

Interface Relays I1-L General Purpose (6A 1N/O)

Built-in 6 A/250 VAC electromechanical relays
35 mm DIN rail mounting, EN 50022; screw terminals 0.2 - 4mm²
Interconnection strips type I1C-20 available



Contacts

Contact number & arrangement		1C/O
Contact material		AgSnO₂ , AgSnO ₂ /Au
Max. switching voltage	AC/DC	250 V / 220 V
Min. switching voltage	AC/DC	AgSnO ₂ : 12 V AgSnO ₂ /Au: 100 mV
Rated load	AC 1	AgSnO ₂ : 6 A / 250 V AC AgSnO ₂ /Au: 50 mA / 30 V AC
	DC1	AgSnO ₂ : 6 A / 24 V DC AgSnO ₂ /Au: 50 mA / 36 V DC
Min. switching current		AgSnO ₂ : 8 mA / 24 V AgSnO ₂ /Au: 2 mA / 24 V
Max. inrush current		AgSnO ₂ : 15 A AgSnO ₂ /Au: 50 mA*
Rated current		6 A
Max. breaking capacity	AC 1	AgSnO ₂ : 1 500 V A AgSnO ₂ /Au: 1,5 V A
Resistance - initially		50 m
Max. operating frequency		360 cycles/hour
	at rated load no load	AC 1 72 000 cycles/hour

Coil

Rated voltage	AC	90...230 V
	DC	12- 24 -36 V
	AC/DC	24- 230 V
Must release voltage		AC: ≥ 0.2 U _n AC: ≥ 0.6 U _n ** DC: ≥ 0.1 U _n
Rated power consumption	AC	0,3...1,8 V A
	DC	0,3...1,0 W

Insulation

Insulation category	C250	
Insulation rated voltage	400 V AC	
Dielectric strength	coil - contact	4 000 V AC
	contact - contact	1 000 V AC

General data

Operating time (typical value)	AC: 7 ms DC: 6 ms	
Release time (typical value)	AC: 15 ms DC: 8 ms	
Electrical life	resistive AC1	10 ⁵ 5 A, 250 V AC
	cos = 0.4	> 2 x 10 ⁵ 2 A, 250 V AC
Mechanical life (cycles)	> 2 x 10 ⁷	
Dimensions (L x W x H)	80 x 6,2 x 93,8 mm	
Weight	40 g	
Ambient temperature	storing	-40...+70 °C
	operating	-40...+55 °C
		-40...+60 °C 12, 24 V DC
Protection category	IP 20	

Standard contact material and standard coil rated voltages marked with bolt type.

* Max. inrush current 50 mA at 30 V AC or 36 V AC

** It refers to I1-L-U230R - relay with electronic filter

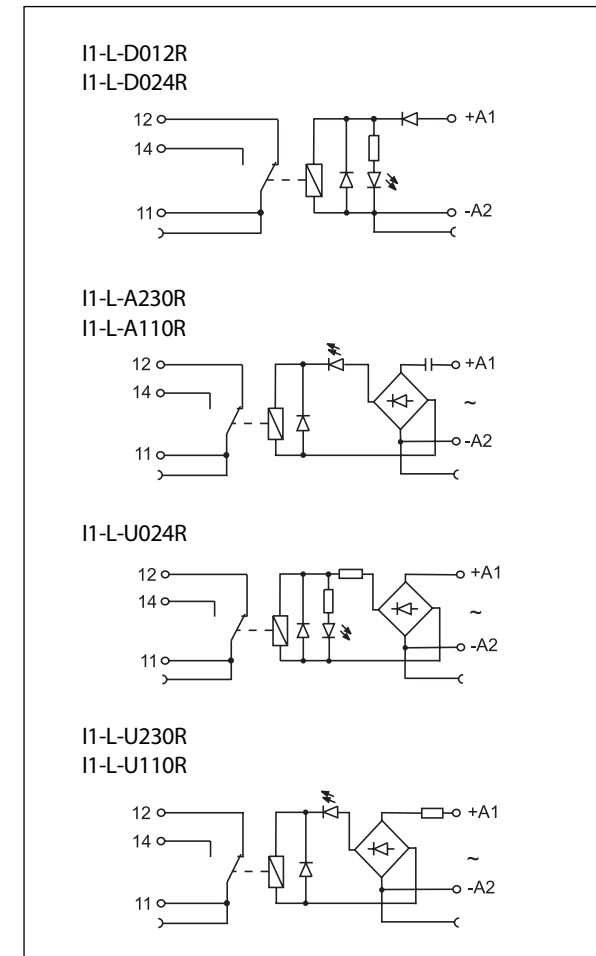
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Coil data Table 1

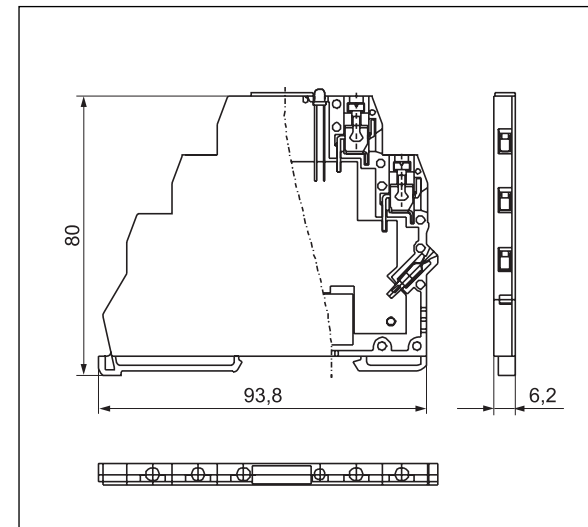
Part No.	Rated Voltage (U _n)	
I1-L-D012R	6A @ 250VAC/220VDC	12VDC Coil
I1-L-D024R*	6A @ 250VAC/220VDC	24VDC Coil
I1-L-U024R	6A @ 250VAC/220VDC	24VAC/DC Coil
I1-L-A110R**	6A @ 250VAC/220VDC	110VAC Coil
I1-L-U110R**	6A @ 250VAC/220VDC	110VAC/DC Coil
I1-L-A230R	6A @ 250VAC/220VDC	90...230VAC Coil
I1-L-U230R*	6A @ 250VAC/220VDC	230VAC/DC Coil

Standard coil rated voltages marked with bold type.
* gold plated contacts available
** under development

Connection diagrams



Dimensions



Mounting

Relays I1-L are designed for mounting on 35 mm DIN rail mount, EN 50022.

Interconnection strip type I1C-20 for bridging of common outputs and inputs available in the following colors: red I1C-20RD, black I1C-20BK and blue I1C-20BL.

