

General Purpose Relays R2N/R4N Miniature Power Plug-in Relays



R2N Miniature Blade Type Relay



R4N Miniature Blade Type Relay





The Relpol R2N and R4N General Purpose Miniature Power Relays, typically called "miniature cube type" in the industry, offer high reliability and ruggedness without sacrificing the convenience and economy users have come to expect from relays in this size class. This line of plug-in devices is well suited to any application where a dependable low cost control relay is required.

Versatile design for any application

The R2N miniature power relay is rated at 12 amps resistive @240VAC and is available in a 2PDT (2 form-C contacts) contact arrangement. The R4N relay is rated at 6 amps resistive @240VAC and available in a 4PDT (4 form-C contacts) contact design.

The relay contact materials are cadmium-free and are made of highly reliable silver nickel (AgNi) which can perform to currents as low as 5mA@5V. For lower level signal applications, the R4N is also available with silver nickel gold plated contacts for circuits 2mA.

Each relay style is available in ten coil voltages from 6V DC to 110V DC and 6V AC to 240V AC.

Extremely rugged and reliable

The R2N and R4N relays provides long lasting high quality contact reliability even after millions of operations, due to their hard silver contacts with a mechanical life of 20 million cycles, and high contact switching capacity.

Convenient features

All R Series miniature power relay features a mechanical "flag" and a one piece "push-to--test button/latching" lever. The "push-to--test" button permits a momentary testing of the relay contacts. The "latching" lever allows the relay contacts to remain closed for longer testing periods until released back to normal. These standard features save time and labor when troubleshooting control circuitry.

A LED position indicator that shows whether the relay is energized and that the contacts have changed over is available as standard. All relays with DC coils are bi-polar, which means polarity input can either be +/- or -/+ to energize the coil.

DIN-rail mounted relay sockets

The GZT relay sockets offer a unique look in an IEC slim design style. The sockets can be DIN-mounted or screwed directly onto the panel. The socket terminals are fully opened and pin numbers are clearly identified. The relays are easily secured and fastened to the relay sockets. For high vibration applications, optional retainer clips are available to firmly hold the relays to the socket base.

Safety Approvals

The R2N and R4N are UL recognized, CSA certified, VDE certified and CE marked which meets the requirements of all important international approval organizations, making them ideal for use in both domestic and export equipment.



R4N relay and GZT4 socket with GZT4-0040 retainer clip



General Purpose Relay

R2N/R4N Miniature plug-in power relays

Plug-in Relays 2 Pole (Form C)- Miniature Blade Type 0

R2N Relay	Description	Position Indication	Diagram (pin side view)	Coil Voltage	Catalog Number	Pkg Qty
	12A DPTDT 2 Pole (2 Form C) Single AgNi Contact Features: Push-to-test/ Latching Lever as standard Built-in LED Bi-polar input for DC versions	Indicating Flag Electrical LED	12 (1) 42 (4) 14 (5) 44 (8) 11 (9) 41 (12) A1 (13) A2 (14) DPDT	6VDC 12VDC 24VDC 48VDC 110VDC 6VAC 12VAC 24VAC 120VAC 240VAC	R2N-2012-23-1006-WTL R2N-2012-23-1012-WTL R2N-2012-23-1024-WTL R2N-2012-23-1048-WTL R2N-2012-23-1048-WTL R2N-2012-23-1048-WTL R2N-2012-23-5006-WTL R2N-2012-23-5006-WTL R2N-2012-23-5012-WTL R2N-2012-23-5012-WTL R2N-2012-23-5012-WTL R2N-2012-23-5024-WTL R2N-2012-23-5120-WTL R2N-2012-23-5240-WTL	10

Plug-in Relays 4 Pole (Form C) - Miniature Blade Type •

R4N Relay	Description	Position Indica- tion	Diagram (pin side view)	Coil Voltage	Catalog Number	Pkg Qty				
	6A 4PDT			6VDC	R4N-2014-23-1006-WTL					
	4 Pole (4 Form C)		12 (1) 22 (2) 32 (3) 42 (4)	12VDC	R4N-2014-23-1012-WTL	1				
The same of the sa	AgNi Contacts			24VDC	R4N-2014-23-1024-WTL					
				48VDC	R4N-2014-23-1048-WTL	1				
	Features:	Indicating Flag	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	110VDC	R4N-2014-23-1110-WTL	10				
	Push-to-test/	Electrical LED	6VAC	R4N-2014-23-5006-WTL						
	Latching Lever as							12VAC	R4N-2014-23-5012-WTL	
	standard		A1 (13) A2 (14)	24VAC	R4N-2014-23-5024-WTL					
Ĩ	Built-in LED Bi-polar input for DC		4PDT	120VAC	R4N-2014-23-5120-WTL					
	versions			240VAC	R4N-2014-23-5240-WTL					

Plug-in Relays 4 Pole (Form C) - Miniature Blade Type, Low Level Applications •

R4N Relay	Description	Position Indica- tion	Diagram (pin side view)	Coil Voltage	Catalog Number	Pkg Qty
	6A 4PDT			6VDC	R4N-2314-23-1006-WTL	
	4 Pole (4 Form C)			12VDC	R4N-2314-23-1012-WTL	
	AgNi/Au Gold Plated Contacts 2mA 5V		12 (1) 22 (2) 32 (3) 42 (4)	24VDC	R4N-2314-23-1024-WTL	
			$\begin{array}{c c} \bigcirc & \bigcirc & \smile & \smile \\ 14 & 24 & 34 & 44 \end{array}$	48VDC	R4N-2314-23-1048-WTL	
		Indicating Flag	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	110VDC	R4N-2314-23-1110-WTL	10
	Features:	Electrical LED	Electrical LED 11 (9) 21 (10) 31 (11) 41 (12)	6VAC	R4N-2314-23-5006-WTL	10
	Push-to-test/ Latching Lever as			12VAC	R4N-2314-23-5012-WTL	
60000	standard	A1 (13) A2 (14) 4PDT		24VAC	R4N-2314-23-5024-WTL	
	Built-in LED Bi-polar input for DC		4PD1	120VAC	R4N-2314-23-5120-WTL	
	versions			240VAC	R4N-2314-23-5240-WTL	

• The standard features of "Push-to-test/Latching" lever can be easily removed and plugged with an accessory plug or push-to-test only button. See installation guide and accessory plugs/push-to-test buttons on next page.



R2N/R4N Miniature plug-in power relays

Accessories

Accessory	Description	Catalog Number	Pkg Qty
and the second	Screw Terminal, Relpol Miniature Blade-Type Socket for R2N relays - Panel or DIN-rail mounting - 14 blade miniature socket - 12A, 300V rating cURus, CSA, CE	GZT2	10
and the second	Screw Terminal, Relpol Miniature Blade-Type Socket for R4N relays - Panel or DIN-rail mounting - 14 blade miniature socket - 6A, 300V rating cURus, CSA, CE	GZT4	10
47	Retainer clip for GZT2 & GZT4 Miniature blade relay sockets	G41052	25
	Retainer/retractor clip for GZT2 & GZT4 Miniature blade relay sockets	GZT4-0040S	10
	Description plate for GZT2 & GZT4 Miniature blade relay sockets	GZT4-0035	10
	DIN-rail - 2 meter lengths (6' 6") Top Hat, low profile Top Hat, high profile	3F 3AF	20 12
	P-Type button (push-to-test button) See application details below. For R2N/R4N Relays with AC Coils (orange button) For R2N/R4N Relays with DC Coils (green button)	R4P-0001-A R4P-0001-D	100
	 Relay hole plug. Plugs the hole when the T or P type inserts • are removed. See installation details below. For R2N/R4N Relays with AC Coils (orange button) For R2N/R4N Relays with DC Coils (green button) 	R4W-0003-A R4W-0003-D	100

Plug & P-type button (Push-to-test) for R2N and R4N Relays

The R2N and R4N relays are equipped with a one-piece "T" insert that functions either as Push-to-test button or Latching of the relay contacts as standard. The "T" insert can be easily removed and replaced with an accessory Plug for applications that can not include these additional standard features.

The accessory P-Type button (Push-to-test) is recommended for applications that only require manual contact closure for control circuit testing. By manually pressing the P-Type button, the relay contacts change state for as long as the P-Type button is pressed. Contacts return to the initial position as soon as pressure is released from the P-Type button. This operation can be done while the coil is de-energized. The standard "T" insert can be easily removed and replaced with a P-Type button as shown.



Remove the standard "T" plastic insert with a small screwdriver as shown



Insert the P-Type button or Plug as shown and snap down into place



R15 Plug-in **Power Relays Tube Base Style**



R15 2PDT 8-Pin Relay



R15 3PDT 11-Pin Relay





The Relpol R15 General Purpose Plug-in Power Relays offer high reliability and ruggedness in a full featured model design. This line of plug-in devices is well suited for the traditional tube base market. This is widely used in the industry where a dependable low cost control relay is required.

Designed for traditional applications

The R15 plug-in power relay is rated at 10 amps resistive @250VAC and is available in a 2PDT (2 form-C contacts) and 3PDT (3 form-C contacts) contact arrangement. The two pole and three pole relays are housed in traditional 8 pin and 11 pin designs.

The relay contact materials are cadmium-free and are made of highly reliable silver nickel (AgNi) which can perform to currents as low as 5mA@5V. The R15 relays are available in ten coil voltages from 6V DC to 110V DC and 6V AC to 240V AC.

Rugged and reliable

The R15 plug-in power relays provide long lasting high quality contact reliability even after millions of operations, due to their hard silver contacts with a mechanical life of 20 million cycles, and high contact switching capacity.

Convenient features

All R15 plug-in power relays feature a mechanical "flag" and a one piece "push-to-test button/latching" lever. The "push-to-test" button permits a momentary testing of the relay contacts. The "latching" lever allows the relay contacts to remain closed for longer testing periods until released back to normal. These standard features save time and labor when troubleshooting control circuitry.

A LED position indicator shows whether the relay is energized and the contacts have changed over is available as standard.

DIN-rail mounted relay sockets

The PZ relay sockets offer a unique look in an IEC slim design style. The sockets can be DIN-mounted or screwed directly onto the panel. The socket terminals are fully opened and pin numbers are clearly identified. The relays are easily secured and fastened to the relay sockets. For high vibration applications, optional retainer clips are available to firmly hold the relays to the socket base.

Safety Approvals

The R15 plug-in power relays are UL recognized, CSA certified, VDE certified and CE marked which meets the requirements of all important international approval organizations, making them ideal for use in both domestic and export equipment.



R15 2PDT relav and PZ8 socket



R15 3PDT relav and PZ11 socket



General Purpose Relay

R15 Plug-in power relays

Plug-in Relays 2 Pole (Form C) - Tube Base 8-Pin Type ①

R15 Relay	Description	Position Indication	Diagram (pin side view)	Coil Voltage	Catalog Number	Pkg Qty
	10A DPDT			6VDC	R15-2012-23-1006-WTL	
	2 Pole (2 Form C)			12VDC	R15-2012-23-1012-WTL	
1	AgNi Contacts			24VDC	R15-2012-23-1024-WTL	
Mary Mary			\downarrow_{O} 14 (3) \swarrow $24 (6)$	48VDC	R15-2012-23-1048-WTL	
Eli	Features:	Indicating Flag $A1(2) \circ A2(7)$	110VDC	R15-2012-23-1110-WTL	10	
	Push-to-test/	Electrical LED		6VAC	R15-2012-23-5006-WTL	
STATISTICS.	Latching Lever as	11 (Ť) 2Ĭ (8) DPDT		12VAC	R15-2012-23-5012-WTL	
UTUTUTU .	standard		24VAC	R15-2012-23-5024-WTL		
	Built-in LED Bi-polar input for DC		DPDT	120VAC	R15-2012-23-5120-WTL	
	versions			240VAC	R15-2012-23-5240-WTL	

Plug-in Relays 3 Pole (Form C) - Tube Base 11-Pin Type 0

R15 Relay	Description	Position Indication	Diagram (pin side view)	Coil Voltage	Catalog Number	Pkg Qty							
	10A 3PDT			6VDC	R15-2013-23-1006-WTL								
	3 Pole (3 Form C)			12VDC	R15-2013-23-1012-WTL								
	AgNi Contacts		22 (5) 24 (7) 21 (6) 32 (8)	24VDC	R15-2013-23-1024-WTL								
		Indicating Flag						48VDC	R15-2013-23-1048-WTL				
12	Features:		$J \qquad \begin{matrix} L_0 \\ 14(3) \end{matrix} \qquad \begin{matrix} O J \\ 34(9) \end{matrix}$	110VDC	R15-2013-23-1110-WTL	- 10							
Carl Int	Push-to-test/	Electrical LED	A1 (2) 9 A2 (10)	6VAC	R15-2013-23-5006-WTL								
De per	Latching Lever as			11 (1) 31 (11)	12VAC	R15-2013-23-5012-WTL							
and a	standard										24VAC	R15-2013-23-5024-WTL	
	Built-in LED Bi-polar input for DC					3PDT	120VAC	R15-2013-23-5120-WTL					
	versions			240VAC	R15-2013-23-5240-WTL	1							

• The standard features of "Push-to-test/Latching" lever can be easily removed and plugged with an accessory plug or push-to-test button. See installation guide and accessory plugs/push-to-test buttons on page G49.



Accessories

Accessory	Description	Catalog Number	Pkg Qty
	Screw Terminal, Relpol Tube Base 8-PIN Socket for R15 relays - Panel or DIN-rail mounting - 10A, 250V rating, UR, CSA	PZ8	10
	Screw Terminal, Relpol Tube Base 11-PIN Socket for R15 relays - Panel or DIN-rail mounting - 10A, 250V rating, UR, CSA	PZ11	10
	Retainer clip for PZ8 & PZ11 tube base relay sockets	PZ11-0031	25
	DIN-rail - 2 meter lengths (6' 6") Top Hat, low profile Top Hat, high profile	3F 3AF	20 12



Accessories

Accessory	Description	Catalog Number	Pkg Qty
	 P-Type button (push-to-test button) ● See application details below. For R15 Relays with AC Coils (orange button) For R15 Relays with DC Coils (green button) 	R15-M404-A R15-M404-D	100
	Relay hole plug. Plugs the hole when the T or P type inserts are removed. See installation details below. For R15 Relays with AC Coils (orange button) For R15 Relays with DC Coils (green button)	R15-M203-A R15-M203-D	100

Plug & P-type button (Push-to-test) for R15 Relays

The R15 relays are equipped with a one-piece "T" insert that functions either as Push-to-test button or Latching of the relay contacts as standard. The "T" insert can be easily removed and replaced with an accessory Plug for applications that can not include these additional standard features.

The accessory P-Type button (Push-to-test) is recommended for applications that only require manual contact closure for control circuit testing. By manually pressing the P-Type button, the relay contacts change state for as long as the P-Type button is pressed. Contacts return to the initial position as soon as pressure is released from the P-Type button. This operation can be done while the coil is de-energized. The standard "T" insert can be easily removed and replaced with a P-Type button as shown.



Remove the standard "T" plastic insert with a small screwdriver as shown



Insert the P-Type button or Plug as shown and



RUC Plug-in Power Relays Square Base Plug-in



RUC 3PDT Blade Type relay



The Relpol RUC General Purpose Plug-in Power Relays offer high reliability and robustness in a traditional square base design. This line of plug-in devices is well suited for the traditional higher inrush current applications.

Designed for higher amps and inrush applications

The RUC plug-in power relay is rated at 15 amps resistive @250VAC and is available in a 2PDT (2 form-C contacts). It is also available in a 3PDT (3 form-C contacts) contact arrangement rated at 10 amps resistive @250VAC. These relays can handle inrush currents up to 40 amps.

The relay contact materials are made of highly reliable silver tin (AgSnO2) which has a minimum switching capacity of 10mA @10V. The RUC relays are available in ten coil voltages from 6V DC to 110V DC and 6V AC to 240V AC.

Rugged and reliable

The RUC plug-in power relays provide long lasting high quality contact reliability even after millions of operations due to their hard nickel cadmium contacts, with a mechanical life of 20 million cycles, and high contact switching capacity.

Convenient features

The RUC plug-in power relay offers a LED position indicator that shows whether the relay is energized and that the contacts have changed over.

DIN-rail mounted relay sockets

The SB11 relay sockets offer a traditional look in an IEC design. The sockets can be DIN-mounted or screwed directly onto the panel. The terminal pin numbers are clearly identified. The relays are easily secured and fastened to the relay sockets. For high vibration applications, optional retainer clips are available to firmly hold the relays to the socket base.

Safety Approvals

The RUC plug-in power relays are UL recognized, CSA certified and CE marked which meets the requirements of all important international approval organizations, making them ideal for use in both domestic and export equipment.



RUC 3PDT relay and SB11 socket



Plug-in Relays 2 Pole (Form C) - Square Base Blade Type ①

RUC Relay	Description	Position Indication	Diagram (pin side view)	Coil Voltage	Discontinued	Catalog Number	Pkç Qty
	15A DPDT 2 Pole (2 Form C) AgSnO2 Contacts Features: Built-in LED Bi-polar input for DC versions	Indication Flag Electrical LED	(pin side view) 12 (1)0 14 (4)0 34 (6) 0 11 (7)0 31 (9) 0 A1 (A) A2 (B) DPDT	Voltage 6VDC 12VDC 24VDC 48VDC 110VDC 6VAC 12VAC 24VAC 12VAC	Discontinued RUC-1012-26-1006-L RUC-1012-26-1012-L RUC-1012-26-1024-L RUC-1012-26-1048-L RUC-1012-26-1110-L RUC-1012-26-5006-L RUC-1012-26-5012-L RUC-1012-26-5024-L RUC-1012-26-5024-L RUC-1012-26-5024-L RUC-1012-26-5120-L	RUC-3012-26-1006-L RUC-3012-26-1012-L RUC-3012-26-1012-L RUC-3012-26-1024-L RUC-3012-26-1048-L RUC-3012-26-1110-L RUC-3012-26-5006-L RUC-3012-26-5012-L RUC-3012-26-5012-L RUC-3012-26-5024-L RUC-3012-26-5120-L	10

Plug-in Relays 3 Pole (Form C) - Square Base Blade Type 0

RUC Relay	Description	Position Indication	Diagram (pin side view)	Coil Voltage	Discontinued	Catalog Number	Pkg Qty	
	10A 3PDT 3 Pole (3 Form C) AgSnO2 Contacts Features: Built-in LED Bi-polar input for DC versions	Indicating Flag Electrical LED	(pm side view) 12 (1) 22 (2) 14 (4) 24 (5) 14 (6) 11 (7) 21 (8) 21 (8) 21 (8) 31 (9) A1 (A) 3PDT	6VDC 12VDC 24VDC 48VDC 110VDC 6VAC 12VAC 24VAC 120VAC	Biscontinued RUC-1013-26-1006-L RUC-1013-26-1012-L RUC-1013-26-1024-L RUC-1013-26-1048-L RUC-1013-26-1048-L RUC-1013-26-5006-L RUC-1013-26-5012-L RUC-1013-26-5024-L RUC-1013-26-5024-L RUC-1013-26-5120-L	RUC-3013-26-1006-L RUC-3013-26-1012-L RUC-3013-26-1024-L RUC-3013-26-1048-L RUC-3013-26-1110-L RUC-3013-26-5006-L RUC-3013-26-5012-L RUC-3013-26-5024-L RUC-3013-26-5024-L	10	Relaol Control Relavs
				240VAC	RUC-1013-26-5240-L	RUC-3013-26-5240-L		

Accessories

Accessory	Description	Catalog Number	Pkg Qty
	Screw Terminal, Square Base Blade type Socket for RUC relays - Panel or DIN-rail mounting @ - 15A, 300VAC rating, UR, CSA	SB11	10
	Retainer clip for SB11 tube base relay sockets	MBA	25
	DIN-rail - 2 meter lengths (6' 6") Top Hat, low profile Top Hat, high profile	3F 3AF	20 12

• Relays can be special ordered with No LED's, contact your Sprecher + Schuh representative.

This product is sourced from a third party manufacturer, not Relpol.



RY2 Plug-in Power Relays Slim Square Base



RY2 2PDT Blade Type Relay



The Relpol RY2 General Purpose Plug-in Power Relay is a traditional square base blade type style designed for higher current application in a small design.

Designed for higher amp applications in a reduced size

The RY2 plug-in power relay is rated at 12 amps resistive @250VAC and is available in a 2PDT (2 form-C contacts). These relays can handle inrush currents up to 20 amps in a small packaged design.

The relay contact materials are made of highly reliable silver nickel which has a minimum switching capacity of 5mA@5V. The RY2 relays are available in ten coil voltages from 6V DC to 110V DC and 6V AC to 240V AC.

Rugged and reliable

With a mechanical life of 20 million cycles, and high contact switching capacity due to their hard nickel cadmium contacts, the RY2 plug-in power relay provides long lasting high quality contact reliability even after millions of operations.

Convenient features

All RY2 plug-in power relays feature a mechanical "flag" indicator and a LED position indicator that shows whether the relay is energized and that the contacts have changed over.



DIN-rail mounted relay sockets

The SB08 relay sockets offer a slim space savings design. The sockets can be DIN-mounted or screwed directly onto the panel. The terminal pin numbers are clearly identified. The relays are easily secured and fastened to the relay sockets. For high vibration applications, optional retainer clips are available to firmly hold the relays to the socket base.

Safety Approvals

The RY2 plug-in power relays are cURus recognized and CE marked which meets the requirements of all important international approval organizations, making them ideal for use in both domestic and export equipment.



General Purpose Relay

RY2 plug-in power relays

Plug-in Relays 2 Pole (Form C) - Slim Blade Type

RY2 Relay	Description	Position Indication	Diagram (pin side view)	Coil Voltage	Catalog Number	Pkg Qty				
				6VDC	RY2-2012-26-1006-L					
			12 (1) 42 (2)	12VDC	RY2-2012-26-1012-L					
2	12A DPDT 2 Pole (2 Form C)			24VDC	RY2-2012-26-1024-L					
	AqNi Contact		0-J LO 14 (3) 44 (4)	48VDC	RY2-2012-26-1048-L					
P3 18	5	Indicating Flag Electrical LED	11 (5) 41 (6)	110VDC	RY2-2012-26-1110-L	10				
	Features:		Electrical LED	Electrical LED		6VAC	RY2-2012-26-5006-L	10		
	Built-in LED			12VAC	RY2-2012-26-5012-L					
	Bi-polar input for DC				1		A1 (7) A2 (8)	24VAC	RY2-2012-26-5024-L	
	versions		DPDT	120VAC	RY2-2012-26-5120-L					
				240VAC	RY2-2012-26-5240-L					

Accessories

Accessory	Description	Catalog Number	Pkg Qty
	Screw Terminal, Square Base Blade type Socket for RY2 relays - Panel or DIN-rail mounting ① - 15A, 300VAC rating, UR, CSA	SB08	10
	Retainer clip forGZY2 tube base relay sockets	SP-8	25
10000000000000000000000000000000000000	DIN-rail - 2 meter lengths (6' 6") Top Hat, low profile Top Hat, high profile	3F 3AF	20 12

• This product is sourced from a third party manufacturer, not Relpol.



Interface PCB Relays PI84/PI85



RM84 Interface PCB Relay used in Pl84 complete assembly



RM85 Interface PCB Relay used in PI85 complete assembly





The Relpol PI84/PI85 Interface PCB Relays offer a unique design for high current applications. The low current input and power consumption with load capabilities of high current switching is ideal for limited input sources and panel space savings.

A full featured model in one small package

The PI84/PI85 interface PCB relays are offered as a complete package which includes the following five factory installed pieces:

- 1. PCB (Printed Circuit Board module)
- 2. Relay socket
- 3. LED position indicator
- 4. Retainer clip
- 5. Description plate

Low input current, high switching capabilities

The PI84 interface PCB relays is rated at 8 amps resistive @250VAC and is available in a 2PDT (2 form-C contacts). The PI85 is rated at 16 amps resistive @250VAC and is available in a SPDT (1 form-C contact). The coil power consumption is approximately 750mA AC or 480mW DC.

Both interface relay styles are available in 24V DC, 24V AC and 120V AC models.

Rugged and reliable

With a mechanical life of 20 million cycles, and high contact switching capacity due to their hard nickel cadmium contacts, the PI84/PI85 interface PCB relays provide long lasting high quality contact reliability even after millions of operations.

DIN-rail mounted relay sockets

The PI84/PI85 interface relay DIN-mounted sockets offer a slim space savings design. The relay socket includes a retainer clip to firmly hold the PCB relay and a description plate as standard.

Safety Approvals

The RM84 & RM85 interface PCB relays are UL recognized, CSA, VDE certified and CE marked which meets the requirements of all important international approval organizations, making them ideal for use in both domestic and export equipment.



PI84 Interface PCB Relay complete assembly

Discount Schedule B5



PI84/PI85 Interface relays

Interface PCB Relays (Form C) - 2 Pole

PI84 PCB Relay	Description	Position Indication	Coil Voltage	Discontinued	Catalog Number	Pkg Qty
	8A DPDT 2 Pole (2 Form C) AqNi Contacts		24VDC	PI84-24DC-M41G	PI84-024DC-M4IG-TS-2012	
	Includes: PCB relay, plug-in	Electrical LED	24VAC	PI84-24AC-M91G	PI84-024AC-M91G-TS-2012	10
atr	socket, protective module, retainer clip and description plate		120VAC	PI84-120AC-M93G	PI84-120AC-M93G-TS-2012	

Interface PCB Relays (Form C) - 1 Pole

PI85 PCB Relay	Description	Position Indication	Coil Voltage	Discontinued	Catalog Number	Pkg Qty
	16A SPDT 1 Pole (1 Form C) AqNi Contacts		24VDC	PI85-24DC-M41G	PI85-024DC-M41G-TS-2011	
	Includes: PCB relay, pluo-in	Electrical LED 2	24VAC	PI85-24AC-M91G	PI85-024AC-M91G-TS-2011	10
al	socket, protective module, retainer clip and description plate		120VAC	PI85-120AC-M93G	PI85-120AC-M93G-TS-2011	

Accessories

RM84/RM85	Description	For use with	Catalog Number	Pkg Qty
		PI84-024DC-M41G	RM84-2012-25-1024	
A THE A CONTRACT OF		PI84-024AC-M91G	RM84-2012-25-5024	20
And the second	Replacement PCB Relay Replacement operational	PI84-120AC-M93G	RM84-2012-25-5120	
	relays for PI84/PI85 Interface PCB Relays	PI85-024DC-M41G	RM85-2011-25-1024	
RM85		PI85-024AC-M91G	RM85-2011-25-5024	20
		PI85-120AC-M93G	RM85-2011-25-5120	



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.

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 capabilities 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.



PIR6W Slim Interface Relay Complete Assembly

Rugged and reliable

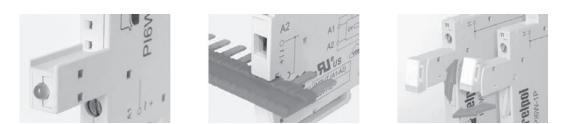
With a mechanical life of 20 million cycles, and high contact switching capacity due to their silver tin oxide (AgSnO₂) contacts, the PIR6W interface relays provide long lasting high quality contact reliability even after millions of operations.

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 cU-Rus, 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.





PIR6W Interface Relays

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

PIR6W	Specifications	Input Voltage	Catalog Number	Pkg Qty
At At	14 11 12 A2 A1	12VDC	PIR6W-1P-12VDC	
AS PIEW-IP-24VDC AS AS AS AS AS AS AS AS AS AS	6A SPDT	24VDC	PIR6W-1P-24VDC	10
Market Constraints and the second sec	1 Pole (1 Form C) AgSnO ₂	24V AC/DC	PIR6W-1P-24VAC/DC	10
	Includes: – Change over relay with built-in Green LED indicator	115V AC/DC	PIR6W-1P-115VAC/DC	

* Gray denotes special order.

Accessories

Accessory	Description	For use with	Catalog Number	Pkg Qty
Telpol Personal and the second		PIR6W-1P-12VDC	RM699BV-3011-85-1012	
	Interface Operational Relay <i>●</i> Replacement operational relays for PIR6W Interface Terminal Block Relays	PIR6W-1P-24VDC PIR6W-1P-24VAC/DC ❷ PIR6W-1P-115VAC/DC	RM699BV-3011-85-1024	20
	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	20
	Replacement Description Plates Allows user to label individual PIR6W Relays (one included with PIR6W-1P Relays)	PIR6W-1P	PI6W-1246	100

• Other input voltages available as special order; contact your Sprecher + Schuh Representative.

- It should be noted that rated voltage Un of the input/operational relay coil does not always comply with the rated voltage Un of the interface relay (which is important on ordering operational relays for sockets).
- Previously accepted older model RM699V-3011-85-1012 12VDC replacement relay. Now supports a 24VDC relay model RM699BV-3011-85-1024.
- In March 2016, Relpol changed the DIN-rail fixing place location as represented in this view.



Miniature plug-in power relays

Technical Information

		R2N		R4N
Contacts				
Contact number & arrangement		DPDT		4PDT
Contact material		AgNi		AgNi, AgNi/Au 5 μ m
Max. switching voltage	AC/DC	250 V / 250 V		250 V / 250 V
Min. switching voltage		5 V		5 V
Rated load	AC1	12 A / 250 V AC		6 A / 250 V AC
	AC15	3 A /120 V		1.5 A /120 V
		1.5 A / 240 V (B300)		0.75 A / 240 V (C300)
	AC3	370 W (Single-phase motor)		125 W (Single-phase motor)
	DC1	12 A / 24 V DC		6 A / 24 V DC
	DC13	0.22 A / 120 V DC		0.22 A / 120 V DC
	DOIS			
		0.1 A / 250 V (R300)		0.1 A / 250 V (R300)
Min. switching current		5 mA AgNi		2 mA AgNi/Au 5 µm
Max. inrush current		24 A		12 A
Rated current		12 A		6 A
Max. breaking capacity	AC1	3 000 VA		1 500 VA
Min. breaking capacity		0,3 W AgNi		0,3 W AgNi, 0,1 W AgNi/Au 5 μ m
Resistance			\leq 100 m Ω	
Max. operating frequency				
 at rated load 	AC1		1 200 cycles/hour	
no load			18 000 cycles/hour	
General data				
Operating time (typical value)				
Release time (typical value)			AC: 10 ms DC: 13 ms	
Electrical life			AC: 8 ms DC: 3 ms	
resistive AC1		$\geq 10^5$ 12 A, 250 V AC		\geq 10 ⁵ 6 A, 250 V AC
• $\cos\phi$			see graphs on page G67	
Mechanical life (cycles)			$\geq 2 \times 10^7$	
Dimensions (L x W x H)			27,5 x 21,2 x 35,6 mm	
Weight			35 g	
Ambient temperature			5	
storing			-40+85 °C	
operating		А	C: -40+55 °C DC: -40+70 °	2
Cover protection category			IP 40	5
Shock resistance	(NO/NC)		10 g / 5 g	
Vibration resistance	(110/110)		5 g 10150 Hz	
Solder bath temperature			max. 270 °C	
Soldering time			max. 5 s	
			Παλ. J δ	
Insulation		0050		DOCO
Insulation category		C250	0501/40	B250
Insulation rated voltage			250 V AC	
Dielectric strength			0.5000	
coil - contact			2 500 V AC	
 contact - contact 		0.5003/100	1 500 V AC	0.0001/100
pole - pole		2,500 V AC		2,000 V AC
Contact - coil distance				
clearance		≥ 2,5 mm		≥ 1,6 mm
creepage		\geq 4 mm		\geq 3,2 mm
UL/CSA Ratings				
Contact Ratings, General Purpose		10A 250V AC 12A 150V AC		6A 250VAC
DC Rating			10A 28V DC	
UL File Number			E105728	
CSA File Number			LR86957	
Standards			UL 508, CAN/CSA-C22.2 No. 14	



Miniature plug-in power relays

Technical Information

		R2N	R4N
Coil			
Rated voltage	50/60 Hz AC	624	10 V
Contact material	DC	611	0 V
Must release voltage		$AC: \ge 0,2 U_n$	$DC: \geq 0,1 U_n$
Operating range of supply voltage		see tables	s below
Rated power consumption	AC	1,6 \	VA
	DC	0,9	W

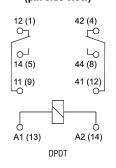
Coil Data - AC 50/60 Hz voltage version

	Rated Voltage	Coil Resistence	Coil Operating Range V AC	
Coil Code	V AC	(±10%) at 20 °C	min. (at 20 °C)	max. (at 55 °C)
5006	6	9,8	4,8	6,6
5012	12	39,5	9,6	13,2
2024	24	158,0	19,2	26,4
5120	120	3 770,0	96,0	132,0
5240	240	16 800,0	192,0	264,0

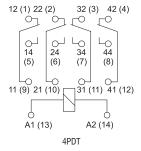
Coil Data - DC voltage version

	Rated Voltage	Coil Resistence	Coil Operating Range V DC	
Coil Code	V DC	(±10%) at 20 °C	min. (at 20 °C)	max. (at 55 °C)
1006	6	40	4,8	6,6
1012	12	160	9,6	13,2
1024	24	640	19,2	26,4
1048	48	2600	38,4	52,8
1110	110	13 600	88,0	121,0

R2N Connections Diagram (pin side view)

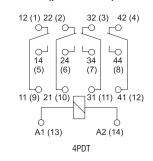


R4N-2014 Connections Diagram (pin side view)



Note: Bi-polar input for DC versions

R4N-2314 Connections Diagram (pin side view)



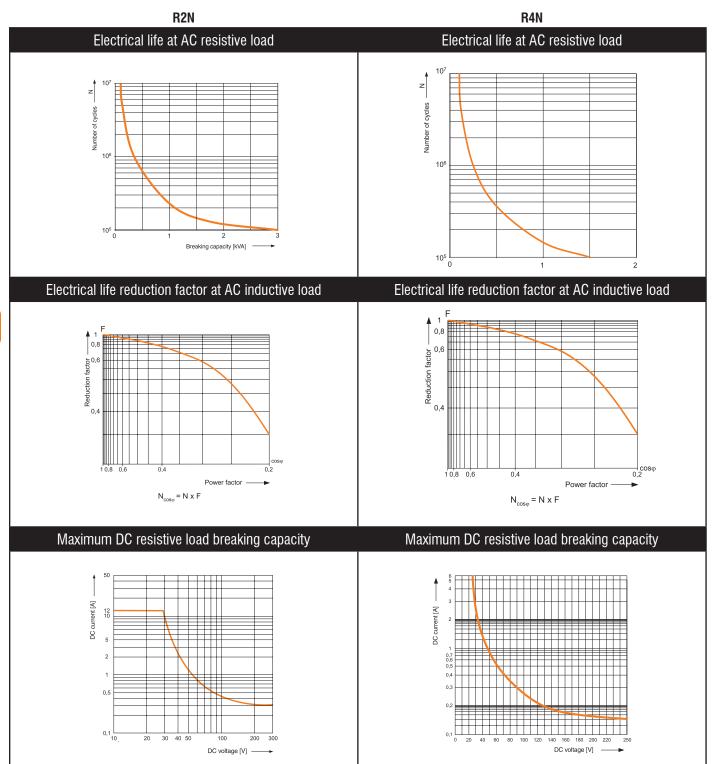
Relpol Control Relays

F

SSNA2018



Miniature plug-in power relays

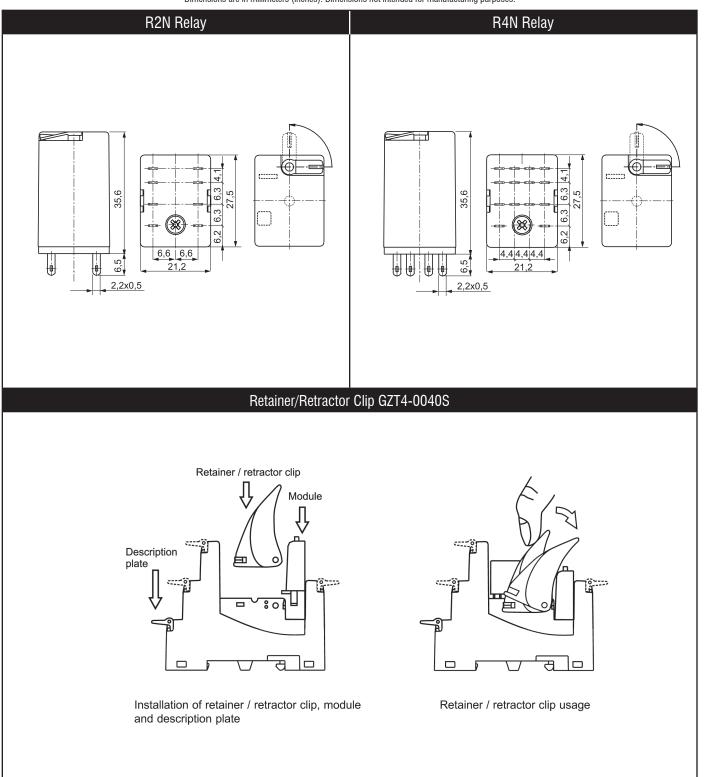


R2N/R4N Dimensions



Miniature plug-in power relays

Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.



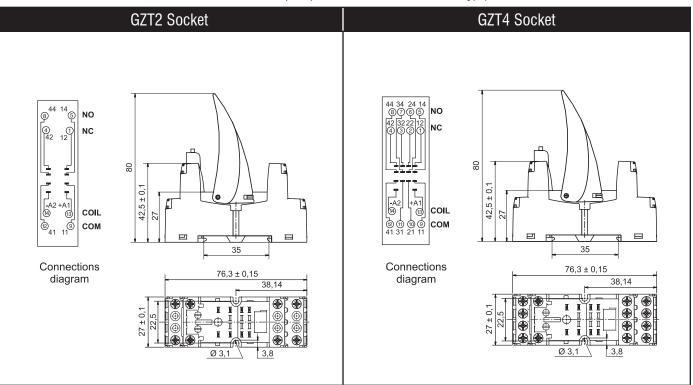
Relpol Control Relays



R2N/R4N Dimensions

Miniature plug-in power relays

Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.





Technical Information

	R15				
Contacts					
Contact number & arrangement		DP	PDT, 3PDT		
Contact material			AgNi		
Max. switching voltage	AC/DC		250 V		
Min. switching voltage			5 V AgNi		
Rated load	AC1		/ 250 V AC		
hatou loud	AC15		1.5 A / 240 V (B300)		
	AC3	370 W (single-phase motor 1/2 HP / 240 V AC UL 508)			
	DC1	10 A / 24 V DC			
	DC13	0.22 A / 250 V 0.1 A / 250 V (R300)			
Min. switching current	0010	5 mA AgNi			
Max. inrush current			20 A		
Rated current			10 A		
Max. breaking capacity	AC1	2 500 VA			
	AUT				
Min. breaking capacity			0,3 W		
Resistance			100 mΩ		
Max. operating frequency					
at rated load	AC1) cycles/hour		
no load		12 000	0 cycles/hour		
General data					
Operating time (typical value)		AC: 12 r	ms DC: 18 ms		
Release time (typical value)		AC: 10 ms DC: 7 ms			
Electrical life					
 resistive AC1 		≥ 2x10⁵	10 A, 250 V AC		
• $\cos\phi$			hs on page G76		
Mechanical life (cycles)			$\geq 2 \times 10^7$		
Dimensions (L x W x H)			35x 54,4 mm		
Weight			83 q		
Ambient temperature			00 g		
storing		٨٢	0+85 ℃		
0					
operating		AU40+35	°C DC: -40+70 °C IP 40		
Cover protection category	(1)(0,(1)(0))				
Shock resistance	(NO/NC)		10 g		
Vibration resistance			10150 Hz		
Solder bath temperature			ax. 270 °C		
Soldering time		r	nax. 5 s		
Insulation					
Insulation category			C250		
Insulation rated voltage		2	250 V AC		
Dielectric strength					
• coil - contact		2	500 V AC		
contact - contact			500 V AC		
			000 V AC		
pole - pole Contact poil distance		2			
Contact - coil distance			0		
 clearance 			≥ 3 mm		
creepage		4,2 mm			
UL/CSA Ratings					
Contact Ratings, General Purpose		10A - 120 250V AC, 240 VAC			
Pilot Duty Ratings		B300			
Contacts	Inductive	Make	Break HP		
	120VAC				
	240VAC				
	DC		A 28V DC		
UL File Number			105728		
CSA File Number			R86957		
Standards			I/CSA-C22.2 No. 14		
σταπιμαί μο		UL 300, CAN			



Technical Information

	R15
Coil	
Rated voltage	AC: 6240 V 50/60 Hz DC: 6110 V
Must release voltage	$AC: \ge 0,15 \text{ U}_n \qquad DC: \ge 0,1 \text{ U}_n$
Operating range of supply voltage	see coil data tables below
Rated power consumption	AC: 2,8 VA 50 Hz 2,5 VA 60 Hz DC: 1,5 W

Coil Data - AC 50/60 Hz voltage version

	Rated Voltage	Coil Resistence	Coil Operatin	g Range V AC
Coil Code	V AC	(±10%) at 20 °C Ω	min. (at 20 °C)	max. (at 55 °C)
5006	6	4,3	4,8	6,6
5012	12	18,5	9,6	13,2
2024	24	75,0	19,2	26,4
5120	120	1 910,0	96,0	132,0
5240	240	7 760,0	192,0	264,0

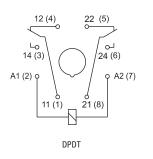
Coil Data - DC voltage version

	Rated Voltage	Coil Resistence	Coil Operatin	g Range V DC
Coil Code	V DC	(±10%) at 20 °C Ω	min. (at 20 °C)	max. (at 55 °C)
1006	6	28	4,8	6,6
1012	12	110	9,6	13,2
1024	24	430	19,2	26,4
1048	48	1 750	38,4	52,8
1110	110	9 200	88,0	121,0

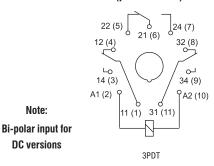
Note:

DC versions

R15 8-Pin Connection Diagram (pin side view)

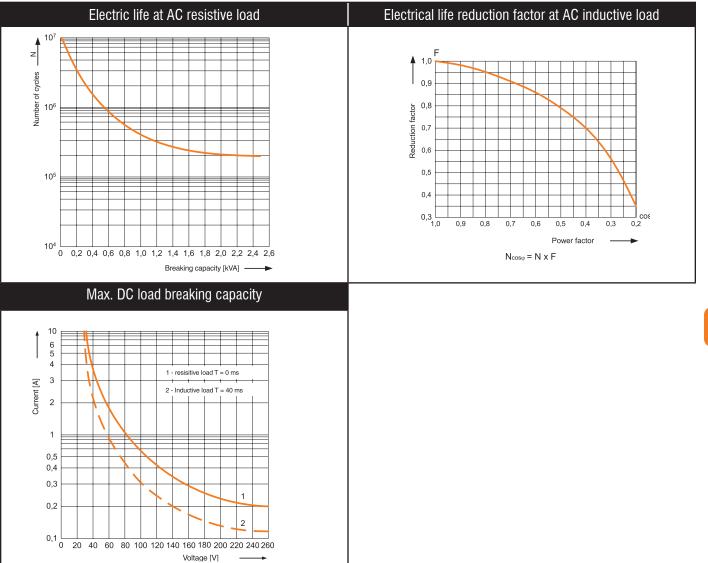


R15 11-Pin Connection Diagram (pin side view)





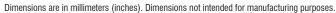


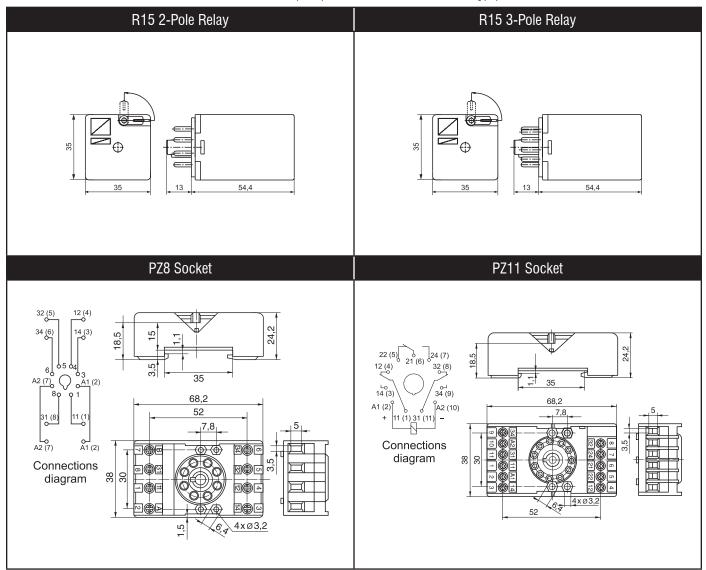




R15 Dimensions

Plug-in power relays







Technical Information

		RUC
Contacts		
Contact number & arrangen	nent	DPDT, 3PDT
Contact material		AgSn02
Max. switching voltage	AC/DC	250 V
Min. switching voltage		10 V
Rated load	AC1	16 A / 250 V AC
	DC1	16 A / 24 V DC
Min. switching current		10 mA
Max. inrush current		40 A
Rated current		16 A
Max. breaking capacity	AC1	4 000 VA
Min. breaking capacity		1 W
Resistance		\leq 100 m Ω
Max. operating frequency		
 at rated load 	AC1	1 200 cycles/hour
• no load		12 000 cycles/hour
General data		
Operating time (typical value	e)	AC: 12 ms DC: 12 ms
Release time (typical value)	,	AC: 10 ms DC: 7 ms
Electrical life		
 resistive AC1 		$\geq 10^5$ 16 A, 250 V AC
• $\cos\phi$		see graphs on page
Mechanical life (cycles)		$\geq 10^{7}$
Dimensions (L x W x H)		38,6 x 36,1 x 45,5 mm
Weight		85 g
Ambient temperature		
 storage 		-40+85 °C
 operating 	AC	-40+55 °C 3 C/0, 3 NO / 16A
		(+70 °C 2 C/0, 2 NO / 16 A)
	DC	-40+55 °C 3 C/O, 3 NO / 16A
		$(+70 \ ^{o}C$ 3 C/0, 3 N0 / 10 A; 2 C/0, 2 N0 / 16 A)
Cover protection category		IP 40
Shock resistance	(NO/NC)	10 g
Vibration resistance		5 g 10150 Hz
Solder bath temperature		max. 270 °C
Soldering time		max. 5 s

_...

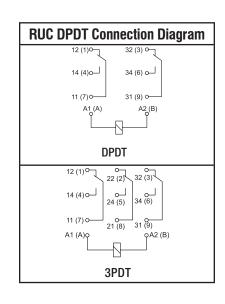
		F	UC	
Insulation				
Insulation category		C	250	
Insulation rated voltage		400) V AC	
Dielectric strength				
 coil - contact 		2 50	0 V AC	
 contact - contact 		1 50	0 V AC	
 contact - contact 3 million 	m	2 50	0 V AC	
 pole - pole 		2 00	O V AC	
Contact - coil distance				
clearance / • creepage		≥ 6 mm	$n/\geq 8 mm$	
UL/CSA Ratings				
Contact Ratings		DPDT	3PDT	
		10A 250 V AC		
General Purpose Rating		15A 250V (resistive)	10 A 250 V AC	
		15A 150 V AC		
Motor Load according	2 C/0:	1/3 HP 120 V AC sir	igle-phase motor	
to UL 508		1/2 HP 240 V AC sir	ngle-phase motor	
	3 C/0:	1/3 HP 120 V AC sir	igle-phase	
		1/2 HP 240 V AC sir	igle-phase motor	
		1/2 HP 240 V AC three-phase motor		
Pilot Duty Ratings		В	300	
Contacts	Inductive		reak HP	
	120VAC		3A 1/3	
	240VAC		.5A 1/2	
	DC		28V DC	
UL File Number)5728	
CSA File Number			B6957	
Standards		UL 308, GAN/U	CSA-C22.2 No. 14	
Coil				
Rated voltage	50/60 HzAC		240 V	
	DC		.110 V	
Must release voltage		AC: ≥ 0,15 Un DC: 0,1 Un		
Operating range of supp		see coil data tables below		
Rated power	AC	2,8 VA 50 Hz	,	
consumption	DC	1,5 W / 1,7 W with	$1 \text{ contact gap} \ge 3 \text{ mm}$	

Coil Data - AC 50/60 Hz voltage version

	Rated Voltage	Coil Resistence	Coil Operatin	g Range V AC
Coil Code	V AC	(±10%) at 20 °C Ω	min. (at 20 °C)	max. (at 55 °C)
5006	6	4,3	4,8	6,6
5012	12	18,5	9,6	13,2
2024	24	75,0	19,2	26,4
5120	120	1 910	96,0	132,0
5240	240	7 760	192,0	264,0

Coil Data - DC voltage version

	Rated Voltage	Coil Resistence	Coil Operatin	g Range V DC
Coil Code	V DC	(±10%) at 20 °C Ω	min. (at 20 °C)	max. (at 55 °C)
1006	6	28	4,8	6,6
1012	12	110	9,6	13,2
1024	24	430	19,2	26,4
1048	48	1 750	38,4	52,8
1110	110	9 200	88,0	121,0

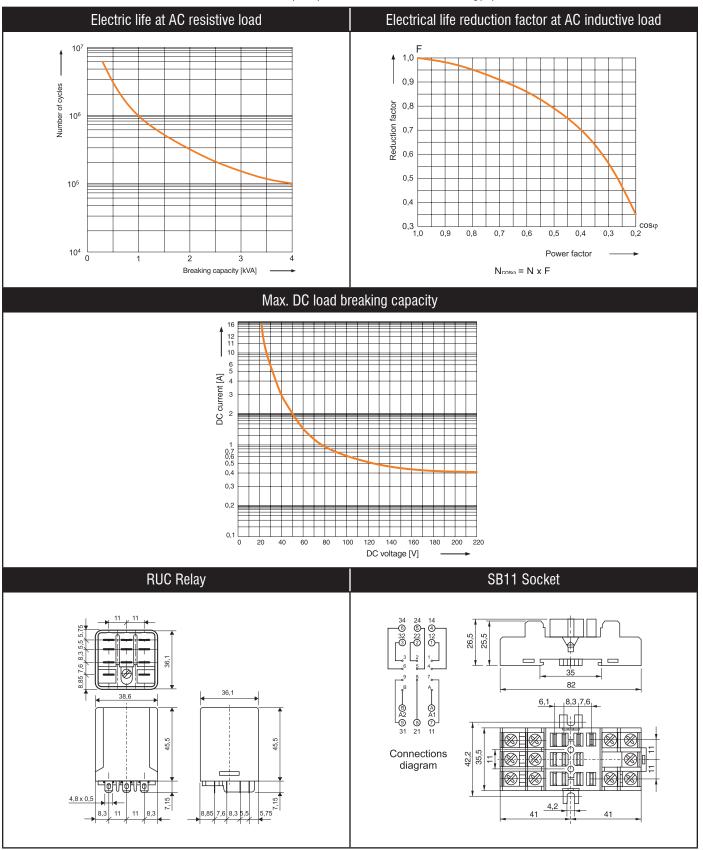




RUC Dimensions

Plug-in power relays





Relpol Control Relays



Plug-in Power Relays

Technical Information

			RY2	
Contacts				
Contact number & arrangement			DPDT	
Contact material			RY2-1012 AgCdO / RY2-2012 AgNi	
Max. switching voltage	AC/DC		250 V / 250 V	
Min. switching voltage			AgCdO 10 V / AgNi 5 V	
Rated load	AC1		12 A / 250 V AC	
	DC1		12 A / 30 V DC	
Min. switching current			AgCdO 10 mA / AgNi 5 mA	
Max. inrush current			20 A	
Rated current			12 A	
Max. breaking capacity	AC1		3 000 VA	
Min. breaking capacity			1 W	
Resistance			\leq 100 m Ω	
Max. operating frequency				
at rated load	AC1		1 200 cycles/hour	
no load			18 000 cycles/hour	
General data			,,	
Operating time (typical value)			15 ms	
Release time (typical value)			10 ms	
Electrical life			10 113	
resistive AC1			≥ 10⁵ 12 A, 250 V AC	
• COS <i>\phi</i>			see graphs on page G88	
Mechanical life (cycles)			$\geq 10^7$	
Dimensions (L x W x H)			27,5 x 21,1 x 34,5 mm	
Weight			35 g	
Ambient temperature			35 y	
storing			-40+70 °C	
operating			-40+70 °C	
Cover protection category				
Shock resistance			10 g	
	(NO/NC)		5 g 15150 Hz	
Vibration resistance			max. 270 °C	
Solder bath temperature				
Soldering time			max. 5 s	
Insulation			2020	
Insulation category			B250	
Insulation rated voltage			250 V AC	
Dielectric strength				
 coil - contact 			2 500 V AC	
 contact - contact 			1 500 V AC	
• pole - pole			2 500 V AC	
Contact - coil distance				
clearance			\geq 2,6 mm	
creepage			4 mm	
UL/CSA Ratings				
Contact Ratings				
General Purpose Rating			10A 250V AC	
Pilot Duty Ratings			B300	
Contacts	Inductive	Make	Break	HP
	120VAC	30A	3A	1/3
	240VAC	15A	1.5A	1/2
	DC		10A 28V DC	
UL File Number			E105728	
Standards			UL 508	



Technical Information

		RY2
Coil		
Rated voltage	50/60 Hz AC	6240 V
	DC	6110 V
Must release voltage		AC: \geq 0,2 U _n DC: 0,1 U _n
Operating range of supply vol	Itage	see coil data tables below
Rated power consumption	AC	1,6 VA
	DC	0,9 W

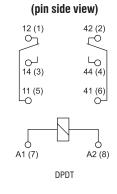
Coil Data - AC 50/60 Hz voltage version

	Rated Voltage	Coil Resistence	Coil Operatin	g Range V AC
Coil Code	V AC	(±10%) at 20 °C Ω	min. (at 20 °C)	max. (at 55 °C)
5006	6	9,8	4,8	6,6
5012	12	39,5	9,6	13,2
2024	24	158,0	19,2	26,4
5120	120	3 770,0	96,0	132,0
5240	240	16 800,0	192,0	264,0

Coil Data - DC voltage version

	Rated Voltage	Coil Resistence	Coil Operatin	g Range V DC
Coil Code	V DC	(±10%) at 20 °C Ω	min. (at 20 °C)	max. (at 55 °C)
1006	6	40	4,0	5,5
1012	12	160	9,6	13,2
1024	24	640	19,2	26,4
1048	48	2 600	38,4	52,8
1110	110	13 600	88,0	121,0

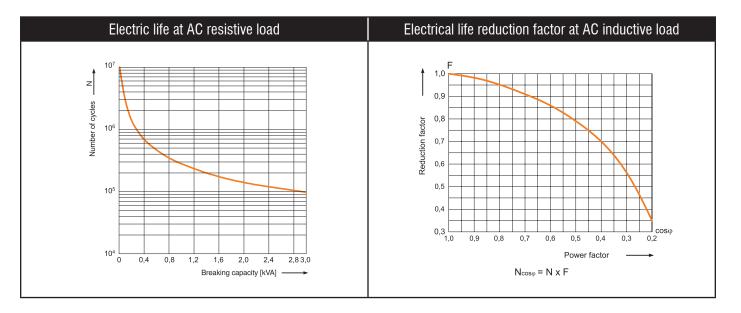
RY2 Connection Diagram



Note: Bi-polar input for DC versions

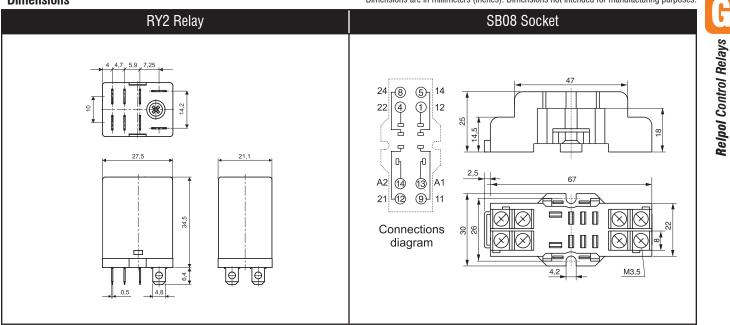


Plug-in Power Relays



Dimensions

Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.





Technical Information

		P184		P185
Contacts				
Contact number & arrangement		DPDT		SPDT
Contact material			AgNi	
Max. switching voltage	AC/DC		400 V / 300 V	
Min. switching voltage			5 V	
Rated load	AC1	8 A / 250 V AC		16 A / 250 V AC
	AC15	3 A / 120 V AC		3 A / 120 V AC
		1.5 A / 240 V AC (B300)		1.5 A / 240 V AC (B300)
	AC3	550 W (single-phase motor)		750 W (single-phase motor)
	DC1	8 A / 24 V DC		16 A / 24 V DC
	DC13	0.22 A / 120 V DC		0.22 A / 120 V DC
		0.1 A / 250 V DC (R300)		0.1 A / 250 V DC (R300)
Min. switching current			5 mA	
Max. inrush current		15 A		30 A
Rated current		8 A		16 A
Max. breaking capacity	AC1	2 000 VA		4 000 VA
Min. breaking capacity			0,3 W	
Resistance		\leq 100 m Ω	,	
Max. operating frequency				
at rated load	AC1		600 cycles/hour	
 no load 			172 000 cycles/hour	
General data			× ·	
Operating time (typical value)			7 ms	
Release time (typical value)			3 ms	
Electrical life				
resistive AC1		> 10 ⁵ 8 A, 250 V AC		$\geq 0.7 \text{ x } 10^5 16 \text{ A}, 250 \text{ V AC}$
• $\cos\phi$			see graphs on page 94	
Mechanical life (cycles)			\geq 3 x 10 ⁷	
Dimensions (L x W x H)			75,3 x 15,5 x 67 mm	
Weight			62 g	
Ambient temperature				
storing			-40+85 °C	
operating		AC	: -40+70 °C DC: -40+85 °C	
Protection category				
• cover			IP 40	
terminals			IP 20	
Shock resistance		20 g		30 g
Vibration resistance	(NO/NC)		10 g / 5 g	
Insulation				
Insulation category			C250	
Insulation rated voltage			400 V AC	
Dielectric strength				
 coil - contact 			5 000 V AC	
 contact - contact 			1 000 V AC	
• pole - pole		2 500 V AC		
Contact - coil distance				
 clearance 			\geq 10 mm	
 creepage 			≥ 10 mm	



Clamp bridge

•

• •

0

(D (D)

Cu wire min. 1,5 mm²

Interface Relays

Technical Information

		PI84	PI85
Coil			
Rated voltage	50/60 Hz AC	24-120	V
	DC	24V	
Must release voltage		AC: ≥ 0,15 Un I	DC: 0,1 Un
Operating range of supply voltage		see Table 1, 2 ar	nd Fig. 4, 5
Rated power consumption	AC	0,75 V/	Ą
	DC	0,40,48	3 W

Coil Data - AC 50/60 Hz voltage version

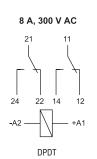
	Rated Voltage	Coil Resistence	Coil Operating Range V AC	
Coil Code	V AC	(±10%) at 20 °C	min. (at 20 °C)	max. (at 55 °C)
24AC	24	400	19,2	26,4
120AC	120	10 200	96,0	144,0

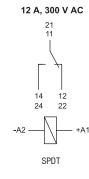
Coil Data - DC voltage version

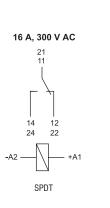
	Rated Voltage	Coil Resistence	Coil Operating Range V DC	
Coil Code	V DC	(±10%) at 20 °C	min. (at 20 °C)	max. (at 55 °C)
24DC	24	1 440	16,8	61,2

PI84 Connection Diagram

(pin side view)







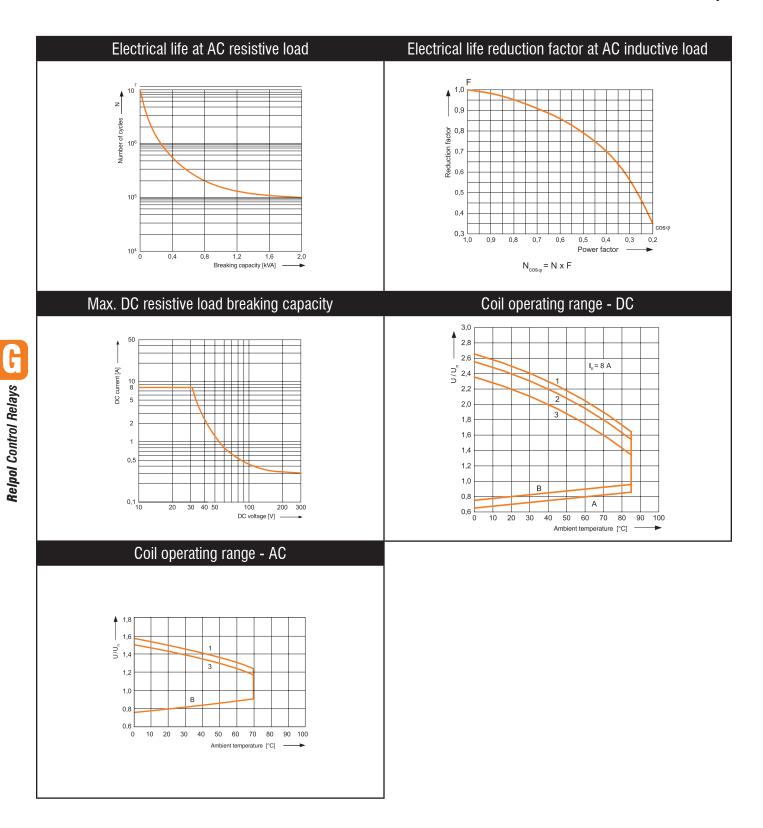
PI85 Connection Diagram

(pin side view)

Note: Loads above 12 A require bridging pairs of terminals: 11 with 21, 12 with 22, 14 with 24. Loads up to 12 A do not require bridging of common terminals (such bridges may be fixed, however)

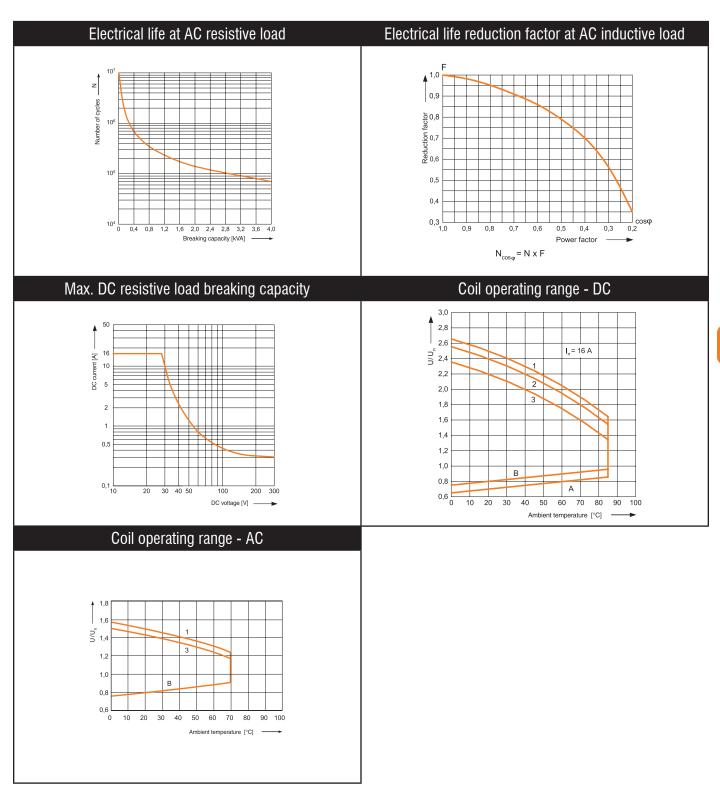
Discount Schedule B5









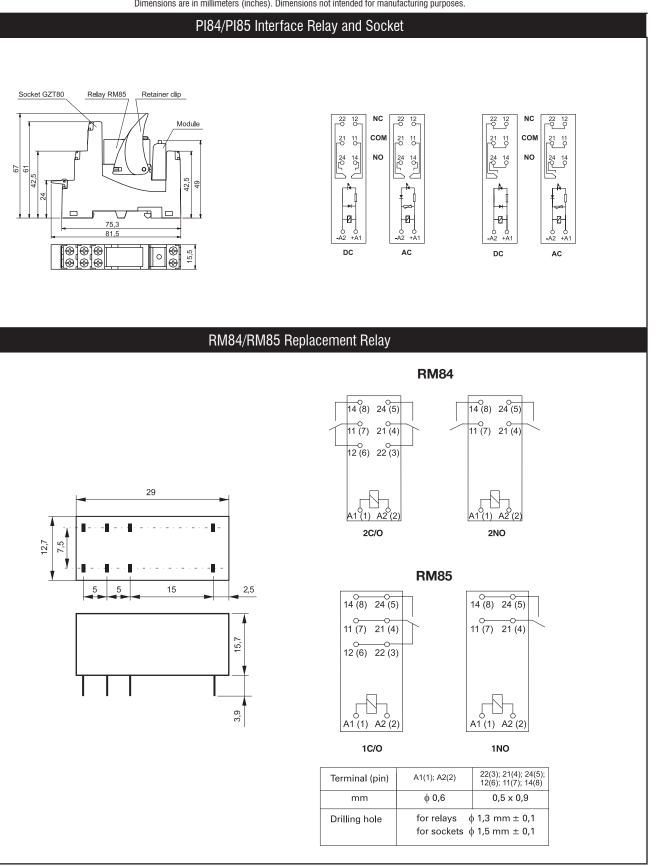




PI84/PI85 Dimensions

Interface Relays

Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes





Contacts

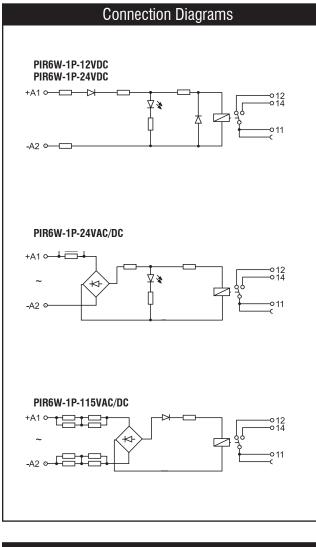
Contacto		
Contact number & arrangement		1 C/O
Contact material		AgSnO2
Max. switching voltage	AC/DC	AgSn02: 250 V / 400 V AC/ 125 V DC
Min. switching voltage	AC/DC	AgSn02: 10 V
Rated load	AC1	AgSn02: 6 A / 250 V AC
	DC1	AgSn02: 6 A / 24 V DC
Min. switching current		AgSn02: 100 mA / 24 V
Max. inrush current (20 ms)		AgSnO2: 10 A
Rated current		6 A
Max. breaking capacity	AC1	AgSnO2: 1 500 VA
Min. breaking capacity		AgSnO ₂ : 1 W
Resistance - initially		AgSn02: \leq 100m Ω 100 mA, 24 V
,		Ay31102. ≤ 10011122 100 111A, 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
5	AC/DC	24-115 V AC:50/60 Hz
Must release voltage		$AC \ge 0.2 U_n$
maetrolouoo ronago		DC:≥ 0,1 U _n
Operating range of supply		see Table 1
voltage		
Must operate voltage		AC and DC: \leq 0,8 U _n
Rated power consumption	AC/DC	0.32.1 VA / 0.31.0W
Nated power consumption	DC	0.3 W
	D0	0.5 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 μ s, 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		\geq 8 mm
		201111
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)		$> 2 \times 10^7$
Dimensions (L x W x H)		98.5 x 6.2 x 85.5 mm
Weight		45g
Ambient temperature		v
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 10500 Hz

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



Input Data

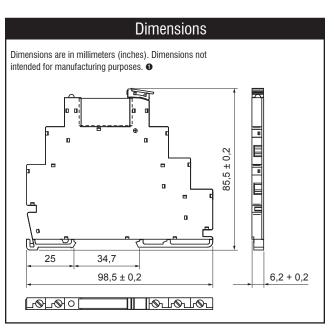
Relay code	Nominal input voltage U _n	Input power control circuit (U _n)	Input - voltage range V	
			min.	max.
PIR6W-1P-12VDC	12 V DC	0,3 W	9,6	14,14
PIR6W-1P-24VDC	24 V DC	0,3 W	19,2	28,0
PIR6W-1P-24VAC/DC	24 V AC/DC	0,3 VA / 0,3 W	19,2	26,4
PIR6W-1P-115VAC/DC	115 V DC	0,9 VA / 0,9 W	92,0	130,0

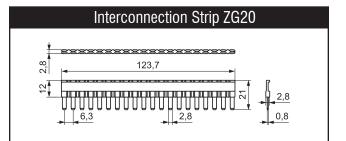


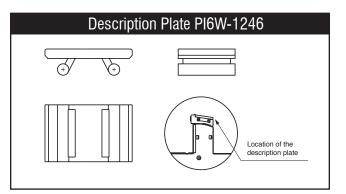
Mounting

Relays **PIR6W** are designed for 35 mm DIN rail mount, EN 50022.

PIR6W are adapted for the co-operation with interconnection strip type **ZG20**. Interconnection strip **ZG20** allows to common bridging outputs or inputs. Maximum current rate is 36 A. Colors of strips: **ZG20-1** red, **ZG20-2** black, **ZG20-3** blue.







• In March 2016, Relpol changed the DIN-rail fixing place location as represented in this view.



