PRI-41/110V: 8595188140508
 PRI-41/230V: 8595188140485
 PRI-41/400V: 8595188147446
 PRI-41/24V: 8595188140492
 PRI-42/110V: 8595188140539
 PRI-42/230V: 8595188140515
 PRI-42/400V: 8595188147484
 PRI-42/24V: 8595188140522

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)	
Max. dissipated power (Un + terminals):	5.5 W (110 V, 230 V, 400 V) 4.5 W (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)
Terminals:	C - B1	C - B2
Input resistance:	2.3 mΩ	11 mΩ
Max. permanent current:	16 A	8 A
Inrush overload <1ms:	20 A	16 A
Time delay for I _{max} :	adjustable 0.1-10 s	
Time delay for I _{min} :	adjustable 0.1-10 s	
Accuracy		
Measuring accuracy:	5 %	
Repeat accuracy:	< 1 %	
Temperature dependency:	< 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 AC / 24 V DC	
Output indication:	yellow LED	
Mechanical life:	3x10 ⁷	
Electrical life (AC1):	0.7x10 ⁶	
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:	248 g (8.7 oz.) (110 V, 230 V, 400 V); 145 g (5.1 oz.) (24 V)	
Standards:	EN 60255-6, EN 61010-1	

- 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 (I_{max}, I_{min})
- setting the monitored level I_{max} (in % of range)
- setting the monitored level I_{min} (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

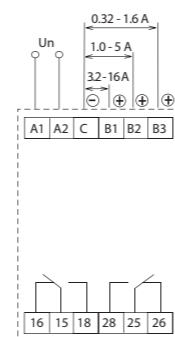
Description



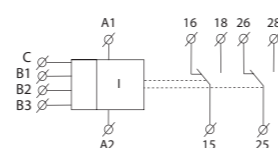
Description and importance of DIP switches

AC/DC AC	<input type="checkbox"/>	DC	← Measured AC / DC voltage
Memory OFF	<input type="checkbox"/>	ON	← Memory error state
Output 1	<input type="checkbox"/>	2	← Relay function setting
Hysteresis 5%	<input type="checkbox"/>	10%	← Hysteresis setting

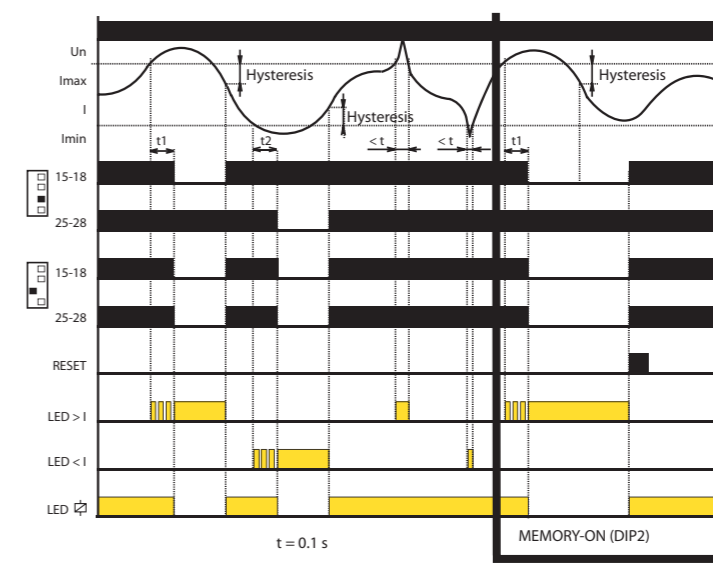
Connection



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 ($I > I_{max}$ or $I < I_{min}$), an error state occurs.
- when moving to an error state $I > I_{max}$, it times the delay t_1 and a red LED $> I$ simultaneously flashes. After the t_1 time elapses, the red LED $> I$ illuminates and the relevant relay opens.
- when moving to an error state $I < I_{min}$, it times the delay t_2 and a red LED $< I$ simultaneously flashes. After the time t_2 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.

* Only one of the inputs can be connected.