

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



LED

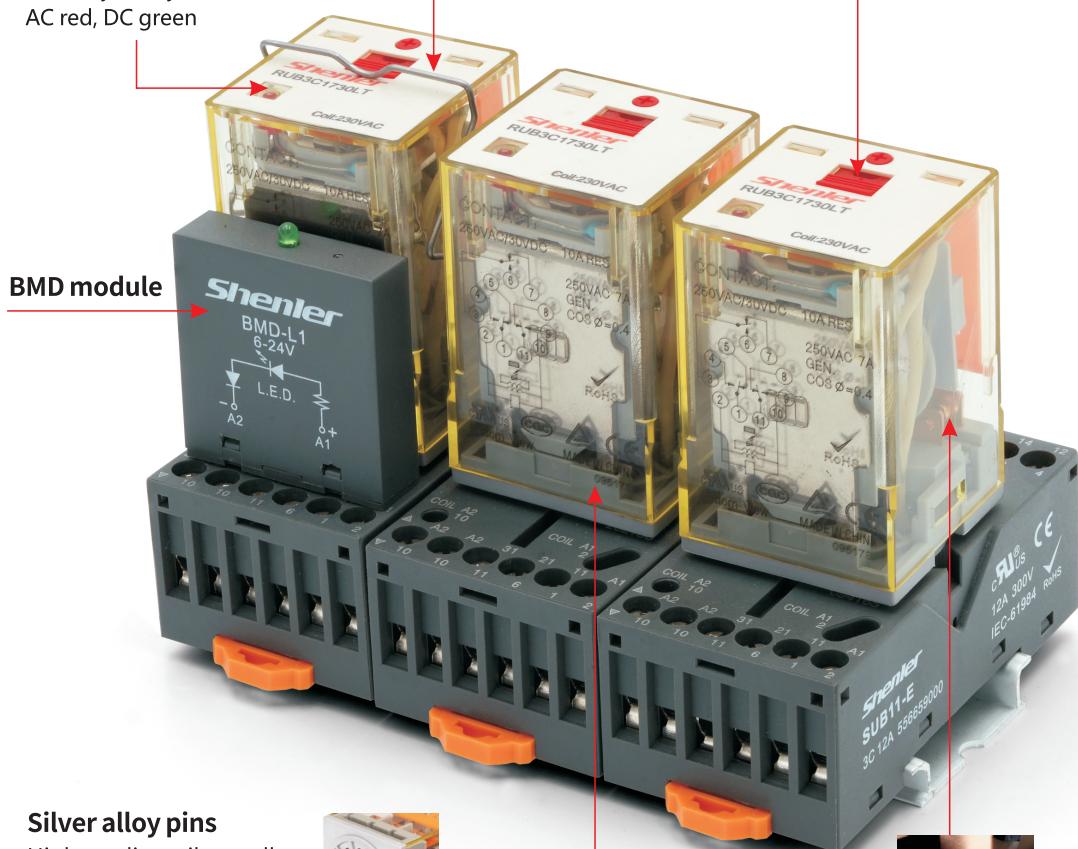
Visible LED indicates the working status of the relay at any time, AC red, DC green

Metal clip

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

Test button

On-site test is available with test button.



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.



Selection manual of industrial control relay

RUB

General Purpose
Relay



Relay

+

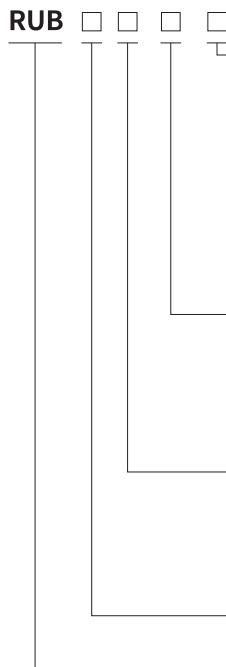


Socket

=



Relay module



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

Socket	Configuration	2C,3C
	Rated current / Rated voltage	10A/250VAC 30VDC (resistive RES); 7A/250VAC 30VDC (inductive GEN)
Contact	Max. switching capacity (resistive)	2500VA, 300W
	Initial contact resistance	$\leq 50m\Omega$
	Material	Ag alloy
	Electrical durability	$\geq 10^5$ Cycles(1800 Ops/h)
	Mechanical durability	$\geq 2000 \times 10^4$ Cycles (18000 Ops/h)
	Pick-up voltage (23°C) (Rated voltage)	$\leq 80\%$
	Drop-out voltage (23°C) (Rated voltage)	DC: $\geq 10\%$, AC: $\geq 30\%$ 50/60Hz
	Maximum voltage (23°C) (Rated voltage)	110%
	Insulation resistance	$\geq 100M\Omega$ (500VDC)
	Coil operating power DC(W)	approx. 1.5
	AC(VA)	approx. 2.7(60Hz)
	Operate time	$\leq 30ms$
	Release time (at nominal voltage)	$\leq 20ms$
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(Altitude 2000m)
	Protection level	IP20
	Storage temperature/ humidity	-55~+85°C/ ≤85%RH (18 months)
	Working temperature/ humidity	-10~+55°C/ 5%~85%RH (No condensation)

Selection manual of industrial control relay

RUB

General Purpose
Relay

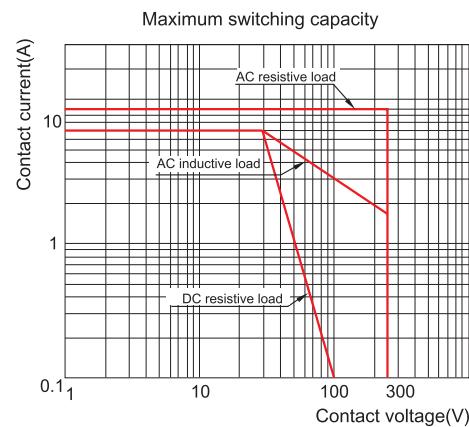
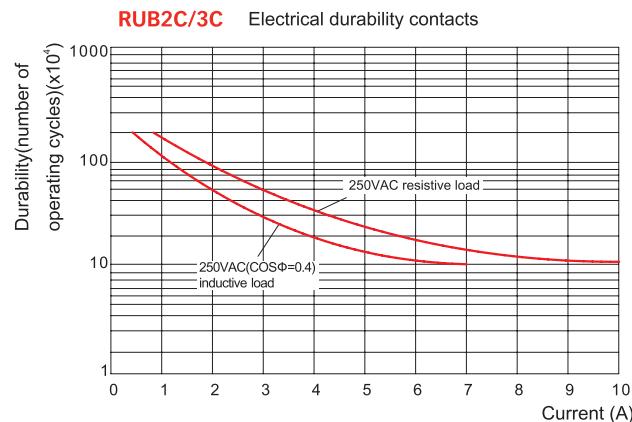
Air pressure	86~106KPa					
Shock resistance	10G (half-sine shock pulse: 11ms)					
Vibration resistance	10~55Hz double-amplitude:1.5mm					
Mounting	plug in					
Unit weight	approx. 85g					

Coil Specifications (23°C)

Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	23.7	96	430	1640	7360	29500	
Nominal voltage V.AC	6	12	24	36	48	115	230
Coil resistance Ω	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 $\pm 15\%\Omega$.

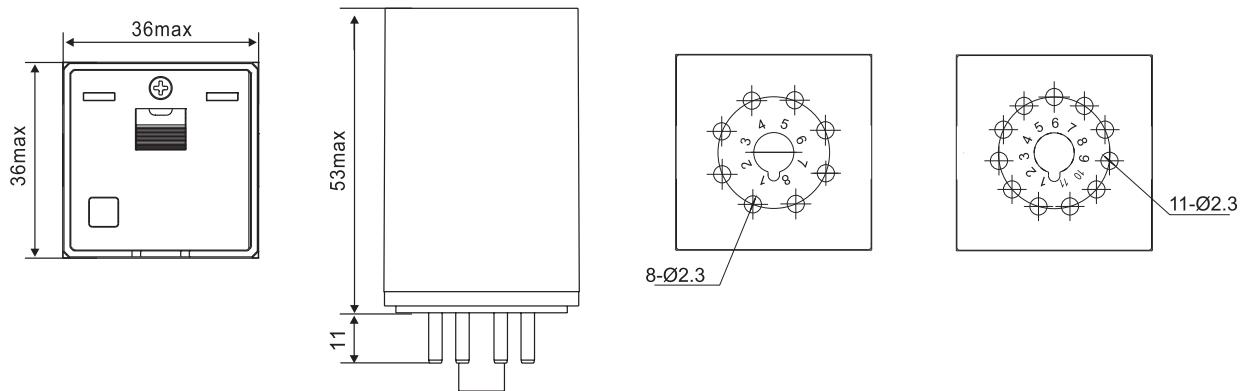
Contact Specification



Selection manual of industrial control relay

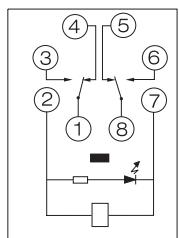
RUB General Purpose Relay

Dimensions (mm)



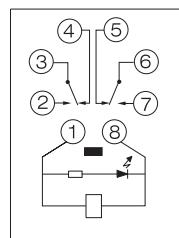
Wiring Diagrams

RUB2C1



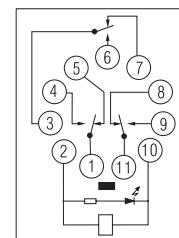
⑦② : A1, A2
①⑧ : COM
③⑥ : NO
④⑤ : NC

RUB2C2



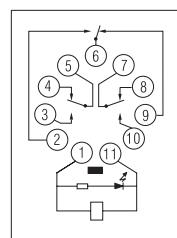
⑧① : A1, A2
③⑥ : COM
②⑦ : NO
④⑤ : NC

RUB3C1



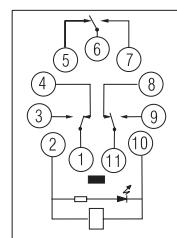
⑩② : A1, A2
①③⑪ : COM
④⑥⑨ : NO
⑤⑦⑧ : NC

RUB3C2



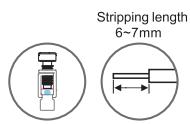
⑪① : A1, A2
⑤⑥⑦ : COM
②③⑩ : NO
④⑧⑨ : NC

RUB3C5



⑩② : A1, A2
①⑥⑪ : COM
③⑦⑨ : NO
④⑤⑧ : NC

Characteristics



SUB08-E



SUB11-E

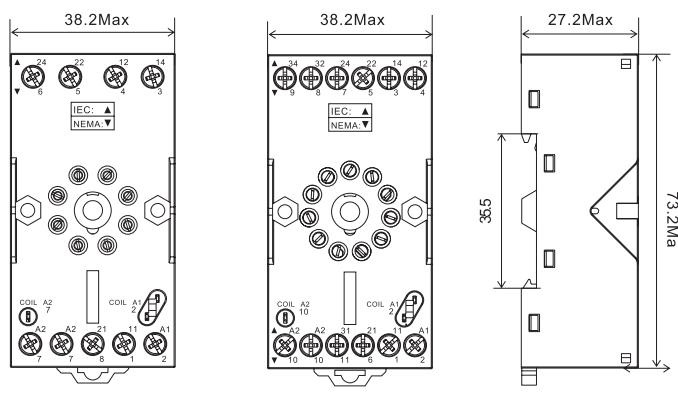


Type	SUB08-E	SUB11-E	
Nominal load	A	12	
Voltage	V	300	
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque	Nm	1.0	
Wire size	AWG/mm ²	20-14/0.5-2.5	
Ambient temperature	°C	-40~+85	
Unit weight	g	50 55	

Accessories

Socket	Metal clip	ID tag	Module
SUB08-E			
SUB11-E			

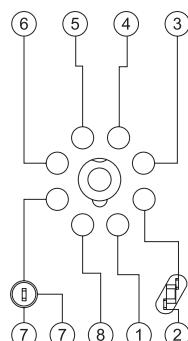
Dimensions (mm)



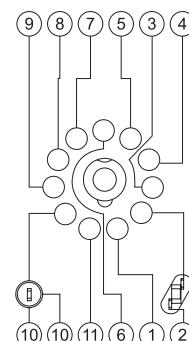
SUB08-E

SUB11-E

Connection Diagrams



SUB08-E



SUB11-E

Characteristics

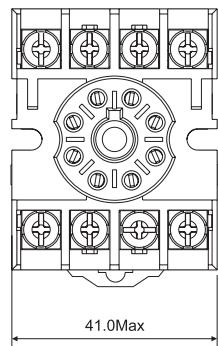


SUB08-A

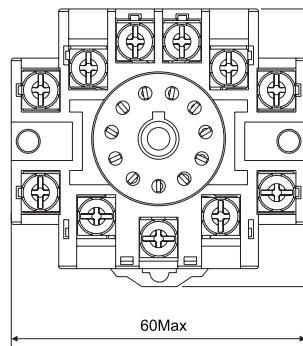


Type		SUB08-A	SUB11-A
Nominal load	Current	A	12
	Voltage	V	300
Dielectric strength	V/min	2500	
Max. tightening torque	Nm	1.0	
Wire size	AWG/mm ²	20-14/0.5-2.5	
Ambient temperature	°C	-40~+85	
Unit weight	g	37	50

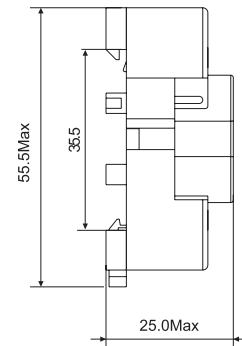
Dimensions (mm)



SUB08-A

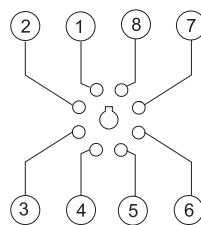


SUB11-A

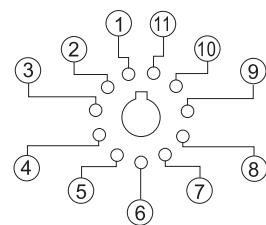


25.0Max

Connection Diagrams



SUB08-A



SUB11-A