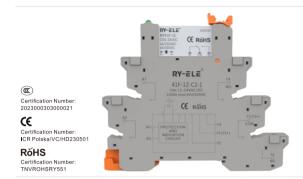
Please note that please be sure to understand the precautions before ordering.



Characteristics

- 6A load switching capability
- A set of contact conversion forms
- Withstands 80A inrush current
- The space distance is greater than 8mm, and the creepage distance is greater than 8mm
- The mechanical life is more than 10 million times
- Long life type is optional
- Meet the use of sockets

Order specifications

Order number	RY41F-1C/DC24 RY41F-1C/DC60
Packing Units	100 pcs
Minimum order quantity	100 pcs
Unit weight (including packaging)	1
Unit weight (without packaging)	about5.0 g
Origin	WZ

Example of an order mark

- ①RY:Enterprise code ② Relay series
- ③ Contact Type: 1A= 1 set of normally open type; 1C=1 group of conversion type
- ⑤Contact Material:T=AgNi None=AgSnO2
- ©Contact Plating: G=Gold Plating
 None = No plating
- ② Characteristic code: XXX=customer-specific characteristic code e.g. Ex:(FLT)=Bending 90° of the pin, horizontally mounted
- ® Coil voltage: Refer to the coil parameter table

Note:

- 1. When ordering, refer to the coil specification table for relay voltage selection;
- 2. The special requirements of customers will be identified in the form of characteristic numbers after being reviewed by our technical department.

Contact parameters

Contact form	1NO1NC			
Contact Resistance(1)	≤100mΩ (at 6VDC 1A)			
Contact material	AgSnO2			
Contact load	6A 277VAC/30VDC			
Maximum switching voltage	277VAC/30VDC			
Maximum switching current	6A			
Maximum switching power	1662VA/180W			
Mechanical durability	≥ 10 million times			
	NO:6A 250VAC,R-load,60000cycles min			
Electrical Life(2) On-off time: 1s on/9s off, room temperature	NO:6A 24VDC,R-load,100000cycles min			
	NC:6A 250VAC,R-load,30000cycles min			
	NC:6A 24VDC,R-load,30000cycles min			

Performance parameters

Insulation resistance	≥1000MΩ(500VDC)
The medium is pressure-resistant	Between heteropolar contacts 1000VAC 1min
	Between the contact and the coil 5000VAC 1min
Action time	≤10ms
Release time	≤5ms
Coil temperature rise	≤85K
Impulse voltage	Waveform: 1.2/50us 4000V
Shock resistance	Frequency 10Hz-55Hz, double amplitude 1mm
Humidity	5~85%RH
Temperature	-40°C ~ +80°C
Lead-out form	Plug-in / PCB mount type
Encapsulation	Solder mask or plastic type

Note

1. The above values are initial.

Contact Parameters (DC Specification: 0.4W)

2	3	0	C.
_	v		$\overline{}$

Rated voltage VDC	5	9	12	24	48	60
Operating voltage(1) VDC		80%Max.				
Release voltage VDC		5%Min.				
The allowable voltage range of the coil VDC		95-120%				
Coil resistance($\pm 10\%$) Ω	62.5	202	360	1440	5760	9000

Note:

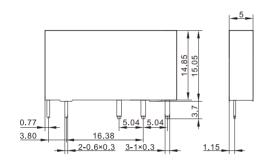
1. The above values are initial;

2. The maximum voltage refers to the maximum voltage that the relay coil can withstand in a short period of time; 3 For products with a rated voltage of > 48V, in order to protect the coil from damage, in the test and application, there must be measures to suppress the overvoltage generated by the coil (such as: parallel diode in the coil, etc.); (4) If the operating voltage needs to <70% of the rated voltage, it can be special order.

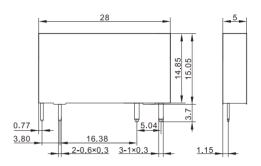
Exterior Dimension Drawing

Unit:mm

Vertical mounting type with pins

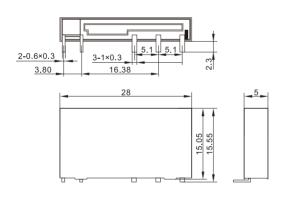


1 set of conversion type

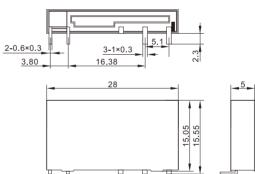


1 set of normally open type

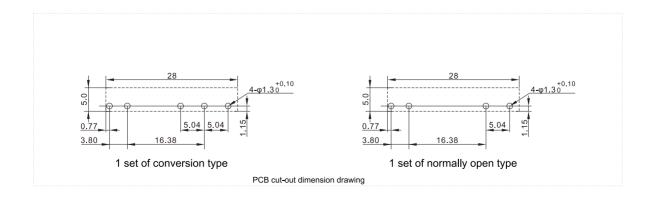
Lead-out pin horizontal mounting type



1 set of conversion type



1 set of normally open type



Wiring diagram





1 set of conversion type

1 set of normally open type

Note:

- 1. When the overall size is ≤ 1 mm, the tolerance is ± 0.2 mm, and when the overall size is between (1~5)mm, the tolerance is ± 0.3 mm; When the overall size >5 mm, the tolerance is ± 0.4 mm;
- 2. The size tolerance of the mounting hole is ±0.1mm;
- 3. DC with freewheeling diode products need to confirm the positive and negative electrodes before wiring.

Matching base



特性

- \bullet The withstand voltage of the medium can reach 4000VAC, and the insulation resistance is $1000M\Omega$
- With finger protection function
- With relay puller, lock and prevent falling off, easy to replace
- Built-in protection circuit to achieve power-on indication, line protection, and extended relay transmission input voltage range and other functions
- Low power consumption and easy to use

Order specifications

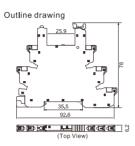
Model	Rated voltage	Curren rating	Ambient temperature	Input voltage	Coil voltage	Screw torque	External wires	Weight
41F-1Z-C2-1	250VAC	6A	-35°C~70°C	(6-24)V AC/DC	(6-24)VDC	0.8-1.0N.m	7mm	约29g
41F-1Z-C2-2	250VAC	6A	-35°C~70°C	(48-60)V AC/DC	(48-60)VDC	0.8-1.0N.m	7mm	约29g
41F-1Z-C2-3	250VAC	6A	-35°C~70°C	(110-125)V AC/DC	60VDC	0.8-1.0N.m	7mm	约29g
41F-1Z-C2-4	250VAC	6A	-35°C~70°C	(220-240)V AC/DC	60VDC	0.8-1.0N.m	7mm	约29g
41F-1Z-C2-5	250VAC	6A	-35°C~70°C	(5)V AC/DC	60VDC	0.8-1.0N.m	7mm	约29g
41F-1Z-C4-1	250VAC	6A	-35°C~70°C	(6-24)V AC/DC	(6-24)VDC	-	7mm	约27g
41F-1Z-C4-2	250VAC	6A	-35°C~70°C	(48-60)V AC/DC	(48-60)VDC	-	7mm	约27g
41F-1Z-C4-3	250VAC	6A	-35°C~70°C	(110-125)V AC/DC	60VDC	-	7mm	约27g
41F-1Z-C4-4	250VAC	6A	-35°C~70°C	(220-240)V AC/DC	60VDC	-	7mm	约27g
41F-1Z-C4-5	250VAC	6A	-35°C~70°C	(5)V AC/DC	60VDC	-	7mm	约27g
41F-1Z-C2N-1	250VAC	6A	-35°C~70°C	(6-24)V AC/DC	(6-24)VDC	0.8-1.0N.m	7mm	约27g
41F-1Z-C2N-2	250VAC	6A	-35°C~70°C	(48-60)V AC/DC	(48-60)VDC	0.8-1.0N.m	7mm	约27g
41F-1Z-C2N-3	250VAC	6A	-35°C~70°C	(110-125)V AC/DC	60VDC	0.8-1.0N.m	7mm	约27g
41F-1Z-C2N-4	250VAC	6A	-35°C~70°C	(220-240)V AC/DC	60VDC	0.8-1.0N.m	7mm	约27g
41F-1Z-C2N-5	250VAC	6A	-35°C~70°C	(5)V AC/DC	60VDC	0.8-1.0N.m	7mm	约27g
41F-1Z-A	250VAC	6A	-35°C~70°C	-	-	-	-	约5g
41F-1Z-A1	250VAC	6A	-35°C~70°C	-	-	-	-	约5g
41F-1Z-A2	250VAC	6A	-35°C~70°C	-	-	-	-	约3g

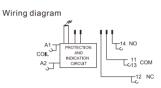
Matching base

41F-1Z-C2-1/2/3/4/5-Screw wiring



Screw connection, grey base, with connector strip 41F-H/HR/HB, marking plate 41F-M/M1





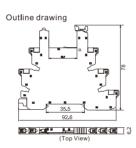
1 Maximum current carrying capacity: 6 A

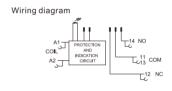
41F-1Z-C2-1/2/3/4/5-Screw wiring



Screw connection, black base, cwith connector strip 41F-H/HR/HB, marker plate 41F-M/M1

Screw connection, blue base, with connector strip 41F-H/HR/HB,





1 Maximum current carrying capacity: 6 A

41F-1Z-C2-1/2/3/4/5-Screw wiring



marker plate 41F-M/M1

Outline drawing

(Top View)

Wiring diagram [_{С13} сом

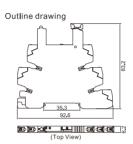
1 Maximum current carrying capacity: 6 A

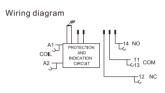
Matching base

41F-1Z-C4-1/2/3/4/5-Push-in wiring



Push-in cable, grey base, with connector strip 41F-H1/H1R/H1B, marker plate 41F-M/M1 $\,$



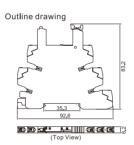


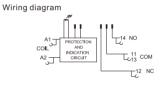
① Maximum current carrying capacity: 6 A

41F-1Z-C4-1/2/3/4/5-Push-in wiring



Push-in cable, black base, with connector strip 41F-H1/H1R/H1B, marker plate 41F-M/M1



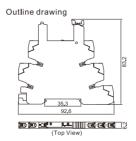


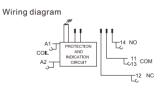
Maximum current carrying capacity: 6 A

41F-1Z-C4-1/2/3/4/5-Push-in wiring



Push-in cable, green base, with connector strip 41F-H1/H1R/H1B, marker plate 41F-M/M1





1 Maximum current carrying capacity: 6 A

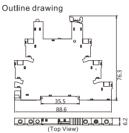
Matching base

41F-1Z-C2N-1/2/3/4/5

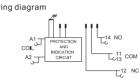


Wiring diagram

Screw connection, grey base, with connector strip 41F-H/HR/HB,



marking plate 41F-M/M1

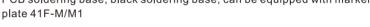


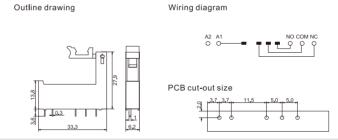
1 Maximum current carrying capacity: 6 A

41F-1Z-A-PCB board soldering

PCB soldering base, black soldering base, can be equipped with marker







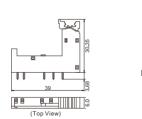
1 Maximum current carrying capacity: 6 A

41F-1Z-A1-PCB board soldering

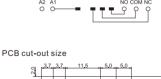
PCB board soldering base, beige soldering footholder, can be equipped with marker plate 41F-M/M1

Wiring diagram





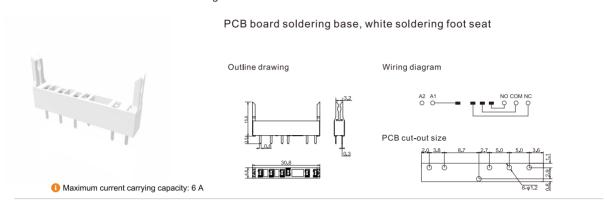
Outline drawing



1 Maximum current carrying capacity: 6 A

Matching base

41F-1Z-A2-PCB board soldering



Optional accessories

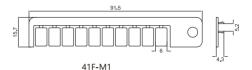
41F-M/M1-Marker signs



10-digit marker plate, which can be cut and used to mark the line

Outline drawing





41F-H-20-position plug-in connecting strip

20-position plug-in strip, length 123mm, color: blue

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Outline drawing

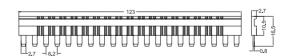
Outline drawing



41F-HR-20-position plug-in connecting strip

20-position plug-in strip, length 123mm, color: red





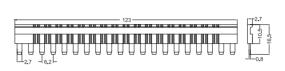
Optional accessories

41F-HB-20-position plug-in connecting strip

20-position plug-in strip, length 123mm, color: black

Outline drawing





41F-H1-20-position plug-in connecting strip

20-position plug-in strip, length 123mm, color: blue

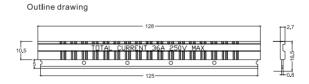




41F-H1R-20-position plug-in connecting strip

20-position plug-in strip, length 123mm, color: red





Optional accessories

41F-H1B-20-position plug-in connecting strip

20-position plug-in strip, length 123mm, color: black



