

RPYS

Технические характеристики

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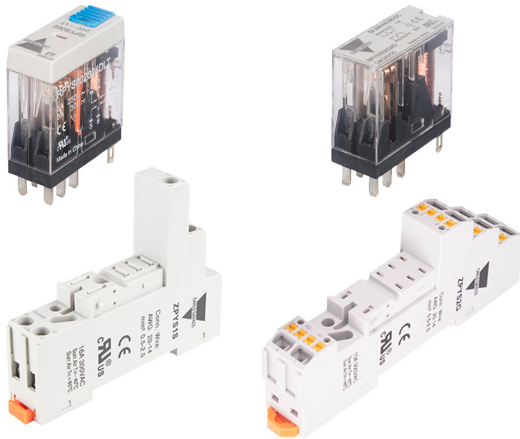
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RPYS - ZPYS



Slim Relays and Socket Series



Benefits

- **Space saving.** RPYS is only 12.6 mm wide (1 CO models) and 13 mm wide (2 CO models).
- **Time savings.** ZPYS socket version is available with push-in terminals saving wiring time.
- **Wide product range.** Coil voltage range from 12 VDC up to 230 VAC. RPYS is available in SPDT (1-Changeover contact) and DPDT (2-changeover contacts) versions.
- **Visual indication of coil types.** The test button has a different colour for the AC-coil and DC-coil types. User can easily identify the coil type of the relay being used.
- **Better adaptation to wiring systems.** RPYS integrates a bidirectional LED with polarity protection (applicable to DC coil versions).

Description

RPYS is an electromechanical relay that can switch resistive loads up to 10 A (for 1 changeover contact version) and 5 A (for the 2 changeover contact version). RPYS comes in two models:

- Basic version: No LEDs and no test button
- LED and test button version

ZPYS is the corresponding socket for RPYS relays. It is available in both screw and spring (push-in) terminals.

Additional accessories such as ID tag, plastic clamp, protection diode and bus jumper are also available

Applications

The RPYS relays and ZPYS sockets can be used for a wide range of industrial applications. The markets of interest are Building automation, Food and Beverage, HVAC machinery, Packaging machinery.

Main functions

- Switching of resistive loads, AC / DC electromagnetic loads
- Test button version to check correct relay operation (RPYS..LT versions)
- LED indication for relay on (RPYS..LT versions)

RPYS - ZPYS



References

Order code

RPYS

Enter the code entering the corresponding option instead of

Code	Option	Description	Notes
R	-		
P	-	Relay family	
Y	-		
S	-	Slim	Series
<input type="checkbox"/>	001	1 changeover contact (SPDT)	Contact form
	002	2 changeover contacts (DPDT)	
<input type="checkbox"/>	12	12 V	Rated coil voltage
	24	24 V	
	115	115 V	
	230	230 V	
<input type="checkbox"/>	D	DC	Coil voltage type
	A	AC	
<input type="checkbox"/>	-	Basic	No options
	LT	LED + Test Button	

ZPYS

Enter the code entering the corresponding option instead of

Code	Option	Description	Notes
Z	-		
P	-	Socket family	
Y	-		
S	-	Slim	Series
<input type="checkbox"/>	1	1 changeover output	For RPYS001 models
	2	2 changeover outputs	For RPYS002 models
<input type="checkbox"/>	S	Screw terminals	Terminal type
	G	Push-in terminals	

RPYS - ZPYS



Selection guide

Relay Coil Voltage	Basic Version		LED and Test Button	
	1 Changeover Contact	2 Changeover Contacts	1 Changeover Contact	2 Changeover Contacts
12 VDC	RPYS001012D	RPYS002012D	RPYS001012DLT	RPYS002012DLT
24 VDC	RPYS001024D	RPYS002024D	RPYS001024DLT	RPYS002024DLT
24 VAC	RPYS001024A	RPYS002024A	RPYS001024ALT	RPYS002024ALT
115 VAC	RPYS001115A	RPYS002115A	RPYS001115ALT	RPYS002115ALT
230 VAC	RPYS001230A	RPYS002230A	RPYS001230ALT	RPYS002230ALT

Socket Code	Screw Terminals		Push-in Terminals	
	1 Output	2 Outputs	1 Output	2 Outputs
	ZPYS1S	ZPYS2S	ZPYS1G	ZPYS2G

Carlo Gavazzi compatible components

Purpose	Component order code
Plastic clamp for ZPYS screw and push in socket	ZPYSPC
ID tag for ZPYS screw and push in socket	ZPYSID
Bus jumper for push in socket	ZGBJ
Bus jumper for screw socket	ZDBB
Module with protection diode	MODULE42

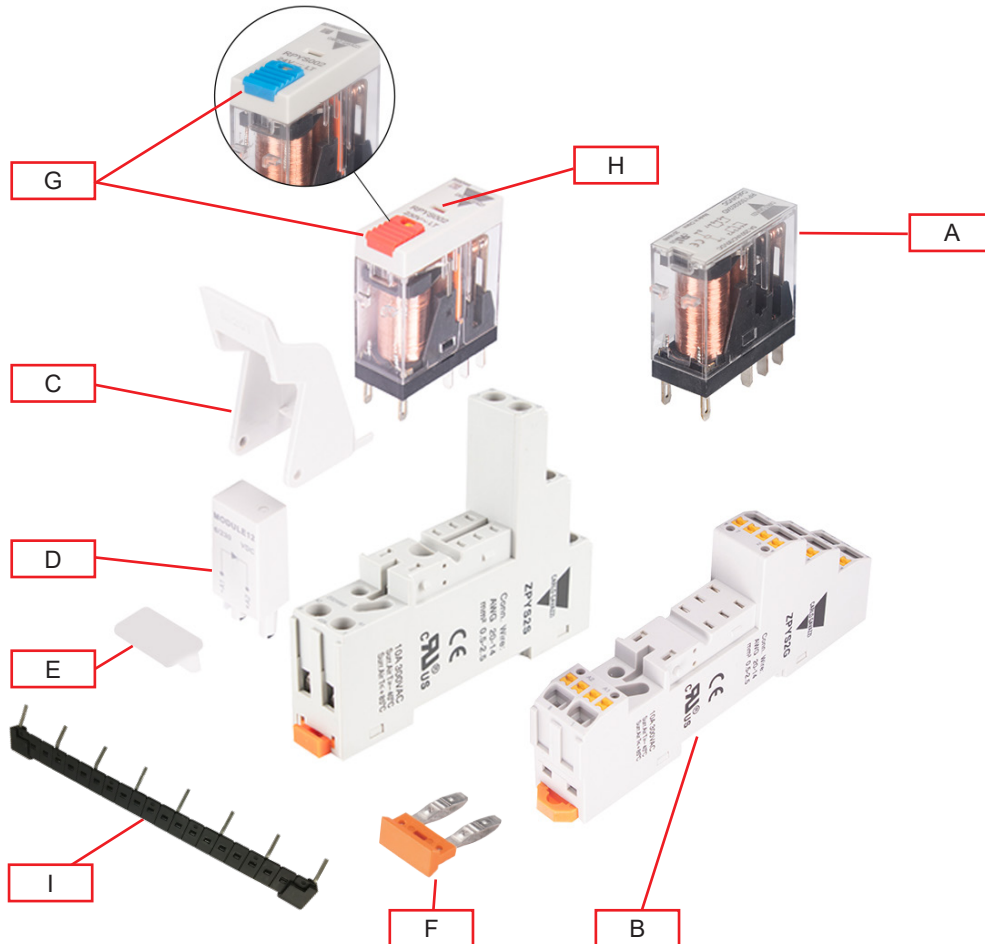
Further reading

Information	Where to find it	QR
RPYS / ZPYS CAD drawings		

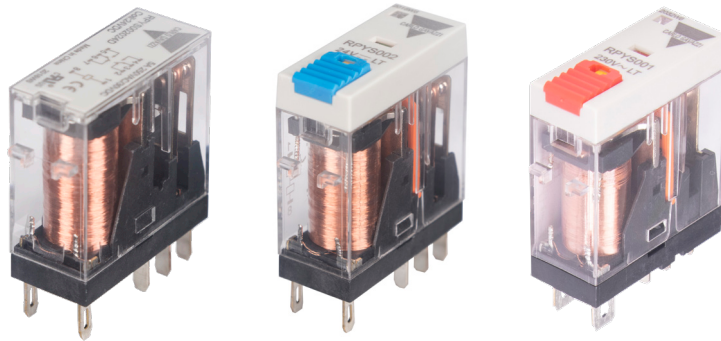
RPYS - ZPYS



Structure



Element	Component	Function
A	Relay	RPYS slim relay
B	Socket	ZPYS slim socket
C	Hold down spring	Plastic retaining clip
D	Protection module	Optional function module with diode and LED
E	ID tag	ID tag for ZPYS socket
F	Bus jumper	Bus jumper for push in socket
G	Test button	DC coil versions : Blue test button AC coil versions : Red test button
H	LED	LED indication when relay is ON (for RPYS..LT versions)
I	Bus jumper	Bus jumper for screw socket



Features

Coil data

	RPYS..12D	RPYS..24D	RPYS..24A	RPYS..115A	RPYS..230A
Coil voltage	12 VDC	24 VDC	24 VAC	115 VAC	230 VAC
Coil resistance (Ω) ($\pm 10\%$ for coil voltage < 110 V) ($\pm 15\%$ for coil voltage > 110 V)	270	1100	240	6300	23000
Pick-up voltage (23 °C)	$\leq 75\%$ rated voltage,		$\leq 80\%$ rated voltage		
Drop-out voltage (23 °C)	$\geq 10\%$ rated voltage,		$\geq 30\%$ rated voltage		
Maximum voltage (23 °C)	110 % rated voltage				
Coil operating power	0.53 W		1 VA		

Contacts data

	RPYS001	RPYS002
Rated current AC-15 / DC 13	10 A @ 250 VAC, 30 VDC	5 A @ 250 VAC, 30 VDC
Minimum load current	10 mA / 12 VDC	
Switching capacity (resistive)	2500 VA, 300 W; 4000 VA, 480 W	1250 VA 150 W; 2000 VA, 240 W
Initial contact resistance	$\leq 50\text{ m}\Omega$	
Material	Ag alloy	
Electrical durability	$\geq 100,000$ cycles (1800 Ops / h)	
Mechanical durability	$\geq 10,000,000$ cycles (18000 Ops / h)	
Insulation resistance	$\geq 1000\text{ M}\Omega$ (500 VDC)	
Operate time	$\leq 20\text{ ms}$ (at nominal voltage)	
Release time	$\leq 10\text{ ms}$ (at nominal voltage)	
Initial breakdown voltage Between open contacts Between poles Between contacts and coil	1000 VAC / min 3000 VAC / min 5000 VAC / min	

Environmental specifications

Ambient temperature	-40 ~ 55 °C (-40 ~ 131 °F)
Storage temperature	-55 ~ 85 °C (-67 ~ 185 °F)
Humidity	5 % ~ 85 % RH
Shock resistance	10 g
Vibration resistance	10 ~ 55 Hz
Weight	20 g

Compatibility and conformity

CE (RoHS, LVD)	IEC 61810
UL certification	UL508a (cURus)

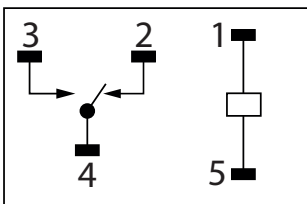
Installation

Mounting	Plug-in into socket
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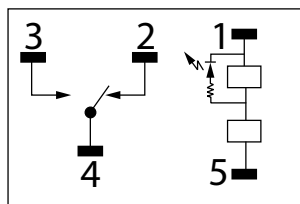
Connection diagram

Contacts layout

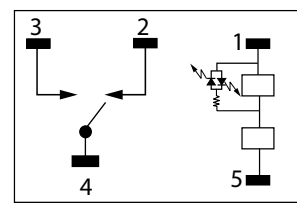
RPYS001...D/A



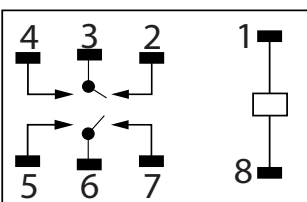
RPYS001...ALT



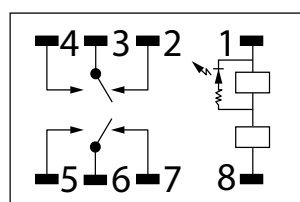
RPYS001...DLT



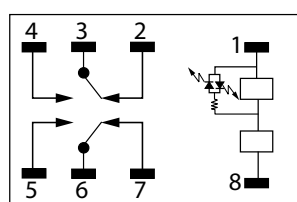
RPYS002...D/A



RPYS002...ALT



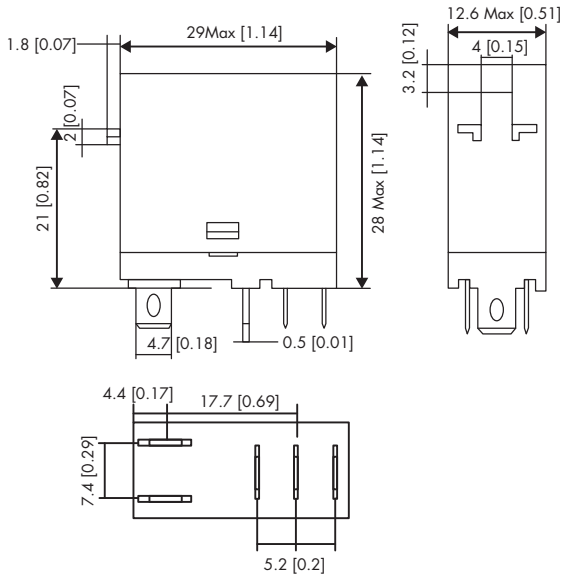
RPYS002...DLT



Dimensions

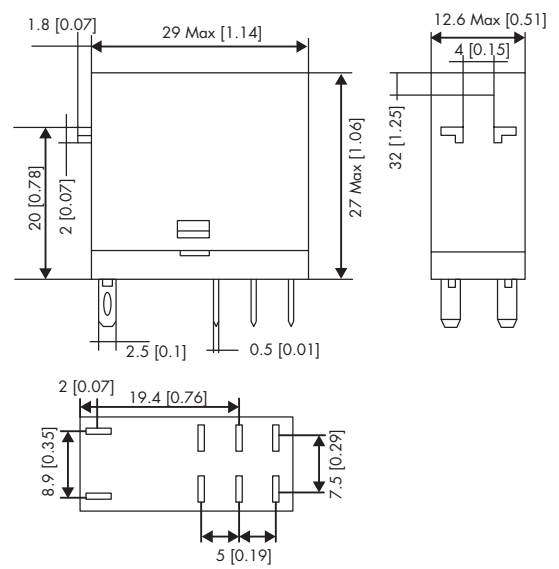
RPYS001...D/A

Unit: mm [inches]



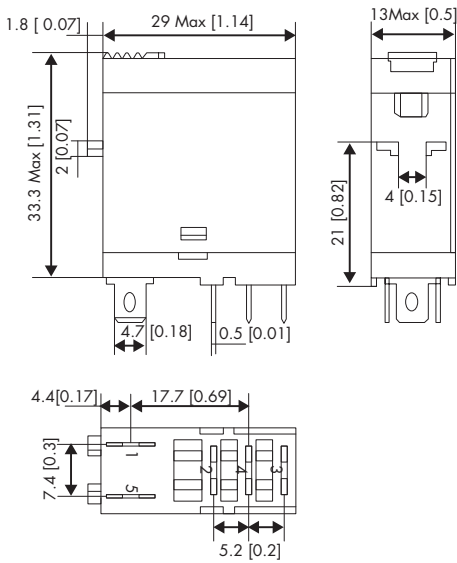
RPYS002...D/A

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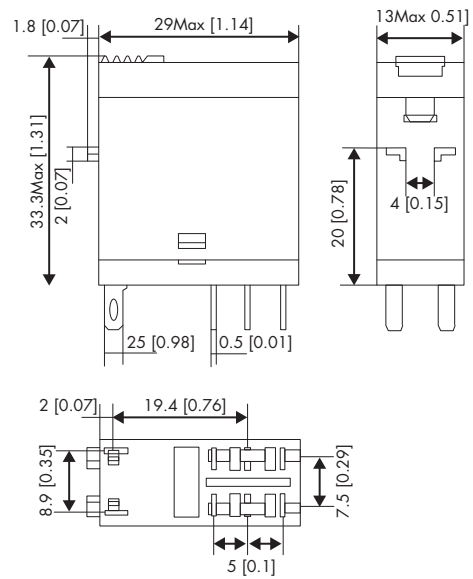
RPYS001...DLT/ALT

Unit: mm [inches]



RPYS002...DLT/ALT

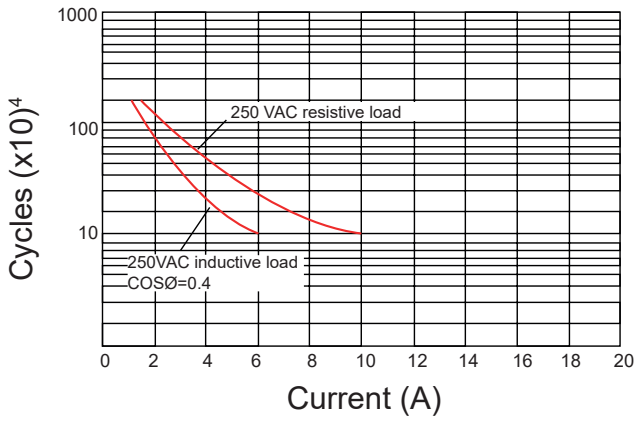
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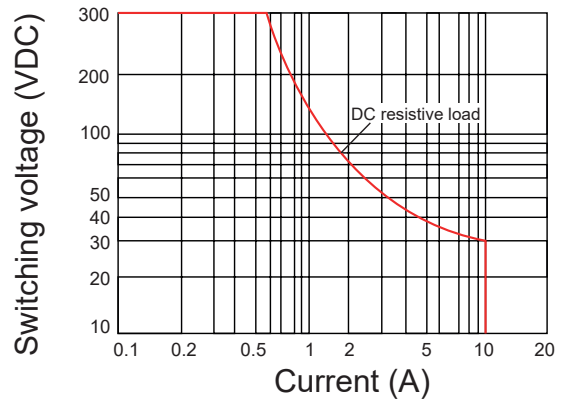
Performance curves

RPYS001

Electrical durability curve

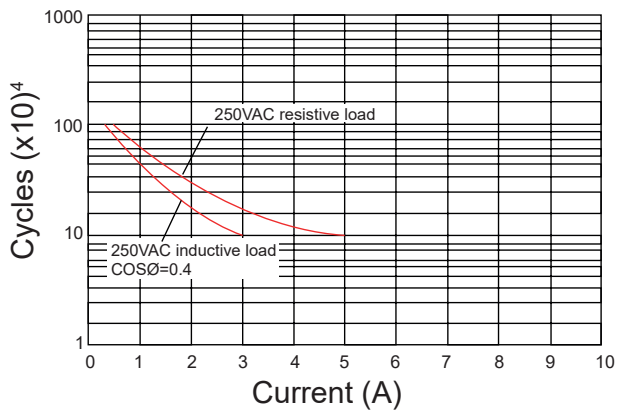


Maximum switching capacity

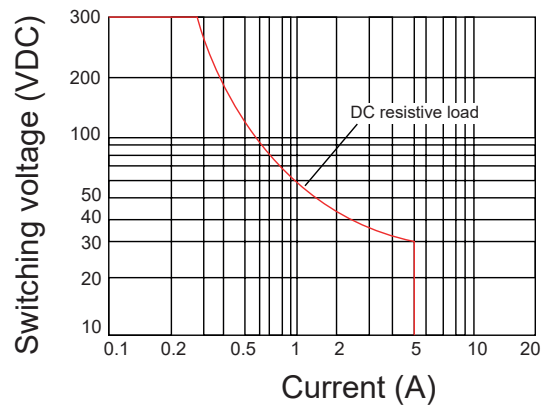


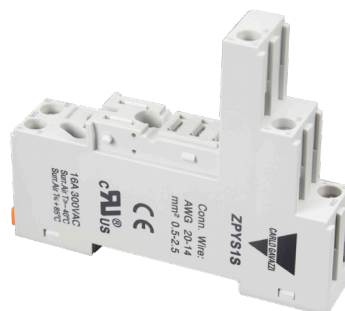
RPYS002

Electrical durability curve



Maximum switching capacity





Features

Contact data

Socket code	ZPYS1.	ZPYS2.
Rated load current	16 A	10 A
Rated load voltage	300 V	
Dielectric strength Between coil and contact Between contacts	4000 V / min 2500 V / min	
Insulation resistance	100 M Ω	

Environmental specifications

	ZPYS1.	ZPYS2.
Ambient temperature	-40 ~ 85 °C (-40 ~ 185 °F)	
Storage temperature		
Vibration resistance	10 - 55 Hz, Amplitude 1 mm	
Protection degree	IP 20	
Pollution degree	2	
Weight	35 g	43 g

Compatibility and conformity

	ZPYS1.	ZPYS2.
CE (RoHS, LVD)	IEC 61984	
UL certification	UL508a (cURus)	

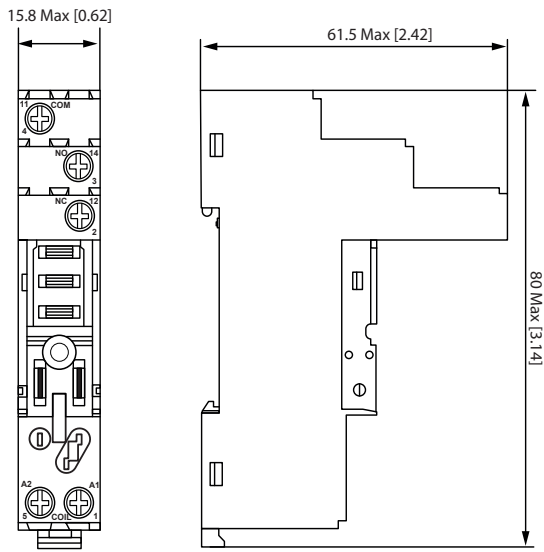
Connection specification

	ZPYS.S	ZPYS.G
Terminal type		
Applicable terminal		
Tightening torque	0.8 Nm	-
Press strength for push-in terminal	-	≤ 75 N (suggested 40 N)
Conductor cross section	0.5 - 2.5 mm ² (20 - 14 AWG)	

Dimensions

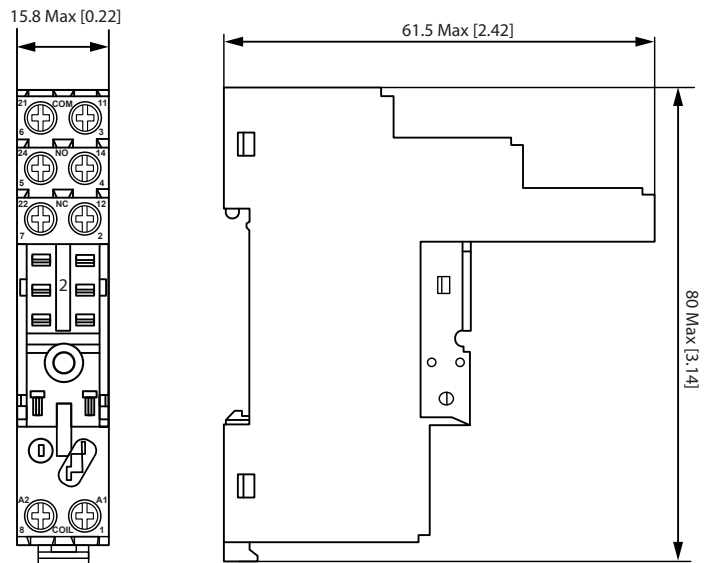
ZPYS1S

Units: mm [inches]



ZPYS2S

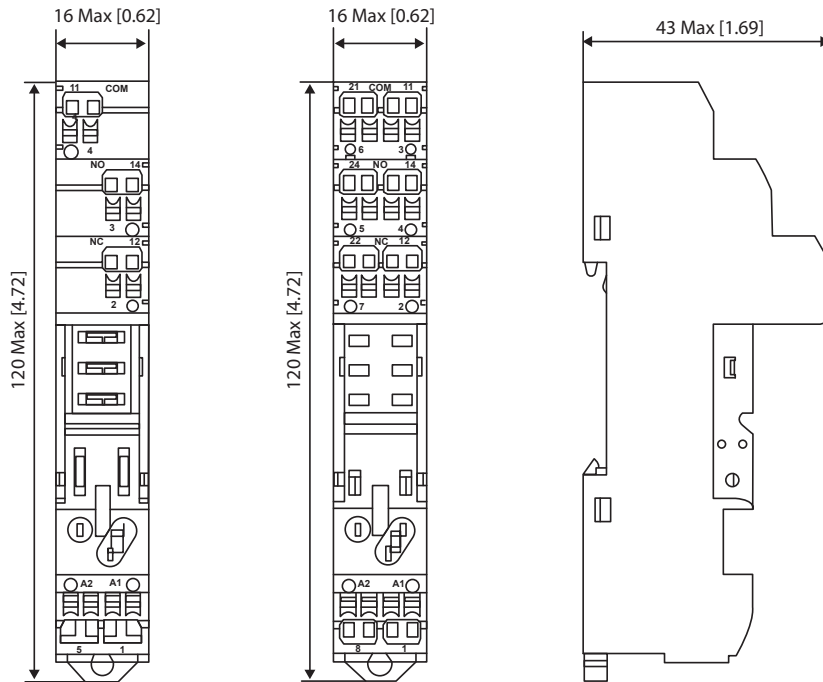
Units: mm [inches]



ZPYS

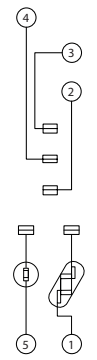


ZPYS1G, ZPYS2G
Units: mm [inches]



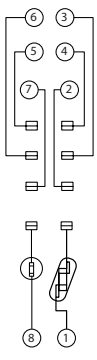
Contacts layout

ZPYS1.



Terminal Marking		Function
1	A1	Coil voltage
2	12	Normally closed (NC)
3	14	Normally open (NO)
4	11	Common
5	A2	Coil voltage

ZPYS2.


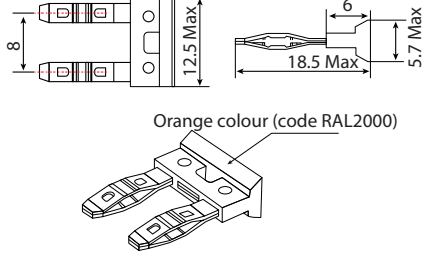

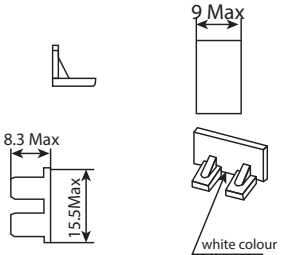

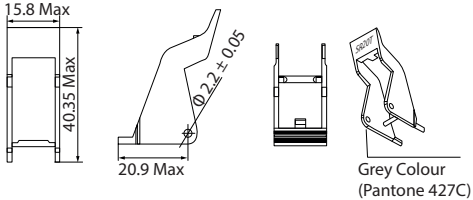

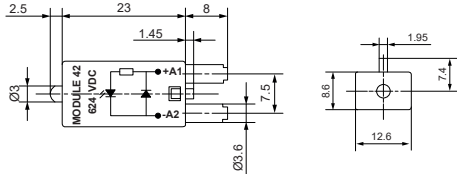

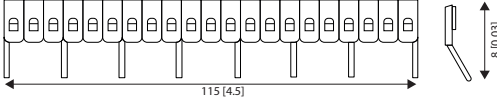


Terminal Marking		Function
1	A1	Coil voltage
2	12	Normally closed (NC)
3	11	Common
4	14	Normally Open (NO)
5	24	Normally Open (NO)
6	21	Common
7	22	Normally Closed (NC)
8	A2	Coil voltage

ZPYS



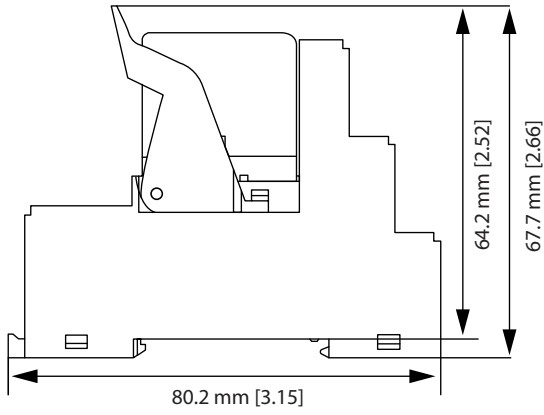
Accessories

Item code	Image	Dimensional Diagram
ZGBJ		 <p>Orange colour (code RAL2000)</p>
ZPYSID		 <p>white colour</p>
ZPYSPC		 <p>Grey Colour (Pantone 427C)</p>
MODULE42		
ZDBB		

Dimensions

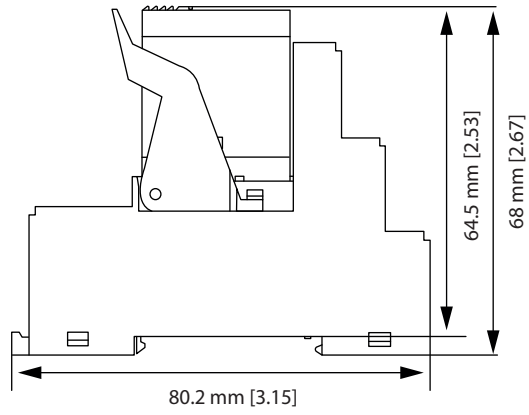
RPYS + ZPYS.S

Units: mm [inches]



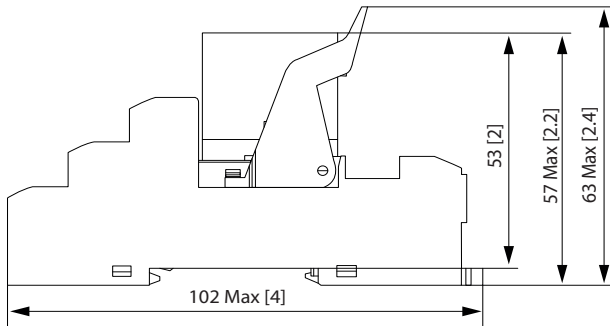
RPYS.LT + ZPYS.S

Units: mm [inches]



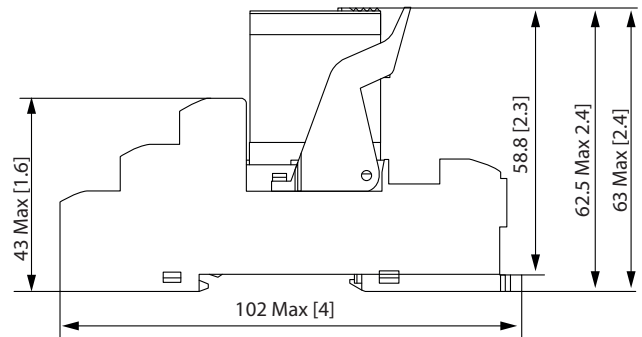
RPYS + ZPYS.G

Units: mm [inches]



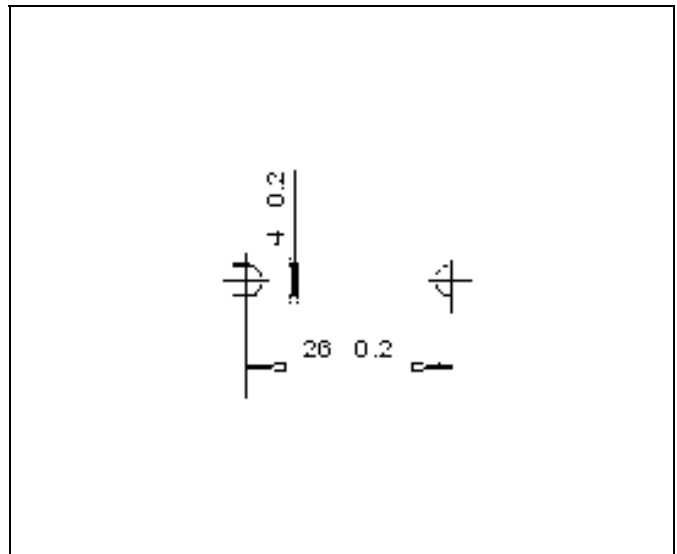
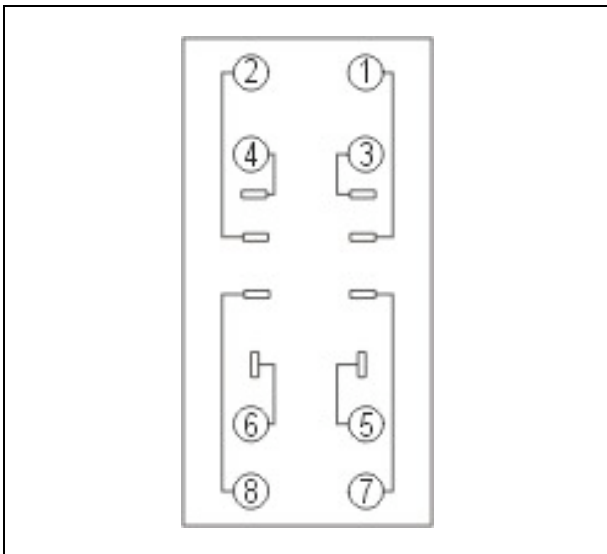
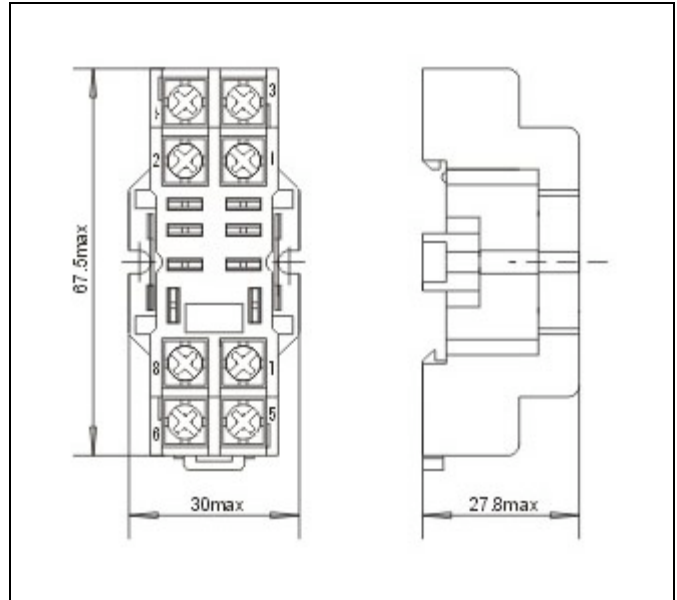
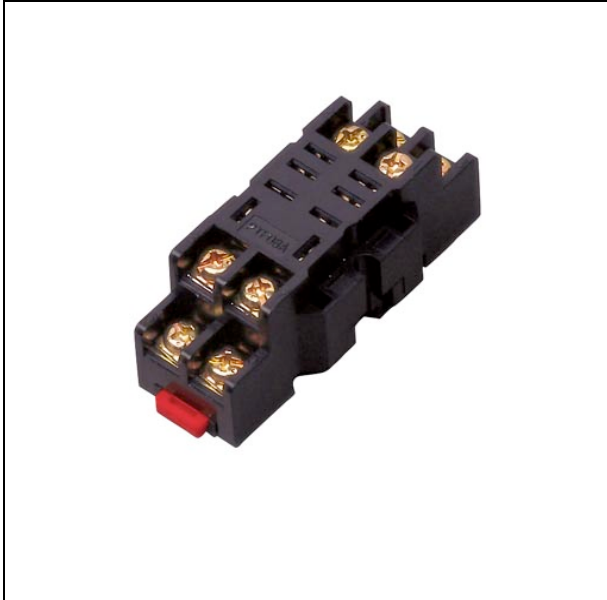
RPYS.LT + ZPYS.G

Units: mm [inches]



Sockets for RPY series relays

ZPY08

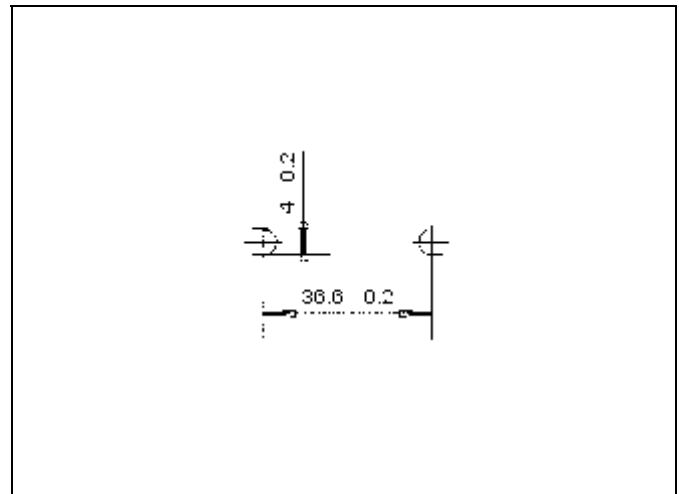
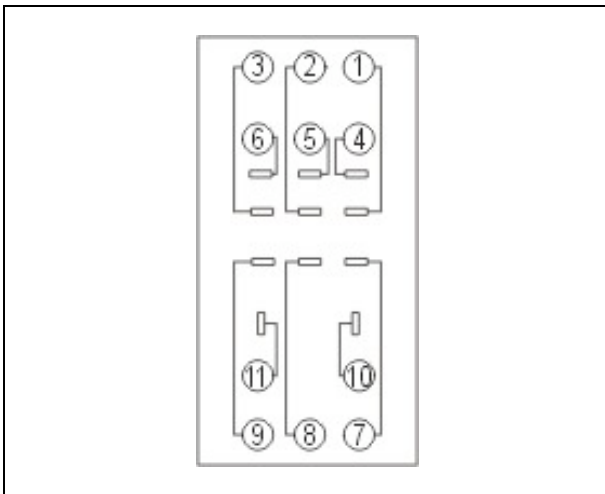
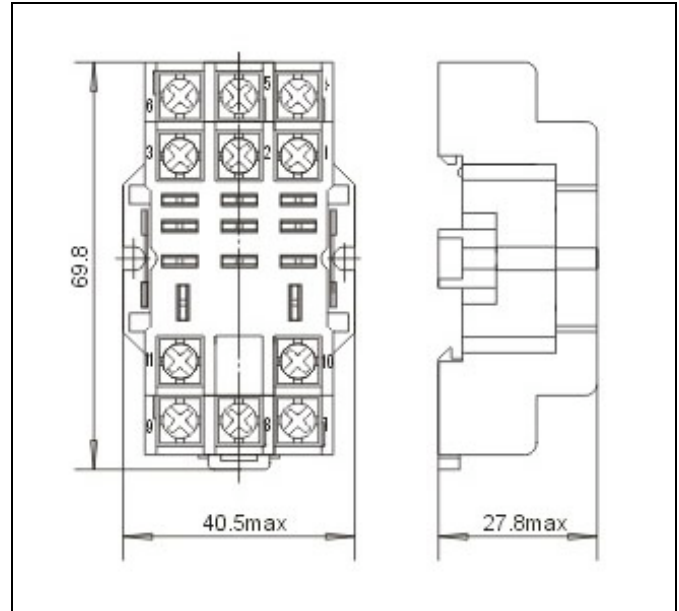


For DIN-rail mounting (DIN 46277-3) or by screws on chassis.

Rated voltage	300Vac
Rated current	10 A
Insulation voltage	>4kV
Protection degree	IP00
Socket material	Self extinguishing PA66
Contact material	Nickel plated – Cu Zn 33
Hold-down spring (opt.)	Steel
Approvals	CSA, UL

Sockets for RPY series relays

ZPY11

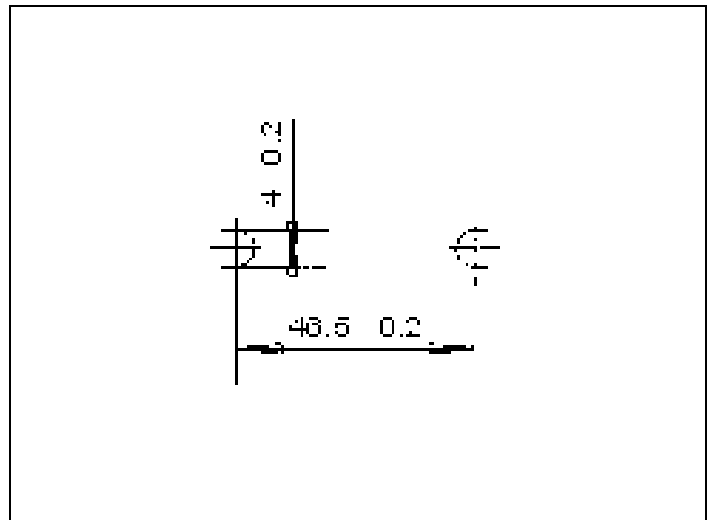
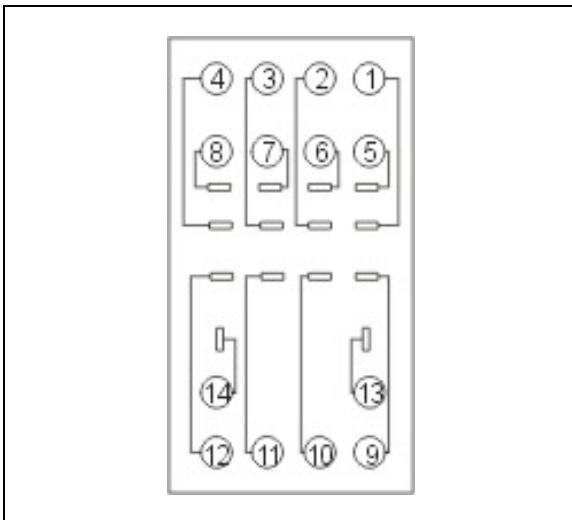
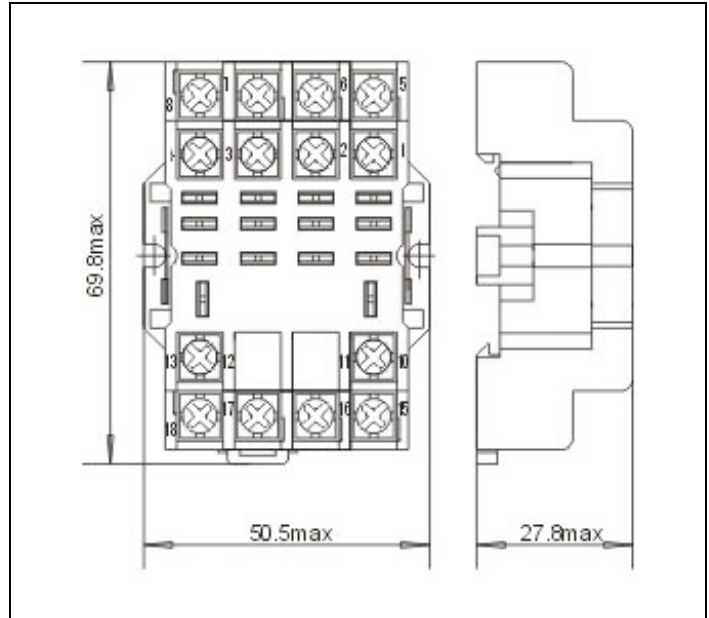


For DIN-rail mounting (DIN 46277-3) or by screws on chassis.

Rated Voltage	300Vac
Rated current	10A
Insulation voltage	>4kV
Protection degree	IP00
Socket material	Self extinguishing PA66
Contact material	Nickel plated – Cu Zn 33
Hold-down spring (opt.)	Steel
Approvals	CSA, UL

Sockets for RPY series relays

ZPY14



For DIN-rail mounting (DIN 46277-3) or by screws on chassis.

Rated voltage	300Vac
Rated current	10 A
Insulation voltage	>4kV
Protection degree	IP20
Socket material	Self extinguishing PA66
Contact material	Nickel plated – Cu Zn 33
Hold-down spring (opt.)	Steel – code
Approvals	CSA, UL

Industrial Relay Type RPY 3 10A Monostable



- High switching power
- Wide range of applications
- 10A switching capacity
- 3 pole configuration
- Flanged pins 5mm (0.20")
- DC coils from 6 to 220V
- AC coils from 6 to 380V
- Compliant with CE low voltage directive
- TÜV, UL, CSA approved

Product Description

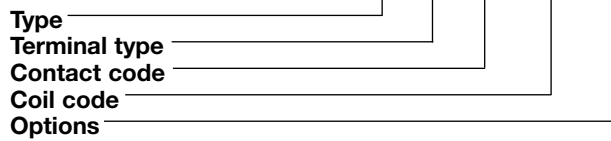
The RPY relay can be used for a wide range of industrial applications. Available in a 1, 2, 3, 4 pole change-over contact configuration. Its wide terminals allow reliability and big currents.

Approvals



Ordering Key

RPY A 003 A24 DLT



Terminal type: A= Plug in terminals, blades
B= PCB terminals

Box content: 10 relays
Box size: (W 240 x D 105 x H 38) mm Weight: 750g
(W 9.45 x D 4.13 x H 1.50) inches Weight: 26.45oz

Type Selection

Contact configuration	Contact rating	Contact code
3 change over contact (DPDT- 3 form C)	10A	003

Coil Characteristics, DC @ +25°C (+77°F), coil power 1.4W

Coil Code	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max.Allowed Voltage VDC	Coil Current mA	Coil Resistance Ω
6	6	4.5	0.60	6.6	240	25
9	9	6.75	0.90	9.9	161	56
12	12	9	1.20	13.2	120	100
24	24	18	2.40	26.4	60	400
36	36	27	3.60	39.6	40	900
48	48	36	4.80	52.8	30	1600
110	110	82.5	11.0	121	13	8400
220	220	165	22.0	242	6.67	33000

Coil Characteristics, AC @ +25°C (77°F), coil power 2VA

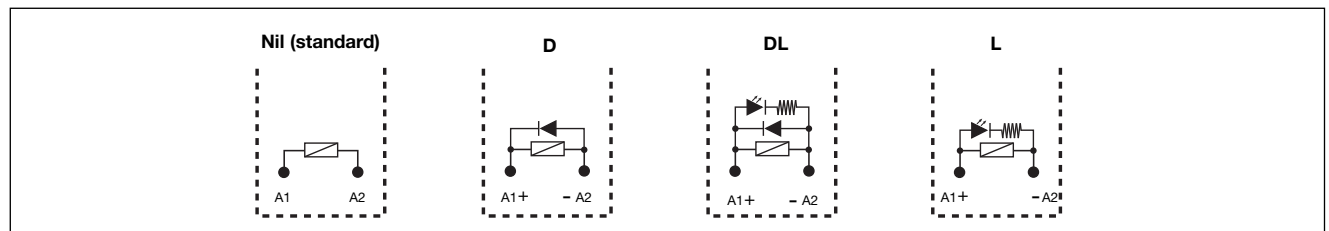
Coil Code	Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max.Allowed Voltage VAC	Coil Current mA		Coil Resistance Ω
					50Hz	60Hz	
A6	6	4.8	1.8	6.6	330	280	6.5
A12	12	9.6	3.6	13.2	167	142	25.5
A24	24	19.2	7.2	26.4	83	70	102
A36	36	28.8	10.8	39.6	55	47	230
A48	48	38.4	14.4	52.8	42	36	410
A110	100/110	88	33.0	121	18	15	2300
A120	120	96	36.0	142	17	14.5	2700
A220	220	176	66.0	242	9	7.7	8600
A240	240	192	72.0	264	8.3	7	10000
A380	380	304	114	418	5.2	4.4	27500

Options

Nil = Standard (Fig.1)
D = Free Wheeling diode (DC coil only)
F = Flange Mount (Fig.2)
G = Gold Plated contacts

L = LED
T = Test Button

Note:
In case of more options use the alphabetical order for coding.
LED and test button are not available on flange mount version



Contact Characteristics

Contact Rating (With resistive load)	10A - 250VAC	Max Switching Power	2500VA / 280W
Usually rating	10A-250VAC / 28VDC	Life	
Material	AgSnO₂In₂O₃	Electrical life	1x10⁵ cycles (3600ops/h)
Contact Resistance	<50mΩ	Mechanical	1x10⁷ cycles (18000 ops/h)
Current		UL/CSA ratings	1/3Hp 120VAC
Max. switching current	10A		1/2Hp 240VAC
Min. switching current	10mA @ 12VDC		10A @ 30VDC
Min. switching current G version	1mA @ 6VDC		10A @ 250VAC

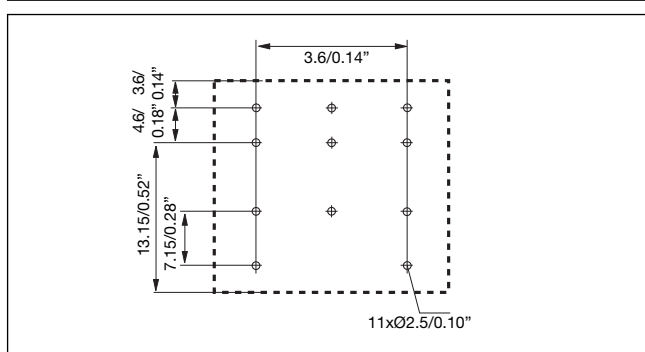
Insulation

Test voltage (1min.)		Insulation According to EN61810-5	
Between coil and contacts	2000VAC	Rated insulation voltage	250V
Between open contacts	1200VAC	Impulsive insulation	2kV
Contact / contact	1200VAC	Overvoltage categor	II
Insulation resistance	≥1000MΩ - 500V		

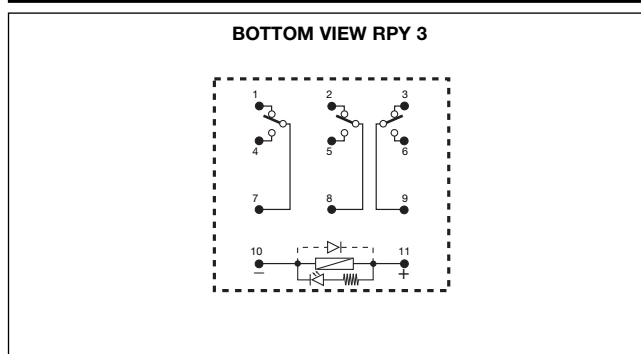
General Data

Nominal coil power	1.4W DC – 1.2VA AC	Vibration resistance	10 to 55Hz 1mm (0.04")
Operating time (at nominal voltage)	≤20ms	Shock resistance	Functional
Release time (at nominal voltage)	≤20ms	Termination	98m/s ² (10G)
Ambient temperature	-25° to +55°C (-13° to +131°F)	Construction	Flanges (blades) 5mm (0.20")
Ambient humidity	35% to 85%	Weight	Dust cover
			50g (1.76oz)

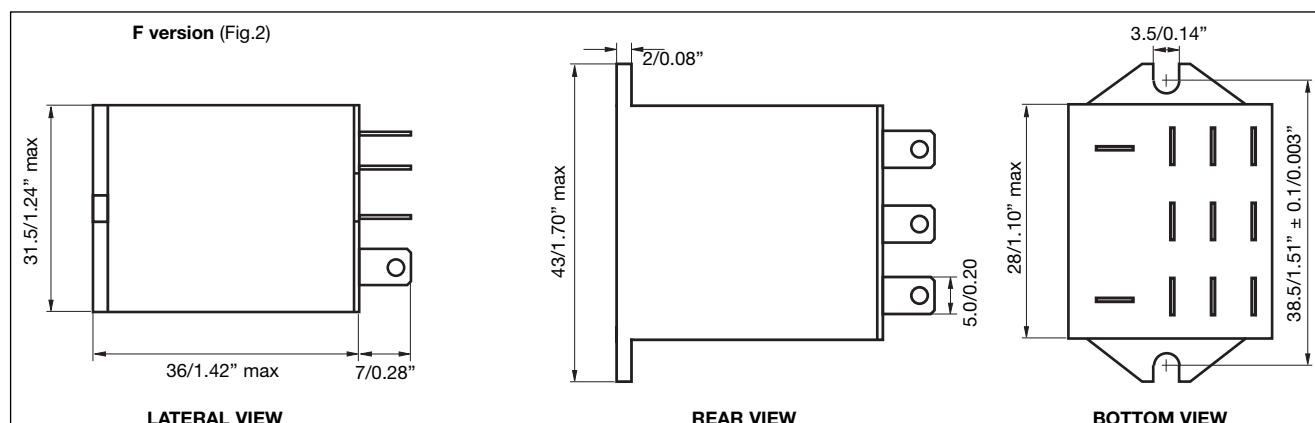
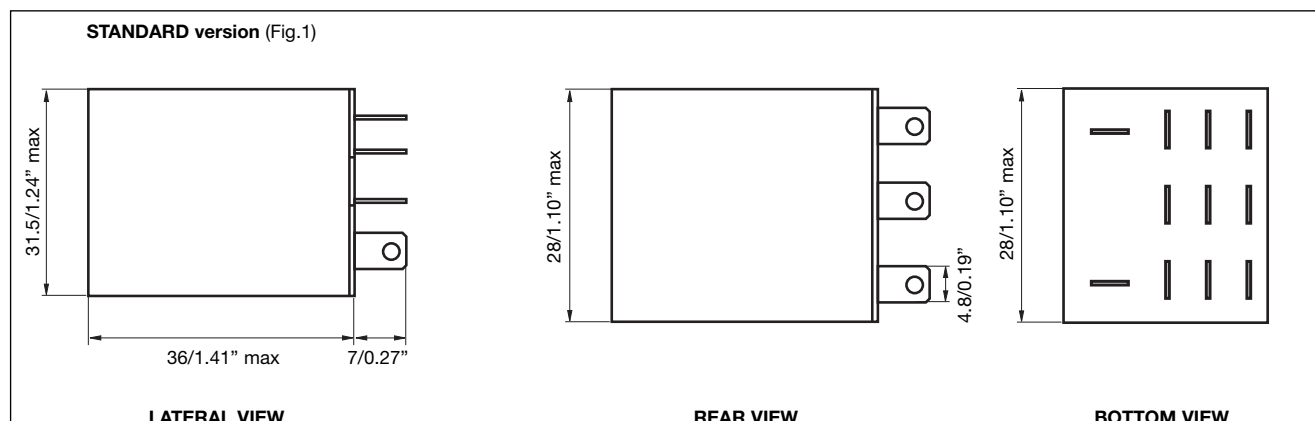
Pin View mm/inches



Wiring Diagram

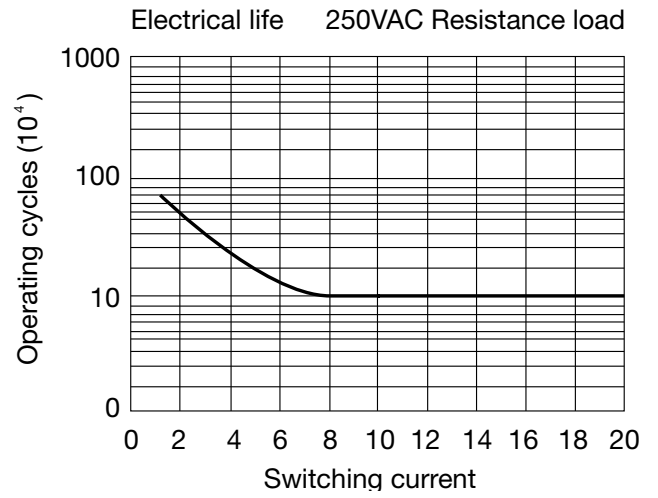
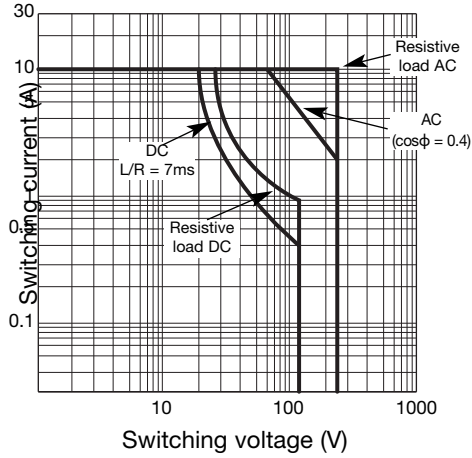


Dimensions mm/inches

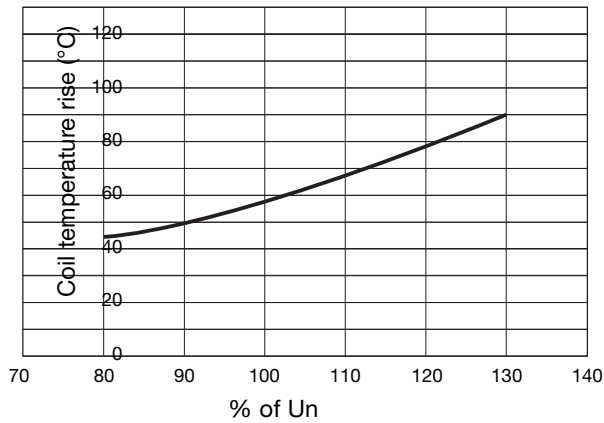


Diagrams

Max. switching current



Temperature curve of coil



Bases and Sockets

DIN rail sockets code is **ZPY11A** details and specifications on page 64 of industrial relays catalogue.

Industrial Relay Type RPY 4 10A Monostable



- High switching power
- Wide range of applications
- 10A switching capacity
- 4 pole configuration
- Flanged pins 5mm (0.20")
- DC coils from 6 to 220V
- AC coils from 6 to 380V
- Compliant with CE low voltage directive
- TÜV, UL, CSA approved

Product Description

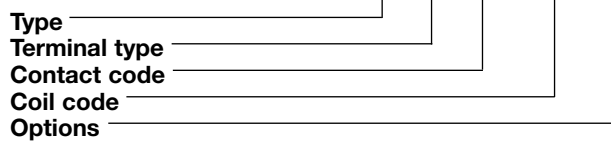
The RPY relay can be used for a wide range of industrial applications. Available in 1, 2, 3, 4 pole change-over contact configuration. Its wide terminals allow reliability big currents.

Approvals



Ordering Key

RPY A 004 A24 DLT



Terminal type: A = Plug in terminals, blades
B = PCB terminals

Box content: 10 relays
Box size: (W 240 x D 105 x H 38) mm Weight: 850g
(W 9.45 x D 4.13 x H 1.50) inches Weight: 29.99oz

Contact configuration

4 change over contacts (DPDT- 4 form C)

Contact rating

10A

Contact code

004

Coil Characteristics, DC @ +25°C (+77°F), coil power 1.5W

Coil Code	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowed Voltage VDC	Coil Current mA	Coil Resistance Ω
6	6	4.5	0.6	6.6	250	24
9	9	6.75	0.9	9.9	170	54
12	12	9	1.2	13.2	125	96
24	24	18	2.4	26.4	70	360
36	36	27	3.6	39.6	42	865
48	48	36	4.8	52.8	31	1540
110	110	82.5	11	121	16	6800
120	115/120	86	11.5	132	7.8	11000*
220	220	165	22	242	7.6	29000

*coil power 0.9 W

Coil Characteristics, AC @ +25°C (+77°F), coil power 2.5VA

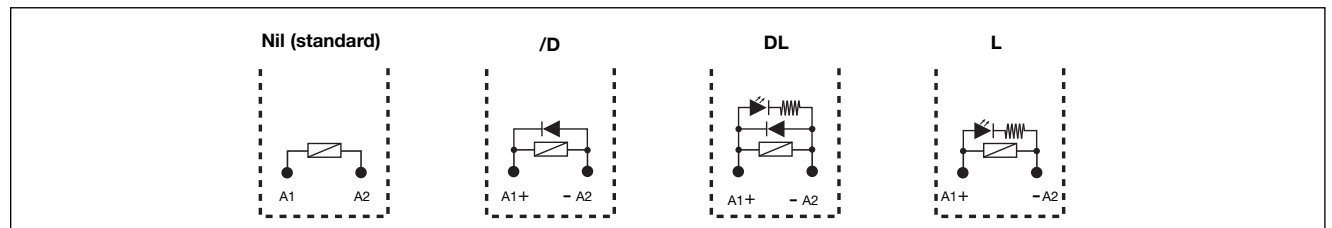
Coil Code	Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. Allowed Voltage VAC	Coil Current mA		Coil Resistance Ω
					50Hz	60Hz	
A6	6	4.8	1.8	6.6	420	360	5
A12	12	9.6	3.6	13.2	210	180	20
A24	24	19.2	7.2	26.4	100	85	80
A36	36	28.8	10.8	39.6	70	60	180
A48	48	38.4	14.4	52.8	52	44	320
A110	100/110	88.0	30.0	121.0	25/23	21/19.5	1680
A120	120	96.0	36.0	142.0	20	17	2000
A220	220	176	66.0	242.0	12	10	6700
A240	240	192	72.0	264.0	10	8.5	8000
A380	380	304	114.0	418.0	6.5	5.5	29000

Options

Nil = Standard (Fig.1)
D = Free Wheeling diode (DC coil only)
F = Flange Mount (Fig.2)
G = Gold Plated contacts

L = LED
T = Test Button

Note:
In case of more options use the alphabetical order for coding.
LED and test button are not available on flange mount version



Contact Characteristics

Contact Rating (With resistive load)	10A – 250VAC	Max Switching Power	2500VA / 280W
Usually rating	10A-250VAC / 28VDC	Life	
Material	AgSnO₂In₂O₃	Electrical life	1x10⁵ cycles (3600ops/h)
Contact Resistance	≤50mΩ	Mechanical	1x10⁷ cycles (18000ops/h)
Current		UL/CSA ratings	1/3Hp 120VAC
Max. switching current	10A		1/2Hp 240VAC
Min. switching current	10mA @ 12VDC		10A @ 30VDC
Min. switching current G version	1mA @ 6VDC		10A @ 250VAC

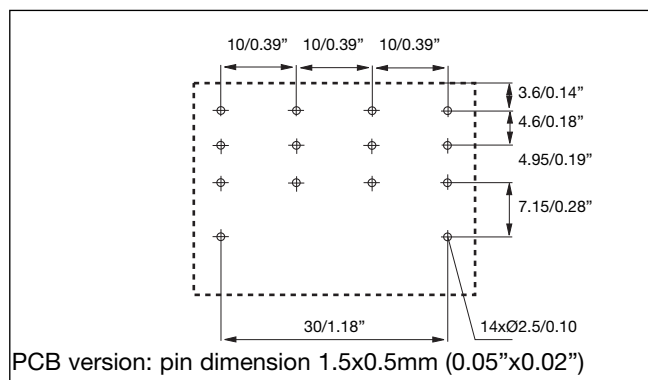
Insulation

Test voltage (1min.)		Insulation According to EN61810-5	
Between coil and contacts	2000VAC	Rated insulation voltage	250V
Between open contacts	1200VAC	Impulsive insulation	2kV
Contact / contact	1200VAC	Overvoltage categor	II
Insulation resistance	≥1000MΩ - 500V		

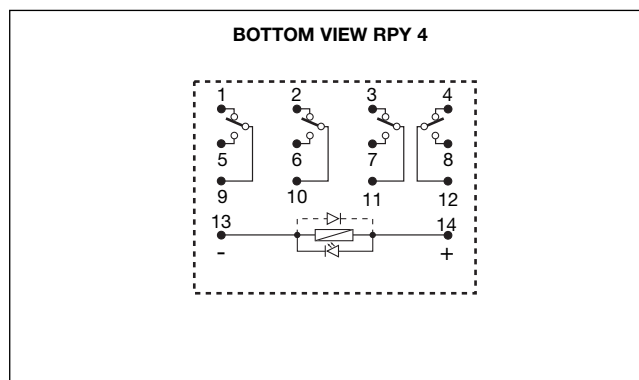
General Data

Nominal coil power	1.5W DC – 2.5VA AC	Vibration resistance	10 to 55Hz 1mm (0.04")
Operating time (at nominal voltage)	<20ms	Shock resistance	Functional
Release time (at nominal voltage)	<20ms	Termination	98m/s² (10G)
Ambient temperature	-25° to +55°C (-13° to +131°F)	Construction	Flanges (blades) 5mm (0.20")
Ambient humidity	35% to 85%	Weight	Dust cover
			65g (2.29oz)

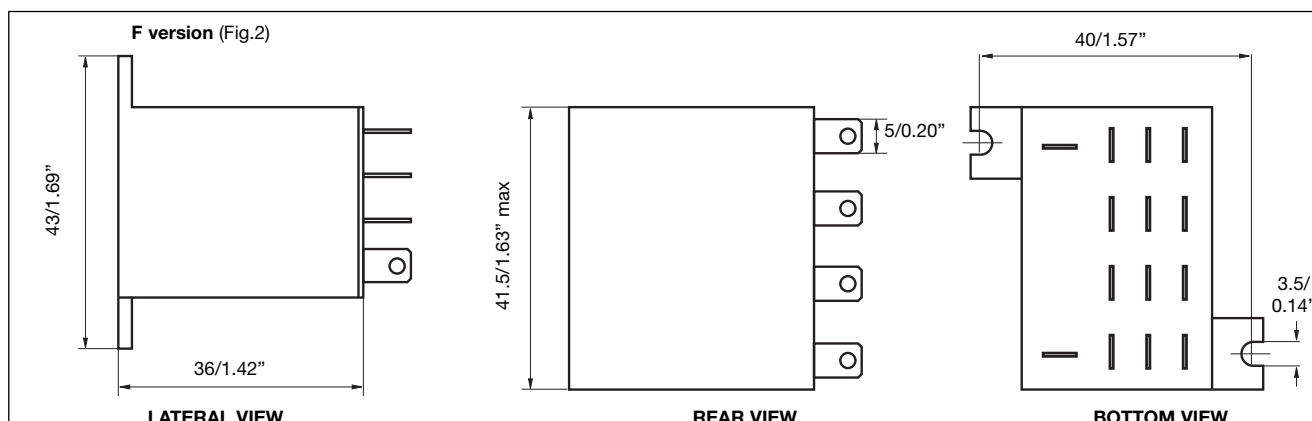
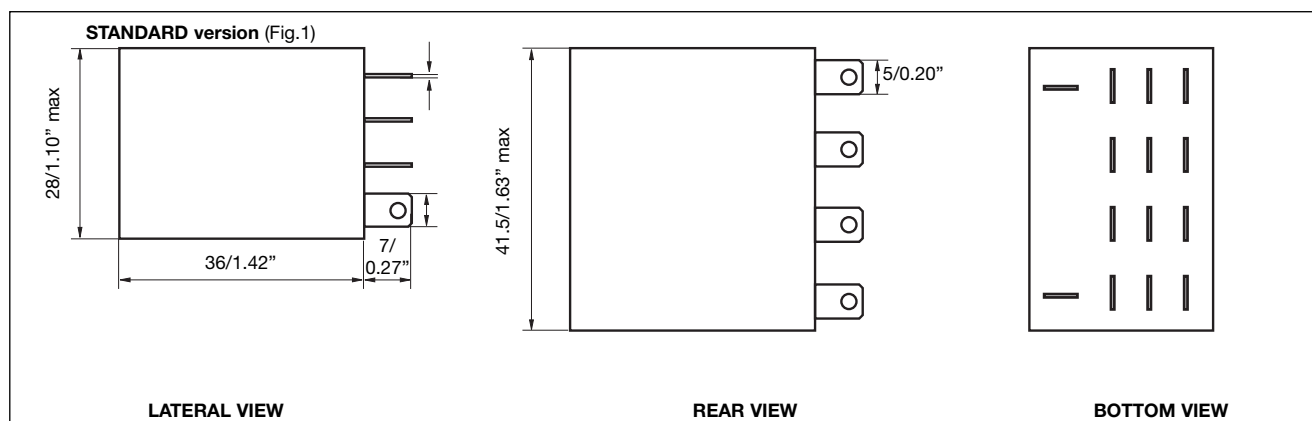
Pin View mm/inches



Wiring Diagram

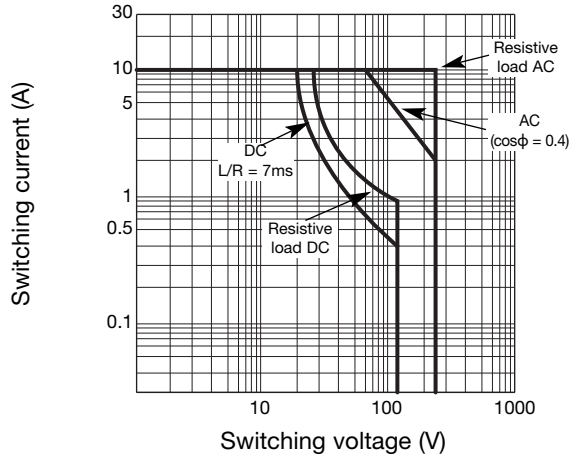


Dimensions mm/inches



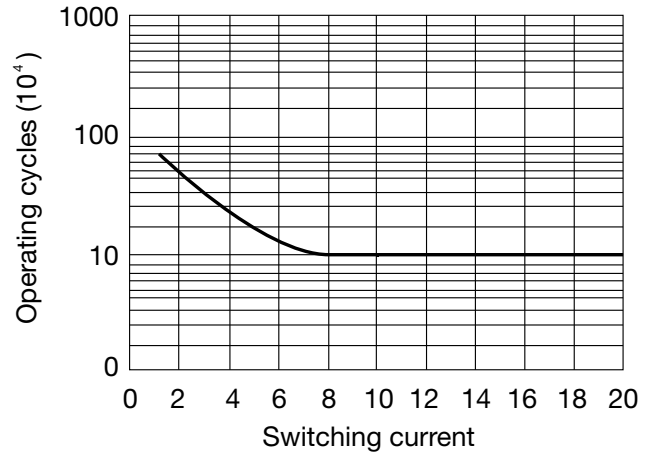
Diagrams

Max. switching current

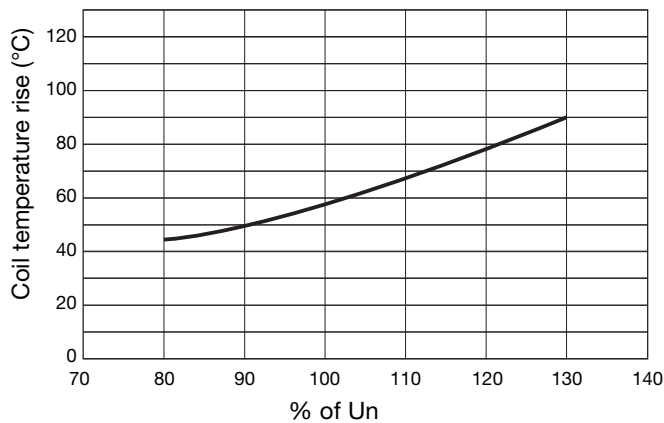


Electrical Life

250VAC Resistance load



Temperature curve of coil



Bases and Sockets

DIN rail sockets code is **ZPY14A** details and specifications on page 65 of industrial relays catalogue.
 PCB sockets code is **ZY14** details and specifications on page 67 of industrial relays catalogue.

Industrial Relay Type RPY 2 10A Monostable



- High switching power
- Small size
- Wide range of applications
- 10A switching capacity
- 2 pole configuration
- Flanged (blade) pins 5mm (0.20")
- DC coils from 6 to 240V
- AC coils from 6 to 380V
- High sensitivity
- Compliant with CE low voltage directive
- TÜV, UL, CSA approved

Product Description

The RPY relay can be used for a wide range of industrial applications.

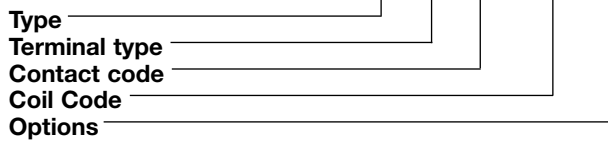
Available in a 1, 2, 3, 4 pole change-over contact configuration. Its wide terminals allow reliability at big currents.

Approvals



Ordering Key

RPY A 002 A24 DLT



Terminal type A = Plug in terminals, blades
B = PCB terminals

Box content: 20 relays
Box size: (W 240 x D 105 x H 38) mm Weight: 750g
(W 9.45 x D 4.13 x H 1.50) inches Weight: 26.45oz

Type Selection

Contact configuration	Contact rating	Contact code
2 change over contact (DPDT- 2 form C)	10A	002

Coil Characteristics, DC @ +25°C (+77°F), coil power 900mW

Coil Code	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max.Allowed Voltage VDC	Coil Current mA	Coil Resistance Ω
6	6	4.5	0.60	6.6	150	40
9	9	6.75	0.90	9.9	100	90
12	12	9	1.20	13.2	75	160
24	24	18	2.40	26.4	36.9	650
36	36	27	3.60	39.6	24	1500
48	48	36	4.80	52.8	18.5	2600
100	100	75	10.0	110	9.09	11000
110	110	82.5	11.0	121	10	11000
220	220	165	22.0	242	5.24	42000
240	240	180	24.0	264	3.75	64000

Coil Characteristics, AC @ +25°C (+77°F), coil power 1.2VA

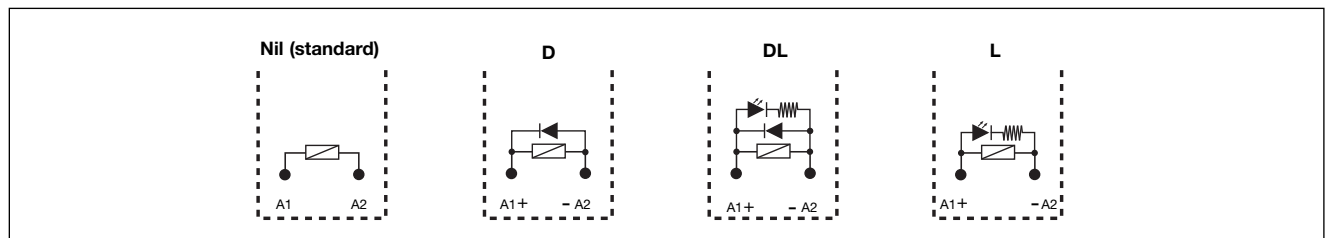
Coil Code	Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. Allowed Voltage VAC	Coil Current mA		Coil Resistance Ω
					50Hz	60Hz	
A6	6	4.8	1.8	6.6	230	200	11.5
A12	12	9.6	3.6	13.2	120	100	40
A24	24	19.2	7.2	26.4	57.5	50	160
A36	36	28.8	10.8	39.6	38	33	370
A48	48	38.4	14.4	52.8	28.75	25	600
A110	100/110	88	33.0	121	12.7	11	3750
A120	120	96	36.0	142	11.5	10	3900
A220	220	176	66.0	242	6.3	5.5	13000
A240	240	192	72.0	264	5.75	5	18790
A380	380	304	114	418	3.62	3.15	42000

Options

Nil = Standard (Fig.1)
D = Free Wheeling diode (DC coil only)
F = Flange Mount (Fig.2)
F1 = lateral flange (Fig.3)
G = Gold Plated contacts

L = LED
T = Test Button

Note:
In case of more options use the alphabetical order for coding.
LED and test button are not available on flange mount version



Contact Characteristics

Contact Rating (With resistive load)	10A-250VAC	Max Switching Power	2500VA / 280W
Rated values	10A-250VAC / 28VDC	Life	
Material	AgSnO ₂ In ₂ O ₃	Electrical life	1x10 ⁵ cycles (3600ops/h)
Contact Resistance	≤50m Ω	Mechanical	1x10 ⁷ cycles (18000ops/h)
Current		UL/CSA ratings	1/3Hp 120VAC 1/2Hp 240VAC 10A @ 30VDC 10A @ 250VAC
Max. switching current	10A		
Min. switching current	10mA @ 12VDC		
Min. switching current G version	1mA @ 6VDC		

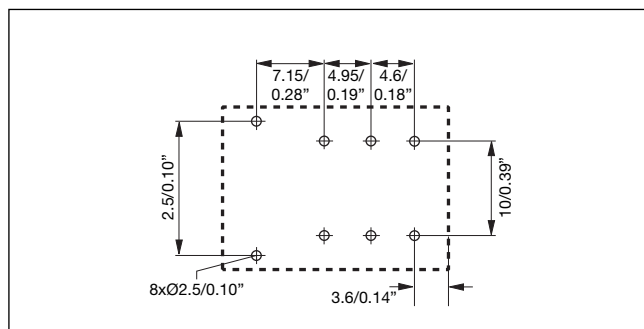
Insulation

Test voltage (1min.)		Insulation According to	
Between coil and contacts	2000VAC	EN61810-5	
Between open contacts	1200VAC	Rated insulation voltage	250V
Contact / contact	1200VAC	Impulsive insulation	2kV
Insulation resistance	≥1000M Ω - 500V	Overvoltage categor	II

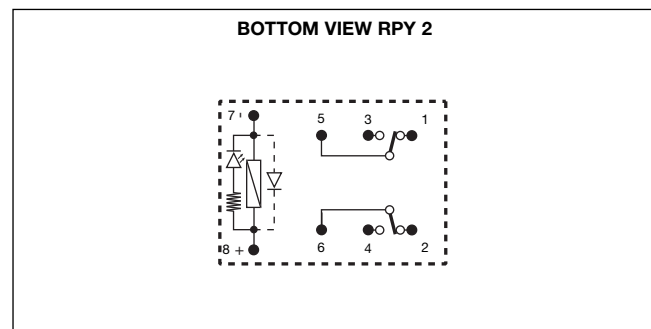
General Data

Nominal coil power	0.9W DC – 1.2VA AC	Vibration resistance	10 to 55Hz 1mm (0.04")
Operating time (at nominal voltage)	≤20ms	Shock resistance	
Release time (at nominal voltage)	≤20ms	Functional	98m/s² (10G)
Ambient temperature	-25°C +55°C (-13°F to +131°F)	Termination	Flanges (blades) 5mm (0.20")
Ambient humidity	35% to 85%	Construction	Dust cover
		Weight	35g (1.23oz)

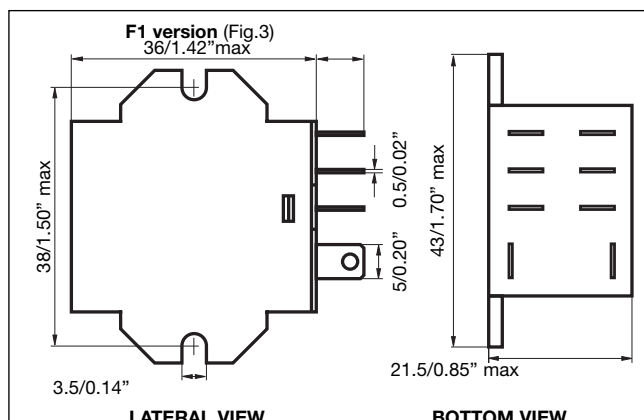
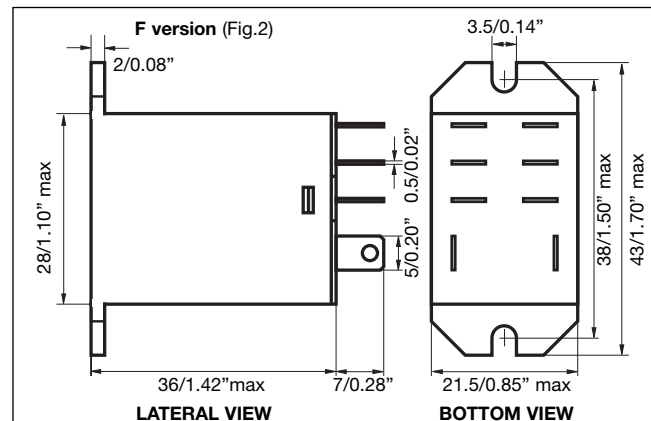
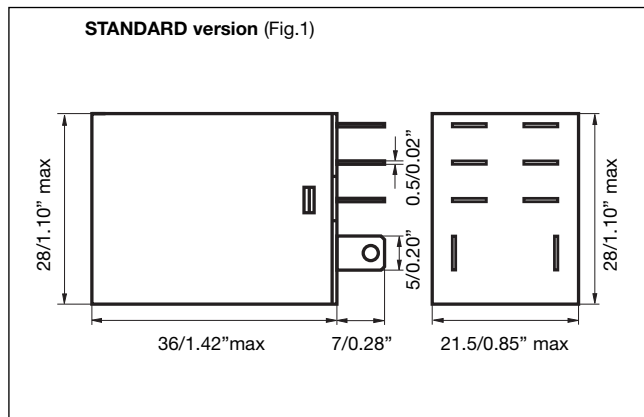
Pin View mm/inches



Wiring Diagram

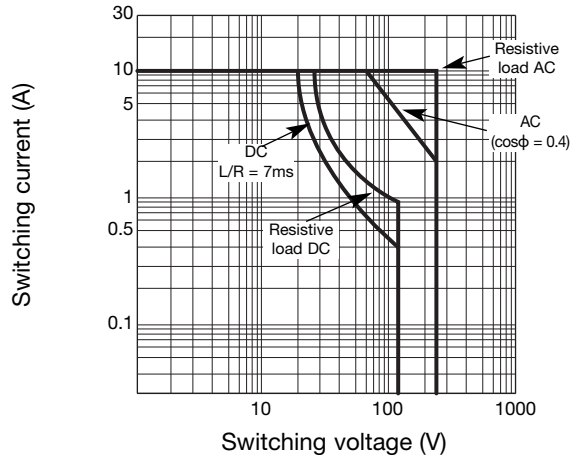


Dimensions mm/inches



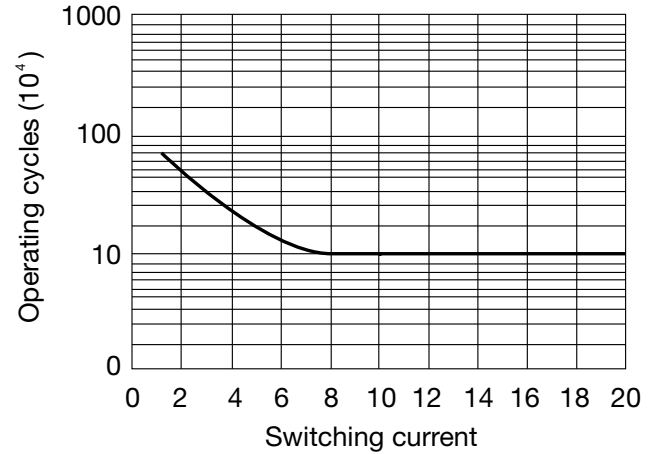
Diagrams

Max. switching current

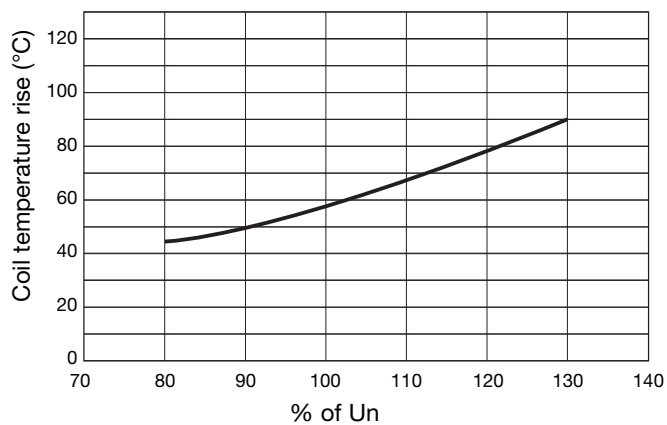


Electrical Life

250VAC Resistance load



Temperature curve of coil



Bases and Sockets

DIN rail sockets code are **ZPY8A** and **ZPY08C** details and specifications on pages 63 and 66 of industrial relays catalogue.
 PCB sockets code is **ZY08** details and specifications on page 67 of industrial relays catalogue.

Industrial Relay Type RPY 1 16A Monostable



- High switching power
- Small size
- Wide range of applications
- 16A switching capacity
- 1 pole with 2 terminals
- Flanged (blade) pins 5mm (0.20")
- DC coils from 6 to 240V
- AC coils from 6 to 380V
- High sensitivity
- Compliant with CE low voltage directive
- TÜV, UL, CSA approved

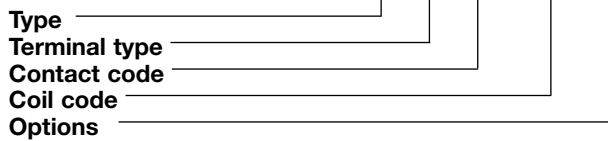
Product Description

The RPY relay can be used for a wide range of industrial applications.

Available in 1, 2, 3, 4 pole change-over contact configuration. Its wide terminals allow reliability big currents.

Ordering Key

RPY A 001 A24 DLT



Terminal type: A= Plug in terminals, blades
B= PCB terminals

Box content: 20 relays
Box size: (W 240 x D 105 x H 38) mm Weight: 750g
(W 9.45 x D 4.13 x H 1.50) inches Weight: 26.45oz

Approvals



Type Selection

Contact configuration	Contact rating	Contact code
1 change over contact (DPDT- 1form C)	16A	001

Coil Characteristics, DC @ +25°C (+77°F), coil power 900mW

Coil Code	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max.Allowed Voltage VDC	Coil Current mA	Coil Resistance Ω
6	6	4.5	0.60	6.6	150	40
9	9	6.75	0.90	9.9	100	90
12	12	9	1.20	13.2	75	160
24	24	18	2.40	26.4	36.9	650
36	36	27	3.60	39.6	24	1500
48	48	36	4.80	52.8	18.5	2600
100	100	75	10	110	9.09	11000
110	110	82.5	11	121	10	11000
220	220	165	22	242	5.24	42000
240	240	180	24	264	3.75	64000

Coil Characteristics, AC @ +25°C (+77°F), coil power 1.2V A

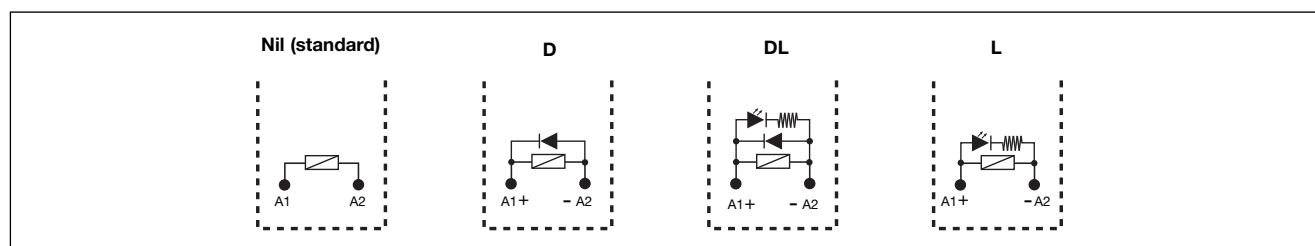
Coil Code	Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. Allowed Voltage VAC	Coil Current mA		Coil Resistance Ω
					50Hz	60Hz	
A6	6	6	1.8	6.6	230	200	11.5
A12	12	12	3.6	13.2	120	1000	40
A24	24	24	7.2	26.4	57.5	50	160
A36	36	36	10.8	39.6	38	33	370
A48	48	48	14.4	52.8	28.75	25	600
A110	100/110	110	33	121	12.7	11	3750
A120	120	120	36	142	11.5	10	3900
A220	220	220	66	242	6.3	5.5	13000
A240	240	240	72	264	5.75	5	18790
A380	380	380	114	418	3.62	3.15	42000

Options

Nil = Standard (fig. 1)
D = Free Wheeling Diode (DC coil only)
F = Flange Mount (fig. 2)
F1 = Lateral Flange (fig. 3)
G = Gold Plated Contacts

L = LED
T = Test Button

Note:
In case of more options use the alphabetical order for coding.
LED and test button are not available on flange mount version



Contact Characteristics

Contact Rating (With resistive load)	16A - 250VAC	Max Switching Power	4000VA / 450W
Rated values	16A-250VAC / 28VDC	Life	
Material	AgSnO ₂ In ₂ O ₃	Electrical life	1x10 ⁵ cycles (3600ops/h)
Contact Resistance	≤50mΩ	Mechanical	1x10 ⁷ cycles (18000ops/h)
Current		UL/CSA ratings	1/2Hp 120VAC 1Hp 240VAC 16A @ 30VDC 16A @ 250VAC
Max. switching current	16A		
Min. switching current	10mA @ 12VDC		
Min. switching current G version	1mA @ 6VDC		

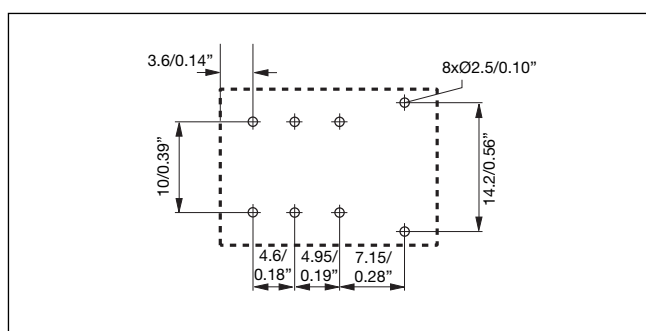
Insulation

Test voltage (1min.)		Insulation According to EN61810-5	
Between coil and contacts	2000VAC	Rated insulation voltage	250V
Between open contacts	1200VAC	Impulsive insulation	2kV
Contact / contact	1200VAC	Overvoltage category	II
Insulation resistance	≥1000MΩ - 500V		

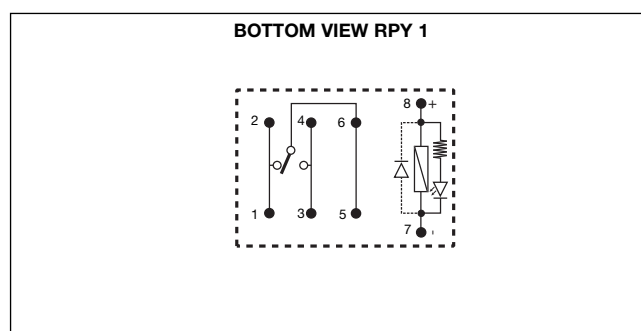
General Data

Nominal coil power	0.9W DC – 1.2VA AC	Vibration resistance	10 to 55Hz 1mm (0.04")
Operating time (at nominal voltage)	≤20ms	Shock resistance Functional	98m/s² (10G)
Release time (at nominal voltage)	≤20ms	Termination	Flanges (blades) 5mm (0.20")
Ambient temperature	-25° to + 55°C (-13° to +131°F)	Construction	Dust cover IP 40
Ambient humidity	35% to 85%	Weight	35g (1.23oz)

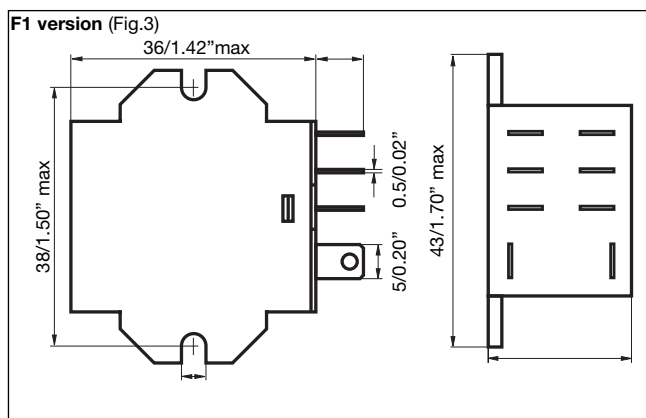
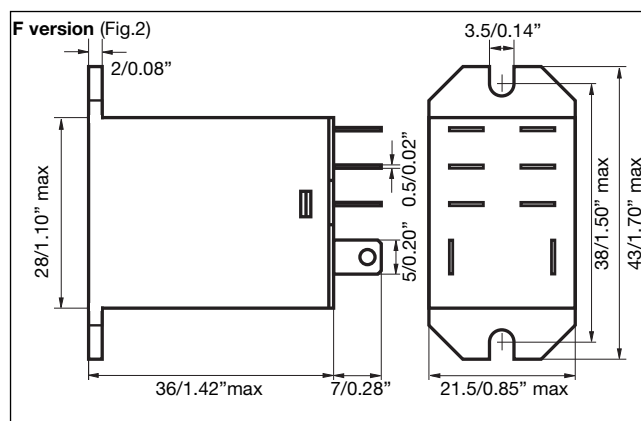
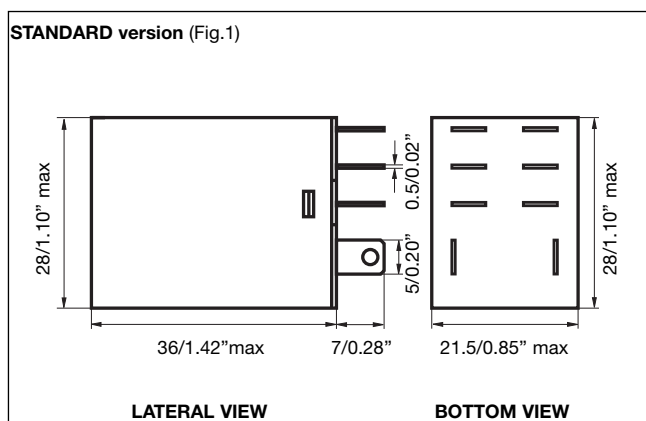
Pin View mm/inches



Wiring Diagram

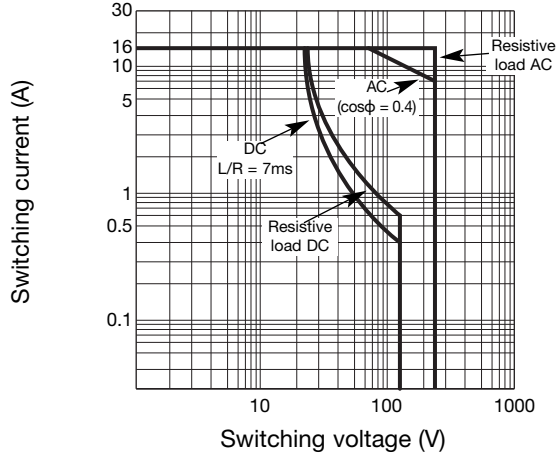


Dimensions mm/inches



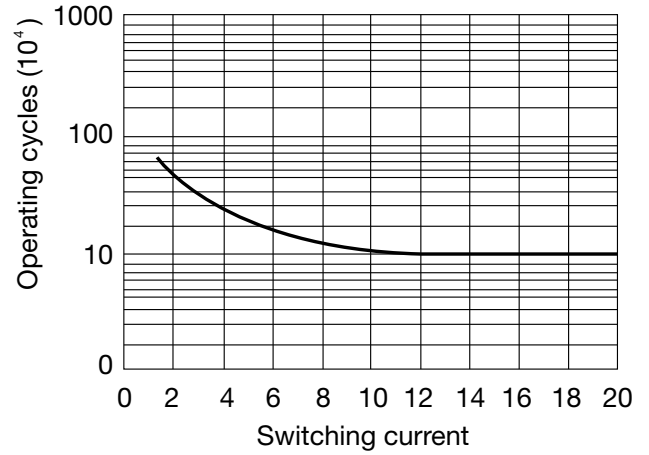
Diagrams

Max. switching current

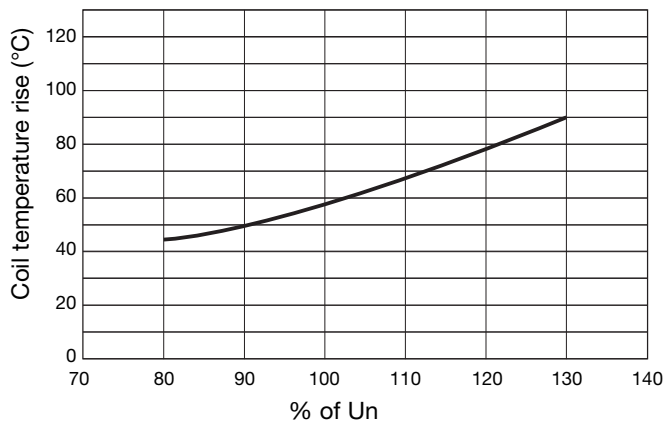


Electrical Life

250VAC Resistance load



Temperature curve of coil



Bases and Sockets

DIN rail sockets code are **ZPY8A** and **ZPY08C** details and specifications on pages 63 and 66 of industrial relays catalogue.
 PCB sockets code is **ZY08** details and specifications on page 67 of industrial relays catalogue.

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