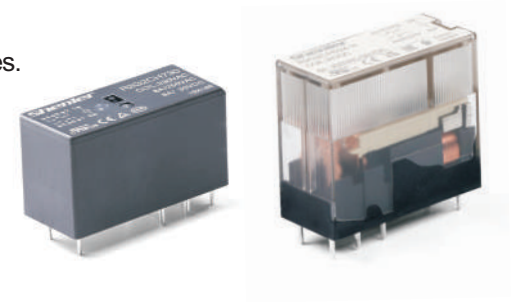
R2G
Power Relay

Shenler

- Available in a variety of models including 1-pole, 2-pole, and high-capacity types.
- Contact load: Max. 16A for 1-pole and 8A for 2-pole.
- Insulation distance between coil and contacts: 8mm or more.
- High insulation performance with 10kV impulse withstand voltage.
- Meets performance requirements for operating ambient temperature of 85°C.



Specifications

Output		
Contact arrangement	1C/1A	2C/2A
Rated current / voltage	12A/16A 250VAC	8A 250VAC
Switching voltage max.	400VAC/300VDC	
Rated breaking capacity	3000VA,360W;4000VA,480W	2000VA,240W
Contact material	Ag alloy	
Contact resistance(initial)	≤100mΩ	
Mechanical endurance (18000 Ops/h)	DC ⩾ 2000 × 10^4 operations ; AC ⩾ 1000 × 10^4 operations	
Electrical endurance (360 Ops/h)	3.5mm: 1NO 12A ⩾ 12 × 10^4 operations	5mm: 2NO 8A ⩾ 8 × 10^4 operations
	5mm: 1NO 16A ⩾ 8 × 10^4 operations	

Input	
Coil power	DC≈0.4W AC≈0.75VA
Operate voltage(25°C)(rated voltage)	DC≤70% AC≤75%
Release voltage(25°C)(rated voltage)	DC≥10% AC≥15%
Max voltage (25°C)(rated voltage)	130%
Operate time(rated voltage)	≤10ms
Release time(rated voltage)	≤5ms

General	
Operate ambient temperature/humidity	-40~+85°C/5%~85%RH(No condensation)
Storage ambient temperature/humidity	-55~+85°C/5%~85%RH
Atmospheric pressure	86~106KPa
Shock resistance	10G (half-sine shock pulse: 11ms)
Vibration resistance	10~55Hz double-amplitude:1.0mm
Certification	
Unit weight(g)	≈13

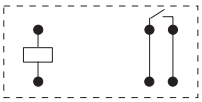
Insulation(IEC 60664 UL 840)		
Rated voltage		250VAC
Insulation resistance		⩾1000MΩ（500VDC）
Initial dielectric strength	Between open contacts	1000VAC/min (leakage current 1mA)
	Between adjacent contacts	2500VAC/min (leakage current 1mA)
	Between contact and coil	5000VAC/min (leakage current 1mA)
Impulse withstand voltage (waveform: 1.2/50μs)		10kV
Overvoltage category		III
Pollution degree		3
Protection category		IP40

Wiring Diagrams

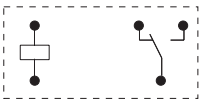
R2G1AO



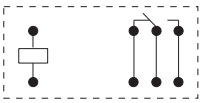
R2G1AH



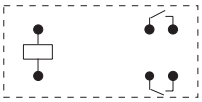
R2G1CO



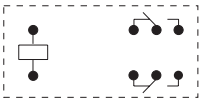
R2G1CH

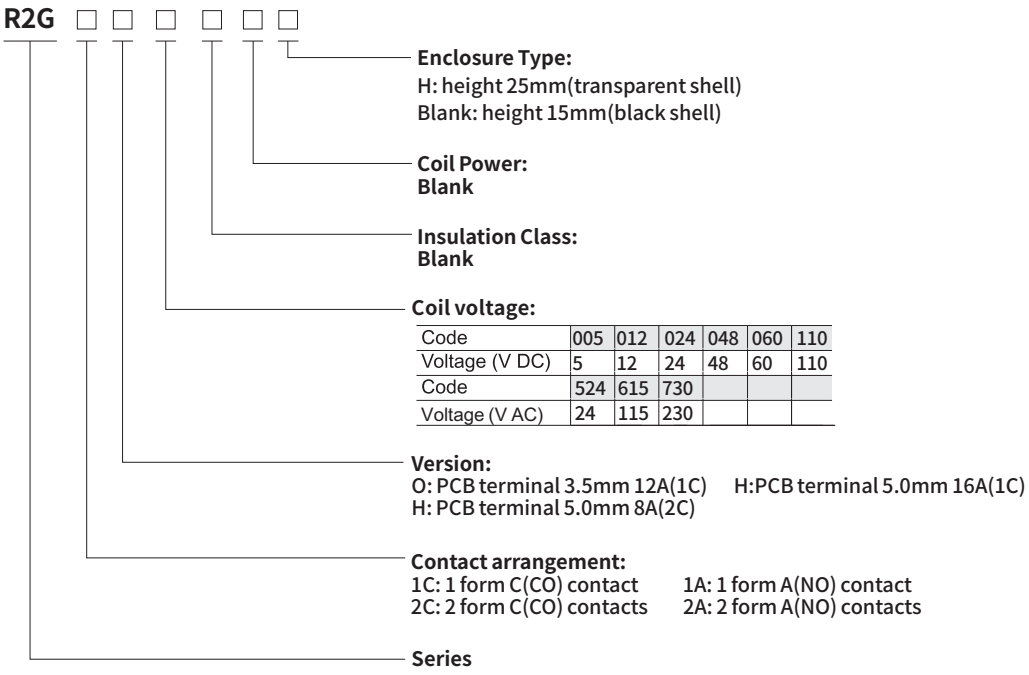


R2G2AH



R2G2CH





Selection example: R2G2CH024, R2G series, 2C 2-pole changeover, H PCB terminal, 024 Coil voltage 24VDC.

DC Input		5VDC	12VDC	24VDC	48VDC	60VDC	110VDC
Rated voltage(VDC)		5	12	24	48	60	110
Rated current (mA)		80.00	33.33	16.84	8.33	7.00	3.82
Coil resistance (Ω±10%)		62.5	360	1425	5760	8570	28800(Ω±15%)
Operate/Release voltage(V)		3.5/0.5	8.4/1.2	16.8/2.4	33.6/4.8	42/6	77/1.1
Coil power (±10% W)		0.4	0.4	0.4	0.4	0.42	0.42
Ordering Information							
1C	Pcb terminal H	R2G1CH005	R2G1CH012	R2G1CH024	R2G1CH048	R2G1CH060	R2G1CH110
	Pcb terminal O	R2G1CO005	R2G1CO012	R2G1CO024	R2G1CO048	R2G1CO060	R2G1CO110
2C	Pcb terminal H	R2G2CH005	R2G2CH012	R2G2CH024	R2G2CH048	R2G2CH060	R2G2CH110

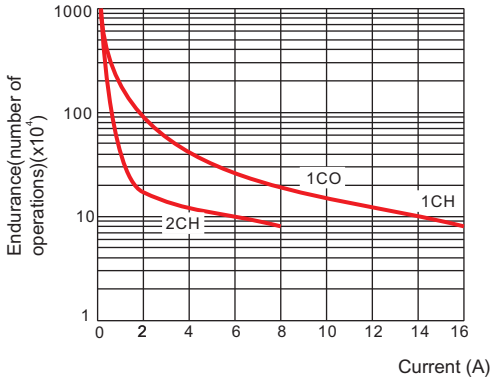
AC Input		24VAC	115VAC	230VAC
Rated voltage(VAC)		24	115	230
Rated current 50Hz(mA)		31.67	6.61	3.22
Coil resistance(Ω±10%)		350	8100(Ω±15%)	32500(Ω±15%)
Operate/Release voltage(V)		18/3.6	86.25/17.25	172.5/34.5
Coil power 50Hz (±10% VA)		0.76	0.76	0.74
Ordering Information				
1C	PCB terminal H	R2G1CH524	R2G1CH615	R2G1CH730
	PCB terminal O	R2G1CO524	R2G1CO615	R2G1CO730
2C	PCB terminal H	R2G2CH524	R2G2CH615	R2G2CH730

Accessories	
1C Sockets (For R2G1COxx series relays)	SRC05-ST/SRC05-E/SRB05-E/SRC05-P
2C Sockets (For R2G1CHxx & R2G2CHxx series relays)	SRC08-ST/SRC08-E/SRB08-E/SRC08-P
ID Tag	SR2P (SRC, SRB)
Bus jumper	ST01CC (SRC-ST), SR08B (SRC-E)
Module	AMD

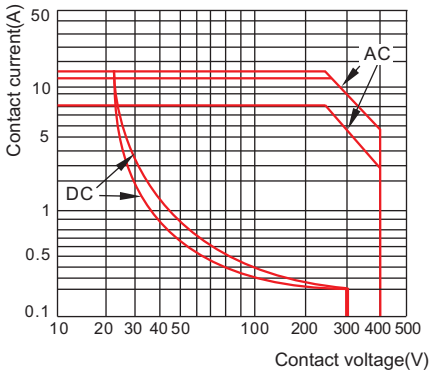
*Retaining clips are optional for all sockets.For gold-plated contacts or other customized relay requirements, please contact your local sales representative for a quotation.

Contact Specifications

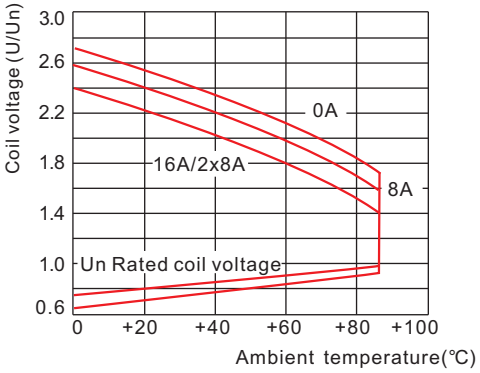
250VAC Resistive electrical endurance



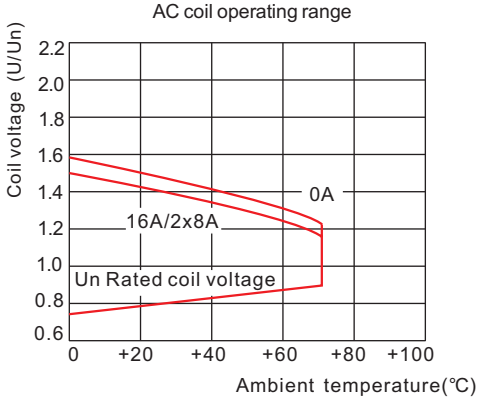
Breaking capacity max.



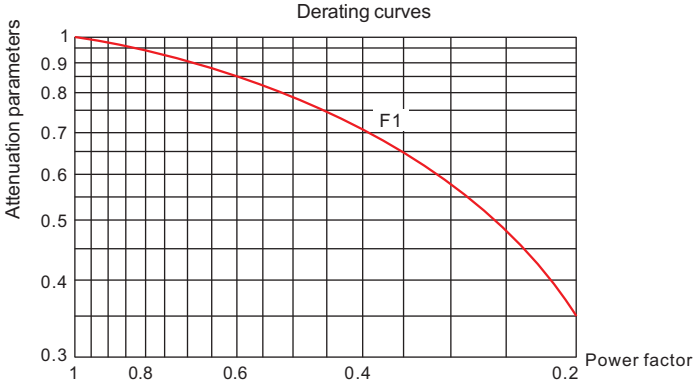
DC coil operating range



AC coil operating range



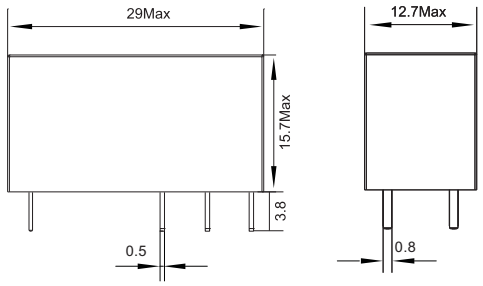
Derating curves



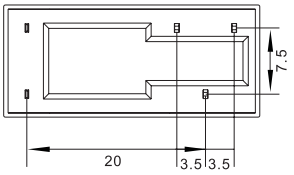
Derating curve for inductive loads at φ <1
Actual operations = Operations(Resistive load) × Coefficient from the table

Dimensions(mm)

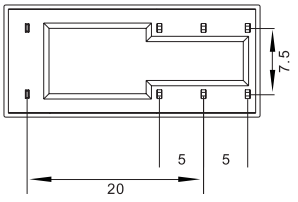
R2G1CO、1CH、2CH



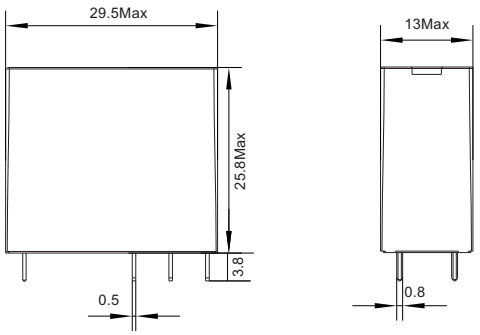
R2G1CO(3.5mm)



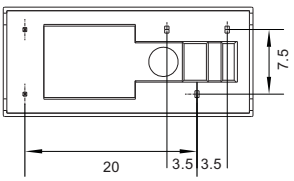
R2G1CH、2CH(5mm)



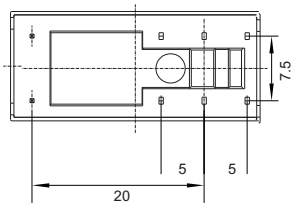
R2G1CO*H、1CH*H、2CH*H



R2G1CO*H(3.5mm)

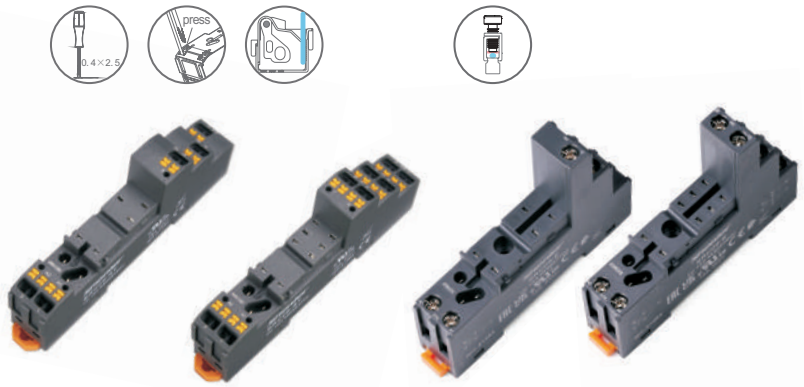


R2G1CH*H、2CH*H(5mm)



R2G
Socket for Relay

Shenler



SRC05-ST SRC08-ST SRC05-E SRC08-E



SR15L
Plastic clip

SR2P
ID tag



AMD
Module

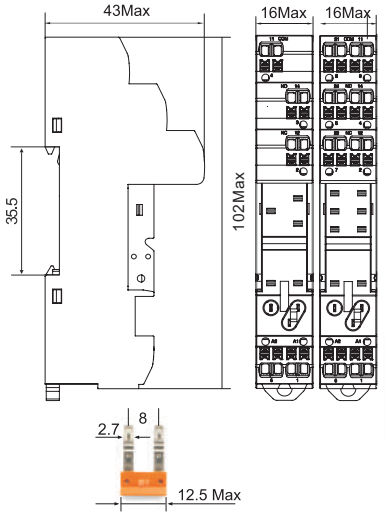
Socket

Model No.	SRC05-ST	SRC08-ST	SRC05-E	SRC08-E
Rated load current	16A	10A	12A	10A
Rated load voltage	300V			
Dielectric strength Between coil and contact	4000V/min			
Dielectric strength Between contacts	2500V/min			
Screw torque	-		1.0Nm	
Wiring range(screw terminal)	0.5~2.5mm²			
Operating ambient temperature	-40~+85°C			
Length x Width x Height(mm)	SRC05-ST/SRC08-ST 102 x 16 x 43			
	SRC05-E/SRC08-E 80 x 15.8 x 61.5			
Unit weight (g)	37	42	33	37

Accessories not included with socket.

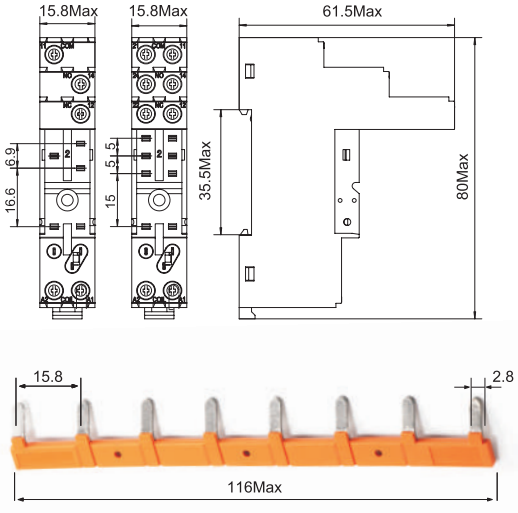
Dimensions (mm)

SRC05-ST SRC08-ST



BUS jumper ST01CC (Adapt to SRC05/08-ST)

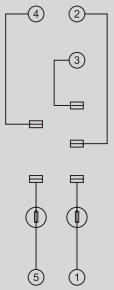
SRC05-E SRC08-E



BUS jumper SR08B (Adapt to SRC05/08-E)

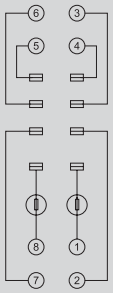
Wiring Diagrams

①⑤ : A1 A2
② : NC
③ : NO
④ : COM



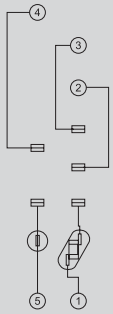
SRC05-ST

①⑧ : A1 A2
②⑦ : NC
④⑤ : NO
③⑥ : COM



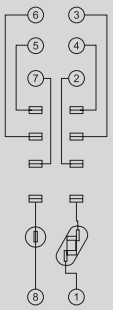
SRC08-ST

①⑤ : A1 A2
② : NC
③ : NO
④ : COM



SRC05-E

①⑧ : A1 A2
②⑦ : NC
④⑤ : NO
③⑥ : COM



SRC08-E

Shenler





SRB05-E SRB08-E



SR15L
Plastic Clip

SR2P
ID Tag



AMD
Modules



SRC05-P



SR15M
Metal Clip



SRC08-P



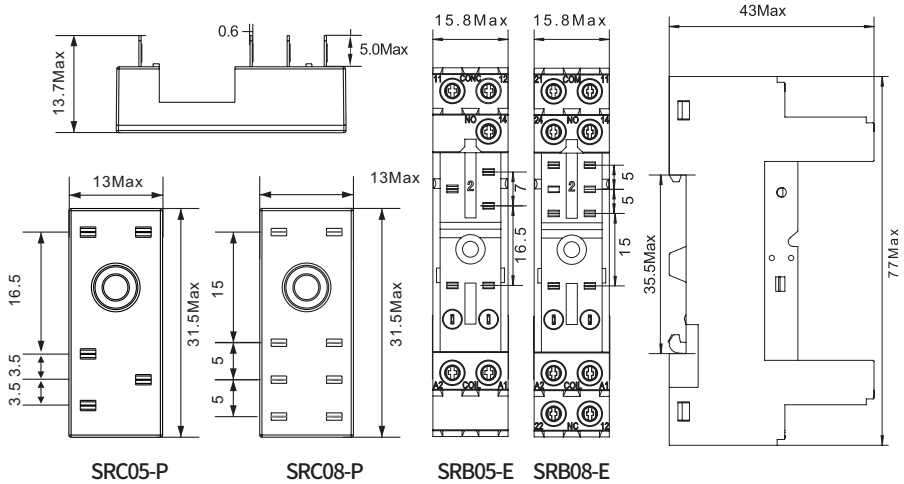
SR1520M
Metal Clip

Socket

Model No.		SRC05-P	SRC08-P	SRB05-E	SRB08-E
Rated load current		12A	8A	12A	10A
Rated load voltage		300V			
Dielectric strength	Between coil and contact	4000V/min			
	Between contacts	2500V/min			
Screw torque		-		1.0Nm	
Wiring range(screw terminal)		-		0.5~2.5mm²	
Operating ambient temperature		-40~+85°C			
Length x Width x Height(mm)		SRC05-P/SRC08-P 31.5 x 13 x 13.7			
		SRB05-E/SRB08-E 77 x 15.8 x 43			
Unit weight(g)		10	10	33	37

Accessories not included with socket.

Dimensions (mm)

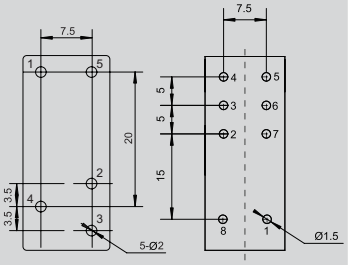


SRC05-P SRC08-P SRB05-E SRB08-E

Wiring Diagrams

①⑤ : A1, A2
② : NC
③ : NO
④ : COM

①⑧ : A1, A2
③⑥ : COM
④⑤ : NO
②⑦ : NC

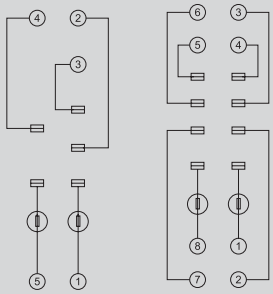


SRC05-P SRC08-P

Bottom View

①⑤ : A1 A2
② : NC
③ : NO
④ : COM

①⑧ : A1 A2
②⑦ : NC
④⑤ : NO
③⑥ : COM



SRB05-E SRB08-E

Shenler





SNB08-ST



SN10A
Bus jumper



SN10P
ID tag

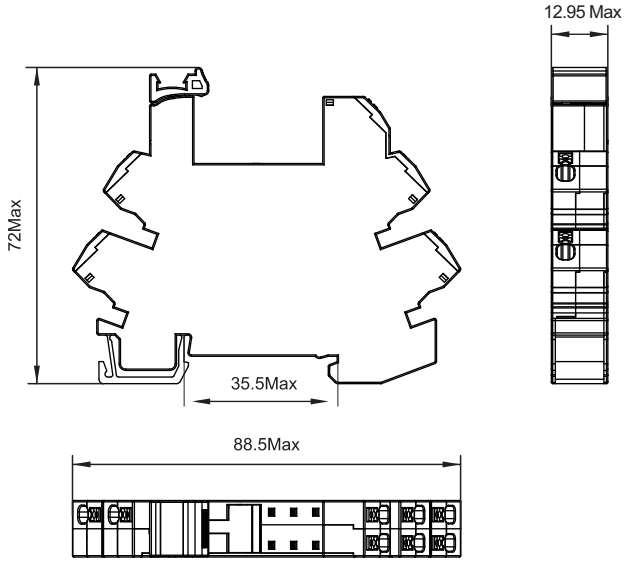
Socket

Model No.	Input	Relay
SNB08-ST-AR	24V DC	24V DC
SNB08-ST-A	24V UC	24V DC
SNB08-ST-B	48(60)V UC	48(60)V DC
SNB08-ST-C	120V UC	110V DC
SNB08-ST-D	230V UC	110V DC
SNB08-ST-DR	230V AC	110V DC

Socket

Rated load current		8A
Rated load voltage		300V
Dielectric strength	Between coil and contact	4000V/min
	Between contacts	2000V/min
Wiring range(screw terminal)		20-14/0.5-2.5
Operating ambient temprature		-40~+85°C
Unit weight(g)		31.2

Dimensions(mm)



Wiring Diagrams

⑪ ㉑: COM
⑫ ㉒: NC
⑭ ㉔: NO

