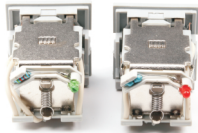


## Selection manual of industrial control relay

### RUB

General Purpose Relay

- 2 poles, 3 poles contact load 10A
- With non-polarity LED integrated in relay
- With lockable test button and inspection window
- Identification of coils through test button color (AC red/DC blue)
- Conformity with RoHs Directive



#### Metal clip

The relay is firmly attached to the socket by Metal clip.

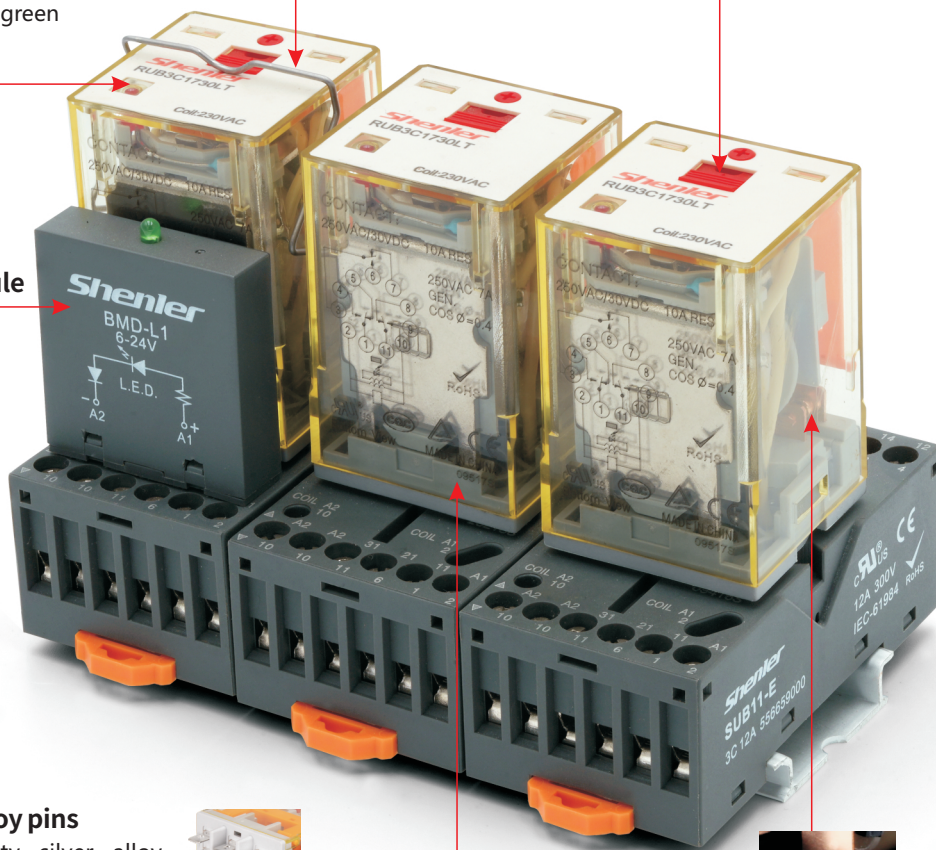
#### LED

Visible LED indicates the working status of the relay at any time, AC red, DC green

#### Test button

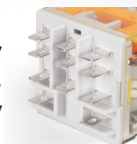
On-site test is available with test button.

#### BMD module



#### Silver alloy pins

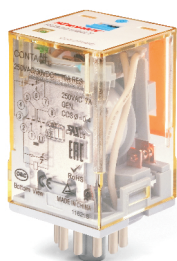
High-quality silver alloy pins, strong contact, instantaneous conductivity and stable performance.



#### Silver alloy contacts

It can carry more current, with stronger conductivity and more sensitive response, and greatly extend electrical life, and works more stable.





Relay

+



Socket

=



Relay module

RUB □ □ □ □

## Other options

LT: LED + test button

LTD: LED + test button + diode

RUB2C1 (2-,7+); RUB2C2 (1-,8+); RUB3C1 (2-,10+);

RUB3C5 (2-10+); RUB3C2 (1-,11+)

LTD1: LED + Test button + diode

RUB2C1 (2+,7-); RUB2C2 (1+,8-); RUB3C1 (2+,10-);

RUB3C5 (2+,10-); RUB3C2 (1+,11-)

## Coil voltage code

Code	006	012	024	048	110	220	
Voltage (V DC)	6	12	24	48	110	220	
Code	506	512	524	536	548	615	730
Voltage (V AC)	6	12	24	36	48	115	230

## Wiring type

1: 1

2: 2-1

5: 5-1 (3C only)

## Contact form

2C: 2CO

3C: 3CO

## Series name

## Characteristics

Contact	Configuration	2C,3C
	Rated current / Rated voltage	10A/250VAC 30VDC (resistive RES); 7A/250VAC 30VDC (perceptual GEN)
	Max. switching capacity (resistive)	2500VA, 300W
	Initial contact resistance	≤50mΩ
	Material	Ag alloy
	Electrical durability	≥10 <sup>5</sup> Cycles(1800 Ops/h)
	Mechanical durability	≥2000 x 10 <sup>4</sup> Cycles (18000 Ops/h)
	Pick-up voltage (23°C) (Rated voltage)	≤80%
	Drop-out voltage (23°C) (Rated voltage)	DC:≥10%, AC:≥30% 50/60Hz
	Maximum voltage (23°C) (Rated voltage)	110%
	Insulation resistance	≥100MΩ (500VDC)
	Coil operating power	DC(W) approx. 1.5 AC(VA) approx. 2.7
	Operate time	≤30ms
	Release time (at nominal voltage)	≤20ms
	Initial breakdown voltage	Between open contacts 1000VAC/1min (leakage current 1mA) Between poles 2500VAC/1min (leakage current 1mA) Between contacts and coil 2500VAC/1min (leakage current 1mA)
Insulation characteristics	Rated voltage	250VAC
	Pollution level	3
	IEC 60664 UL840 Overvoltage level	III
Impulse withstand voltage (waveform: 1.2/50μs)		4000V
Protection level		IP20
Storage temperature/ humidity		-55~+85°C/ ≤85%RH (18 months)
Working temperature/ humidity		-10~+55°C/ 5%~85%RH (No condensation)

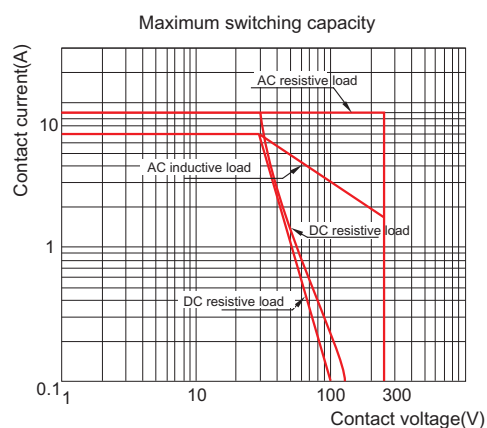
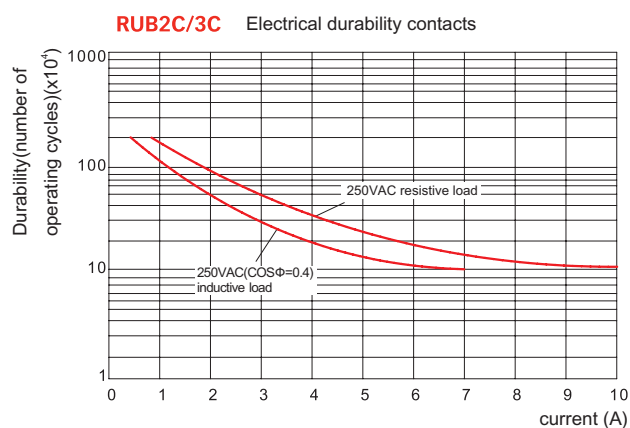
Air pressure	86~106KPa
Shock resistance	10G (half-sine shock pulse: 11ms)
Vibration resistance	10~55Hz double-amplitude: 1.5mm
Mounting	plug in
Unit weight	approx. 85g

### Coil Specifications (23°C)

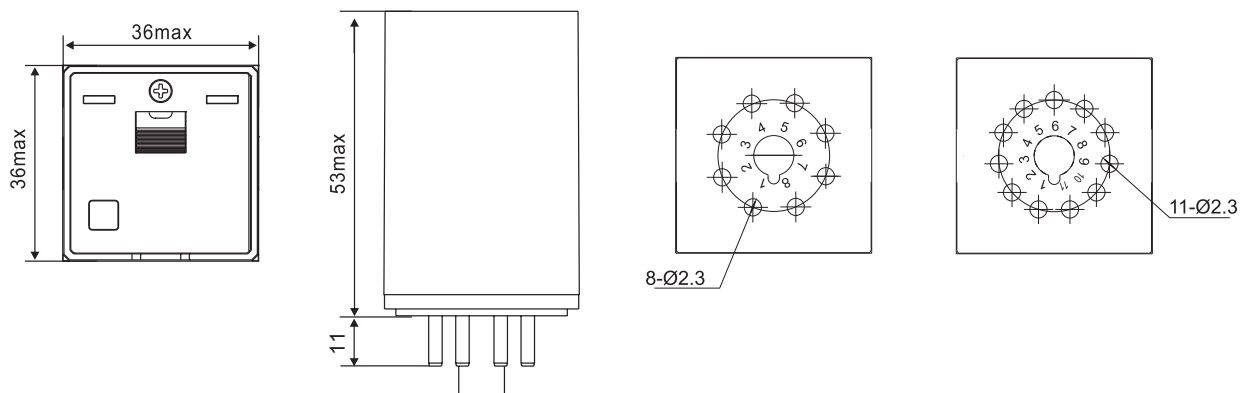
Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance $\Omega$	23.7	96	430	1640	7360	29500	
Nominal voltage V.AC	6	12	24	36	48	115	230
Coil resistance $\Omega$	3.9	17	62.5	144	305	1250	5900

Coil resistance: under coil voltage 110V are measured with tolerance of  $\pm 10\% \Omega$ , above 110V with tolerance of  $\pm 15\% \Omega$ .

### Contact Specification

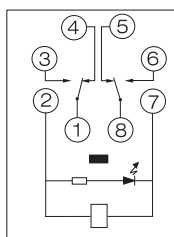


Dimensions (mm)



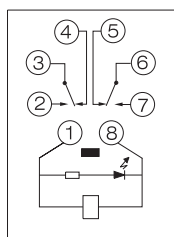
Wiring Diagrams

**RUB2C1**



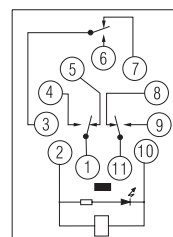
⑦ ② : A1, A2  
① ⑧ : COM  
③ ⑥ : NO  
④ ⑤ : NC

**RUB2C2**



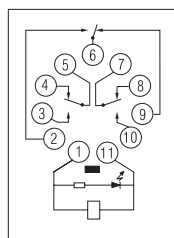
⑧ ① : A1, A2  
③ ⑥ : COM  
② ⑦ : NO  
④ ⑤ : NC

**RUB3C1**



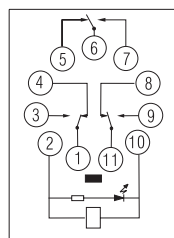
⑩ ② : A1, A2  
① ③ ⑪ : COM  
④ ⑥ ⑨ : NO  
⑤ ⑦ ⑧ : NC

**RUB3C2**



⑪ ① : A1, A2  
⑤ ⑥ ⑦ : COM  
② ③ ⑩ : NO  
④ ⑧ ⑨ : NC

**RUB3C5**



⑩ ② : A1, A2  
① ⑥ ⑪ : COM  
③ ⑦ ⑨ : NO  
④ ⑤ ⑧ : NC



Characteristics



SUB08-E






SUB11-E

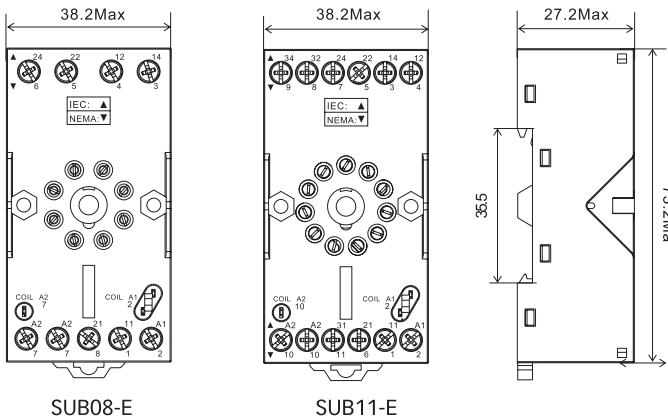


Type			SUB08-E	SUB11-E
Nominal load	Current	A	12	
	Voltage	V	300	
Dielectric strength		V/min	2500	
Max. tightening torque		Nm	1.0	
Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.5	
Ambient temperature		°C	-40~+85	
Unit weight		g	50	55

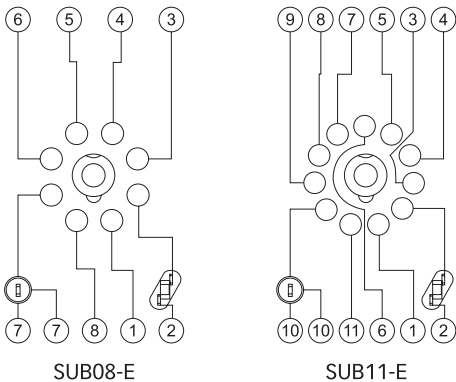
Accessories

Socket	Metal clip	ID tag	Module
SUB08-E	 SU60M	 SU3P	 BMD
SUB11-E			

Dimensions (mm)



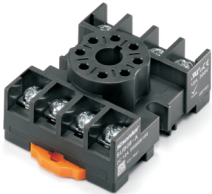
Connection Diagrams



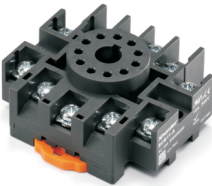
**Characteristics**



**SUB08-A**

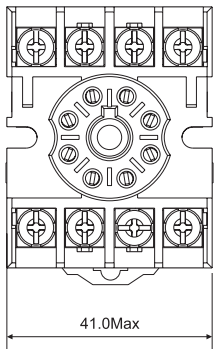


**SUB11-A**

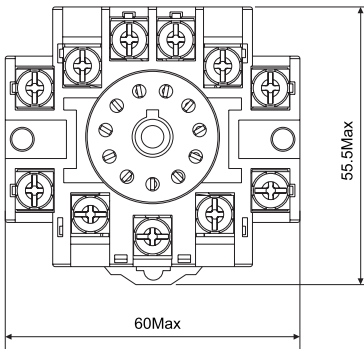


Type			SUB08-A	SUB11-A
Nominal load	Current	A	12	10
	Voltage	V	300	
Dielectric strength		V/min	2500	
Max. tightening torque		Nm	1.0	
Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.5	
Ambient temperature		°C	-40~+85	
Unit weight		g	37	50

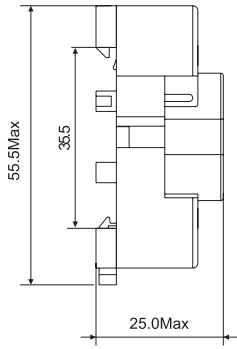
**Dimensions (mm)**



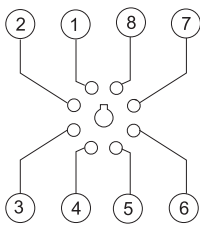
SUB08-A



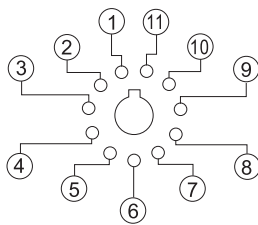
SUB11-A



**Connection Diagrams**



SUB08-A



SUB11-A