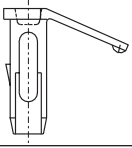
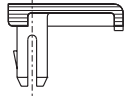


### Accessories

Accessory	Description	Catalog Number	Price Each	Pkg Qty
	P-Type button (push-to-test button) ① See application details below. For R2/R4 Relays with AC Coils (orange button) For R2/R4 Relays with DC Coils (green button)	<b>PR4AC</b> <b>PR4DC</b>	<b>1.75</b> <b>1.75</b>	100
	Relay hole plug. Plugs the hole when the T or P type inserts ① are removed. See installation details below. For R2/R4 Relays with AC Coils (orange button) For R2/R4 Relays with DC Coils (green button)	<b>R4AC</b> <b>R4DC</b>	<b>1.75</b> <b>1.75</b>	100

#### Plug & P-type button (Push-to-test) for R2 and R4 Relays

The R2 and R4 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.

#### Ordering Relays with Plug or P-Type button factory Installed:

- Select the R2 or R4 standard cataloged item
- Add the appropriate suffix to the selected relay catalog item
  - LT-RA (Orange **Plug** for AC coils)
  - LT-RD (Green **Plug** for DC coils)
  - LT-PRA (Orange **P-Type** push-to-test button for AC coils)
  - LT-PRD (Green **P-Type** button for DC coils)
- Complete part number with new suffix
- Add \$1.70 to the standard catalog relay List Price

#### Example 1: Ordering an R2 relay with a Plug

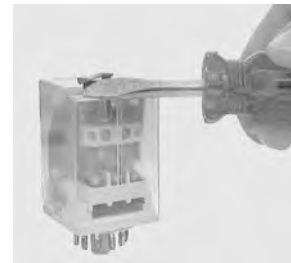
Standard Catalog Number: R2-2012-23-5024-WTL      List Price \$23.00  
Add suffix “-LT-RA” to catalog number      Add \$1.70

New Catalog Part Number: **R2-2012-23-5024-WTL-LT-RA**      List Price \$ 24.70

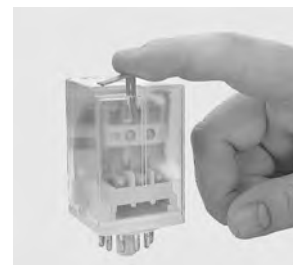
#### Example 2: Ordering an R4 relay with a P-Type push-to-test button

Standard Catalog Number: R4-2014-23-P024-WTLD      List Price \$26.00  
Add suffix “-LT-PRD” to catalog number      Add \$1.70

New Catalog Part Number: **R4-2014-23-P024-WTLD-LT-PRD**      List Price \$ 27.70



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

① Minimum order quantity is one package of 100. Price each x 100 = total price.

**Technical Information**

	<b>R2</b>	<b>R4</b>
<b>Contacts</b>		
Contact number & arrangement	DPDT	4PDT
Contact material	AgNi	AgNi, AgNi/Au 5 µm
Max. switching voltage	AC/DC 250 V / 250 V	
Min. switching voltage	5 V	
Rated load	AC1 12 A / 250 V AC DC1 12 A / 24 V DC	6 A / 250 V AC 6 A / 24 V DC
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 µm
Resistance	≤ 100 mΩ	
Max. operating frequency		
• at rated load	AC1	1 200 cycles/hour
• no load		18 000 cycles/hour
<b>General data</b>		
Operating time (typical value)		
Release time (typical value)	AC: 10 ms DC: 13 ms	
Electrical life	AC: 8 ms DC: 3 ms	
• resistive AC1	≥ 10 <sup>5</sup> 12 A, 250 V AC	≥ 10 <sup>5</sup> 6 A, 250 V AC
• cos φ	see graphs on page G67	
Mechanical life (cycles)	≥ 2 x 10 <sup>7</sup>	
Dimensions (L x W x H)	27,5 x 21,2 x 35,6 mm	
Weight	35 g	
Ambient temperature		
• storing	-40...+85 °C	
• operating	AC: -40...+55 °C DC: -40...+70 °C	
Cover protection category	IP 40	
Shock resistance (NO/NC)	10 g / 5 g	
Vibration resistance	5 g 10...150 Hz	
Solder bath temperature	max. 270 °C	
Soldering time	max. 5 s	
<b>Insulation</b>		
Insulation category	C250	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	2,000 V AC
Contact - coil distance		
• clearance	≥ 2,5 mm	≥ 1,6 mm
• creepage	≥ 4 mm	≥ 3,2 mm
<b>UL/CSA Ratings</b>		
Contact Ratings		
General Purpose Rating	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	

Technical Information

		R2	R4
<b>Coil</b>			
Rated voltage	50/60 Hz AC		6...240 V
Contact material	DC		6...110 V
Must release voltage			AC: $\geq 0,2 U_n$ DC: $\geq 0,1 U_n$
Operating range of supply voltage			see tables below
Rated power consumption	AC		1,6 VA
	DC		0,9 W

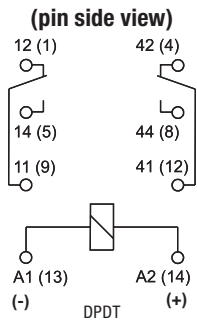
Coil Data - AC 50/60 Hz voltage version

Coil Code	Rated Voltage V AC	Coil Resistance ( $\pm 10\%$ ) at 20 °C	Coil Operating Range V AC	
			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

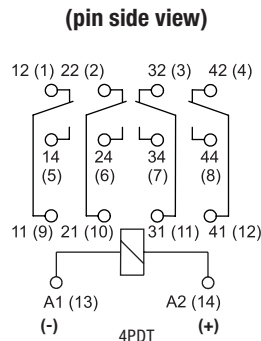
Coil Data - DC voltage version

Coil Code	Rated Voltage V DC	Coil Resistance ( $\pm 10\%$ ) at 20 °C	Coil Operating Range V DC	
			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

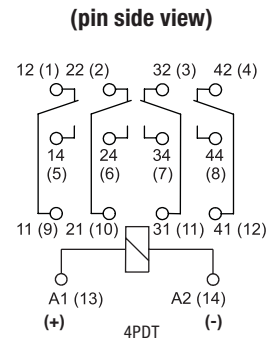
R2 Connections Diagram



R4-2014 Connections Diagram



R4-2314 Connections Diagram



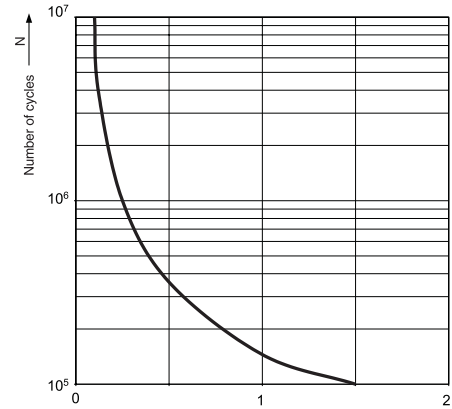
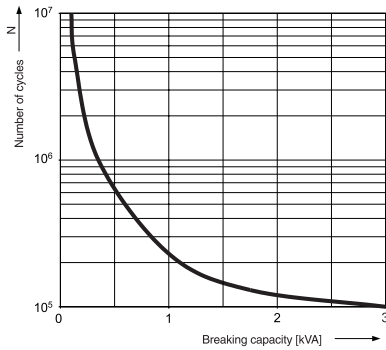
Note: "+/-" Refer to DC versions with ARC suppressing diode

**R2**

**R4**

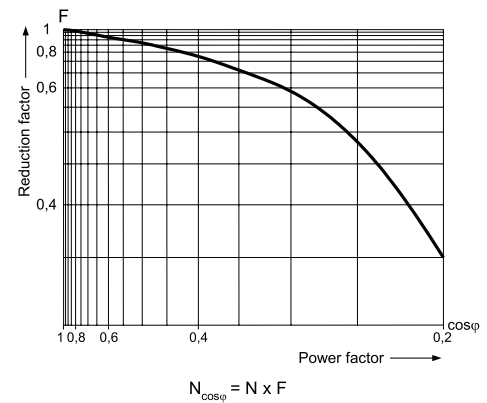
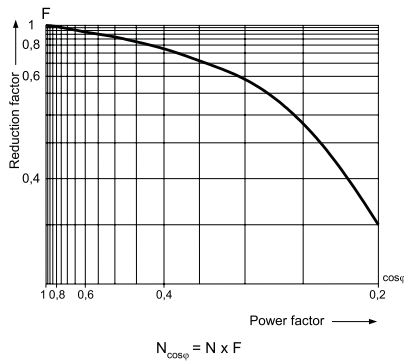
**Electrical life at AC resistive load**

**Electrical life at AC resistive load**



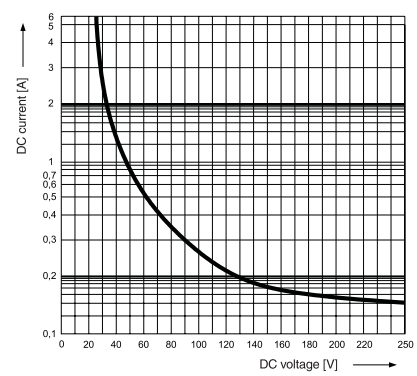
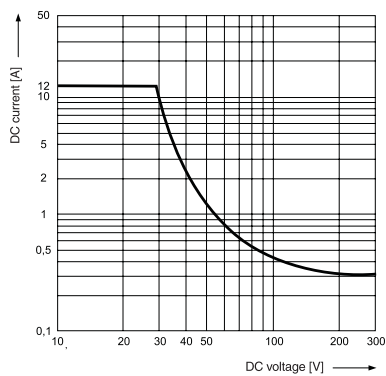
**Electrical life reduction factor at AC inductive load**

**Electrical life reduction factor at AC inductive load**

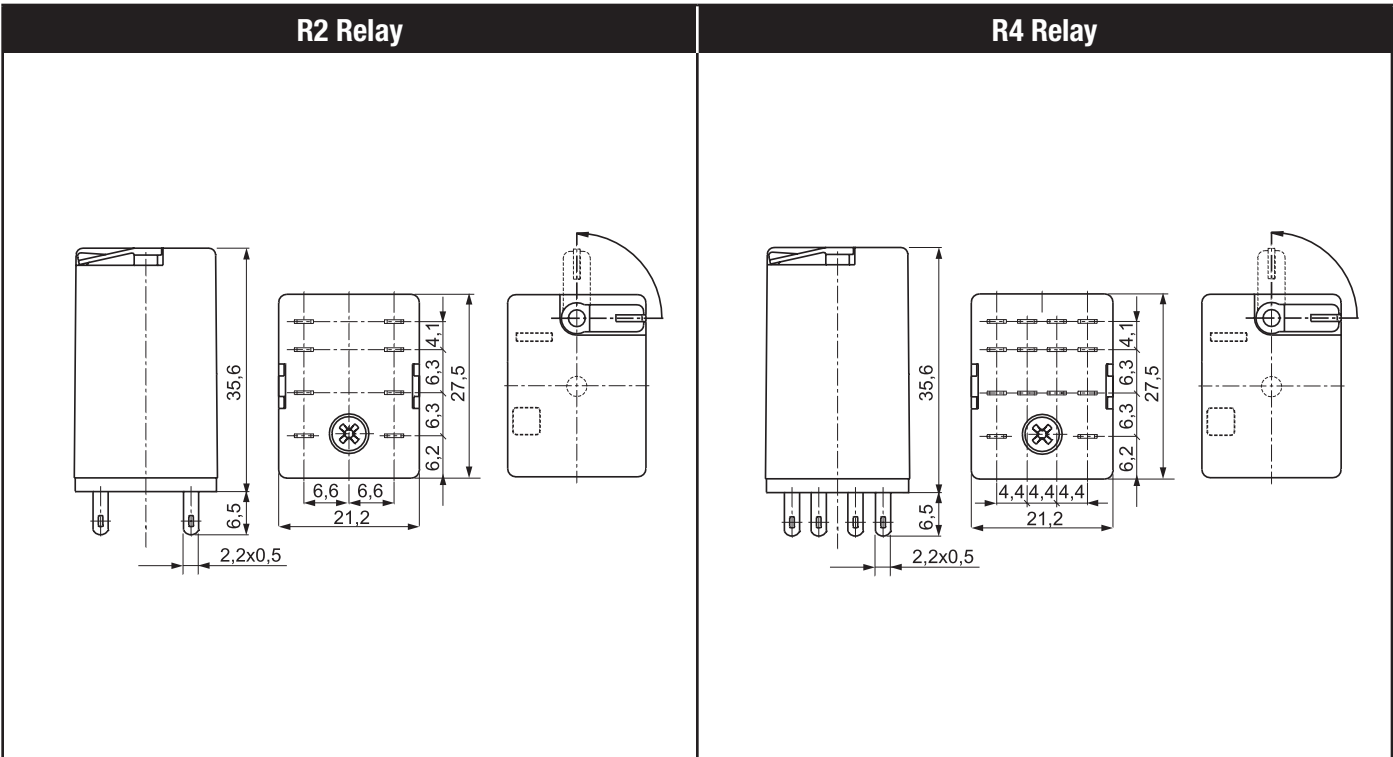


**Maximum DC resistive load breaking capacity**

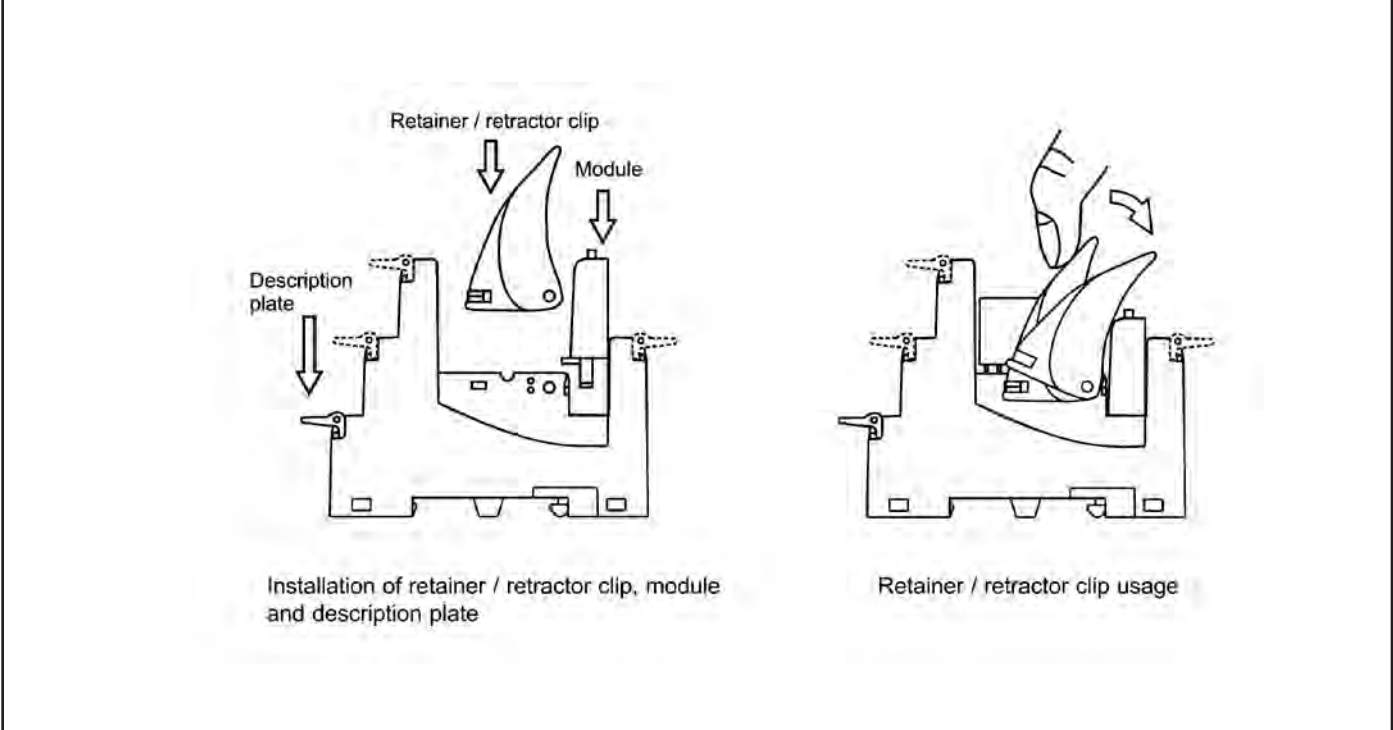
**Maximum DC resistive load breaking capacity**



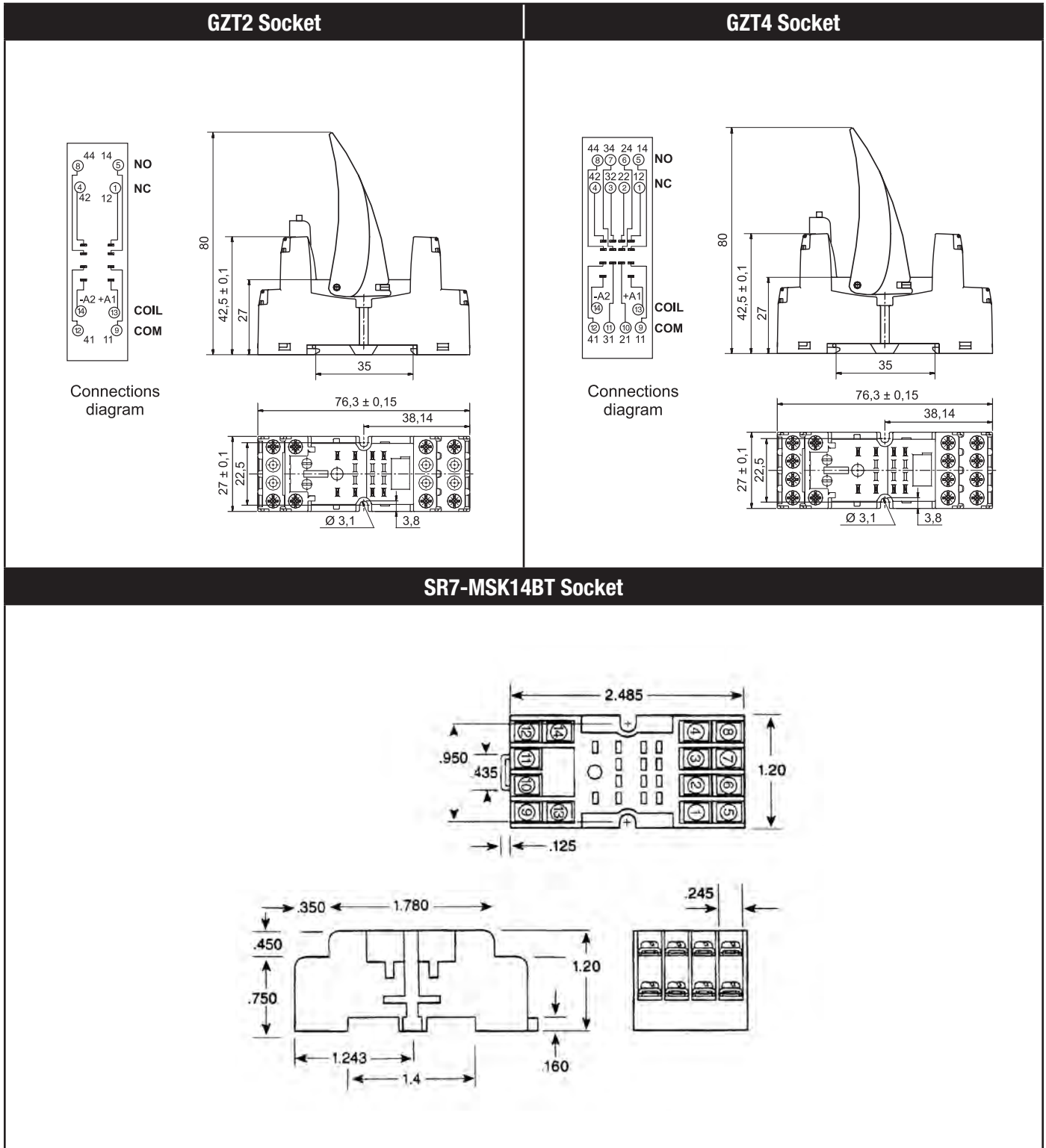
Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.



**Retainer/Retractor Clip GZT4-0040**



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



Control & Timing Relays

Repol

## R15 Plug-in Power Relays Tube Base Style

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 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 R15 plug-in 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 shows whether the relay is energized and the contacts have changed over is available as standard. All relays with DC coils have a built-in Arc Suppressing Diode which protects against voltage surges.

### 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.



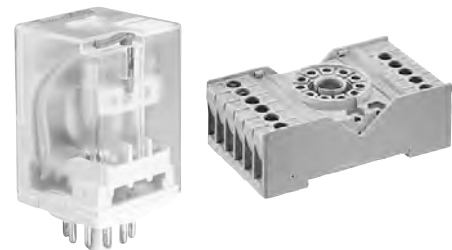
R15 2PDT 8-Pin Relay



R15 3PDT 11-Pin Relay




R15 2PDT relay and PZ8 socket




R15 3PDT relay and PZ11 socket

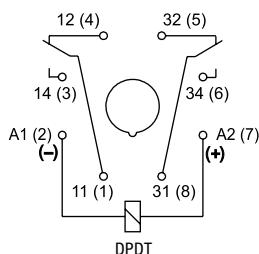
Plug-in Relays 2 Pole (Form C) - Tube Base 8-Pin Type ①②③④⑤

R15 Relay	Description	Position Indication	Coil Voltage	Catalog Number	Price	Pkg Qty
	10A DPDT 2 Pole (2 Form C) AgNi Contacts (DC Coils include Built-in Arc Suppressing Diode as standard)  <b>Features:</b> Push-to-test/ Latching Lever as standard Built-in LED	Indicating Flag Electrical LED	6VDC	R15-2012-23-P006-WTLD	33.50	10
			12VDC	R15-2012-23-P012-WTLD	33.50	
			24VDC	R15-2012-23-P024-WTLD	33.50	
			48VDC	R15-2012-23-P048-WTLD	39.75	
			110VDC	R15-2012-23-P110-WTLD	39.75	
			6VAC	R15-2012-23-5006-WTL	39.00	
			12VAC	R15-2012-23-5012-WTL	34.50	
			24VAC	R15-2012-23-5024-WTL	34.50	
			120VAC	R15-2012-23-5120-WTL	34.50	
			240VAC	R15-2012-23-5240-WTL	37.75	

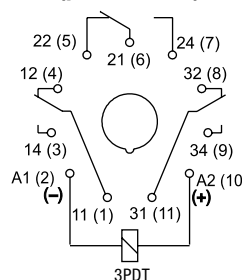
Plug-in Relays 3 Pole (Form C) - Tube Base 11-Pin Type ①②③④⑤

R15 Relay	Description	Position Indication	Coil Voltage	Catalog Number	Price	Pkg Qty
	10A 3PDT 3 Pole (3 Form C) AgNi Contacts (DC Coils include Built-in Arc Suppressing Diode as standard)  <b>Features:</b> Push-to-test/ Latching Lever as standard Built-in LED	Indicating Flag Electrical LED	6VDC	R15-2013-23-P006-WTLD	35.50	10
			12VDC	R15-2013-23-P012-WTLD	35.50	
			24VDC	R15-2013-23-P024-WTLD	35.50	
			48VDC	R15-2013-23-P048-WTLD	41.50	
			110VDC	R15-2013-23-P110-WTLD	41.50	
			6VAC	R15-2013-23-5006-WTL	41.00	
			12VAC	R15-2013-23-5012-WTL	36.00	
			24VAC	R15-2013-23-5024-WTL	36.00	
			120VAC	R15-2013-23-5120-WTL	36.00	
			240VAC	R15-2013-23-5240-WTL	39.00	

R15 8-Pin Connection Diagram (pin side view)







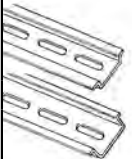
R15 11-Pin Connection Diagram (pin side view)



Note:  
 "+/-" and refer to DC versions with arc suppressing diode

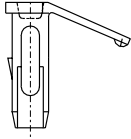
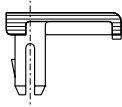
- ① The standard features of "Push-to-test/Latching" lever can be easily removed and plugged with an accessory plug or push-to-test button. See installation guide and accessory plugs/push-to-test buttons on page G71.
- ② R15 relays can be ordered plugged without the standard "Push-to-test/Latching" lever feature. Add suffix "-LT-RA" (for AC coils) or "-LT-RD" (for DC coils) to catalog number, add \$1.70. See page G73 for ordering examples.
- ③ R15 relays can be ordered with a Push-to-test only feature. Add suffix "-LT-PRA" (for AC coils) or "-LT-PRD" (for DC coils) to catalog number, add \$1.40. See page G71 for ordering examples.
- ④ Change the catalog letter "P" to "1" for opposite polarity of A1(+) & A2(-), price remains the same. **SPECIAL ORDER**  
 Example: R15-2012-23-P024-WTLD change to R15-2012-23-1024-WTLD.
- ⑤ Relays can be special ordered with No LED's, contact your Sprecher + Schuh representative.

**Accessories**

Accessory	Description	Catalog Number	Price Each	Pkg Qty
	Screw Terminal, Relpol Tube Base 8-PIN Socket for R15 relays - Panel or DIN-rail mounting - 10A, 250V rating, UR, CSA	<b>PZ8</b>	<b>9.25</b>	10
	Screw Terminal, Relpol Tube Base 11-PIN Socket for R15 relays - Panel or DIN-rail mounting - 10A, 250V rating, UR, CSA	<b>PZ11</b>	<b>11</b>	10
	Screw Terminal, Tube Base Socket ❶ - Panel or DIN-rail mounting - 10A, 250V rating	<b>SR7-SK08PT</b>	<b>8.75</b>	1
	Retainer clip for PZ8 & PZ11 tube base relay sockets	<b>PZ110031</b>	<b>1.50</b>	25
	DIN-rail - 2 meter lengths (6' 6") Top Hat, low profile Top Hat, high profile	<b>3F</b> <b>3AF</b>	<b>See page A58</b>	20 12

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

Accessories

Accessory	Description	Catalog Number	Price Each	Pkg Qty
	<p>P-Type button (push-to-test button) ❶</p> <p>See application details below.</p> <p>For R15 Relays with AC Coils (orange button)</p> <p>For R15 Relays with DC Coils (green button)</p>	<p>PR15WTAC</p> <p>PR15WTDC</p>	<p>1.25</p> <p>1.75</p>	100
	<p>Relay hole plug. Plugs the hole when the T or P type inserts ❶ are removed. See installation details below.</p> <p>For R15 Relays with AC Coils (orange button)</p> <p>For R15 Relays with DC Coils (green button)</p>	<p>R15WTAC</p> <p>R15WTDC</p>	<p>1.75</p> <p>1.75</p>	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.

**Ordering Relays with Plug or P-Type button factory Installed:**

- Select the R15 standard cataloged item
- Add the appropriate suffix to the selected relay catalog item
  - LT-RA (Orange **Plug** for AC coils)
  - LT-RD (Green **Plug** for DC coils)
  - LT-PRA (Orange **P-Type** button for AC coils)
  - LT-PRD (Green **P-Type** button for DC coils)
- Complete part number with new suffix
- Add \$1.70 to the standard catalog relay List Price

**Example 1: Ordering an R15 relay with a Plug**

Standard Catalog Number: R15-2013-23-5120-WTL      List Price \$36.00  
 Add suffix “-LT-RA” to catalog number      Add \$1.70

**New Catalog Part Number: R15-2013-23-5120-WTL-LT-RA      List Price \$37.70**

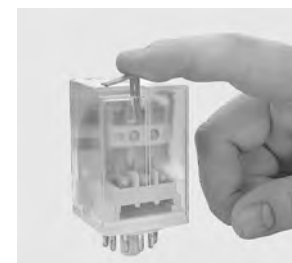
**Example 2: Ordering an R15 relay with a P-Type button**

Standard Catalog Number: R15-2013-23-P024-WTLD      List Price \$35.50  
 Add suffix “-LT-PRD” to catalog number      Add \$1.70

**New Catalog Part Number: R15-2013-23-P024-WTLD-LT-PRD      List Price \$37.20**



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

❶ Minimum order quantity is one package of 100. Price each x 100 = total price.

**Technical Information**
**R15**

<b>Contacts</b>			
Contact number & arrangement		DPDT, 3PDT	
Contact material		AgNi	
Max. switching voltage	AC/DC	250 V	
Min. switching voltage		5 V AgNi	
Rated load	AC1	10 A / 250 V AC	
	DC1	10 A / 24 V DC	
Min. switching current		5 mA AgNi	
Max. inrush current		20 A	
Rated current		10 A	
Max. breaking capacity	AC1	2 500 VA	
Min. breaking capacity		0,3 W	
Resistance		≤ 100 mΩ	
Max. operating frequency			
• at rated load	AC1	1 200 cycles/hour	
• no load		12 000 cycles/hour	
<b>General data</b>			
Operating time (typical value)		AC: 12 ms DC: 18 ms	
Release time (typical value)		AC: 10 ms DC: 7 ms	
Electrical life			
• resistive AC1		≥ 2x10 <sup>5</sup> 10 A, 250 V AC	
• cos φ		see graphs on page G76	
Mechanical life (cycles)		≥ 2 x 10 <sup>7</sup>	
Dimensions (L x W x H)		35 x 35x 54,4 mm	
Weight		83 g	
Ambient temperature			
• storing		-40...+85 °C	
• operating		AC: -40...+55 °C DC: -40...+70 °C	
Cover protection category		IP 40	
Shock resistance	(NO/NC)	10 g	
Vibration resistance		5 g 10...150 Hz	
Solder bath temperature		max. 270 °C	
Soldering time		max. 5 s	
<b>Insulation</b>			
Insulation category		C250	
Insulation rated voltage		250 V AC	
Dielectric strength			
• coil - contact		2 500 V AC	
• contact - contact		1 500 V AC	
• pole - pole		2 000 V AC	
Contact - coil distance			
• clearance		≥ 3 mm	
• creepage		4,2 mm	
<b>UL/CSA Ratings</b>			
Contact Ratings			
General Purpose Rating		10A - 120 250V AC, 240 VAC	
Pilot Duty Ratings		B300	
Contacts	Inductive	Make	Break
	120VAC	30A	3A
	240VAC	15A	1.5A
	DC		10A 28V DC
UL File Number		E105728	
CSA File Number		LR86957	
Standards		UL 508, CAN/CSA-C22.2 No. 14	

**Technical Information**
**R15**

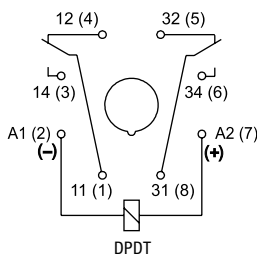
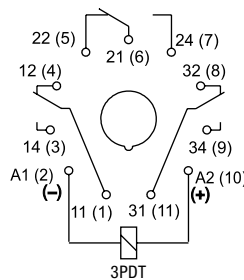
<b>Coil</b>	
Rated voltage	AC: 6...240 V 50/60 Hz DC: 6...110 V
Must release voltage	AC: $\geq 0,15 U_n$ DC: $\geq 0,1 U_n$
Operating range of supply voltage	see coil data tables below
Rated power consumption	AC: 2,8 VA 50 Hz 2,5 VA 60 Hz DC: 1,5 W

**Coil Data - AC 50/60 Hz voltage version**

Coil Code	Rated Voltage V AC	Coil Resistance ( $\pm 10\%$ ) at 20 °C $\Omega$	Coil Operating Range V AC	
			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

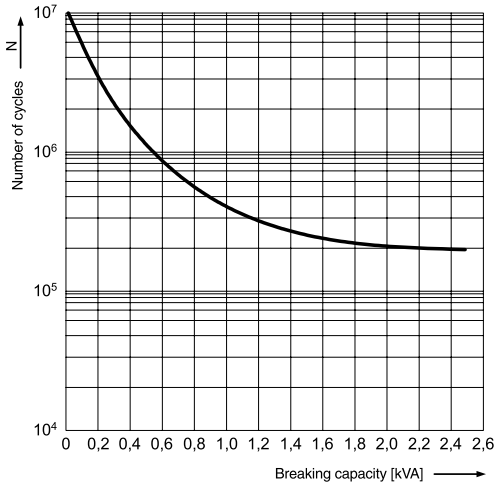
**Coil Data - DC voltage version**

Coil Code	Rated Voltage V DC	Coil Resistance ( $\pm 10\%$ ) at 20 °C $\Omega$	Coil Operating Range V DC	
			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

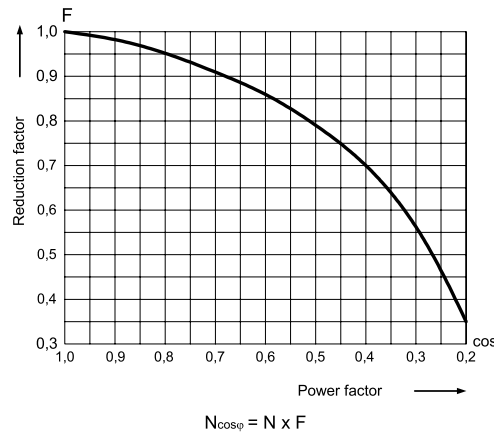
**R15 8-Pin Connection Diagram**  
(pin side view)

**R15 11-Pin Connection Diagram**  
(pin side view)


Note: "+/-" and refer to DC versions with arc suppressing diode

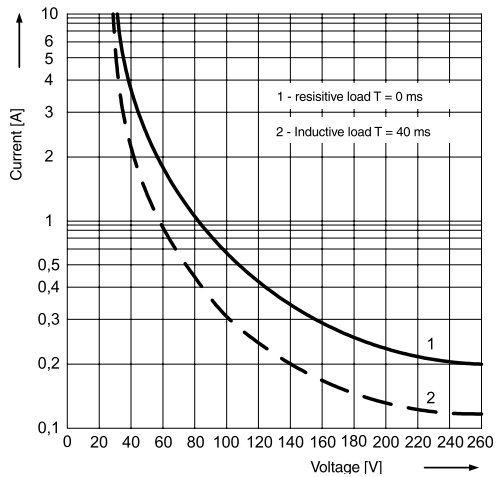
**Electric life at AC resistive load**



**Electrical life reduction factor at AC inductive load**

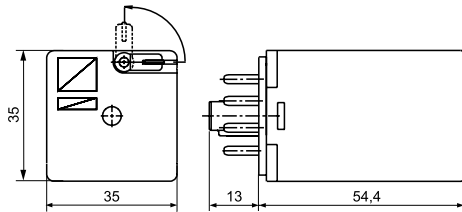


**Max. DC load breaking capacity**

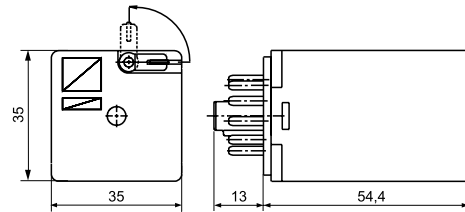


Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.

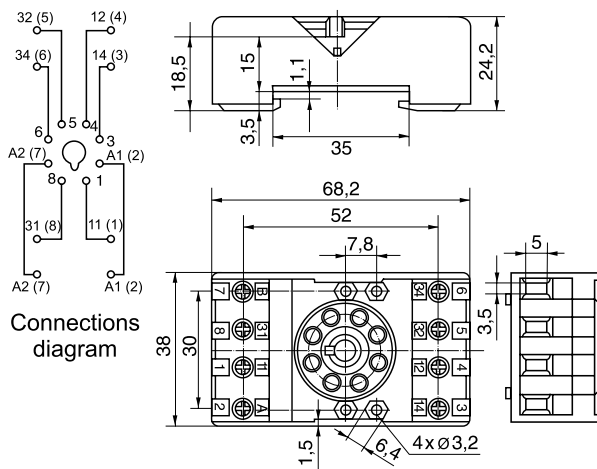
**R15 2-Pole Relay**



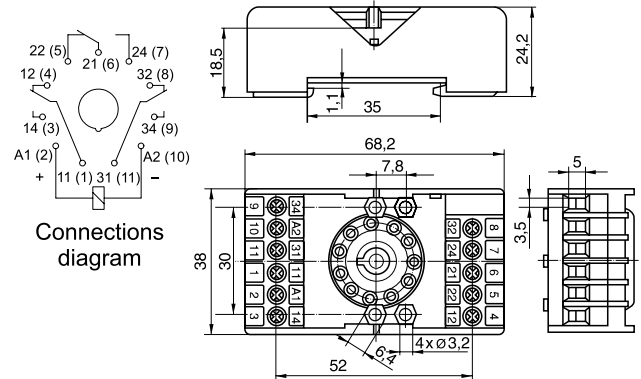
**R15 3-Pole Relay**



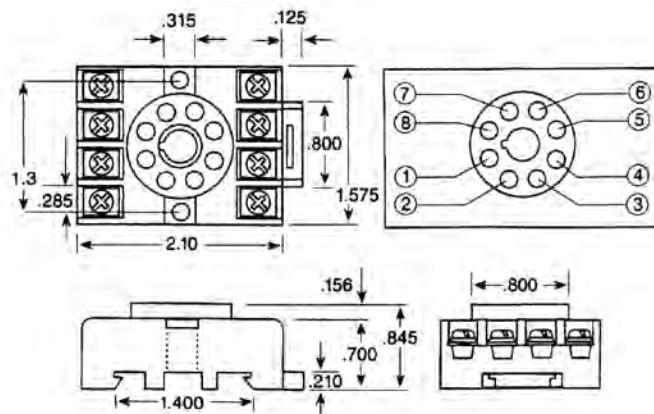
**PZ8 Socket**



**PZ11 Socket**



**SR7-SK08PT Socket**



## 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 nickel cadmium 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 provides 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

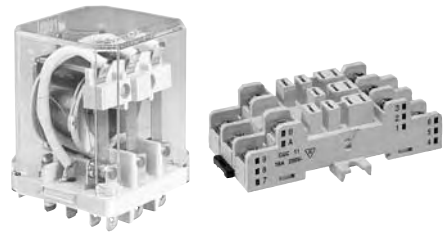
The RUC plug-in power relay offers a LED position indicator that shows whether the relay is energized and that the contacts have changed over.

### 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

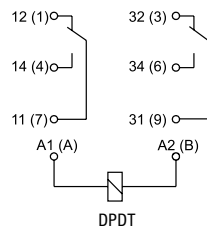
**Plug-in Relays 2 Pole (Form C) - Square Base Blade Type ①**

RUC Relay	Description	Position Indication	Coil Voltage	Catalog Number	Price	Pkg Qty
	15A DPDT 2 Pole (2 Form C) AgCdO Contacts  <b>Features:</b> Built-in LED	Indicating Flag Electrical LED	6VDC	RUC-1012-26-1006-L	34.00	10
			12VDC	RUC-1012-26-1012-L	32.25	
			24VDC	RUC-1012-26-1024-L	32.25	
			48VDC	RUC-1012-26-1048-L	38.50	
			110VDC	RUC-1012-26-1110-L	37.00	
			6VAC	RUC-1012-26-5006-L	37.00	
			12VAC	RUC-1012-26-5012-L	32.50	
			24VAC	RUC-1012-26-5024-L	34.00	
			120VAC	RUC-1012-26-5120-L	34.00	
			240VAC	RUC-1012-26-5240-L	37.00	

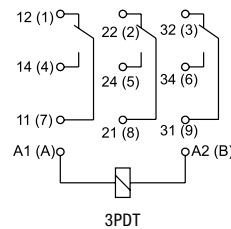
**Plug-in Relays 3 Pole (Form C) - Square Base Blade Type ①**

RUC Relay	Description	Position Indication	Coil Voltage	Catalog Number	Price	Pkg Qty
	10A 3PDT 3 Pole (3 Form C) AgCdO Contacts  <b>Features:</b> Built-in LED	Indicating Flag Electrical LED	6VDC	RUC-1013-26-1006-L	32.50	10
			12VDC	RUC-1013-26-1012-L	34.00	
			24VDC	RUC-1013-26-1024-L	34.00	
			48VDC	RUC-1013-26-1048-L	38.50	
			110VDC	RUC-1013-26-1110-L	38.50	
			6VAC	RUC-1013-26-5006-L	38.50	
			12VAC	RUC-1013-26-5012-L	35.25	
			24VAC	RUC-1013-26-5024-L	35.25	
			120VAC	RUC-1013-26-5120-L	35.25	
			240VAC	RUC-1013-26-5240-L	38.50	

**RUC 2-Pole Connection Diagram**  
(pin side view)






**RUC 3-Pole Connection Diagram**  
(pin side view)



① Relays can be special ordered with No LED's, contact your Sprecher + Schuh representative.

**Accessories**

Accessory	Description	Catalog Number	Price Each	Pkg Qty
	Screw Terminal, Square Base Blade type Socket for RUC relays - Panel or DIN-rail mounting ❶ - 15A, 300VAC rating, UR, CSA	<b>SB11</b>	<b>16.25</b>	10
	Retainer clip for SB11 tube base relay sockets	<b>MBA</b>	<b>1.50</b>	25
	DIN-rail - 2 meter lengths (6' 6") Top Hat, low profile Top Hat, high profile	<b>3F</b> <b>3AF</b>	See page A58	20 12

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

**Technical Information**
**RUC**

<b>Contacts</b>			
Contact number & arrangement		DPDT, 3PDT	
Contact material		AgCd0	
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		≤ 100 mΩ	
Max. operating frequency			
• at rated load	AC1	1 200 cycles/hour	
• no load		12 000 cycles/hour	
<b>General data</b>			
Operating time (typical value)		AC: 12 ms DC: 12 ms	
Release time (typical value)		AC: 10 ms DC: 7 ms	
Electrical life			
• resistive AC1		≥ 10 <sup>5</sup> 16 A, 250 V AC	
• cos φ		see graphs on page G83	
Mechanical life (cycles)		≥ 10 <sup>7</sup>	
Dimensions (L x W x H)		38,6 x 36,1 x 45,5 mm	
Weight		85 g	
Ambient temperature			
• storing		-40...+85 °C	
• operating		-40...+70 °C I = 10 A -40...+55 °C I = 16 A	
Cover protection category		IP 40	
Shock resistance	(NO/NC)	10 g	
Vibration resistance		5 g 10...150 Hz	
Solder bath temperature		max. 270 °C	
Soldering time		max. 5 s	
<b>Insulation</b>			
Insulation category		C250	
Insulation rated voltage		400 V AC	
Dielectric strength			
• coil - contact		2 500 V AC	
• contact - contact		1 500 V AC	
• contact - contact 3 mm		2 500 V AC	
• pole - pole		2 000 V AC	
Contact - coil distance			
• clearance / • creepage		≥ 6 mm / ≥ 8 mm	
<b>UL/CSA Ratings</b>			
Contact Ratings		DPDT 10A 250 V AC	3PDT
General Purpose Rating		15A 250V (resistive) 15A 150 V AC	10 A 250 V AC
Pilot Duty Ratings		B300	
Contacts	Inductive	Make	Break
	120VAC	30A	3A
	240VAC	15A	1.5A
	DC		10A 28V DC
UL File Number		E105728	
CSA File Number		LR86957	
Standards		UL 508, CAN/CSA-C22.2 No. 14	

**Technical Information**
**RUC**

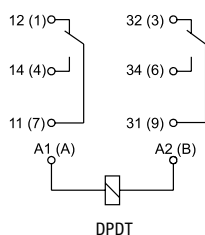
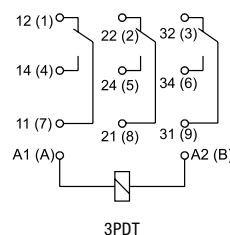
<b>Coil</b>		
Rated voltage	50/60 HzAC DC	6...240 V 6...110 V
Must release voltage		AC: $\geq 0,15 U_n$ DC: 0,1 $U_n$
Operating range of supply voltage		see coil data tables below
Rated power consumption	AC DC	2,8 VA 50 Hz 2,5 VA 60 Hz 1,5 W 1,7 W with contact gap $\geq 3$ mm

**Coil Data - AC 50/60 Hz voltage version**

Coil Code	Rated Voltage V AC	Coil Resistance ( $\pm 10\%$ ) at 20 °C $\Omega$	Coil Operating Range V AC	
			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

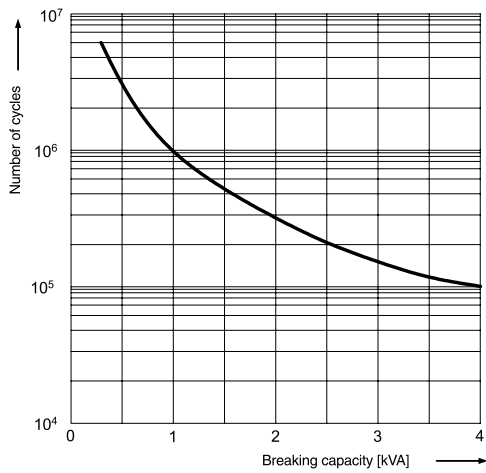
**Coil Data - DC voltage version**

Coil Code	Rated Voltage V DC	Coil Resistance ( $\pm 10\%$ ) at 20 °C $\Omega$	Coil Operating Range V DC	
			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

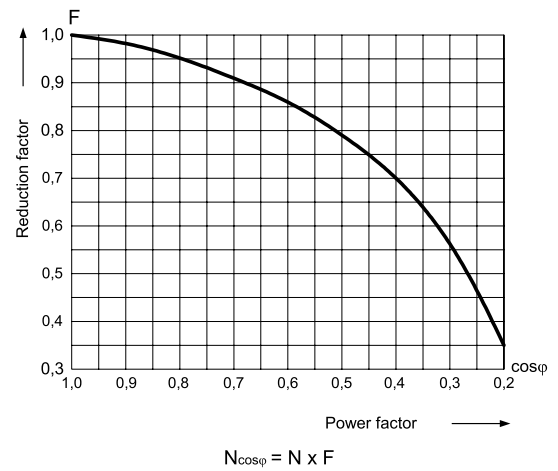
**RUC DPDT Connection Diagram**  
(pin side view)

**RUC 3PDT Connection Diagram**  
(pin side view)


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

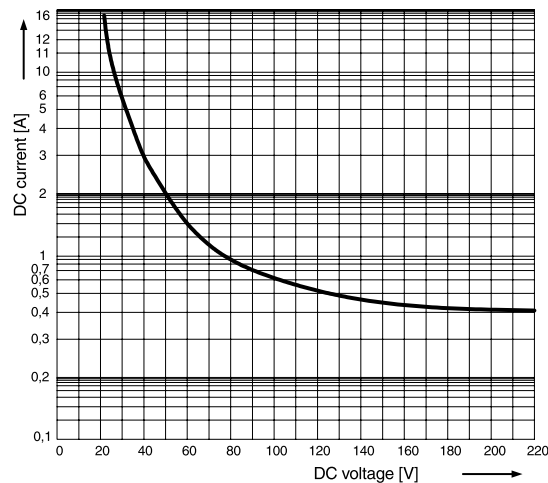
**Electric life at AC resistive load**



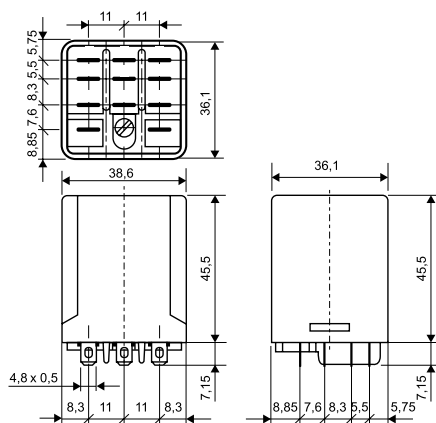
**Electrical life reduction factor at AC inductive load**



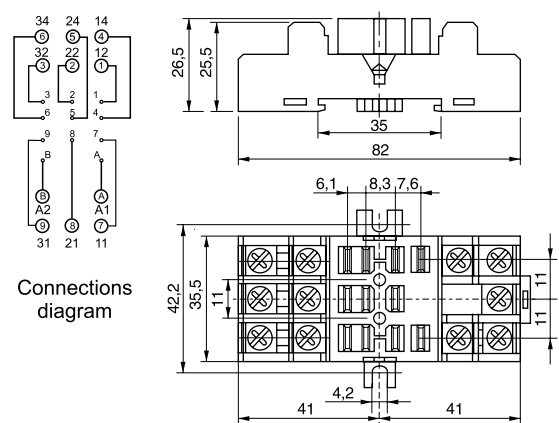
**Max. DC load breaking capacity**



**RUC Relay**



**SB11 Socket**



## **R<sub>Y</sub>2 Plug-in Power Relays Slim Square Base**



R<sub>Y</sub>2 2PDT Blade Type Relay



The Relpol R<sub>Y</sub>2 General Purpose Plug-in Power Relays, 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 R<sub>Y</sub>2 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.

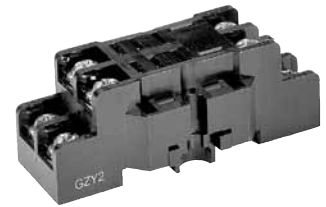
The relay contact materials are made of highly reliable nickel cadmium which has a minimum switching capacity of 10mA@10V. The RUC relays are available in ten coil voltages from 6V DC to 110V DC and 6V AC to 240V AC.



R<sub>Y</sub>2 2PDT relay

### **Rugged and reliable**

With a mechanical life of 20 million cycles, and high contact switching capacity due to their hard nickel cadmium contacts, the R<sub>Y</sub>2 plug-in power relay provides long lasting high quality contact reliability even after millions of operations.



SB08 socket

### **Convenient features**

All R<sub>Y</sub>2 plug-in power relays features 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**

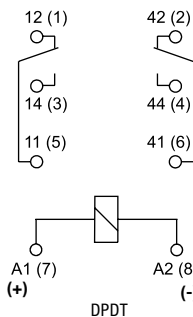
The R<sub>Y</sub>2 plug-in power relays are cURus recognized and CE marked which meets the requirements of all important international approval organizations, making them ideal for use in both domestic and export equipment.

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



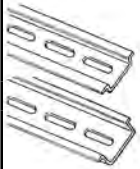
RY2 Relay	Description	Position Indication	Coil Voltage	Catalog Number	Price	Pkg Qty
	12A DPDT 2 Pole (2 Form C) AgCdO Contact (DC Coils include Built-in Arc Suppressing Diode as standard)  <b>Features:</b> Built-in LED	Indicating Flag Electrical LED	6VDC	RY2-1012-26-1006-LD	28.00	10
			12VDC	RY2-1012-26-1012-LD	29.50	
			24VDC	RY2-1012-26-1024-LD	29.50	
			48VDC	RY2-1012-26-1048-LD	29.50	
			110VDC	RY2-1012-26-1110-LD	29.50	
			6VAC	RY2-1012-26-5006-L	29.25	
			12VAC	RY2-1012-26-5012-L	29.25	
			24VAC	RY2-1012-26-5024-L	29.25	
			120VAC	RY2-1012-26-5120-L	27.75	
			240VAC	RY2-1012-26-5240-L	31.00	

Control & Timing Relays  
Relpol

RY2 Connection Diagram  
(pin side view)



Accessories

Accessory	Description	Catalog Number	Price Each	Pkg Qty
	Screw Terminal, Square Base Blade type Socket for RY2 relays - Panel or DIN-rail mounting ① - 15A, 300VAC rating, UR, CSA	SB08	15.50	10
	Retainer clip for GZY2 tube base relay sockets	GZY2000	1.50	25
	DIN-rail - 2 meter lengths (6' 6") Top Hat, low profile Top Hat, high profile	3F 3AF	See page A58	20 12

① This product is sourced from a third party manufacturer, not Relpol.