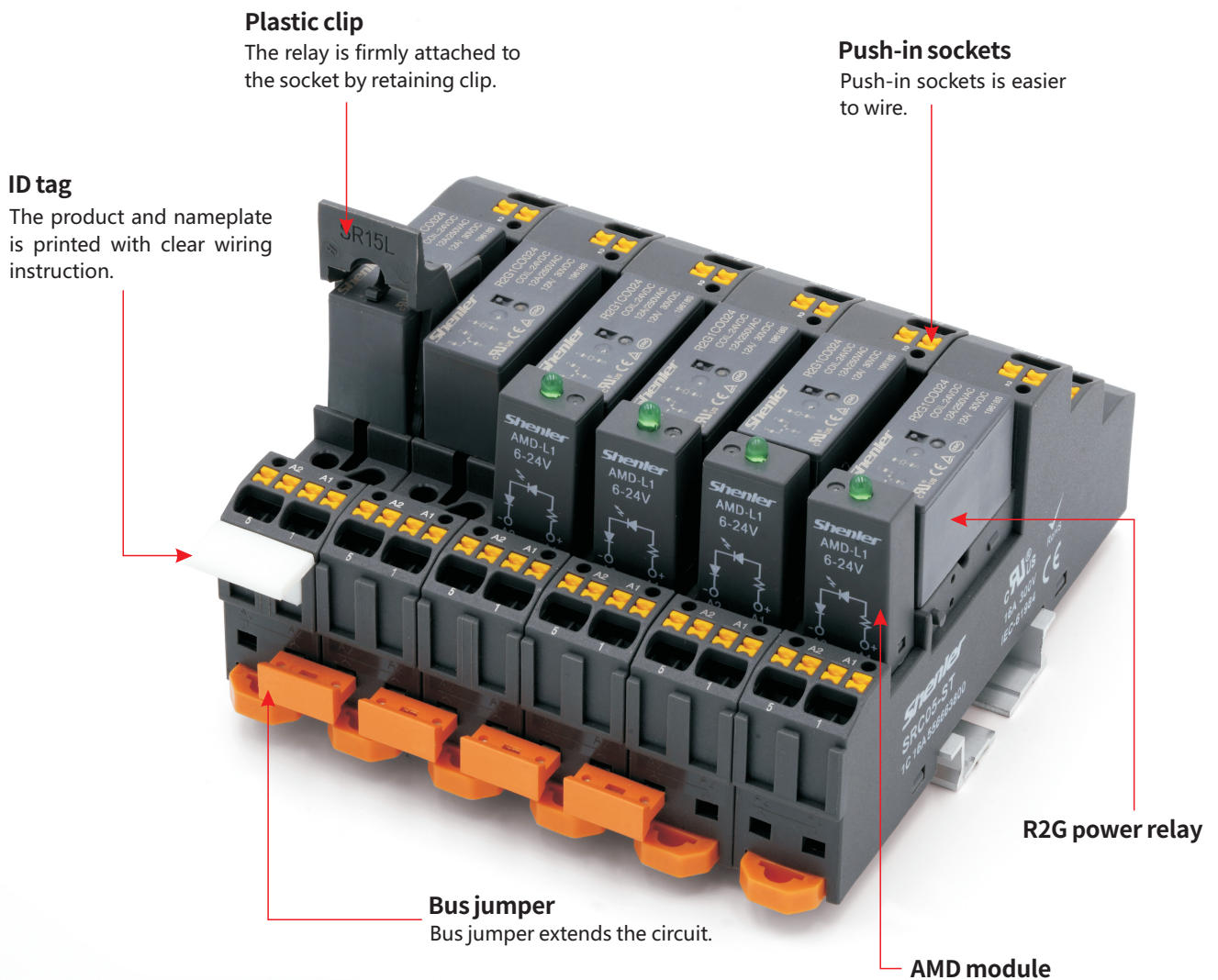
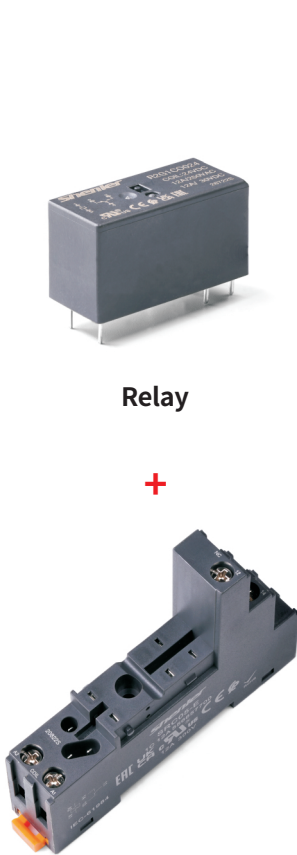


Selection manual of industrial control relay

R2G
Power Relay

- Available for 1 and 2 poles, a variety of high capacity models
- High sensitive of consumed power 400mW
- With up to 8mm of insulation distance between coil and contacts
- High insulation with 10kv of shock resistant voltage
- Meet with the ambient temperature 85°C





Relay

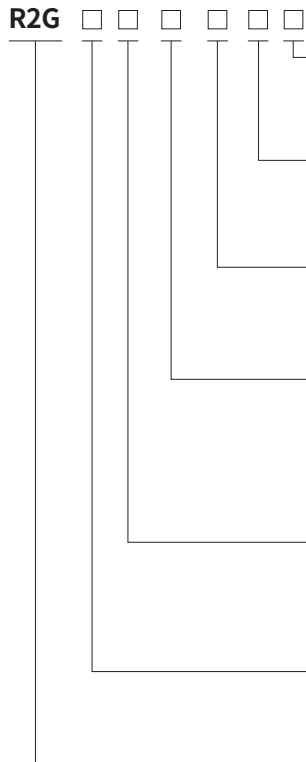
+

Socket

=



Relay module



Encapsulation Way

Blank: Sealed
S: Flux proof

Coil Consumption

Blank: Standard (400mW)
T: Sensitive (250mW)

Material Level

Blank: B class
F: F class

Coil voltage code

Code	005	006	009	012	048	060	110
Voltage (V DC)	6	6	9	12	48	60	110
Code	524	615	730				
Voltage (V AC)	24	115	230				

Terminal arrangement

O: 3.5mm contact pin pitch 1 pole 12A
U: 5.0mm contact pin pitch 1 pole 12A
H: 5.0mm contact pin pitch 1 pole 16A, 2 poles 8A

Contact form

1, 2 (A: NO, B: NC, C: CO)

Series name

Characteristics

		1C/1A	2C/2A	
Contact	Configuration	1C/1A	2C/2A	
	Load	Resistive load (AC-1)	12A, 16A/250VAC, 30VDC	8A/250VAC, 30VDC
		Motor load (AC-15)	1/2HP, 240VAC; 3/4HP, 120VAC	1/3HP, 240VAC, 1/4HP, 120VAC
	Max. switching capacity (resistive)	3000VA, 360W; 4000VA, 480W	2000VA, 240W	
	Min. switching capacity	170mW (17V/10mA)		
	Initial contact resistance	≤100mΩ		
	Material	Ag alloy		
	Electrical durability (110% rated voltage, 85°C)	3.5mm: 1NO 12A; 1NC 6A ≥10 ⁵ Cycles (85°C)	5.0mm: 2NO 8A; 2NC 4A ≥10 ⁵ Cycles (85°C)	
		5.0mm: 1NO 16A; 1NC 8A ≥10 ⁵ Cycles (85°C)	-	
	Electrical Durability (Normal temperature)	3.5mm: 1NO 12A; 1NC 12A ≥5x10 ⁵ Cycles (23°C)	5.0mm: 2NO 8A; 2NC 8A ≥5x10 ⁵ Cycles (23°C)	
5.0mm: 1NO 16A; 1NC 16A ≥3x10 ⁵ Cycles (23°C)		-		
Mechanical durability	Dc ≥5000x10 ⁴ Cycles (18000 Ops/h); Ac ≥3000x10 ⁴ Cycles (18000 Ops/h)			
Pick-up voltage (23°C) (Rated voltage)	DC ≤70%			
Drop-out voltage (23°C) (Rated voltage)	DC ≥10%			
Maximum voltage (23°C) (Rated voltage)	130%			
Insulation resistance	≥1000MΩ (500VDC)			
Coil operating power	DC(W)	approx. 0.43		
	AC(VA)	approx. 1		
Operate time	≤10ms			
Release time (at nominal voltage)	≤5ms			
Initial breakdown voltage	Between open contacts	1000VAC/1min (leakage current 1mA)	1000VAC/1min (leakage current 1mA)	
	Between poles	-	2500VAC/1min (leakage current 1mA)	
	Between contacts and coil	5000VAC/1min (leakage current 1mA)	5000VAC/1min (leakage current 1mA)	
Insulation characteristics	Rated voltage	250VAC		
	Pollution level	3		
IEC 60664 UL840	Overvoltage level	III		

Protection level	IP20
Storage temperature/ humidity	-55~+85°C/ 5%~68%RH (18 months)
Working temperature/ humidity	-40~+85°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	PCB
Unit weight	approx. 13g

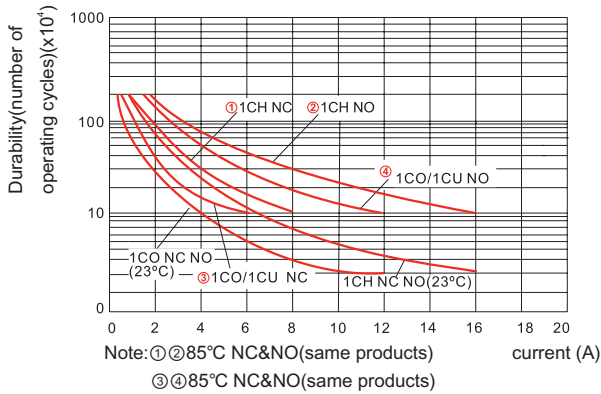
Coil Specifications (23°C)

Nominal voltage V.DC	5	6	9	12	24	48	60	110
Coil resistance Ω	62.5	90	200	360	1440	5220	8570	28800
Nominal voltage V.AC	24	115	230					
Coil resistance Ω	350	8100	23800					

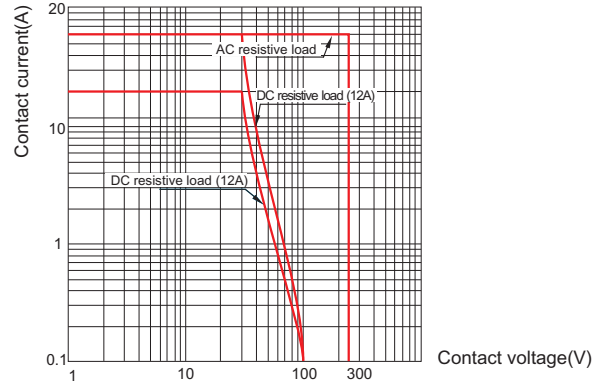
Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

Contact Specification

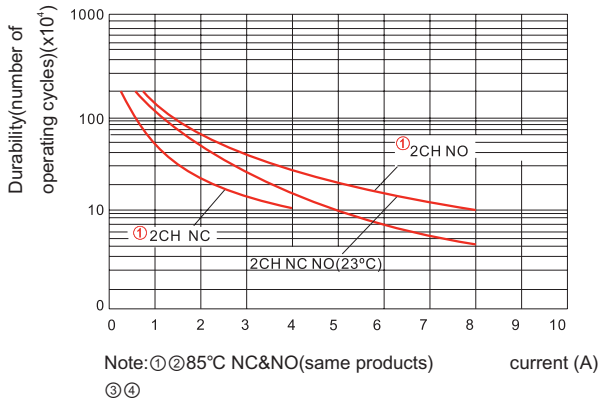
R2G-1 Electrical durability contacts



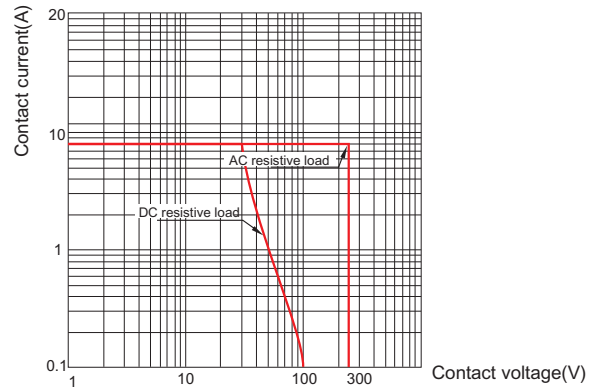
Maximum switching capacity



R2G-2 Electrical durability contacts

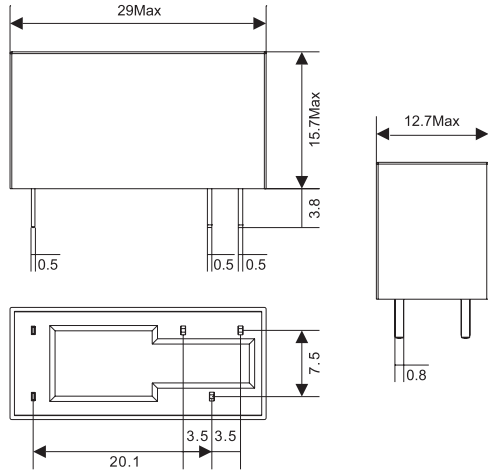


Maximum switching capacity

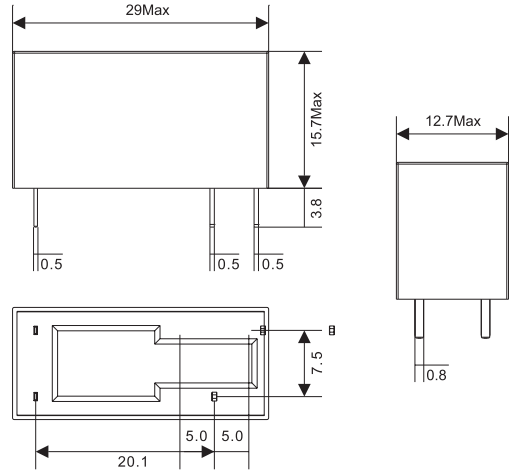


Dimensions (mm)

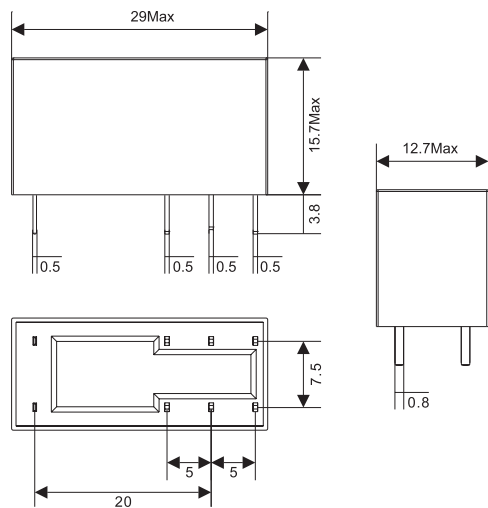
R2G1CO 3.5mm



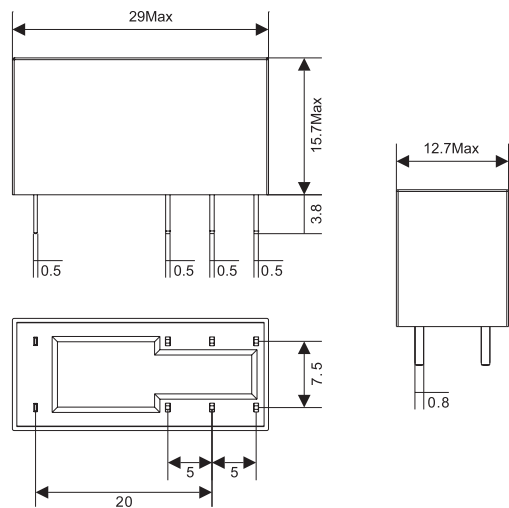
R2G1CU 5.0mm



R2G1CH 5.0mm



R2G2CH 5.0mm



Wiring Diagrams

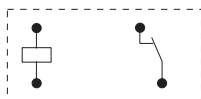
R2G1AO/1AU



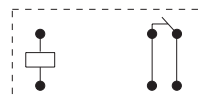
R2G1AH



R2G1BO/1BU



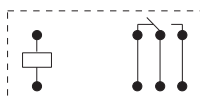
R2G1BH



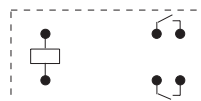
R2G1CO/1CU



R2G1CH



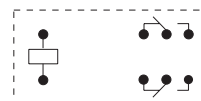
R2G2AH



R2G2BH



R2G2CH



Characteristics



SRC05-ST



SRC08-ST



Type		SRC05-ST	SRC08-ST
Nominal load	Current	A	16
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque	Nm	-	
Wire size	AWG/mm ²	20-14/0.5-2.5	
Ambient temperature	°C	-40~+85	
Unit weight	g	37	42

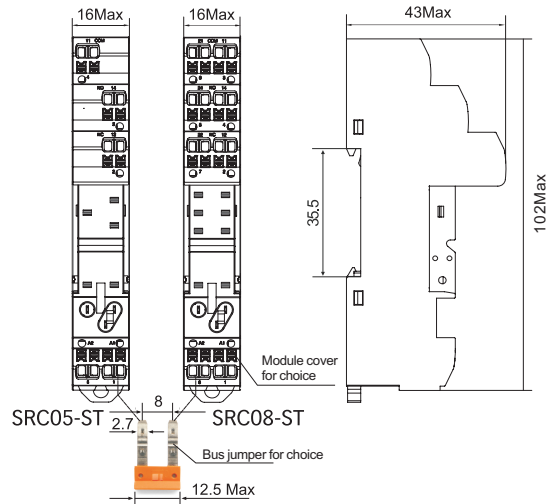
Accessories

Socket	ID tag	Bus Jumper	Module
SRC05-ST			
SRC08-ST	SR2P	ST01CC	AMD

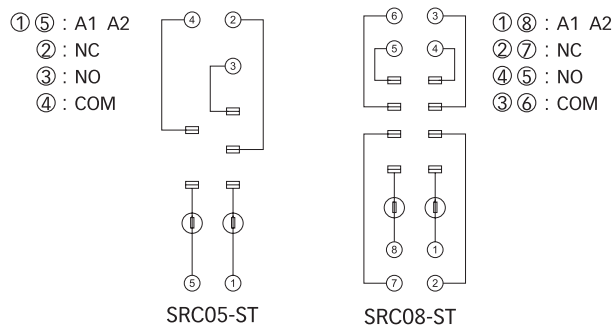
Clip selection table

Relay H (mm)	15	20	25
Clip Type			
	SR15L	SR20F	SR25C

Dimensions (mm)



Connection Diagrams



Characteristics



SRC05-E



SRC08-E



Type		SRC05-E	SRC08-E
Nominal load	Current	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	33	37

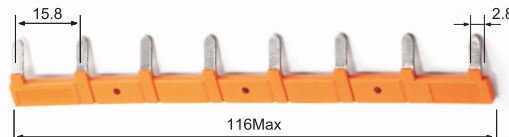
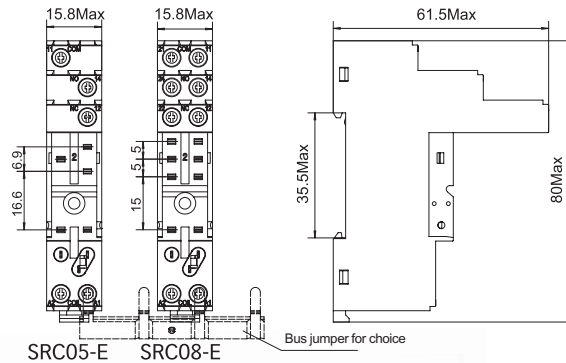
Accessories

Socket	ID tag	Bus Jumper	Module
SRC05-E			
SRC08-E	SR2P	SR08B	AMD

Clip selection table

Relay H (mm)	15	20	25
Clip Type			
	SR15L	SR20F	SR25C

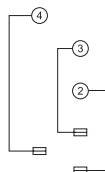
Dimensions (mm)



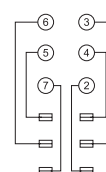
Bus jumper SR08B

Connection Diagrams

- ① ⑤ : A1 A2
- ② : NC
- ③ : NO
- ④ : COM



SRC05-E



SRC08-E

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

Characteristics



SRB05-E



SRB08-E






Type		SRB05-E	SRB08-E
Nominal load	Current	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	33	37

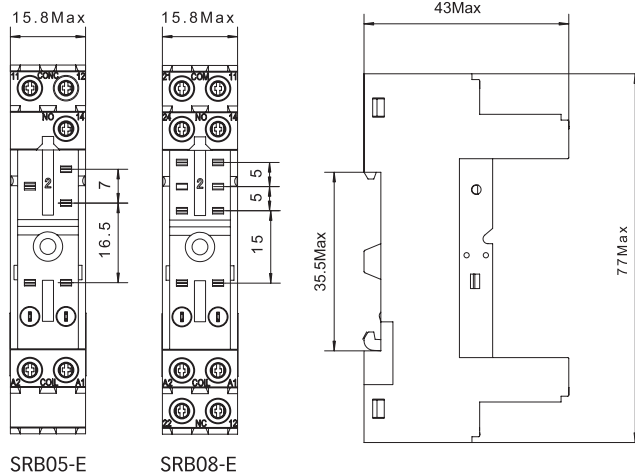
Accessories

Socket	ID tag	Module
SRB05-E	 SR2P	 AMD
SRB08-E		

Clip selection table

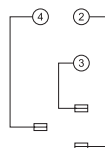
Relay H (mm)	15	20	25
Clip Type	 SR15L	 SR20F	 SR25C

Dimensions (mm)



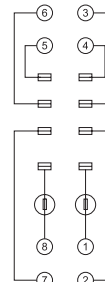
Connection Diagrams

- ① ⑤ : A1 A2
- ② : NC
- ③ : NO
- ④ : COM



SRB05-E

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



SRB08-E

Characteristics

SRC05-P





SRC08-P

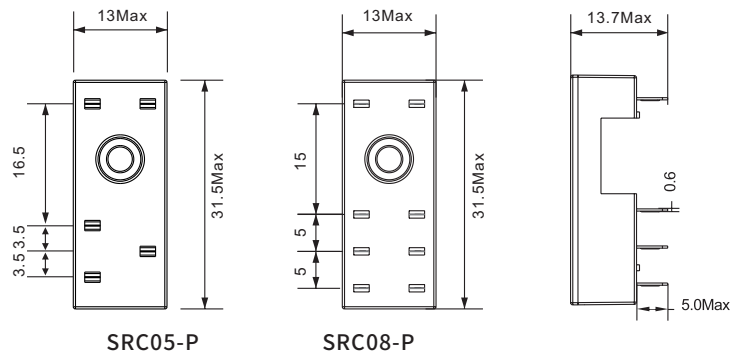


Type		SRC05-P	SRC08-P
Nominal load	Current	A	12
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque	Nm	-	
Wire size	AWG/mm ²	-	
Ambient temperature	°C	-40~+85	
Unit weight	g	10	10

Accessories

Socket	Metal clip
SRC05-P	 SR15M
SRC08-P	 SR1520M

Dimensions (mm)



Connection Diagrams

