PIR6W Slim Interface Terminal Block Relays

The Relpol PIR6W Slim Interface Terminal Block Relay is ideally compact, designed for a variety of high-density isolation and interposing applications.

PIR6W Slim Interface Relay Complete Assembly

A full featured model in one small package

The PIR6W slim interface relays are offered as a complete package which includes the following:

- Changeover relay, rated load 6 A / 230 V (ACI)
- Interface Relay socket with built-in LED position indicator
- Description plate

Low input current, high switching capabilities

The PIR6W slim interface relay contacts are rated at 6 amps resistive @230VAC and available in SPDT (1 form - C contact). The minimum contact current capablilties are 100mA at 24V. The coil power cosumption is approximately 0.3...0.8VA AC or 0.3…0.9W DC. The PIR6W interface relays are available in 24V DC, 24V AC/DC and 120V models.

Rugged and reliable

With a mechanical life of 20 million cycles, and high contact switching capacity due to their silver tin oxide (Ag-SnO2) contacts, the PIR6W interface relays provides long lasting high quality contact reliability even after millions of operations.

DIN-rail mounted

The PIR6W slim interface relays are DIN-rail mountable which can be easily installed along side other control terminal blocks for a space saving design.

Safety approvals

The PIR6W slim interface relays are cURus, VDE and CE marked which meets the requirements of all important international approval organizations, making them ideal for use in both domestic and export equipment.

Green LED signals the operation status of the relay

Interconnection strip ZG20 for bridging of common input or output of signals

Movable ejector for protection and easy replacement of the operational relay

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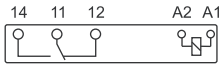
Interface Terminal Block Relays (1 Form C) - 1 Pole ❶

PIR6W	Specifications	Input Voltage	Catalog Number	Price	Pkg Qty
	 **6A SPDT** 1 Pole (1 Form C) $AgSnO_2$ Includes: – Change over relay with built-in Green LED indicator	12VDC	PIR6W-1P-12VDC	25	10
		24VDC	**PIR6W-1P-24VDC**		
		24V AC/DC	PIR6W-1P-24VAC/DC	30	
		115V AC/DC	**PIR6W-1P-115VAC/DC**		

* Gray denotes special order.

Accessories

Accessory	Description	For use with…	Catalog Number	Price	Pkg Qty
	**Interface Operational Relay ❷** Replacement operational relays for PIR6W Interface Terminal Block Relays	PIR6W-1P-12VDC	**RM699BV-3011-85-1012**	15	20
		PIR6W-1P-24VDC PIR6W-1P-24VAC/DC ❸ PIR6W-1P-115VAC/DC	**RM699BV-3011-85-1024**		
	**20-Way Jumper** Can be cut to required length 36A max per 20-way Jumper Red Black Blue	PIR6W-1P…	**ZG20-1** **ZG20-2** **ZG20-3**	5.30	20

❶ Other input voltages available as special order; contact your Sprecher + Schuh Representative.
❷ It should be noted that rated voltage U_n of the input/operational relay coil does not always comply with the rated voltage U_n of the interface relay (which is important on ordering operational relays for sockets).
❸ Previously accepted older model RM699V-3011-85-1012 12VDC replacement relay. Now supports a 24VDC relay model RM699BV-3011-85-1024.

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Contacts

Contact number & arrangement		1 C/O
Contact material		**AgSnO2**
Max. switching voltage	AC/DC	AgSnO2: 250 V / 400 V AC/ 125 V DC
Min. switching voltage	AC/DC	AgSnO2: 10 V
Rated load	AC1	AgSnO2: 6 A / 250 V AC
	DC1	AgSnO2: 6 A / 24 V DC
Min. switching current		AgSnO2: 100 mA / 24 V
Max. inrush current (20 ms)		AgSnO2: 10 A
Rated current		6 A
Max. breaking capacity	AC1	AgSnO2: 1 500 VA
Min. breaking capacity		AgSnO2: 1 W
Resistance - initially		AgSnO2: ≤ 100mΩ 100 mA, 24 V
Max. operating frequency		
• at rated load	AC1	360 cycles/hour
• no load		72 000 cycles/hour

Input control circuit

Rated voltage	DC	**12-24 V**
	AC/DC	**24-115** V AC:50/60 Hz
Must release voltage		AC:≥ 0,2 U_n
		DC:≥ 0,1 U_n
Operating range of supply voltage		see Table 1
Must operate voltage		AC and DC: ≤ 0,8 U_n
Rated power consumption	AC/DC	0.3...2.1 VA / 0.3...1.0W
	DC	0.3 W

Insulation

Insulation RATED VOLTAGE	250 V AC (PN-EN 60664-1)
Rated surge voltage	4 000 V AC 1.2 / 50 µs
Overvoltage category	III IEC 61810-52 (PN-IEC 664-1)
Insulation pollution degree	3
Dielectric strength	
• input - output	4 000 V AC 50/60 Hz, 1 min., type of insulation: reinforced
• input - output	6 000 V 1,2 / 50 µs, surge voltage
• input - output	2 500 V AC 50/60 Hz 1 min.
• contact clearance	1 000 V AC 50/60 Hz 1 min., type of clearance: micro-disconnection
Input-Output - coil distance	
• clearance	≥ 6 mm
• creepage	≥ 8 mm

General data

Operating time (typical value)		AC: 11 ms DC: 8 ms
Release time (typical value)		AC: 15 ms DC: 10 ms
Electrical life		
• resistive AC1	360 cycles/hour	> 0,6 x 10^5 6 A, 250 V AC
• cos ø = 0,4		> 2 x 10^5 2 A, 250 V AC
Mechanical life (cycles)		> 2 x 10^7
Dimensions (L x W x H)		98.5 x 6.2 x 85.5 mm
Weight		45g
Ambient temperature		
• storage		-40...+70°C
• operating		-40...+55°C -40...+60°C 12,24 V DC
Protection category		IP 20, PEN-EN 60529
Environmental protection		RTI, PEN-EN 116000-3
Shock resistance		10 g
Vibration resistance		5 g 10...500 Hz

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❶ Standard contact materials and coil rated voltages are marked with bold type.