Winding workshop

Automated socket workshop

Automation relay workshop

UL TÜV Witnessing Laboratory

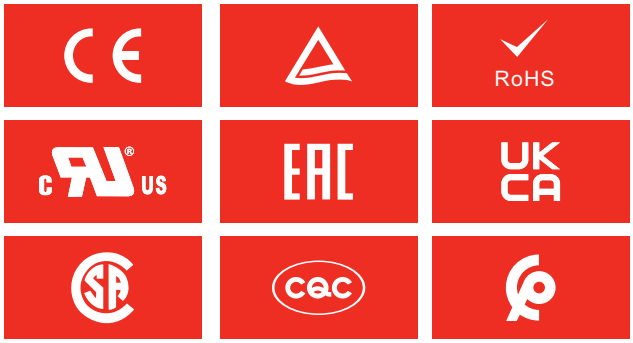
About Shenler

Founded in 2014, Shenle Corporation Ltd. is an intelligent relay manufacturing factory, mainly engaged in industrial relays, interface relays, automotive relays, relay modules, time relays, solid state relays, sockets, limit switches, buttons, industrial auxiliary materials, automated smart manufacturing and equipment. The company's total construction area is 36,000 square meters, covering an area of 23 acres.

In 2021, the production capacity exceeds 100 million, and the current market share accounts for 30%. Shenle's sales and service network covers the world, and more than 65% of its products are sold overseas. The products are widely used in machinery manufacturing, hoisting machinery, machine tools, papermaking equipment, motor control, elevators, robots, food and beverages, rubber equipment, ceramics machinery, printing and packaging, injection molding machinery, textile machinery, logistics equipment, electronic manufacturing, petrochemical, new energy and other fields.

Qualifications

Shenle products have passed CE,TÜV,RoSH, UL, EAC,UKCA,CSA,CQC, CP,certifications.



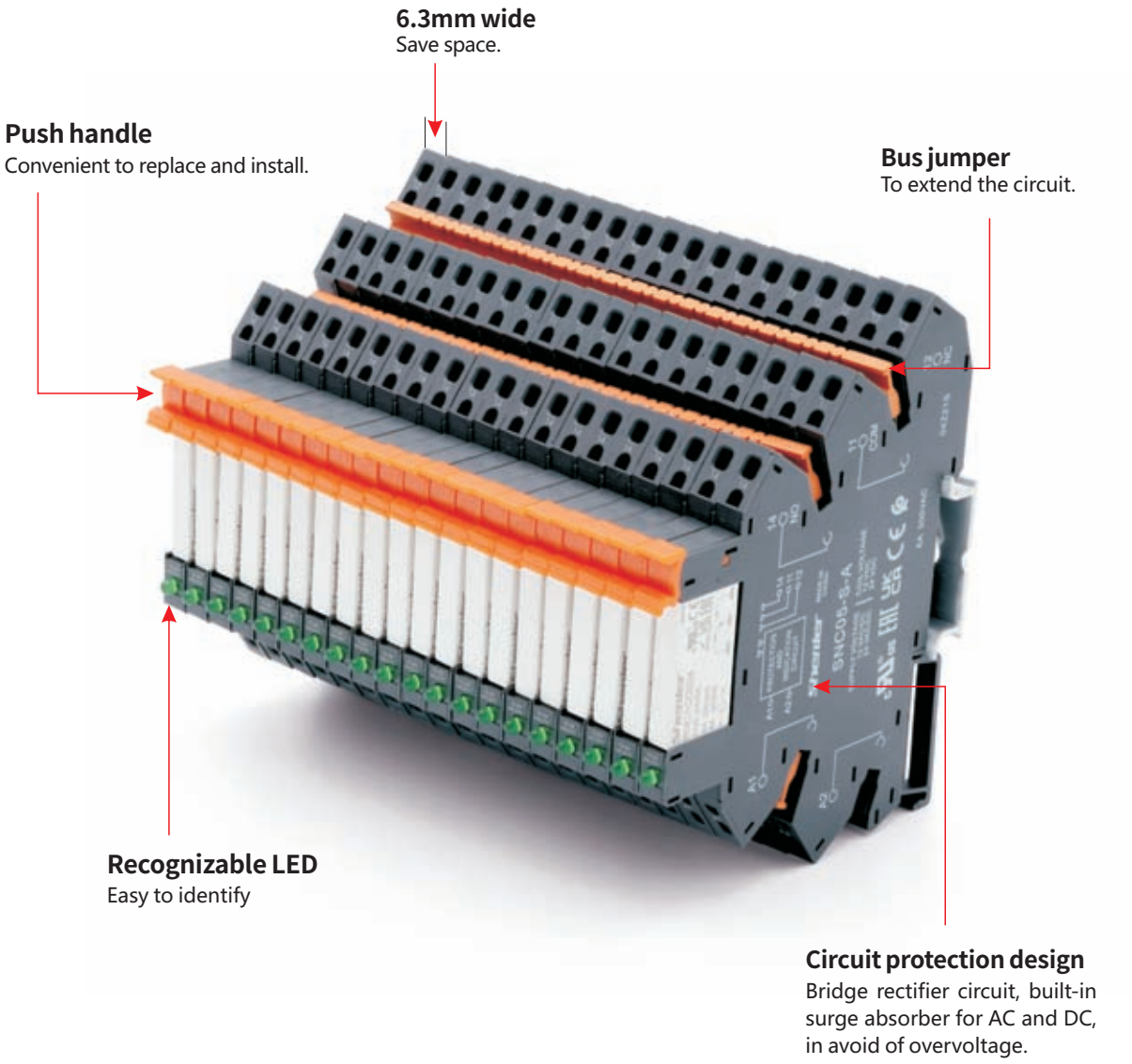
- National Spark Program Project
- Top 10 Brands of Relays in China
- High–tech Enterprise
- Zhejiang Science & Technology Enterprise
- Supporting the whole industry chain of automation equipment manufacturing
- TUV Rheinland Witnessing Laboratory
- UL Witnessing Laboratory
- Zhejiang Enterprise Research Institute

Contents

RNC

Interface Relay Module

- Ultra slim, high sensitivity and low consumption, the maximum load power 6A.
- Reasonable structure, meets environmental protection requirements, the control voltage range can be extended with matching sockets.
- Shenler industrial relays are widely used in the output signal and safety drive of PLC, CNC system, robot, intelligent manufacturing and other control systems. It is the best choice to realize remote control, production and processing, packaging, transportation, testing, storage and other equipment and automatic assembly lines.



Selection manual of industrial control relay

RNC

Interface Relay Module

Relay

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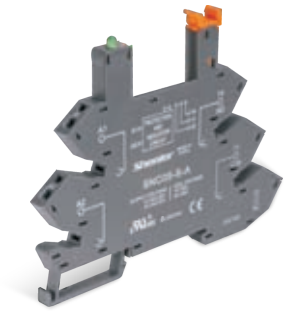

Socket

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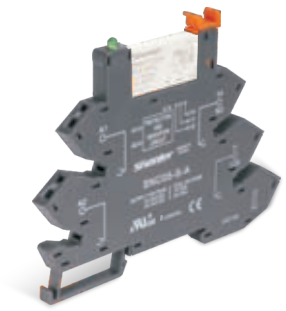


Relay module

RNC □ □ □ □

Other options
Blank: Conventional
V: Coil consumption 0.21W (only to 48~60VDC)
G: Gold plated contact

Coil voltage code

Code	005	006	012	024
Voltage (V DC)	5	6	12	24
Code	048	060		
Voltage (V DC)	48	60		

Terminal arrangement
O: Vertical pin
P: Horizontal pin

Contact form
1A: (NO)
1C: (CO)

Series

Characteristics

Contact	Configuration	1A,1C
	Load Resistance	6A/250VAC 30VDC
	Max. switching capacity (resistive)	1500VA,180W
	Min. switching capacity	170mW(17V/10mA)
	Initial contact resistance	≤100mΩ (gold plated contact ≤ 30mΩ)
	Material	Ag alloy
	Electrical durability	NO: 6x10^{4}Cycles (600 Ops/h); NC: 3x10^4 Cycles (600 Ops/h)
	Mechanical durability	≥2 x 10^{7}Cycles (18000 Ops/h)
Pick-up voltage (23℃) (Rated voltage)		DC:≤75%
Drop-out voltage (23℃) (Rated voltage)		DC:≥5%
Maximum voltage (23℃) (Rated voltage)		110%
Insulation resistance		≥1000MΩ (500VDC)
Coil operating power	3~24 VDC	approx. 0.175W
	48~60 VDC	approx. 0.21W
Operate time (at nominal voltage)		≤8ms
Release time (at nominal voltage)		≤4ms
Initial breakdown voltage	Between open contacts	1000VAC/1min (leakage current 1mA)
	Between contacts and coil	4000VAC/1min (leakage current 1mA)
Insulation characteristics IEC 60664 UL840	Rated voltage	250VAC
	Pollution level	3
	Overvoltage level	III
Impulse withstand voltage (waveform: 1.2/50us)		4000V
Protection level		IP60
Storage temperature/ humidity		-55~+85℃/ ≤85%RH (18 months)
Working temperature/ humidity		-40~+85℃/ 5%~85%RH (No condensation)★
Air pressure		86~106KPa
Shock resistance		10G (half-sine shock pulse: 11ms)
Vibration resistance		10~55Hz double-amplitude:1.0mm
Mounting		PCB
Unit weight		approx. 6g

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

RNC
Interface Relay Module

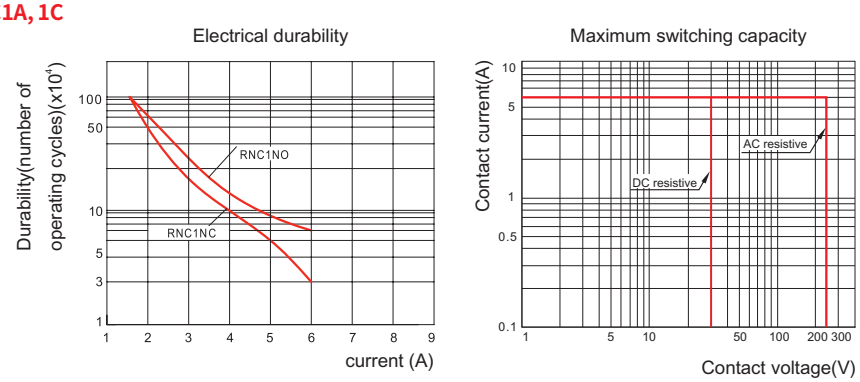
Coil Specifications (23°C)

Nominal voltage V.DC (0.17W)	5	6	12	24
Coil resistance Ω	147	212	847	3250
Nominal voltage V.DC (0.21W)	48	60		
Coil resistance Ω	10971	17143		

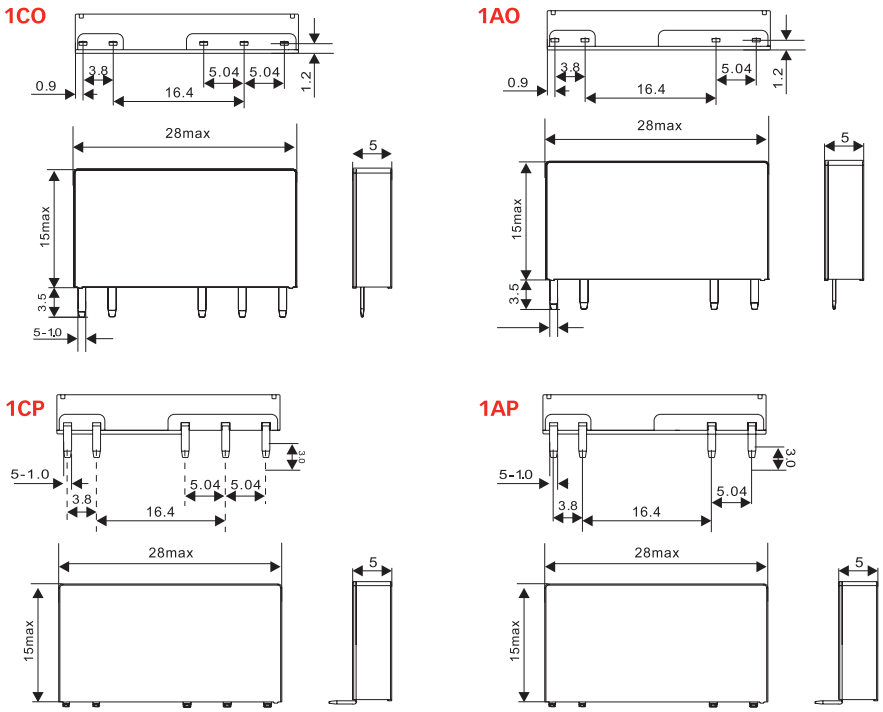
Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

Contact Specification

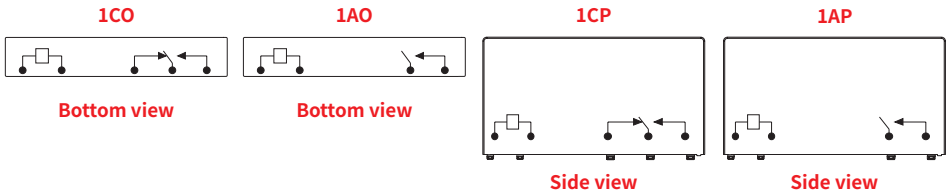
RNC1A, 1C



Dimensions (mm)



Wiring Diagrams



SNB05-E

RNC Socket

Characteristics

Model No.	Input	Relay
SNB05-E-AR	6~24VDC	6~24VDC
SNB05-E-A	6~24V	6~24VDC
SNB05-E-B	48V	24VDC
SNB05-E-C	110V	24VDC
SNB05-E-D	230V	48VDC

SNB05-E

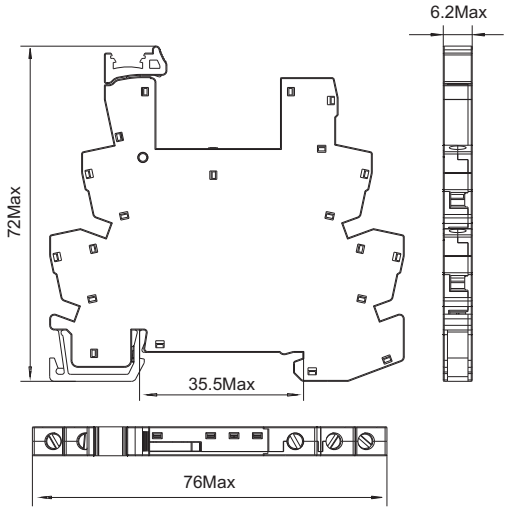
Characteristics

Nominal load	Current	A	8
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque		Nm	0.5
Wire size		AWG/mm²	20-16/0.5-1.5
Ambient temperature		℃	-40~+85
Unit weight		g	24

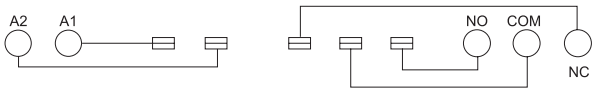
Relay,accessories Selection Table

Bus jumper	Legend
	
SN20A	SN64P

Dimensions (mm)



Connection Diagrams



SNB05-ST

RNC Socket

Characteristics

SNB05-ST

Model No.	Input	Relay
SNB05-ST-AR	6~24VDC	6~24VDC
SNB05-ST-A	6~24V	6~24VDC
SNB05-ST-B	48V	24VDC
SNB05-ST-C	110V	24VDC
SNB05-ST-D	230V	48VDC

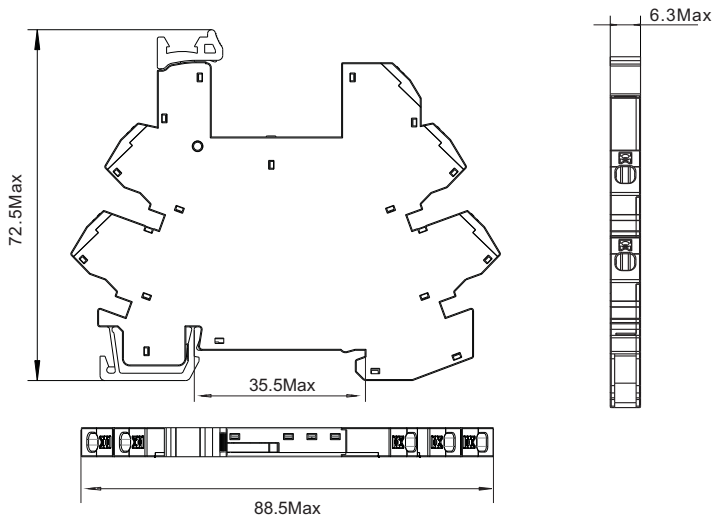
Characteristics

Nominal load	Current	A	8
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Wire size		AWG/mm²	20-16/0.5-1.5
Ambient temperature		℃	-40~+85
Unit weight		g	24

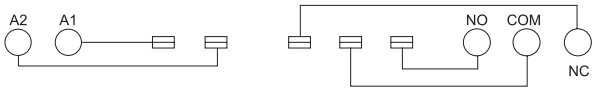
Relay,accessories Selection Table

Bus jumper	Legend
 SN20A	 SN64P

Dimensions (mm)



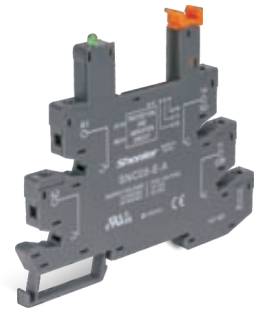
Connection Diagrams



SNC05-E

RNC Socket

Characteristics



SNC05-E

Model No.	Input	Relay
SNC05-E-A	12~24V	12~24VDC
SNC05-E-B	48~60V	48~60VDC
SNC05-E-C	110V	60VDC
SNC05-E-D	230V	60VDC

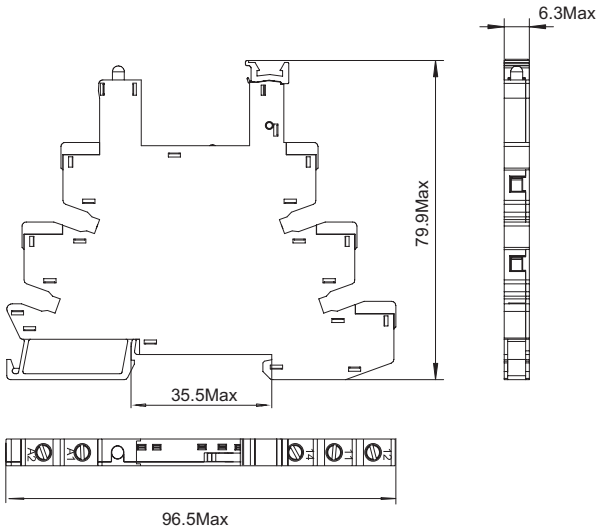
Characteristics

Nominal load	Current	A	8
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque		Nm	0.5
Wire size		AWG/mm²	20-16/0.5-1.5
Ambient temperature		℃	-40~+85
Unit weight		g	24

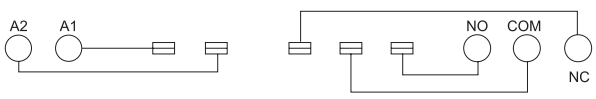
Relay,accessories Selection Table

Bus jumper	Legend	Partition plate
 SN20B	 SN64P	 SN20S

Dimensions (mm)



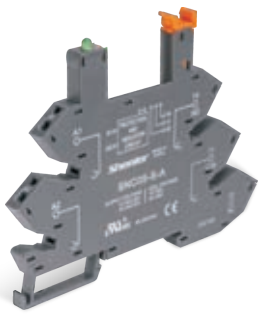
Connection Diagrams



SNC05-S

RNC Socket

Characteristics



SNC05-S

Model No.	Input	Relay
SNC05-E-A	12~24V	12~24VDC
SNC05-E-B	48~60V	48~60VDC
SNC05-E-C	110V	60VDC
SNC05-E-D	230V	60VDC

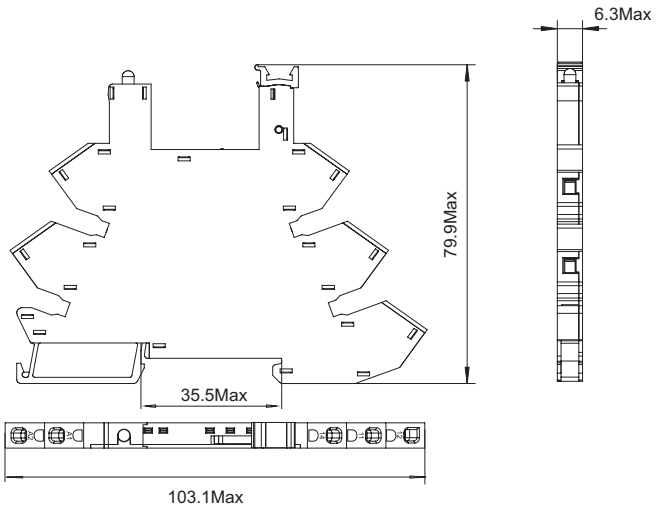
Characteristics

Nominal load	Current	A	8
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Wire size		AWG/mm²	20-16/0.5-1.5
Ambient temperature		℃	-40~+85
Unit weight		g	24

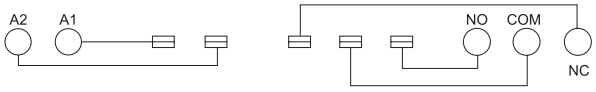
Relay,accessories Selection Table

Bus jumper	Legend	Partition plate
 SN20B	 SN64P	 SN20S

Dimensions (mm)



Connection Diagrams



SNC05-P

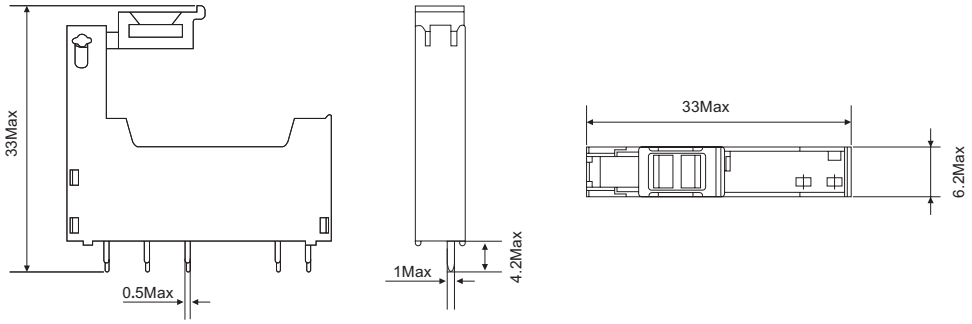
RNC Socket

Characteristics

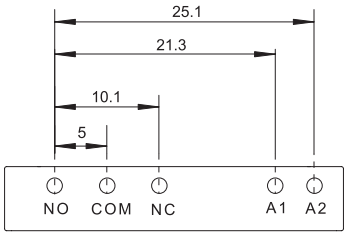
SNC05-P

Nominal load	Current	A	8
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Wire size		AWG/mm²	20-16/0.5-1.5
Ambient temperature		℃	-40~+85
Unit weight		g	25

Dimensions (mm)

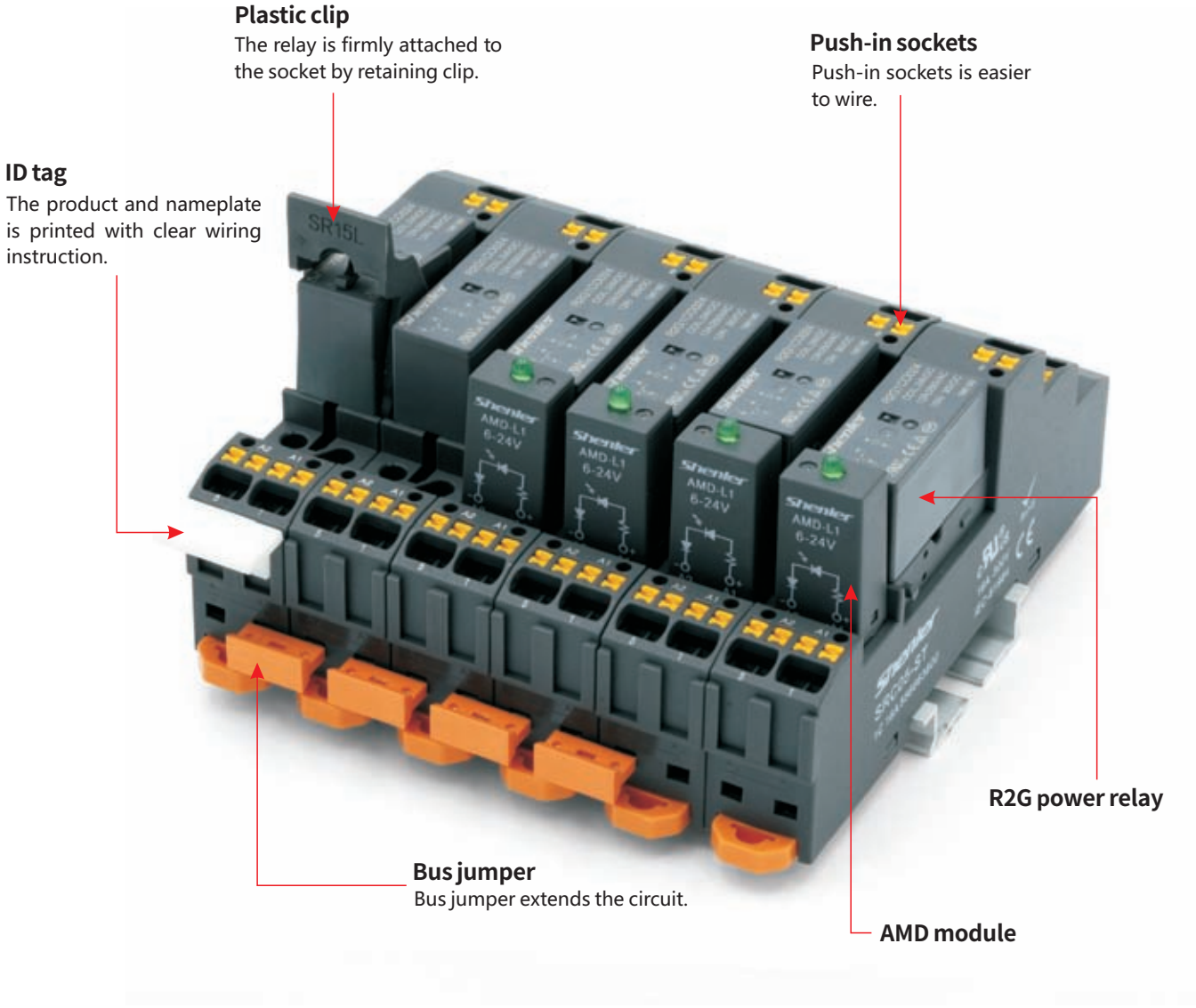


Connection Diagrams



R2G
Power Relay

- Available for 1 and 2 pole , 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



R2G
Power Relay

Relay

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Socket

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Relay module

R2G □ □ □ □ □ □

Encapsulation Way
S: Flux proof
None: Sealed

Coil Consumption
None: Standard (400mW)
T: Sensitive (250mW)

Material Level
None: 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 pole16A, 2 pole 8A

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

Series name

Characteristics

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	
	Electric durability (110% rated voltage , 85℃)		3.5mm: 1NO 12A; 1NC 6A ≥10^5 Cycles(85℃)	5.0mm: 2NO 8A; 2NC 4A ≥10^5 Cycles(85℃)
			5.0mm: 1NO 16A; 1NC 8A ≥10^5 Cycles(85℃)	-
	Durability (Normal temperature		3.5mm: 1NO 12A; 1NC 12A ≥5x10^4Cycles (23℃)	5.0mm:2NO 8A; 2NC 8A ≥5x10^4 Cycles(23℃)
			5.0mm: 1NO 16A; 1NC 16A ≥3x10^4Cycles(23℃)	-
	Mechanical durability		Dc≥5000x10^4 Cycles (18000 Ops/h); Ac≥3000x10^4 Cycles (18000 Ops/h)	
Pick-up voltage (23℃) (Rated voltage)			DC≤70%	
Drop-out voltage (23℃) (Rated voltage)			DC:≥10%	
Maximum voltage (23℃) (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 IEC 60664 UL840		Rated voltage	250VAC	
		Pollution level	3	
		Overvoltage level	III	

R2G
Power Relay

Protection level	IP50
Storage temperature/ humbidity	-55~+85℃/ ≤85%RH (18 months) ★
Working temperature/ humbidity	-40~+85℃/ 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

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

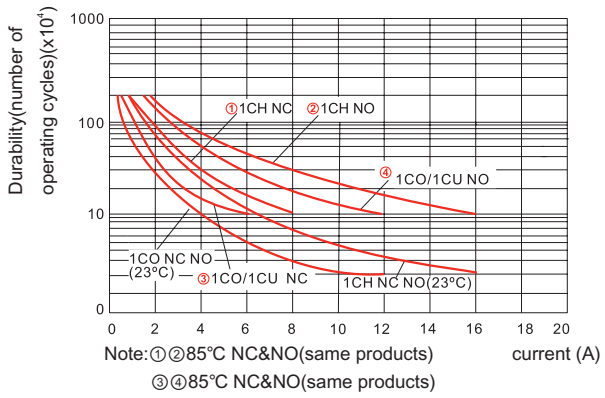
Coil Specifications (23°C)

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.

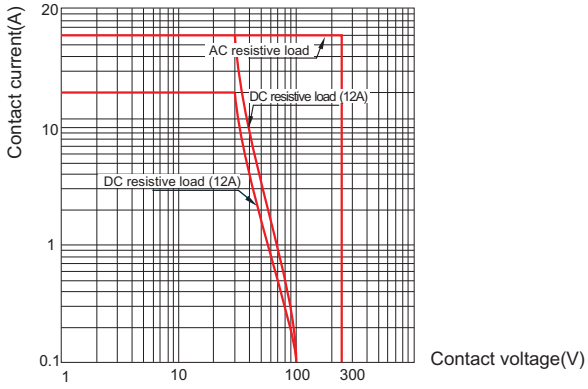
Contact Specification

R2G-1 Electrical durability contacts

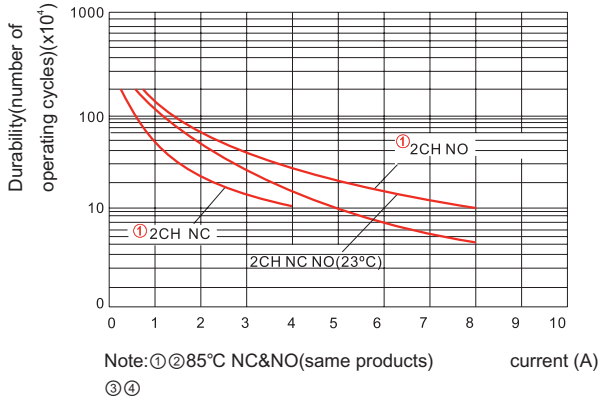


Note:①②85℃ NC&NO(same products)
③④85℃ NC&NO(same products)

Maximum switching capacity

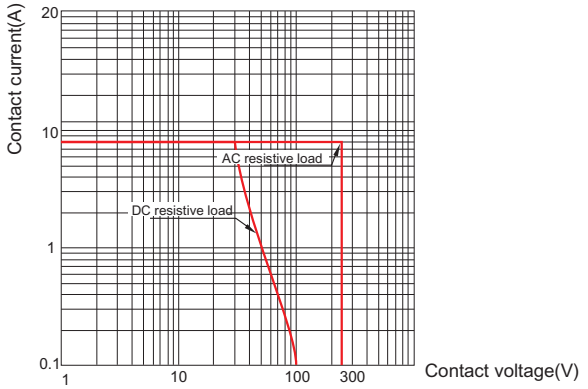


R2G-2 Electrical durability contacts



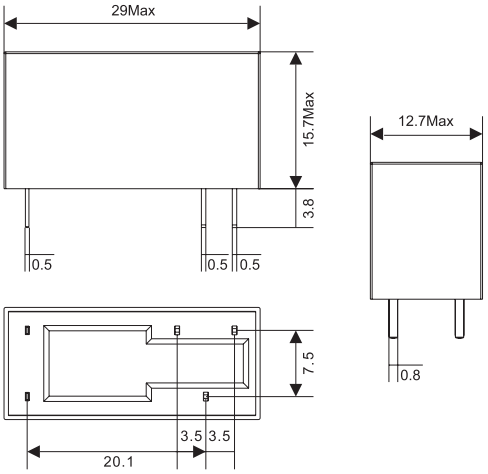
Note:①②85℃ NC&NO(same products)
③④

Maximum switching capacity

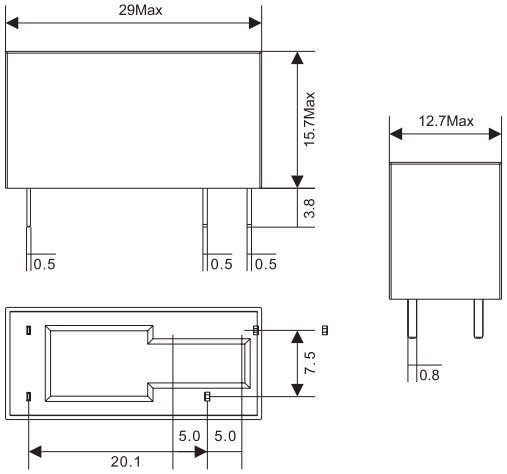


Dimensions (mm)

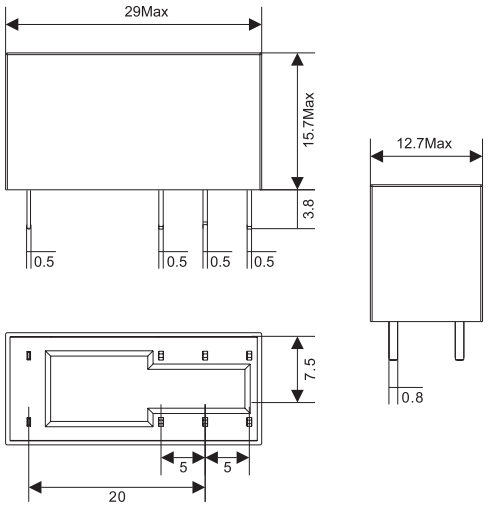
R2G1CO 3.5mm



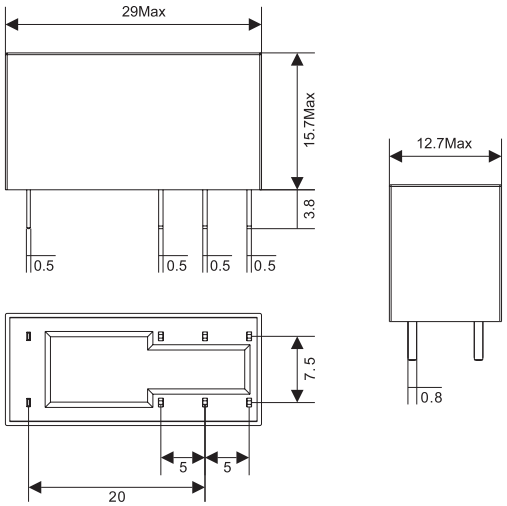
R2G1CU 5.0mm



R2G1CH 5.0mm



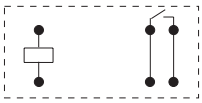
R2G2CH 5.0mm



Wiring Diagrams

R2G1AO/1AU

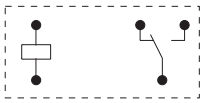
R2G1AH



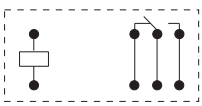
R2G1BO/1BU

R2G1BH

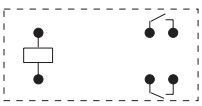
R2G1CO/1CU



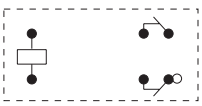
R2G1CH



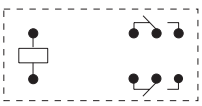
R2G2AH



R2G2BH



R2G2CH



SRC05-ST & SRC08-ST

R2G Socket

Characteristics

SRC05-ST

SRC08-ST

Type			SRC05-ST	SRC08-ST
Nominal load	Current	A	16	10
	Voltage	V	300	
Dielectric strength	Between coil and contact	V/min	4000	
	Between contacts	V/min	2500	
Max. tightening torque		Nm	-	
Wire size		AWG/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	37	42

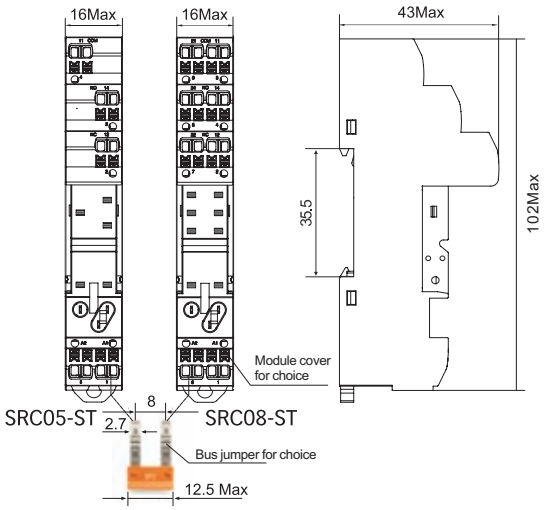
Relay,accessories Selection Table

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

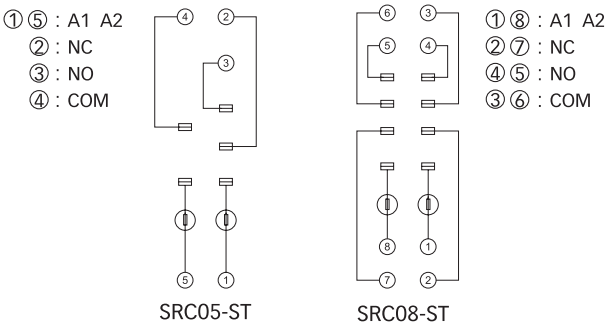
Clip selection table

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

Dimensions (mm)



Connection Diagrams



SRC05-E & SRC08-E

R2G Socket

Characteristics

SRC08-E

SRC08-E

Type			SRC05-E	SRC08-E
Nominal load	Current	A	12	10
	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/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	33	37

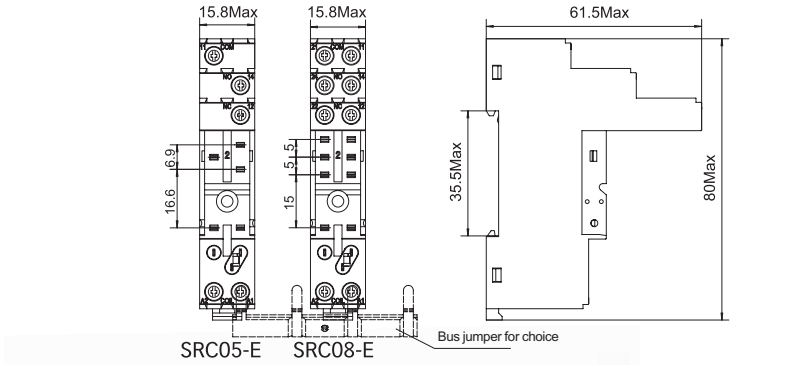
Relay,accessories Selection Table

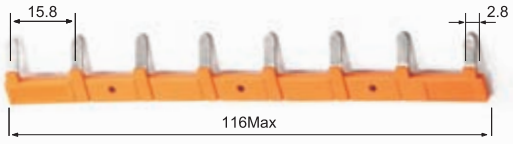
Socket	ID tag	Bus Jumper	Module
SRC05-E	SR2P	SR08B	AMD
SRC08-E			

Clip selection table

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

Dimensions (mm)

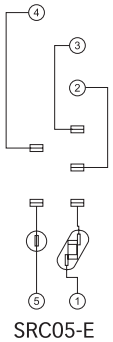


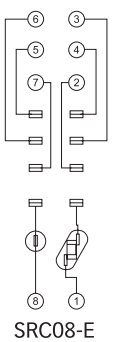


Bus jumper SR08B

Connection Diagrams

①⑤ : A1 A2
② : NC
③ : NO
④ : COM





①⑧ : A1 A2
②⑦ : NC
④⑤ : NO
③⑥ : COM

SRC05-E SRC08-E

SRB05-E & SRB08-E

R2G Socket

Characteristics

SRB05-E

SRB08-E

Type			SRB05-E	SRB08-E
Nominal load	Current	A	12	10
	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/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	33	37

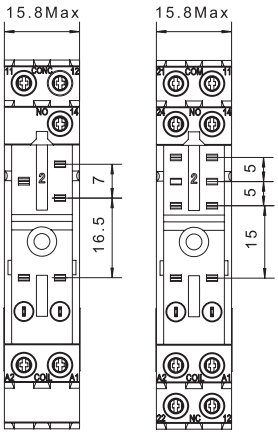
Relay,accessories Selection Table

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

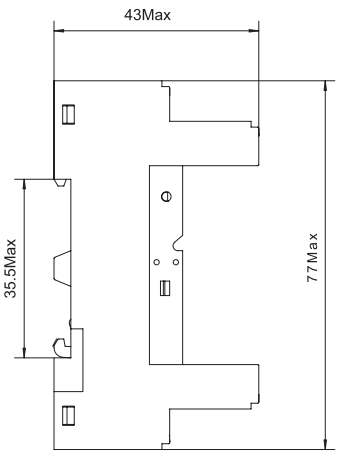
Clip selection table

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

Dimensions (mm)

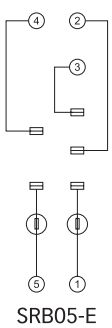


SRB05-E SRB08-E

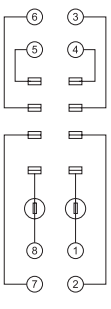


Connection Diagrams

①⑤ : A1 A2
② : NC
③ : NO
④ : COM



SRB05-E



SRB08-E

①⑧ : A1 A2
②⑦ : NC
④⑤ : NO
③⑥ : COM

SRC05-P&SRC08-P

R2G Socket

Characteristics

SRC05-P

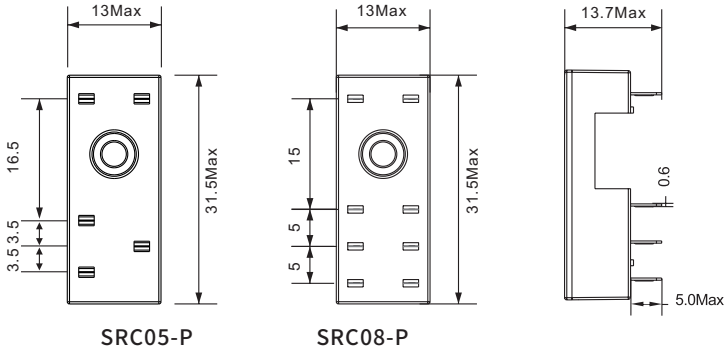
SRC08-P

Type			SRC05-P	SRC08-P
Nominal load	Current	A	12	8
	Voltage	V	300	
Dielectric strength	Between coil and contact	V/min	4000	
	Between contacts	V/min	2500	
Max. tightening torque		Nm	-	
Wire size		AWG/mm²	-	
Ambient temperature		℃	-40~+85	
Unit weight		g	10	10

Relay,accessories Selection Table

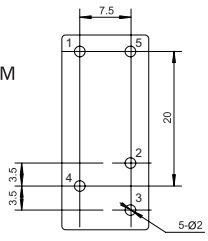
Socket	Metal clip
SRC05-P	 SR15M
SRC08-P	SR1520M

Dimensions (mm)

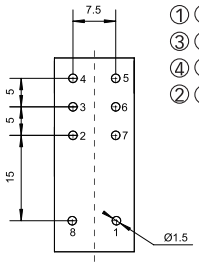


Connection Diagrams

①⑤：A1, A2
②：NC
③：NO
④：COM



SRC05-P
BOTTOM VIEW

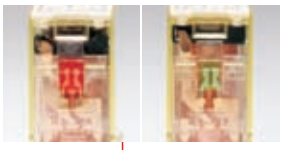


SRC08-P
BOTTOM VIEW

①⑧：A1, A2
③⑥：COM
④⑤：NO
②⑦：NC

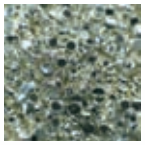
RFT
Interface Relay

- Slim and compact size
- 1 pole 12A; 2 pole 8A
- 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



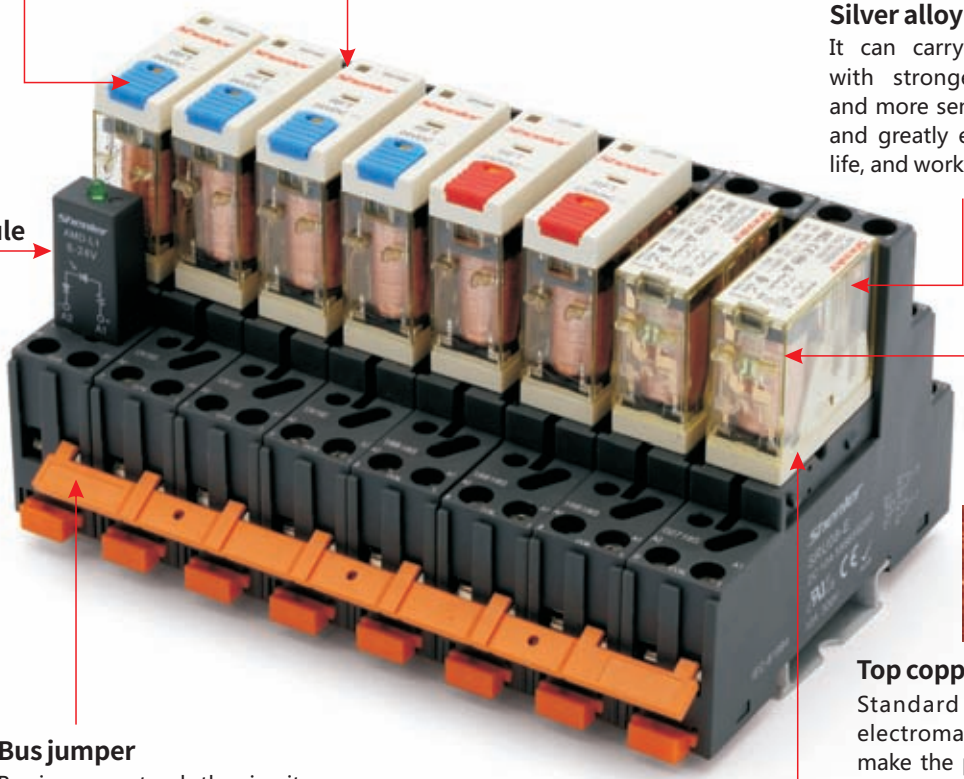
LED
Visible LED indicates the working status of the relay at any time, AC red, DC green

Test button
On-site test is available with test button.



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

AMD module



Top copper coil material
Standard turns and electromagnetic coils make the pick-up more reliable and enduring, which can reach more than 20 million cycles.

Bus jumper
Bus jumper extends the circuit.

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

RFT
Interface Relay

Relay

+

Socket

=

Relay module

RFT □ □ □ □

Other options
blank: standard type
L: with LED
D: with diode (1-,5+ ; 1-,8+)
D1: with diode(1+,5-; 1+,8-)
LD: with LED and diode (1-,5+ ; 1-,8+)
LD1: with LED and diode (1+,5-; 1+,8-)
LT: LED + Test button
LTD: LED + test button+diode (1-, 5+; 1-, 8+)
LTD1: LED + test button+diode (1+, 5-; 1+, 8-)
B: cover with flange (selection plus B,namely LB,DB,LDB, etc.)
A:gold plated contact

Coil voltage code

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

Terminal arrangement
O: plug in

Contact form
1C: 1CO
2C: 2CO

Series

Characteristics

Contact	Configuration		1C	2C
	Load	Resistance	12A/250VAC, 30VDC	8A/250VAC, 30VDC
		Motor load	1/3HP, 240VAC	1/6HP, 240VAC
	Max. switching capacity (resistive)		3000VA, 360W	2000VA, 240W
	Min. switching capacity		170mW(17V/10mA)	
	Initial contact resistance		≤50mΩ	
	Material		Ag alloy	
	Electrical durability (high temp., frequency 1s on, 1s off)		≥20 x 10^4Cycles (1800 Ops/h)	
	Electrical durability (normal temp., frequency 1s on, 5s off)		≥30 x 10^4Cycles(600 Ops/h)	
	Mechanical durability		≥2000 x 10^4Cycles (18000 Ops/h)	
Pick-up voltage (23℃) (Rated voltage)			DC:≤75% ,AC:80% 50/60Hz	
Drop-out voltage (23℃) (Rated voltage)			DC:≥10% ,AC:30% 50/60Hz	
Maximum voltage (23℃)(Rated voltage)			110%	
Insulation resistance			≥1000MΩ (500VDC)	
Coil operating power	DC(W)		approx. 0.53	
	AC(VA)		approx. 1.0	
Operate time (at nominal voltage)			≤20ms	
Release time (at nominal voltage)			≤10ms	
Initial breakdown voltage	Between open contacts		1000VAC/1min (leakage current 1mA)	
	Between poles		3000VAC/1min (leakage current 1mA)	
	Between contacts and coil		5000VAC/1min (leakage current 1mA)	
Insulation characteristics IEC 60664 UL840	Rated voltage		250VAC	
	Pollution level		3	
	Overvoltage level		III	
Impulse withstand voltage (waveform: 1.2/50us)			4000V	

RFT
Interface Relay

Protection level	IP50
Storage temperature/ humbidity	55~+85℃/5%~68%RH(18 months)
Working temperature/ humbidity	-40~+55℃/5%~85%RH((No condensation)★
Air pressure	86~106KPa
Shock resistance	10G (half-sine shock pulse: 11ms)
Vibration resistance	10~55Hz double-amplitude:1.0mm
Mounting	plug in
Unit weight	approx. 18g

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test the parameters before using.

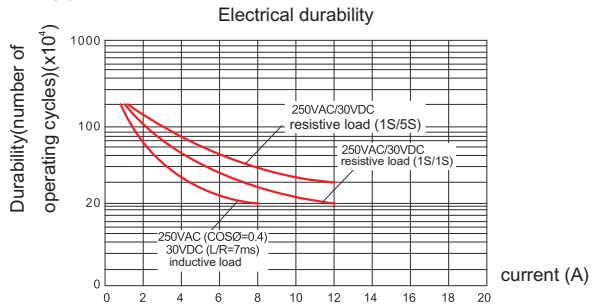
Coil Specifications (23°C)

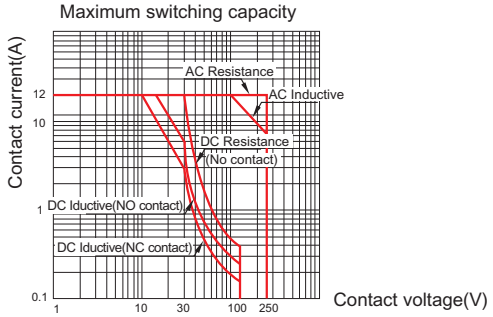
Nominal voltage V.DC	6	12	24	48	110	
Coil resistance Ω	68	270	1100	4300	22800	
Nominal voltage V.AC	6	12	24	48	115	230
Coil resistance Ω	16	63	240	1085	6300	23000

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

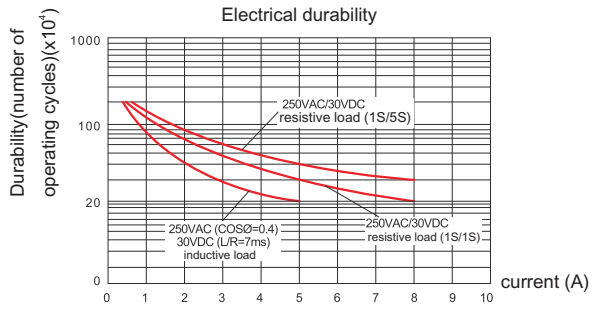
Contact Specification

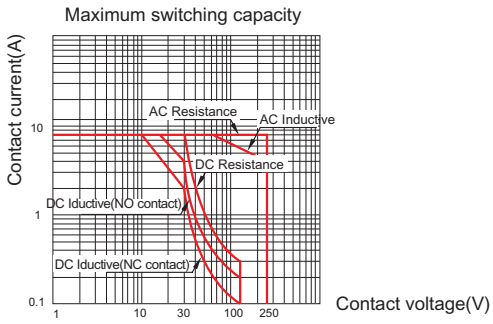
RFT1CO





RFT2CO

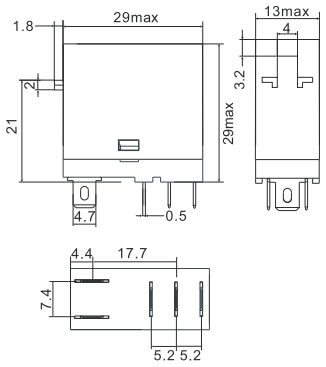




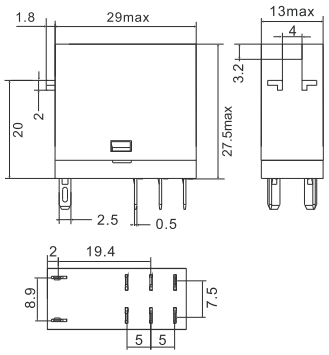
RFT
Interface Relay

Dimensions (mm)

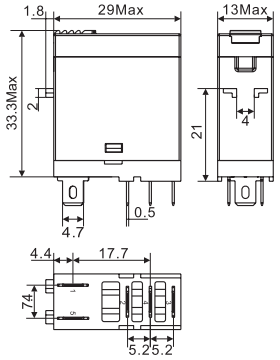
RFT1C



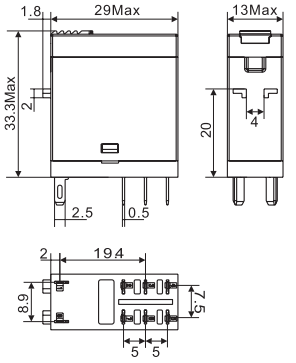
RFT2C



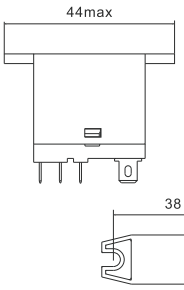
RFT1CO-LT



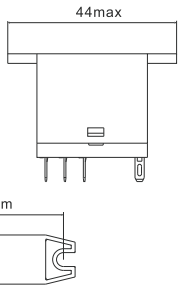
RFT2CO-LT

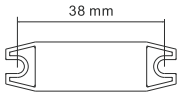


RFT1CO-B



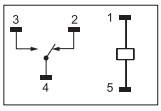
RFT2CO-B



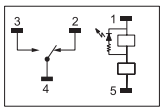


Wiring Diagrams

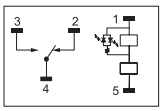
RFT1CO



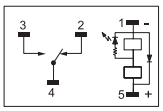
RFT1COL/LT AC



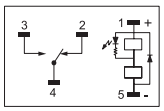
RFT1COL/LT DC



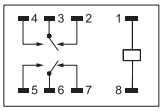
RFT1COLD/LTD DC



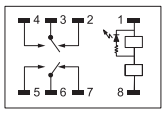
RFT1COLD1/LTD1



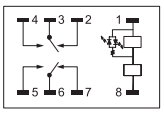
RFT2CO



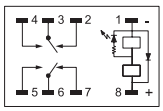
RFT2COL/LT AC



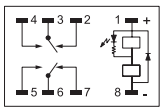
RFT2COL/LT DC



RFT2COLD/LTD DC



RFT2COLD1/LTD1



SRT05/08-A

RFT Socket

Characteristics

SRT05-A

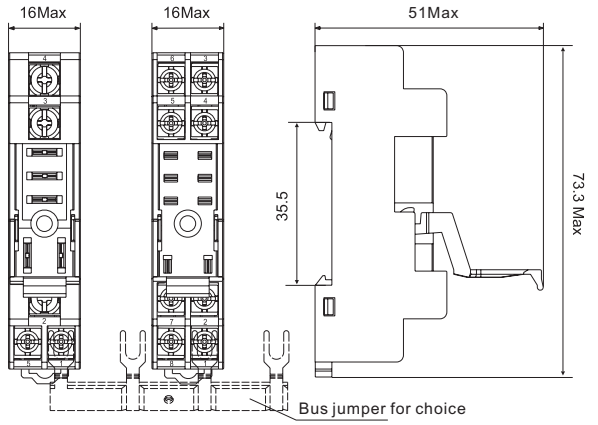
SRT08-A

Type			SRT05-A	SRT08-A
Nominal load	Current	A	16	10
	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		℃	-40~+85	
Unit weight		g	22	27

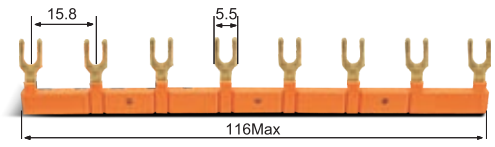
Relay,accessories Selection Table

Plastic clip	Bus jumper
 SR20 (included in socket)	 SR08C

Dimensions (mm)



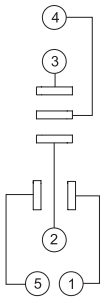
SRT05-A SRT08-A



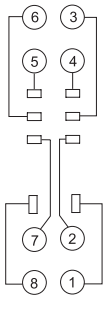
Bus jumper SR08C

Connection Diagrams

①⑤ : A1 A2
② : NC
③ : NO
④ : COM



SRT05-A



SRT08-A

①⑧ : A1 A2
②⑦ : NC
④⑤ : NO
③⑥ : COM

SRT05/08-E

RFT Socket

Characteristics

SRT05-E

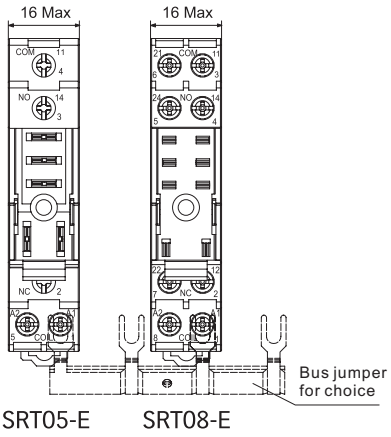
SRT08-E

Type			SRT05-E	SRT08-E
Nominal load	Current	A	16	10
	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		℃	-40~+85	
Unit weight		g	22	27

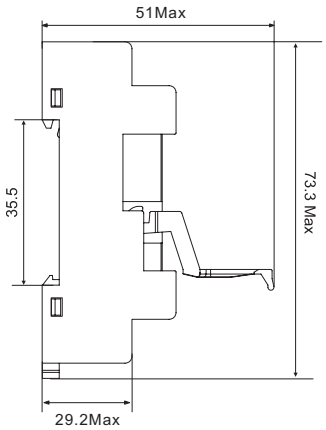
Relay,accessories Selection Table

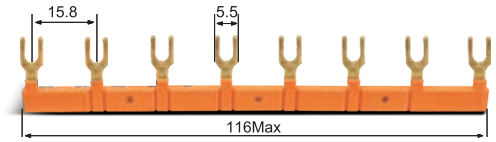
Plastic clip	Bus jumper
	
(included in socket)	SR08C

Dimensions (mm)



SRT05-E SRT08-E

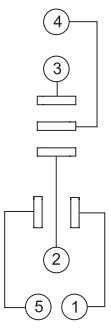




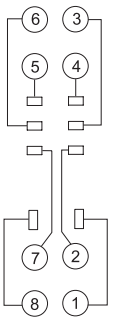
Bus jumper SR08C

Connection Diagrams

①⑤ : A1 A2
② : NC
③ : NO
④ : COM



SRT05-E



SRT08-E

①⑧ : A1 A2
②⑦ : NC
④⑤ : NO
③⑥ : COM

SRT05/08-ES

RFT Socket

Characteristics

SRT05-ES

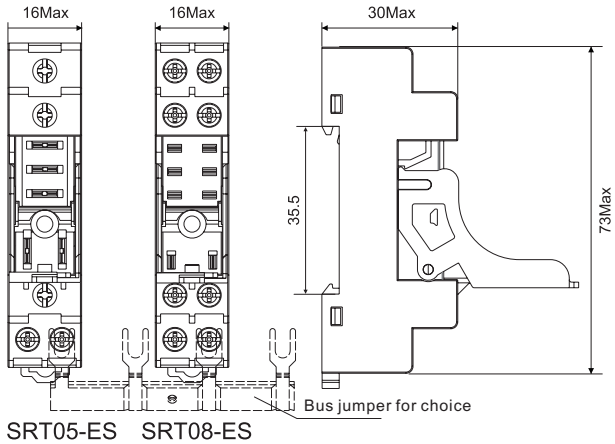
SRT08-ES

Type			SRT05-ES	SRT08-ES
Nominal load	Current	A	16	10
	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		℃	-40~+85	
Unit weight		g	22	27

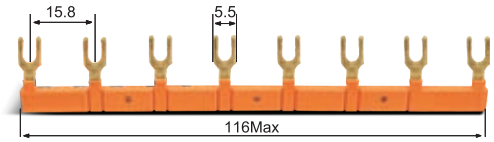
Relay,accessories Selection Table

Socket	Plastic clip	Bus jumper
SRT05-ES		
SRT08-ES	SR20L (included in socket)	SR08C

Dimensions (mm)



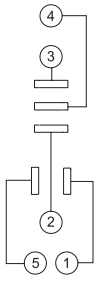
SRT05-ES SRT08-ES

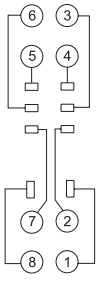


Bus jumper SR08C

Connection Diagrams

①⑤ : A1 A2
② : NC
③ : NO
④ : COM





①⑧ : A1 A2
②⑦ : NC
④⑤ : NO
③⑥ : COM

SRT05-ES SRT08-ES

SRU05/08-E

RFT Socket

Characteristics

SRU05-E

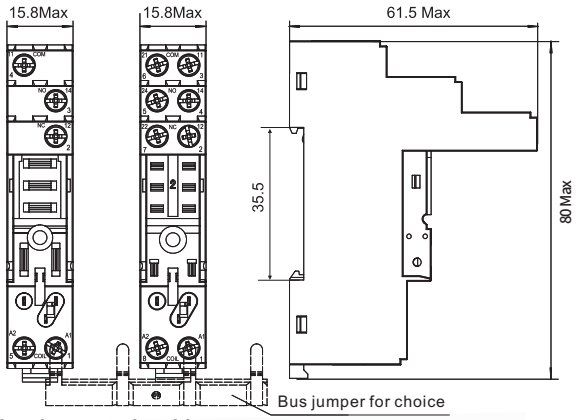
SRU08-E

Type			SRU05-E	SRU08-E
Nominal load	Current	A	16	10
	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		℃	-40~+85	
Unit weight		g	35	43

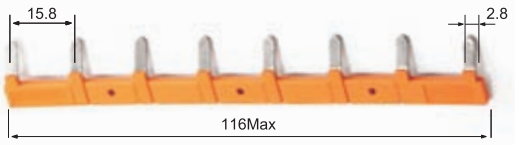
Relay,accessories Selection Table

Socket	Plastic clip	ID tag	Module	Bus jumper
SRU05-E				
SRU08-E	SR20T	SR2P	AMD	SR08B

Dimensions (mm)



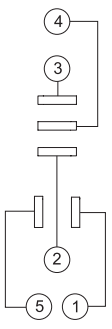
SRU05-E SRU08-E



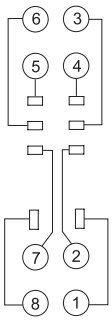
Bus jumper SR08B

Connection Diagrams

①⑤ : A1 A2
② : NC
③ : NO
④ : COM



SRT05-E



SRT08-E

①⑧ : A1 A2
②⑦ : NC
④⑤ : NO
③⑥ : COM

SRU05/08-ST

RFT Socket

Characteristics

SRU05-ST

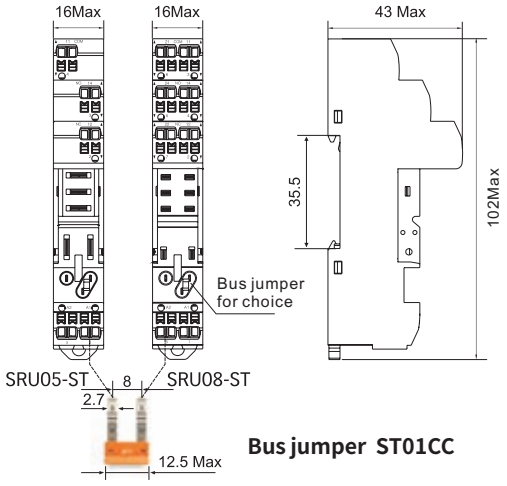
SRU08-ST

Type			SRU05-ST	SRU08-ST
Nominal load	Current	A	16	10
	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		℃	-40~+85	
Unit weight		g	35	43

Relay,accessories Selection Table

Socket	Plastic clip	ID tag	Module	Bus jumper
SRU05-ST				
SRU08-ST	SR20T	SR2P	AMD	ST01CC

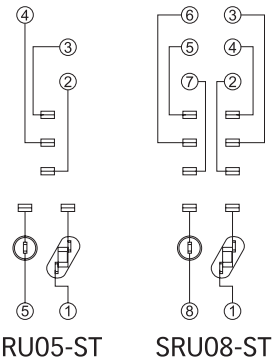
Dimensions (mm)



Bus jumper ST01CC

Connection Diagrams

①⑤ : A1 A2
② : NC
③ : NO
④ : COM



SRU05-ST SRU08-ST

①⑧ : A1 A2
②⑦ : NC
④⑤ : NO
③⑥ : COM

SRT05/08-P

RFT Socket

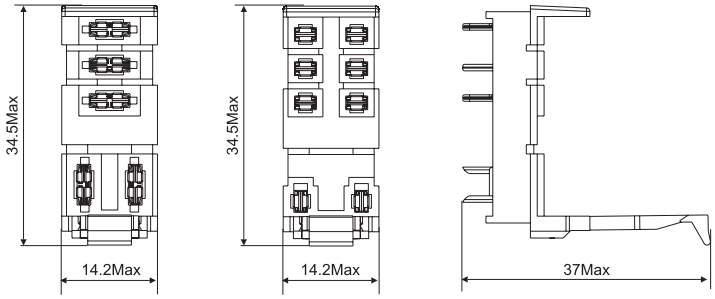
Characteristics

SRT05-P

SRT08-P

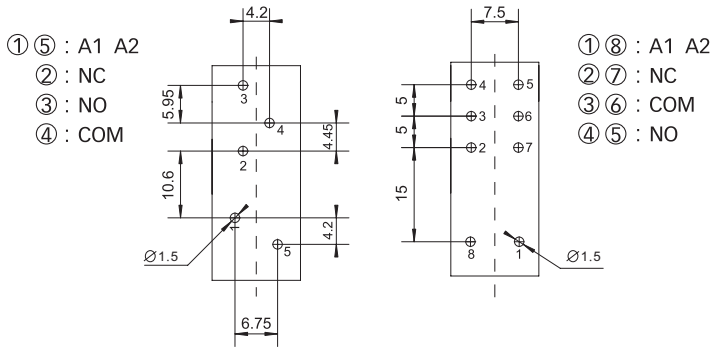
Type			SRT05-P	SRT08-P
Nominal load	Current	A	8	10
	Voltage	V	300	
Dielectric strength	Between coil and contact	V/min	4000	
	Between contacts	V/min	2500	
Ambient temperature		℃	-40~+85	
Unit weight		g	4	

Dimensions (mm)



SRT05-P SRT08-P

Connection Diagrams

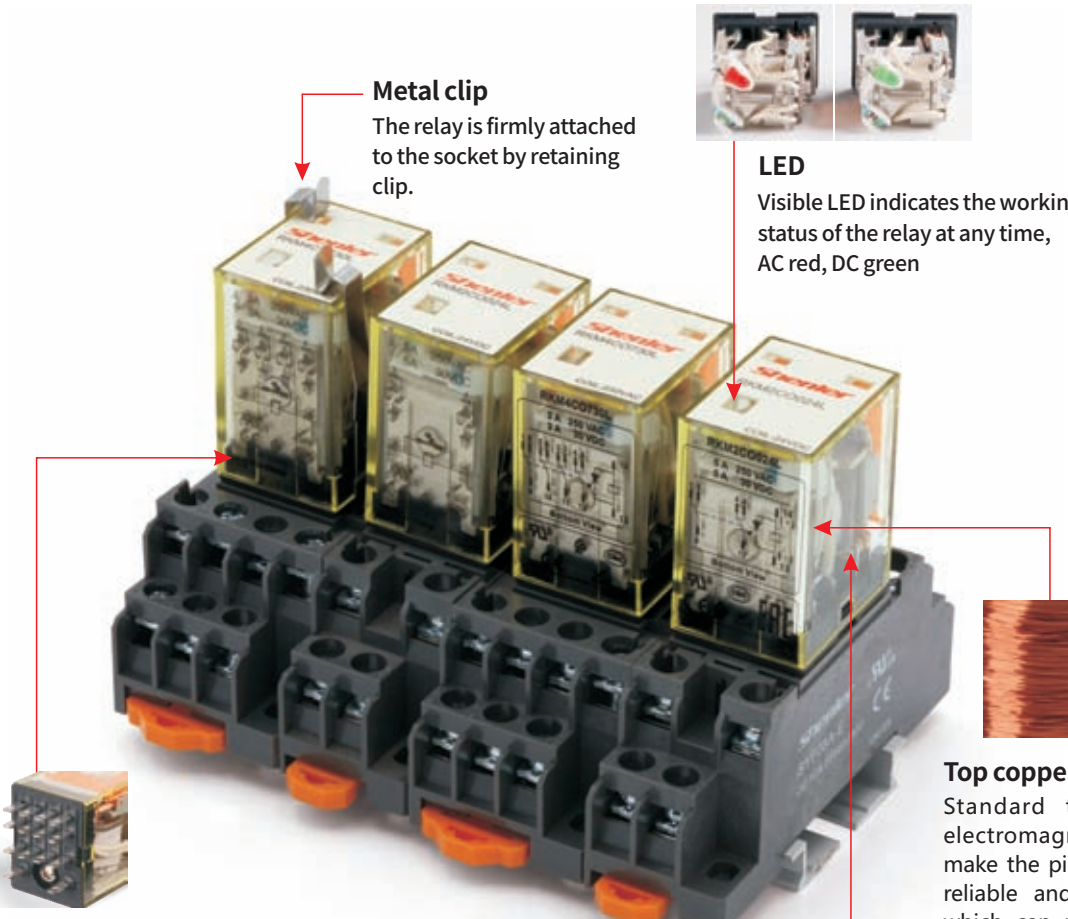


SRT05-P Bottom view SRT08-P Bottom view

RKM

Miniature General
Purpose Relay

- 2 pole 5A,4 pole 3A
- With LED integrated in relay
- With inspection window
- Shenler industrial relays are widely used in the output signal and safety drive of PLC, CNC system, robot, intelligent manufacturing and other control systems. It is the best choice to realize remote control, production and processing, packaging, transportation, testing, storage and other equipment and automatic assembly lines.



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

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

Top copper coil material
Standard turns and electromagnetic coils make the pick-up more reliable and enduring, which can reach more than 20 million cycles.

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.

RKM

Miniature General Purpose Relay

Relay

+

Socket

=

Relay module

RKM □ □ □ □

Other options
L: LED
LD: LED + Test button (13-,14+)

Coil voltage code

Code	006	012	024	048	110	220	
Voltage (V DC)	6	12	24	48	110	220	
Code	506	524	536	548	615	730	880
Voltage (V AC)	6	24	36	48	115	230	380

Mount options
O: plug in

Contact form
2C: 2CO
3C: 3CO
4C: 4CO

Series name

Characteristics

Contact	Configuration		2C/3C	4C
	Load	Resistance	5A/250VAC, 30VDC	3A/250VAC, 30VDC
		Motor load	1/3HP, 240VAC	1/6HP, 240VAC
	Max. switching capacity (resistive)		1250VA, 150W	750VA, 90W
	Min. switching capacity		170mW(17V/10mA)	
	Initial contact resistance		≤50mΩ	
	Material		Ag alloy	
	Electrical durability		≥10 x 10^4Cycles (1800 Ops/h)	
	Mechanical durability		≥2000 x 10^4Cycles (18000 Ops/h)	
Pick-up voltage (23℃) (Rated voltage)			DC:≤75%, AC:≤80% 50/60Hz	
Drop-out voltage (23℃) (Rated voltage)			DC:≥10%, AC:≥30% 50/60Hz	
Maximum voltage (23℃) (Rated voltage)			110%	
Insulation resistance			≥500MΩ (500VDC)	
Coil operating power	DC(W)		approx. 0.9	
	AC(VA)		approx. 1.2	
Operate time&Release time (at nominal voltage)			≤20ms	
Initial breakdown voltage	Between open contacts		1000VAC/1min (leakage current 1mA)	
	Between poles		2000VAC/1min (leakage current 1mA)	
	Between contacts and coil		4000VAC/1min (leakage current 1mA)	
Insulation characteristics IEC 60664 UL840	Rated voltage		250VAC	
	Pollution level		3	2
	Overvoltage level		III	II
Impulse withstand voltage (waveform: 1.2/50us)			4000V	
Protection level			IP50	
Storage temperature/ humidity			-55~+85℃/ ≤85%RH (18 months)	
Working temperature/ humidity			-55~+70℃/ 5%~85%RH (No condensation) ★	
Air pressure			86~106KPa	
Shock resistance			10G (half-sine shock pulse: 11ms)	
Vibration resistance			10~55Hz double-amplitude:1.0mm	
Mounting			plug in	
Unit weight			approx. 35g	

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

RKM

Miniature General
Purpose Relay

Coil Specifications (23°C)

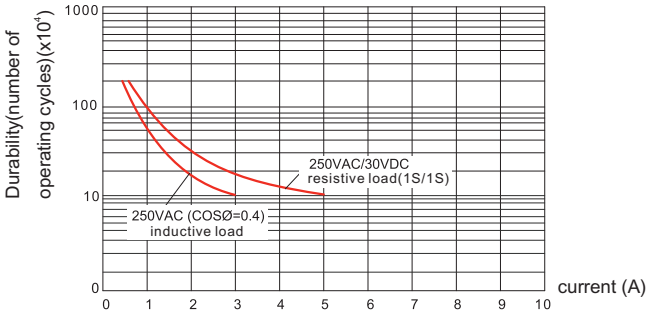
Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	11.5	180	370	640	4430	16500	42000

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

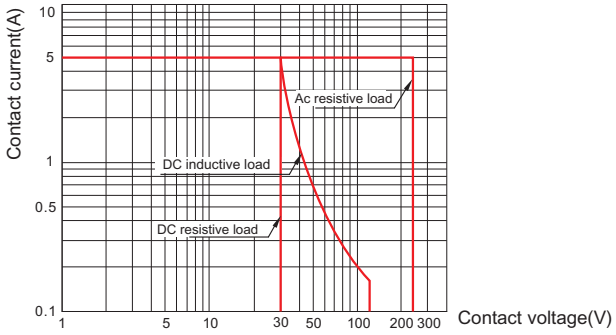
Contact Specification

RKM2CO

Electrical durability contacts

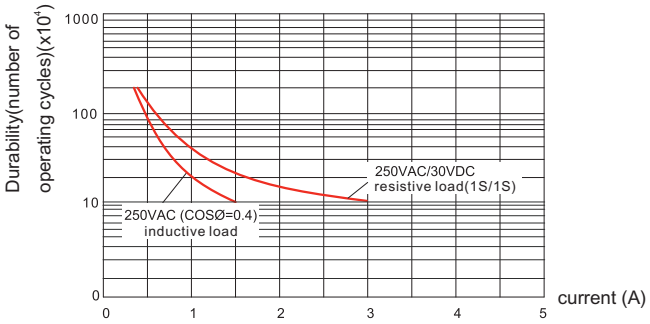


Maximum switching capacity

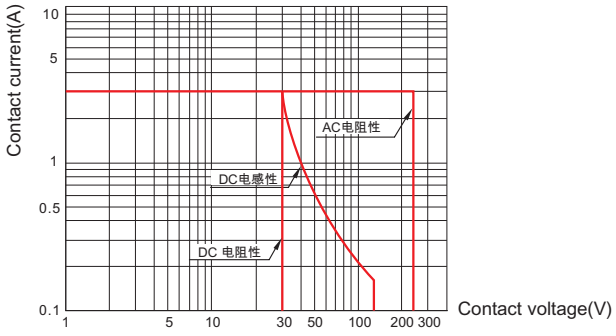


RKM4CO

Electrical durability contacts



Maximum switching capacity

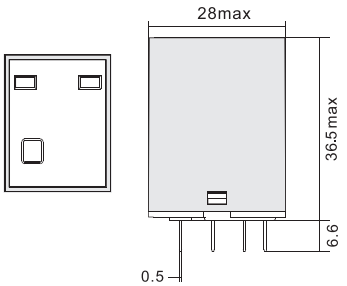


RKM

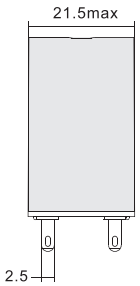
Miniature General
Purpose Relay

Dimensions (mm)

RKM2CO/3CO/4CO



RKM2CO



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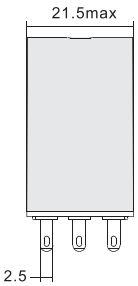

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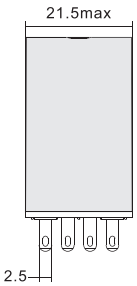
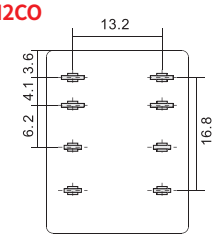
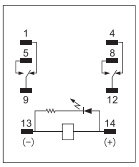


Wiring Diagrams

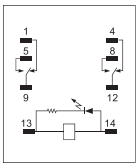
RKM2CO



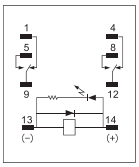
DC



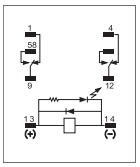
AC



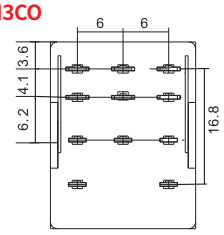
DC-D



DC-D1



RKM3CO



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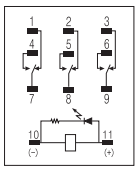
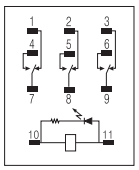
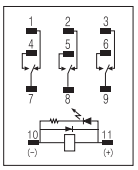


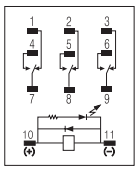
AC



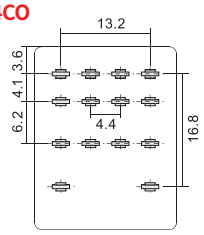
DC-D



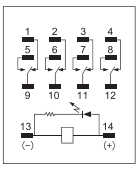
DC-D1



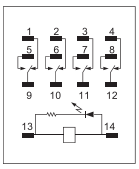
RKM4CO



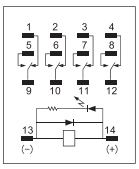
DC



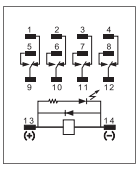
AC



DC-D



DC-D1



SYF08A-E & SYF11A-E & SYF14A-E RKM Socket

Characteristics

SYF08A-E

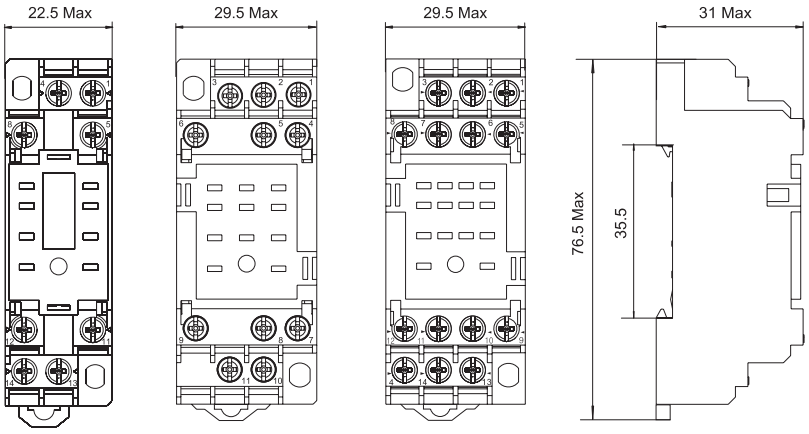
SYF14A-E

Type			SYF08A-E	SYF11A-E	SYF14A-E
Nominal load	Current	A	10	7	7
	Voltage	V	300		
Dielectric strength		V/min	2000		
Max. tightening torque		Nm	1.0		
Wire size		AWG/mm²	20-16/0.5-1.5		
Ambient temperature		℃	-40~+85		
Unit weight		g	36	56	57

Relay,accessories Selection Table

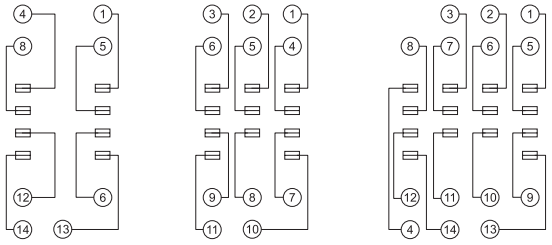
Socket	Metal clip
SYF08A-E	
SYF11A-E	
SYF14A-E	SY36S

Dimensions (mm)



SYF08A-E SYF11A-E SYF14A-E

Connection Diagrams



SYF08A-E

⑭⑬ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SYF11A-E

⑩⑪ : A1 A2
①②③ : NC
④⑤⑥ : NO
⑦⑧⑨ : COM

SYF14A-E

⑭⑬ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SYF08A & SYF11A & SYF14A RKM Socket

Characteristics

SYF08A

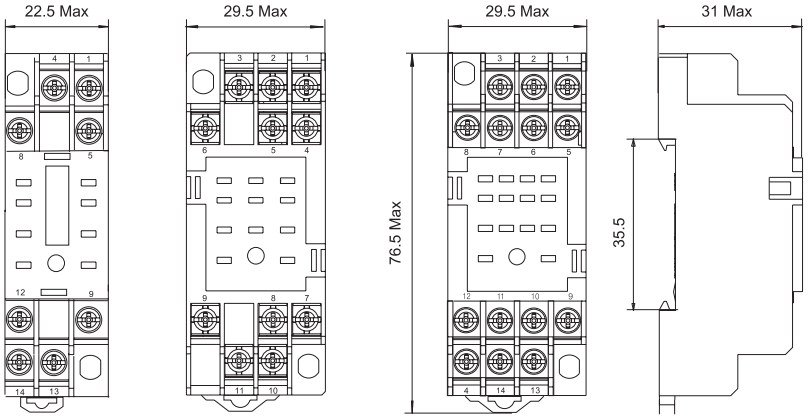
SYF14A

Type			SYF08A	SYF11A	SYF14A
Nominal load	Current	A	10	7	7
	Voltage	V	300		
Dielectric strength		V/min	2000		
Max. tightening torque		Nm	1.0		
Wire size		AWG/mm²	20-16/0.5-1.5		
Ambient temperature		℃	-40~+85		
Unit weight		g	34	47	56

Relay,accessories Selection Table

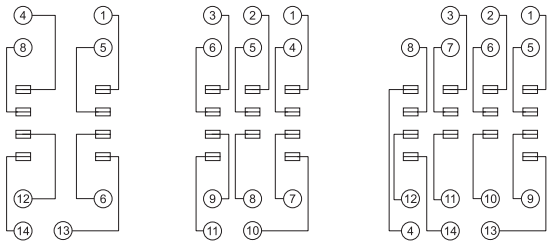
Socket	Metal clip
SYF08A	
SYF11A	
SYF14A	SY36S

Dimensions (mm)



SYF08A SYF11A SYF14A

Connection Diagrams



SYF08A

⑭⑬ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SYF11A

⑩⑪ : A1 A2
①②③ : NC
④⑤⑥ : NO
⑦⑧⑨ : COM

SYF14A

⑭⑬ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

RKE

Miniature General
Purpose Relay

- 2 pole 7A; 4 pole 5A
- 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

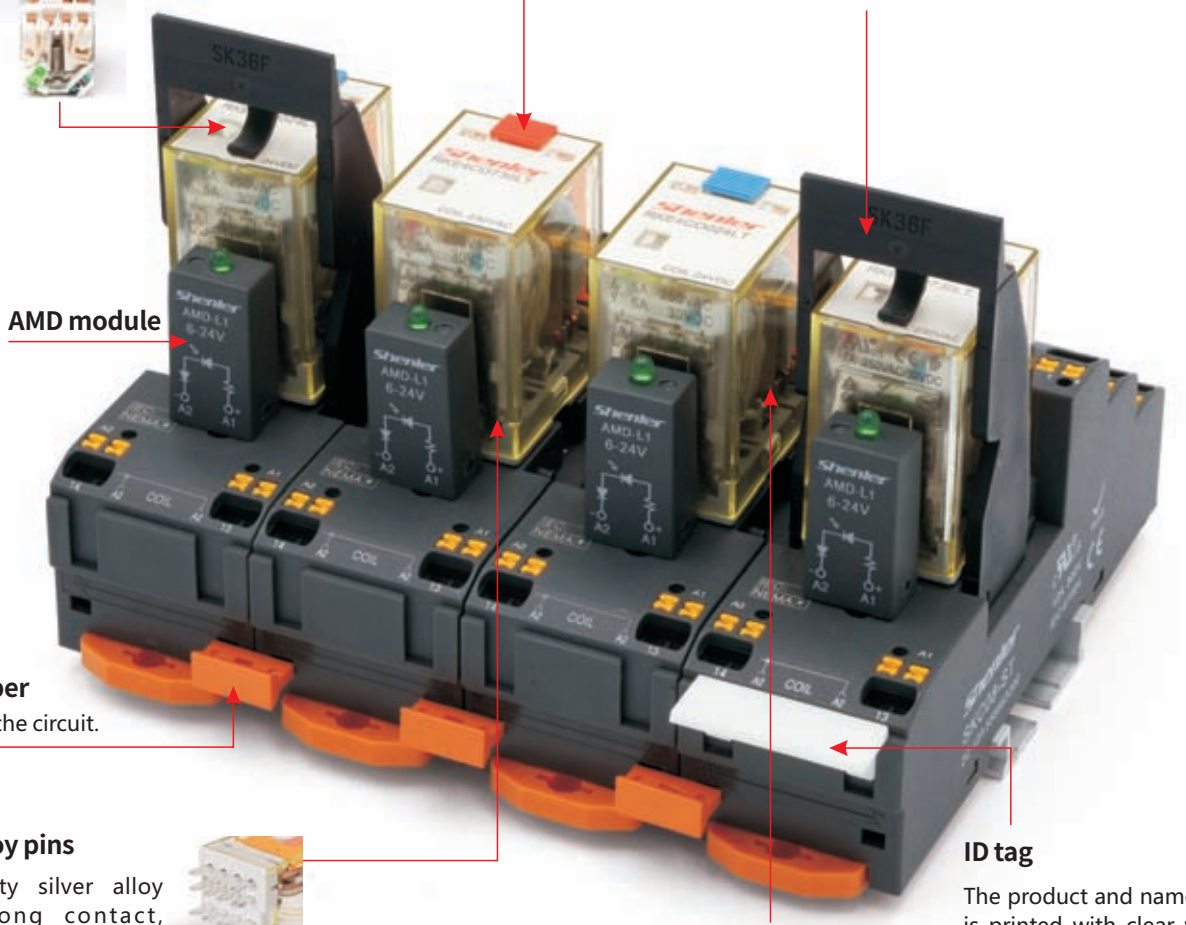
Visible LED indicates the working status of the relay at any time, AC red, DC green

Test button

On-site test is available with test button.

Plastic clip

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



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.

ID tag

The product and nameplate is printed with clear wiring instruction.

Selection manual of industrial control relay

RKE

Miniature General Purpose Relay

Relay

+

Socket

=

Relay module

RKE □ □ □ □

Other options
LT: LED + test button
LTD: LED + test button + diode (13-,14+)
LTD1: LED + Test button + diode (13+,14-)
A:gold plated contact

Coil voltage code

Code	006	012	024	048	110	220	
Voltage (V DC)	6	12	24	48	110	220	
Code	506	524	536	548	615	730	880
Voltage (V AC)	6	24	36	48	115	230	380

Terminal arrangement
O: plug in

Contact form
2C: 2CO
4C: 4CO

Series name

Characteristics

Contact	Configuration		2C	4C
	Load	Resistance	7A/250VAC, 30VDC	5A/250VAC, 30VDC
		Motor load	1/6HP, 240VAC	
	Max. switching capacity (resistive)		1750VA, 210W	1250VA, 150W
	Min. switching capacity		170mW(17V/10mA)	
	Initial contact resistance		≤50mΩ	
	Material		Ag alloy	
	Electric durability(110%rated voltage, 55℃)		≥20 x 10^4Cycles (1800 Ops/h)	
	Electric durability (Normal temperature)		≥40x 10^4Cycles (360 Ops/h)	
	Mechanical durability		≥2000 x 10^4Cycles (18000 Ops/h)	
Pick-up voltage (23℃) (Rated voltage)			DC:≤75%, AC:≤80% 50/60Hz	
Drop-out voltage (23℃) (Rated voltage)			DC:≥10%, AC:≥30% 50/60Hz	
Maximum voltage (23℃) (Rated voltage)			110%	
Insulation resistance			≥500MΩ (500VDC)	
Coil operating power	DC(W)		approx. 0.9	
	AC(VA)		approx. 1.2	
Operate time&Release time (at nominal voltage)			≤20ms	
Initial breakdown voltage	Between open contacts		1000VAC/1min (leakage current 1mA)	
	Between poles		2000VAC/1min (leakage current 1mA)	
	Between contacts and coil		4000VAC/1min (leakage current 1mA)	
Insulation characteristics IEC 60664 UL840	Rated voltage		250VAC	
	Pollution level		3	
	Overvoltage level		III	
Impulse withstand voltage (waveform: 1.2/50us)			4000V	
Protection level			IP50	
Storage temperature/ humidity			-55~+85℃/ ≤85%RH (18 months)	
Working temperature/ humidity			-55~+70℃/ 5%~85%RH (No condensation) ★	
Air pressure			86~106KPa	
Shock resistance			10G (half-sine shock pulse: 11ms)	
Vibration resistance			10~55Hz double-amplitude:1.0mm	
Mounting			plug in	
Unit weight			approx. 35g	

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

RKE

Miniature General
Purpose Relay

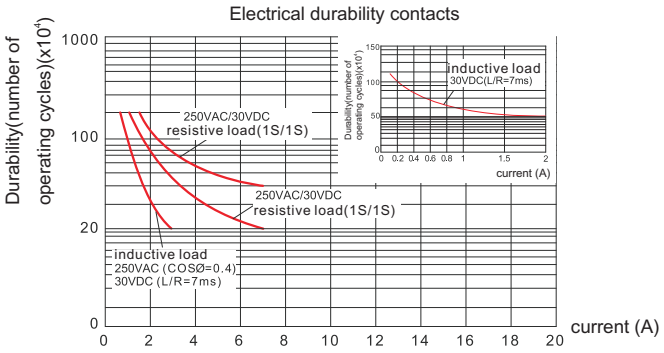
Coil Specifications (23°C)

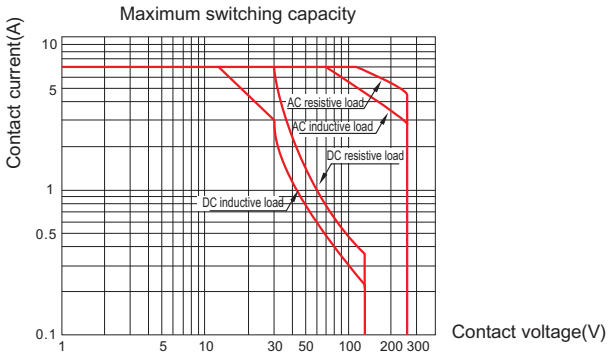
Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	11.5	180	370	640	4430	16500	42000

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

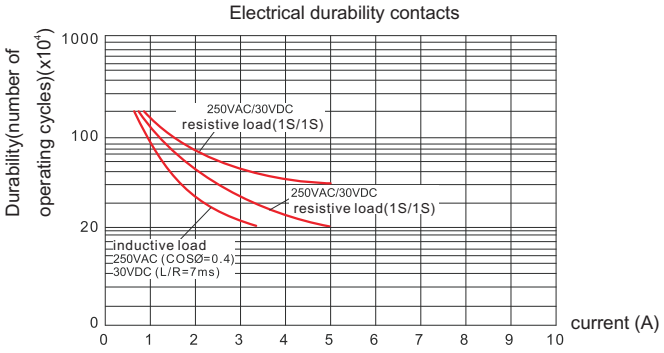
Contact Specification

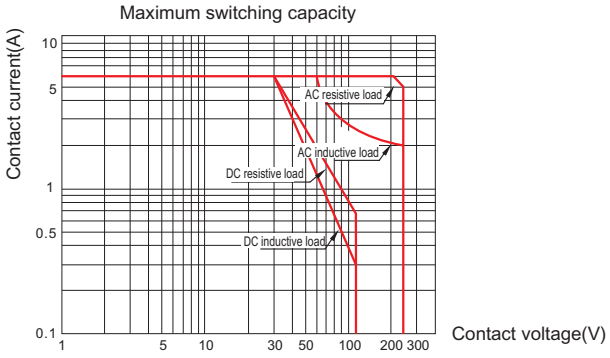
RKE2CO





RKE4CO



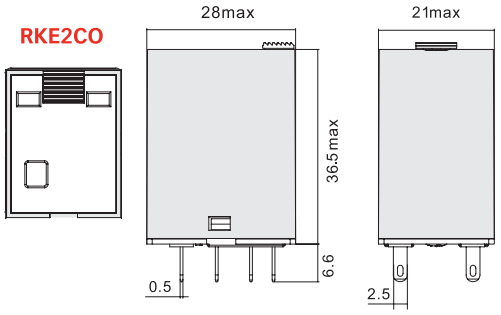


RKE

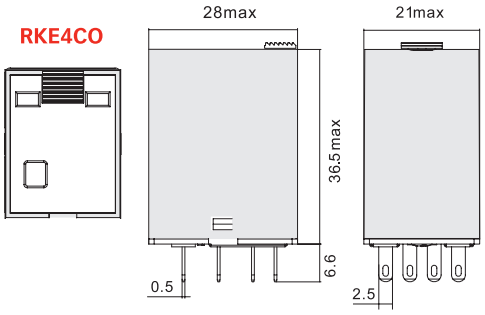
Miniature General
Purpose Relay

Dimensions (mm)

RKE2CO

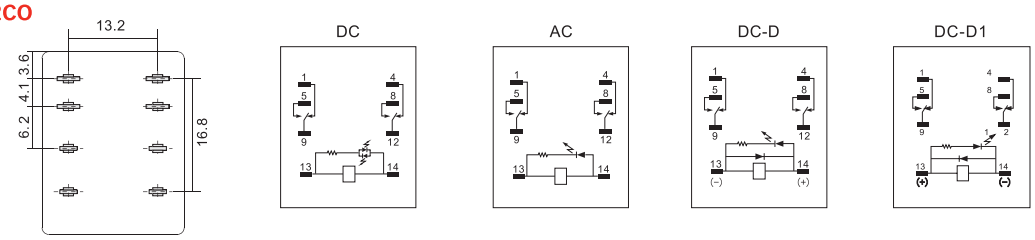


RKE4CO

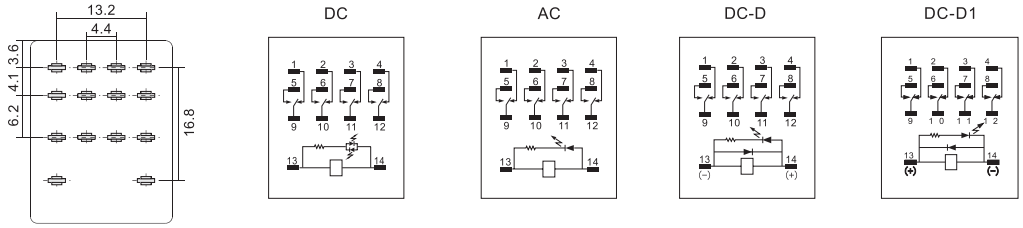


Wiring Diagrams

RKE2CO



RKE4CO



RKE-LS

Sealed Power Relay

Relay

+

Socket

=

Relay module

RKE □ □ □ □

- Other options
  - LS: LED + Sealed
  - LSA: LED + Sealed + Signal Control
- Coil voltage code

Code	006	012	024	048	110	220	
Voltage (V DC)	6	12	24	48	110	220	
Code	506	524	536	548	615	730	880
Voltage (V AC)	6	24	36	48	115	230	380

- Terminal arrangement
  - O: plug in
- Contact form
  - 2C: 2CO
  - 4C: 4CO
- Series name

Humidity proof

Dust proof

Oil proof

IP62

Protection level

- Good performance in bad working condition, especially in much oil, dust, humidity places
- IP62
- 2 pole 7A; 4 pole 5A
- With non-polarity LED integrated in relay
- Conformity with RoHs Directive

Characteristics

Contact	Configuration		2C	4C
	Load	Resistance	7A/250VAC, 30VDC	5A/250VAC, 30VDC
		Motor load	1/6HP, 240VAC	
	Max. switching capacity (resistive)		1750VA, 210W	1250VA, 150W
	Min. switching capacity		170mW(17V/10mA)	
	Initial contact resistance		≤50mΩ	
	Material		Ag alloy	
	Electric durability(110%rated voltage, 55℃)		≥20 x 10^4Cycles (1800 Ops/h)	
	Electric durability (Normal temperature)		≥40 x 10^4Cycles (360 Ops/h)	
	Mechanical durability		≥2000 x 10^4Cycles (18000 Ops/h)	
Pick-up voltage (23℃) (Rated voltage)			DC:≤75%, AC:≤80% 50/60Hz	
Drop-out voltage (23℃) (Rated voltage)			DC:≥10%, AC:≥30% 50/60Hz	
Maximum voltage (23℃) (Rated voltage)			110%	
Insulation resistance			≥500MΩ (500VDC)	
Coil operating power	DC(W)		approx. 0.9	
	AC(VA)		approx. 1.2	
Operate time&Release time (at nominal voltage)			≤20ms	
Initial breakdown voltage	Between open contacts		1000VAC/1min (leakage current 1mA)	
	Between poles		2000VAC/1min (leakage current 1mA)	
	Between contacts and coil		4000VAC/1min (leakage current 1mA)	
Insulation characteristics IEC 60664 UL840	Rated voltage		250VAC	
	Pollution level		3	
	Overvoltage level		III	
Impulse withstand voltage (waveform: 1.2/50us)			4000V	
Protection level			IP62	
Storage temperature/ humidity			-55~+85℃/ ≤85%RH (18 months)	
Working temperature/ humidity			-55~+70℃/ 5%~85%RH (No condensation) ★	
Air pressure			86~106KPa	
Shock resistance			10G (half-sine shock pulse: 11ms)	
Vibration resistance			10~55Hz double-amplitude:1.0mm	
Mounting			plug in	
Unit weight			approx. 35g	

RKE-LS

Sealed Power Relay

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

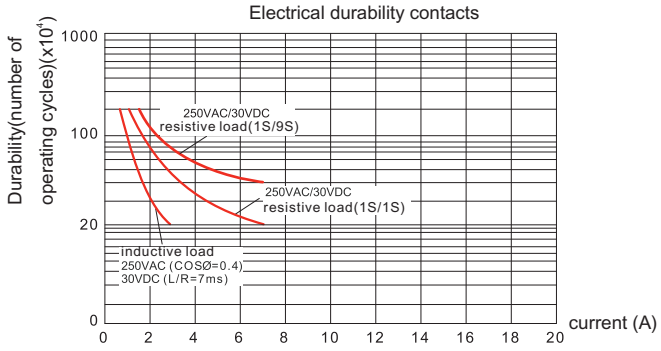
Coil Specifications (23°C)

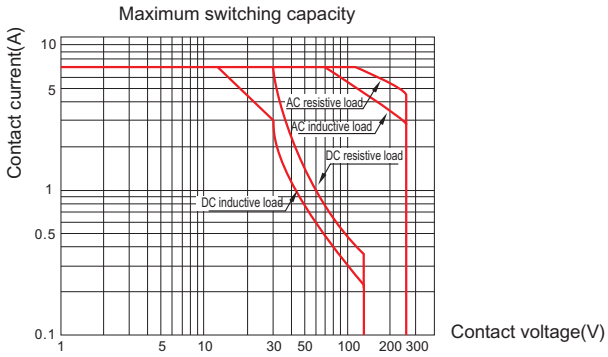
Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	11.5	180	370	640	4430	16500	42000

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

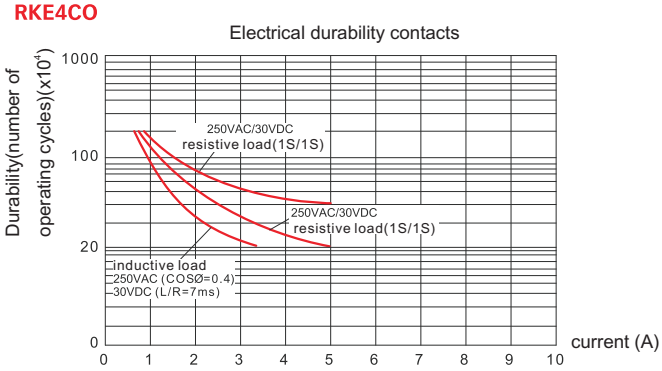
Contact Specification

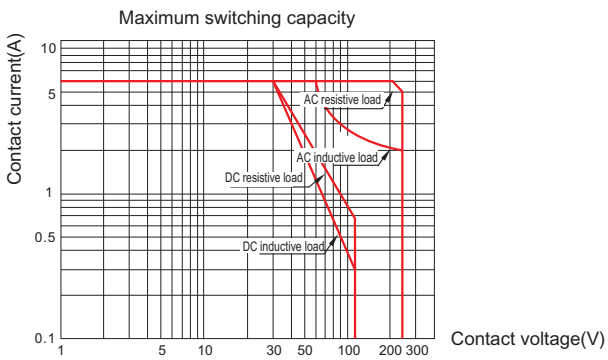
RKE2CO-LS





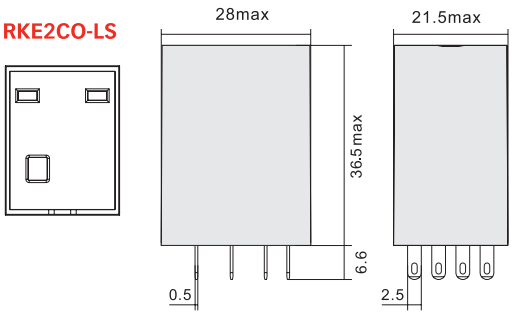
RKE4CO



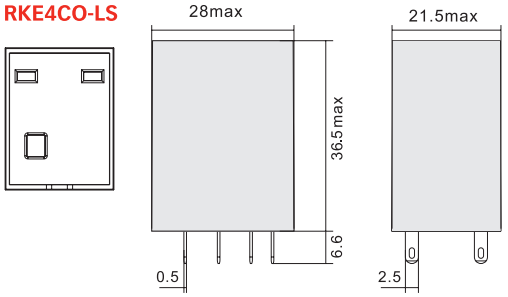


Dimensions (mm)

RKE2CO-LS



RKE4CO-LS



SYF08A-E & SYF11A-E & SYF14A-E RKE Socket

Characteristics

SYF08A-E

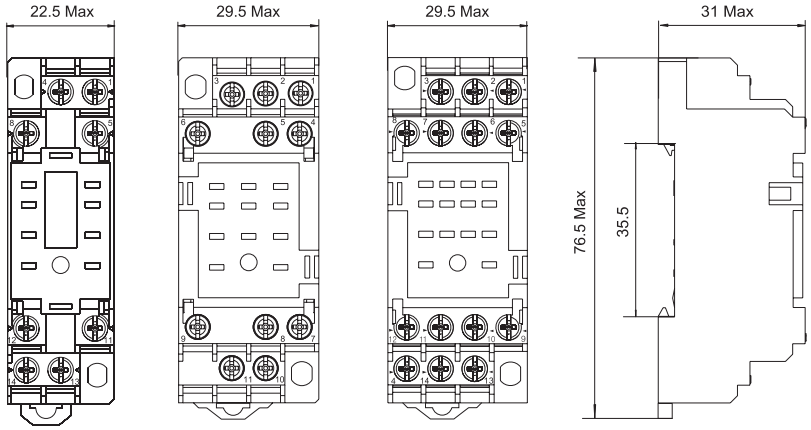
SYF14A-E

Type			SYF08A-E	SYF11A-E	SYF14A-E
Nominal load	Current	A	10	7	7
	Voltage	V	300		
Dielectric strength		V/min	2000		
Max. tightening torque		Nm	1.0		
Wire size		AWG/mm²	20-16/0.5-1.5		
Ambient temperature		℃	-40~+85		
Unit weight		g	36	56	57

Relay,accessories Selection Table

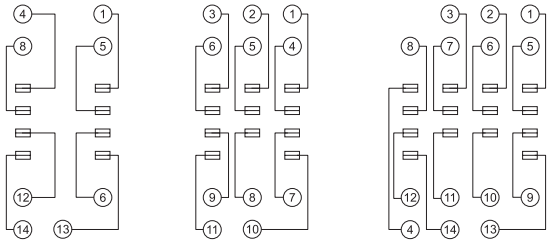
Socket	Metal clip
SYF08A-E	
SYF11A-E	
SYF14A-E	SY36S

Dimensions (mm)



SYF08A-E SYF11A-E SYF14A-E

Connection Diagrams



SYF08A-E

⑭⑬ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SYF11A-E

⑩⑪ : A1 A2
①②③ : NC
④⑤⑥ : NO
⑦⑧⑨ : COM

SYF14A-E

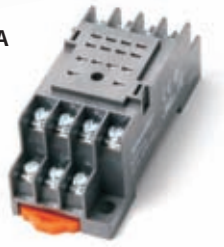
⑭⑬ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SYF08A & SYF11A & SYF08A RKE Socket

Characteristics

SYF08A

SYF14A

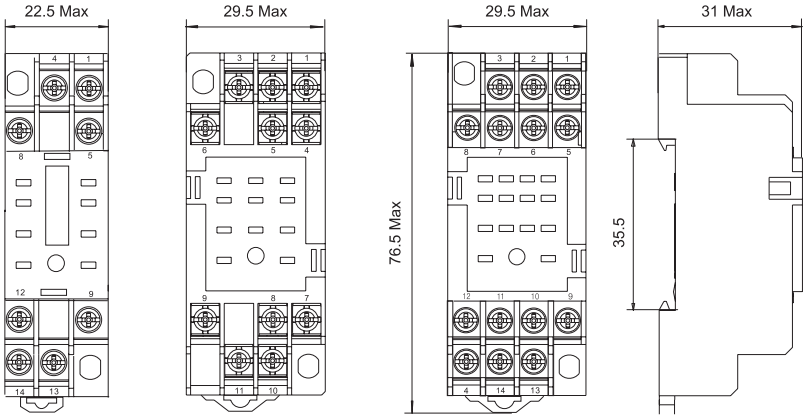


Type			SYF08A	SYF11A	SYF14A
Nominal load	Current	A	10	7	7
	Voltage	V	300		
Dielectric strength		V/min	2000		
Max. tightening torque		Nm	1.0		
Wire size		AWG/mm²	20-16/0.5-1.5		
Ambient temperature		℃	-40~+85		
Unit weight		g	34	47	56

Relay,accessories Selection Table

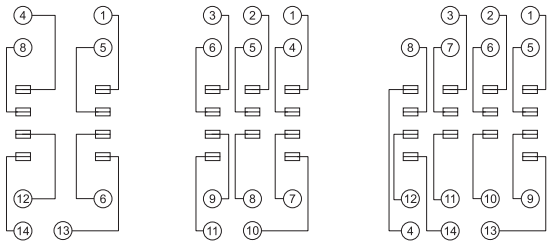
Socket	Metal clip
SYF08A	
SYF11A	
SYF14A	SY36S

Dimensions (mm)



SYF08A SYF11A SYF14A

Connection Diagrams



SYF08A

⑭⑬ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SYF11A

⑩⑪ : A1 A2
①②③ : NC
④⑤⑥ : NO
⑦⑧⑨ : COM

SYF14A

⑭⑬ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SKB08-E & SKB14-E

RKE Socket

Characteristics

SKB08-E

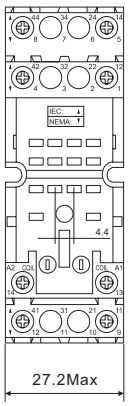
SKB14-E

Type			SKB08-E	SKB14-E
Nominal load	Current	A	12	10
	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/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	50	56

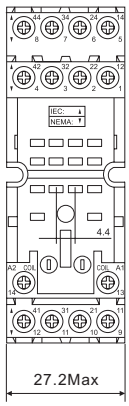
Relay,accessories Selection Table

Socket	Plastic clip	Metal clip	ID tag	Module
SKB08-E				
SKB14-E	SK36F	SK36M	SK4P	AMD

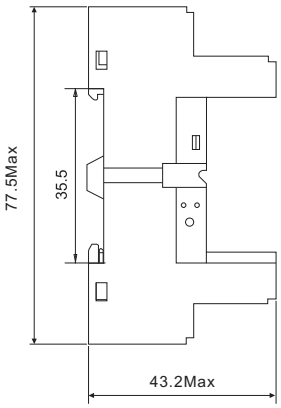
Dimensions (mm)



SKB08-E



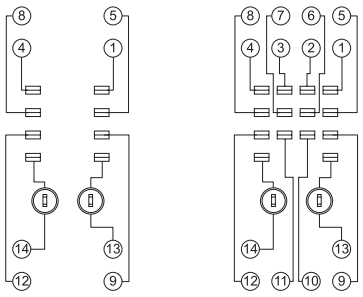
SKB14-E



Connection Diagrams

SKB08-E

⑬ ⑭ : A1 A2
① ④ : NC
⑤ ⑧ : NO
⑨ ⑫ : COM



SKB14-E

⑬ ⑭ : A1 A2
① ② ③ ④ : NC
⑤ ⑥ ⑦ ⑧ : NO
⑨ ⑩ ⑪ ⑫ : COM

SKC08-E & SYF11A & SYF14A RKE Socket

Characteristics

SKC08-E

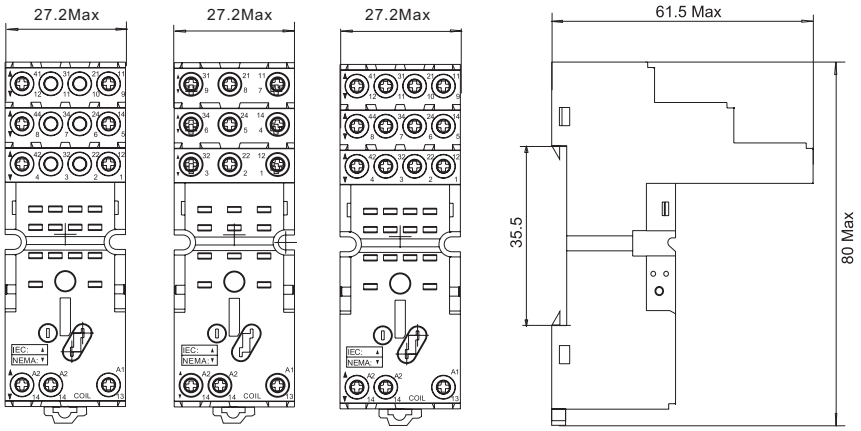
SKC14-E

Type			SKC08-E	SKC11-E	SKC14-E
Nominal load	Current	A	12	10	10
	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/mm²	20-14/0.5-2.5		
Ambient temperature		℃	-40~+85		
Unit weight		g	50	56	62

Relay,accessories Selection Table

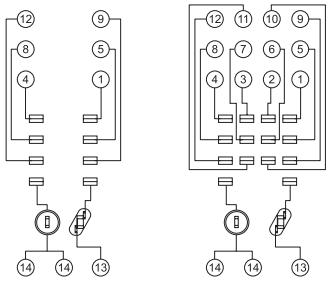
Socket	Plastic clip	Metal clip	ID tag	Module
SKC08-E				
SKC11-E				
SKC14-E	SK36F	SK36M	SK4P	AMD

Dimensions (mm)



SKC08-E SKC11-E SKC14-E

Connection Diagrams



SKC08-E

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SKC14-E

⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SKC08-ST & SKC14-ST

RKE Socket

Characteristics

SKC08-ST

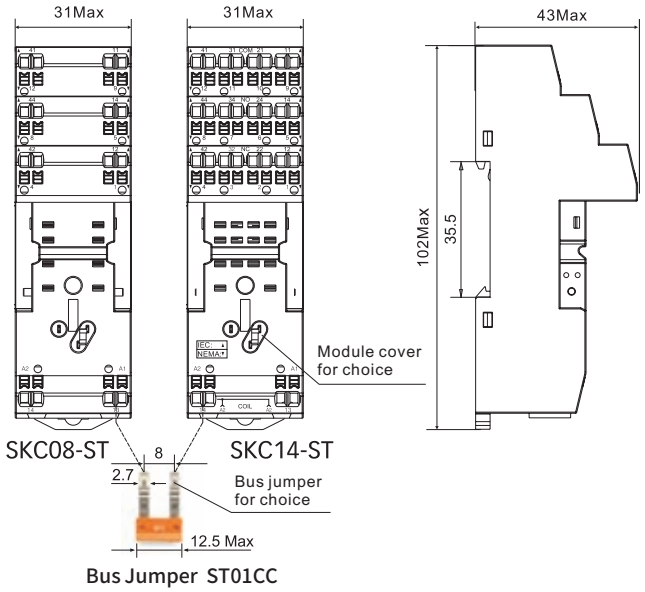
SKC14-ST

Type			SKC08-ST	SKC14-ST
Nominal load	Current	A	12	8
	Voltage	V	300	
Dielectric strength	Between coil and contact	V/min	4000	
	Between contacts	V/min	2500	
Max. tightening torque		Nm	-	
Wire size		AWG/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	80	80

Relay,accessories Selection Table

Socket	Plastic clip	ID tag	Module	Bus Jumper
SKC08-ST				
SKC14-ST	SK36F	SK4P	AMD	ST01CC

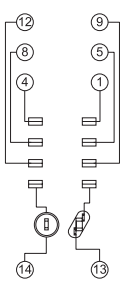
Dimensions (mm)



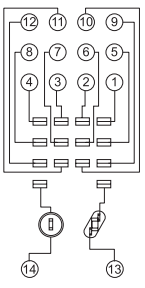
Bus Jumper ST01CC

Connection Diagrams

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM



SKC08-ST



SKC14-ST

⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SKF08-E & SKF14-E

RKE Socket

Characteristics

SKF08-E

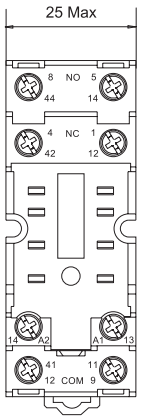
SKF14-E

Type			SKF08-E	SKF14-E
Nominal load	Current	A	12	10
	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/mm²	20-14/0.5-2.5	
Ambient temperature		℃		
Unit weight		g	35	45

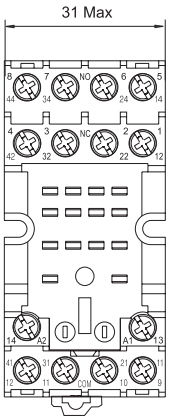
Relay,accessories Selection Table

Socket	Metal clip	ID tag	Module
SKF08-E	 SK36M	SK4P	-
SKF14-E			 AMD

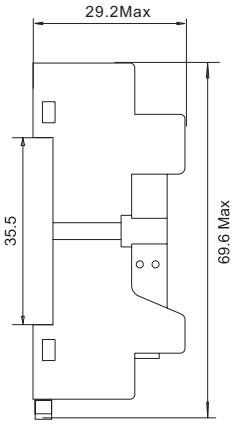
Dimensions (mm)



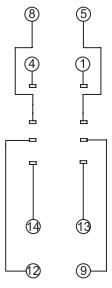
SKF08-E



SKF14-E

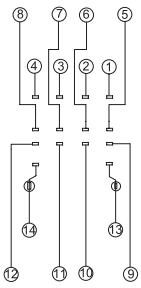


Connection Diagrams



SKF08-E

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM



SKF14-E

⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SKF14-A

RKE Socket

Characteristics

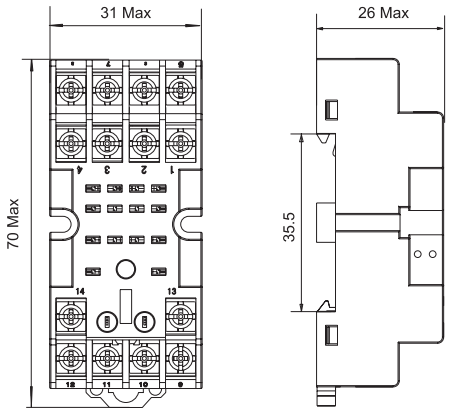
SKF14-A

Type			SKF14–A
Nominal load	Current	A	10
	Voltage	V	300
Dielectric strength		V/min	2500
Max. tightening torque		Nm	1.0
Wire size		AWG/mm²	20-14/0.5-2.5
Ambient temperature		℃	-40~+85
Unit weight		g	42.9

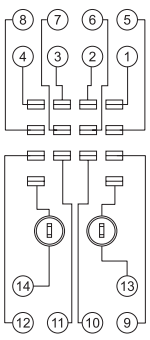
Relay,accessories Selection Table

Socket	Metal clip	ID tag	Module
SKF14–A	 SK36M	SK2P	 AMD

Dimensions (mm)



Connection Diagrams



⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SY08-P & SY14-P

RKE Socket

Characteristics

SY08-P

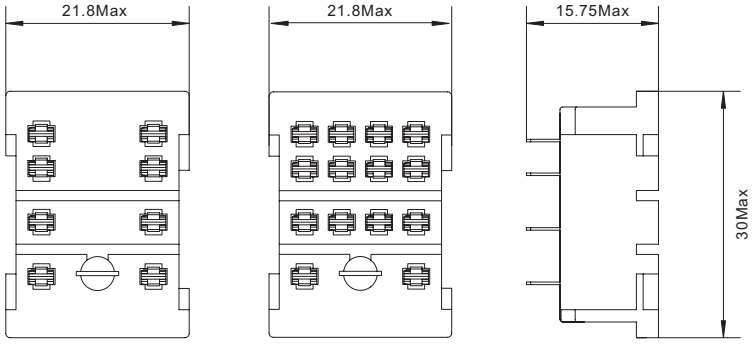
SY14-P

Type			SY08-P	SY14-P
Nominal load	Current	A	10	6
	Voltage	V	300	
Dielectric strength		V/min	2000	
Wire size		AWG/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	7	7

Relay,accessories Selection Table

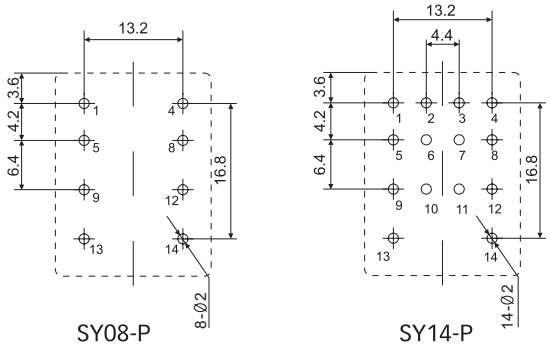
Socket	Metal clip
SY08-P	 SY36M
SY14-P	

Dimensions (mm)



SY08-P SY14-P

Connection Diagrams



SY08-P

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SY14-P

⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

RKF

Miniature General
Purpose Relay

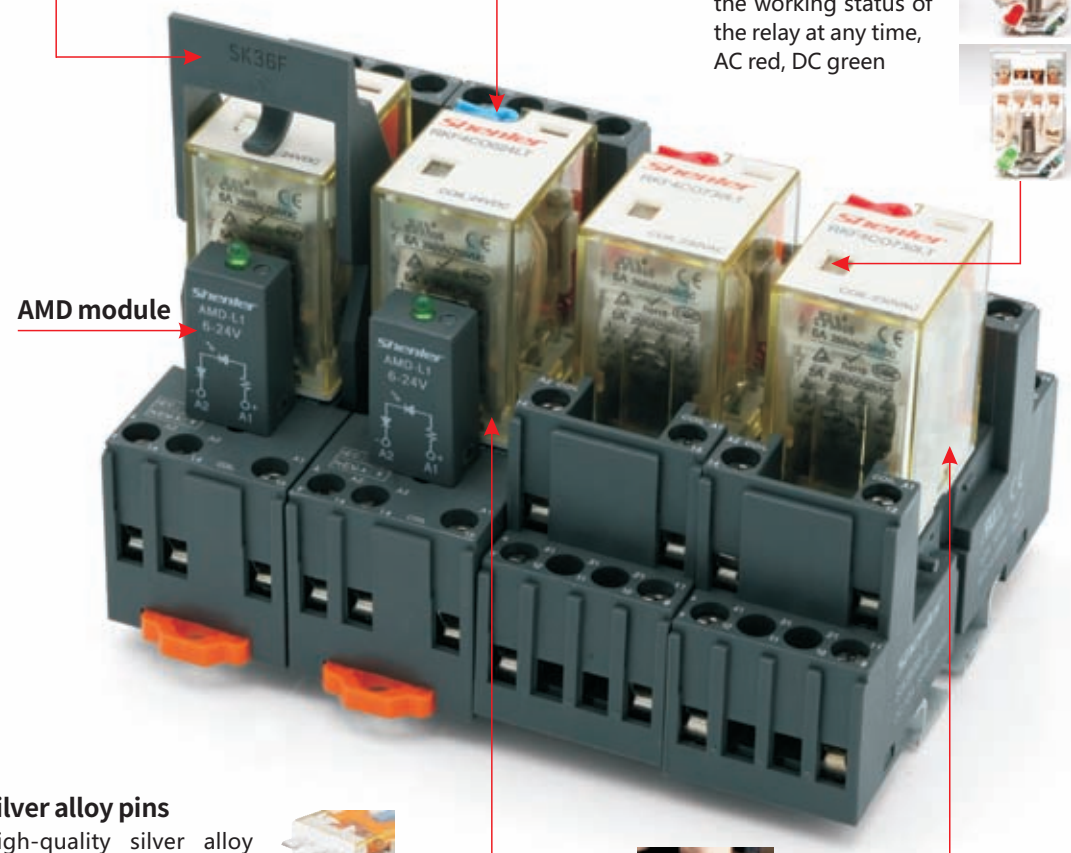
- 2 pole 12A; 4 pole 6A
- With non-polarity LED integrated in relay
- With lockable test button and inspection window
- Identification of coils through test button color (AC red/DC blue)
- Conformity with RoHs Directive
- Gold plated contacts optional

Plastic clip
The relay is firmly attached to the socket by retaining clip.

Test button
On-site test is available with test button.

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

AMD 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.

Selection manual of industrial control relay

RKF

Miniature General Purpose Relay

Relay

+

Socket

=

Relay module

RKF □ □ □ □

Other options
LT: LED + test button
LTD: LED + test button + diode (13-,14+)
LTD1: LED + Test button + diode (13+,14-)
LT A: LED + test button + gold plated contact
LTD A: LED + test button + diode+gold plated contact

Coil voltage code

Code	006	012	024	048	110	220	
Voltage (V DC)	6	12	24	48	110	220	
Code	506	524	536	548	615	730	880
Voltage (V AC)	6	24	36	48	115	230	380

Terminal arrangement
O: plug in

Contact form
2C: 2CO
4C: 4CO

Series name

Characteristics

Contact	Configuration		2C	4C
	Load	Resistance	12A/250VAC, 30VDC	6A/250VAC, 30VDC
		Motor load	1/3HP, 240VAC	1/6HP,240VAC
	Max. switching capacity (resistive)		3000VA, 360W	1500VA, 180W
	Min. switching capacity		170mW(17V/10mA); LTA: 500mW(5V/100mA)	
	Initial contact resistance		≤50mΩ	
	Material		Ag alloy	
	Electric durability(110%rated voltage, 55℃)		≥20 x 10^4Cycles (1800 Ops/h)	
	Electric durability (Normal temperature)		≥40 x 10^4Cycles (360 Ops/h)	
	Mechanical durability		≥2000 x 10^4Cycles (18000 Ops/h)	
Pick-up voltage (23℃) (Rated voltage)			DC:≤75%, AC:≤80% 50/60Hz	
Drop-out voltage (23℃) (Rated voltage)			DC:≥10%, AC:≥30% 50/60Hz	
Maximum voltage (23℃) (Rated voltage)			110%	
Insulation resistance			≥1000MΩ (500VDC)	
Coil operating power		DC(W)	approx. 0.9	
		AC(VA)	approx. 1.2	
Operate time&Release time (at nominal voltage)			≤20ms	
Initial breakdown voltage		Between open contacts	1000VAC/1min (leakage current 1mA)	
		Between poles	2000VAC/1min (leakage current 1mA)	
		Between contacts and coil	4000VAC/1min (leakage current 1mA)	
Insulation characteristics IEC 60664 UL840		Rated voltage	250VAC	
		Pollution level	3	2
		Overvoltage level	III	II
Impulse withstand voltage (waveform: 1.2/50us)			4000V	
Protection level			IP50	
Storage temperature/ humidity			-55~+85℃/ ≤85%RH (18 months)	
Working temperature/ humidity			-55~+70℃/ 5%~85%RH (No condensation) ★	
Air pressure			86~106KPa	
Shock resistance			10G (half-sine shock pulse: 11ms)	
Vibration resistance			10~55Hz double-amplitude:1.0mm	
Mounting			plug in	
Unit weight			approx. 35g	

RKF

Miniature General Purpose Relay

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

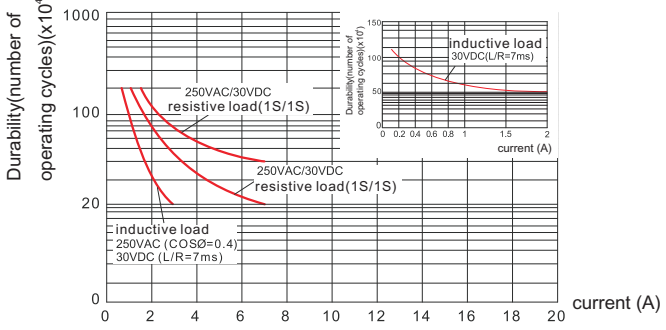
Coil Specifications (23°C)

Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	11.5	180	370	640	4430	16500	42000

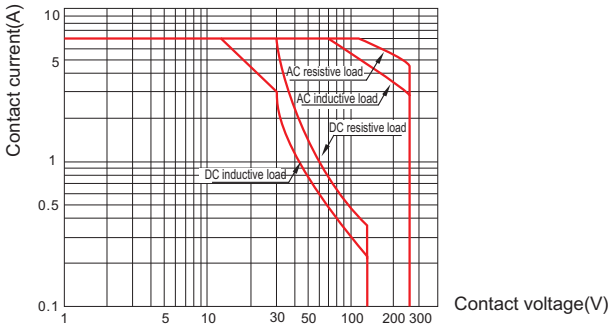
Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

Contact Specification

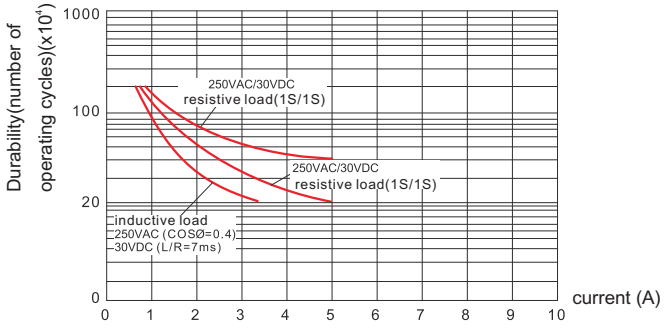
RKE2CO Electrical durability contacts



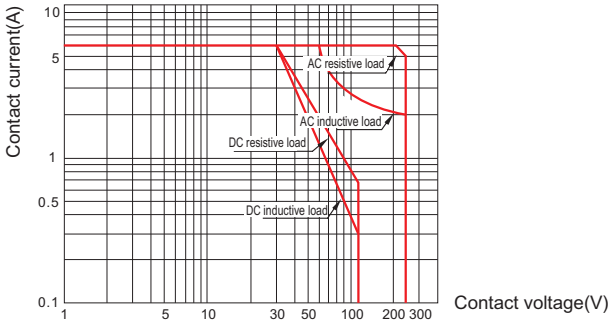
Maximum switching capacity



RKE4CO Electrical durability contacts



Maximum switching capacity

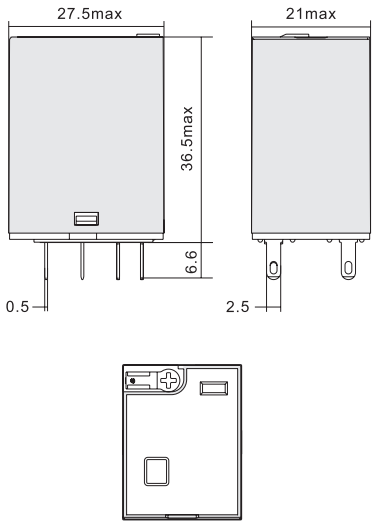


RKF

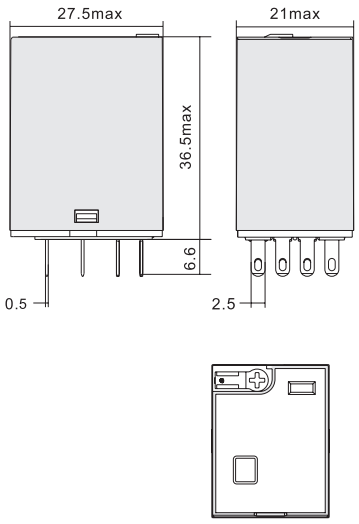
Miniature General
Purpose Relay

Dimensions (mm)

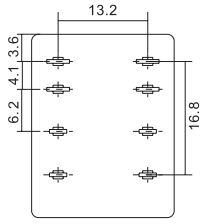
RKF2CO



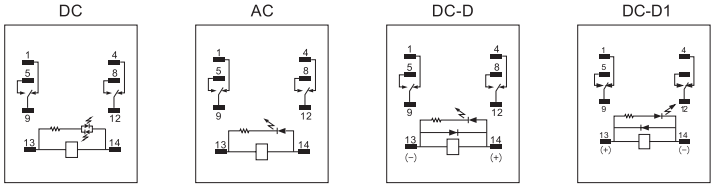
RKF4CO

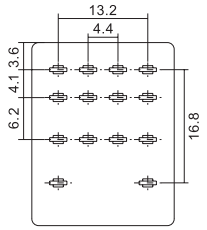


Wiring Diagrams

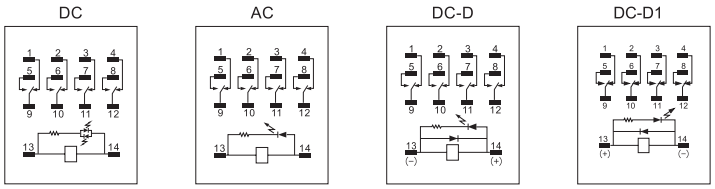


RKF2CO





RKF4CO



SKF08-E & SKF14-E

RKF Socket

Characteristics

SKF08-E

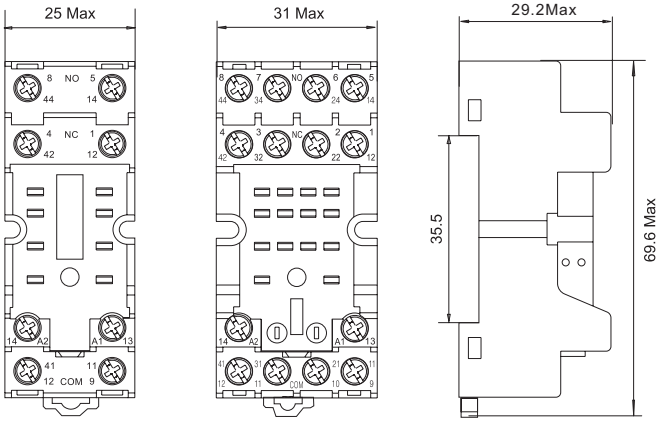
SKF14-E

Type			SKF08-E	SKF14-E
Nominal load	Current	A	12	10
	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/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	35	45

Relay,accessories Selection Table

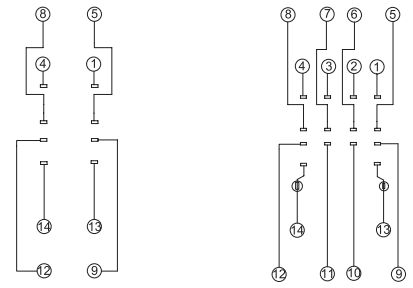
Socket	Metal clip	ID tag	Module
SKF08-E			-
SKF14-E	SK36M	SK4P	AMD

Dimensions (mm)



SKF08-E SKF14-E

Connection Diagrams



SKF08-E

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SKF14-E

⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SKB08-E & SKB14-E

RKF Socket

Characteristics

SKB08-E

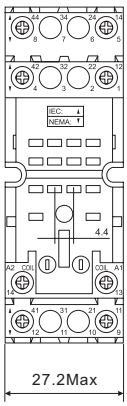
SKB14-E

Type			SKB08-E	SKB14-E
Nominal load	Current	A	12	10
	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/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	50	56

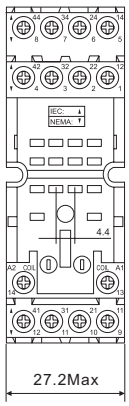
Relay,accessories Selection Table

Socket	Plastic clip	Metal clip	ID tag	Module
SKB08-E				
SKB14-E	SK36F	SK36M	SK4P	AMD

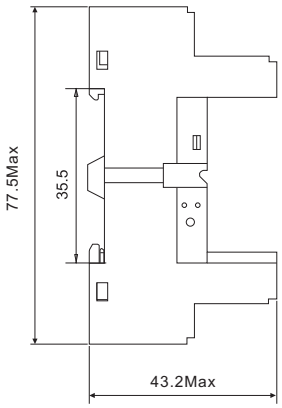
Dimensions (mm)



SKB08-E



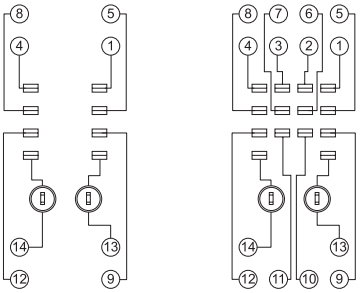
SKB14-E



Connection Diagrams

SKB08-E

⑬ ⑭ : A1 A2
① ④ : NC
⑤ ⑧ : NO
⑨ ⑫ : COM



SKB14-E

⑬ ⑭ : A1 A2
① ② ③ ④ : NC
⑤ ⑥ ⑦ ⑧ : NO
⑨ ⑩ ⑪ ⑫ : COM

SKC08-E & SKC14-E

RKF Socket

Characteristics

SKC08-E

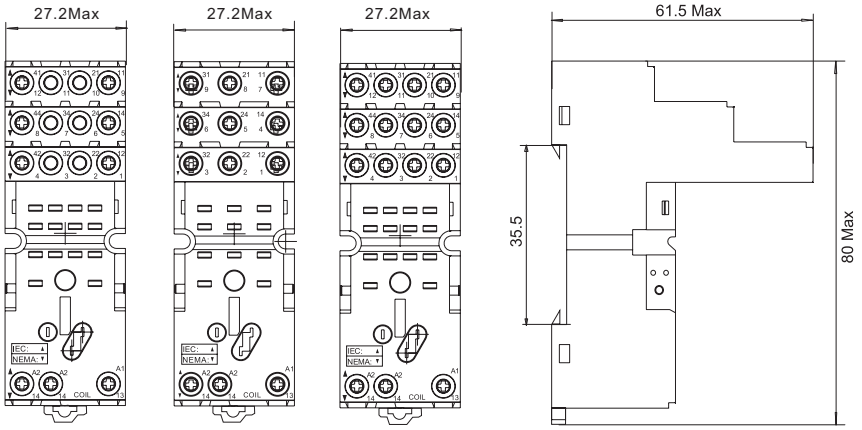
SKC14-E

Type			SKC08-E	SKC11-E	SKC14-E
Nominal load	Current	A	12	10	10
	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/mm²	20-14/0.5-2.5		
Ambient temperature		℃	-40~+85		
Unit weight		g	50	56	62

ay,accessories Selection Table

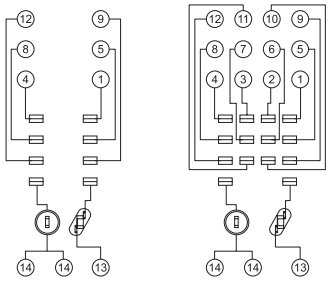
ɔcket	Plastic clip	Metal clip	ID tag	Module
C08-E				
C11-E				
C14-E	SK36F	SK36M	SK4P	AMD

Dimensions (mm)



SKC08-E SKC11-E SKC14-E

Connection Diagrams



SKC08-E

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SKC14-E

⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SKB08-E & SKB14-E

RKF Socket

Characteristics

SKC08-ST

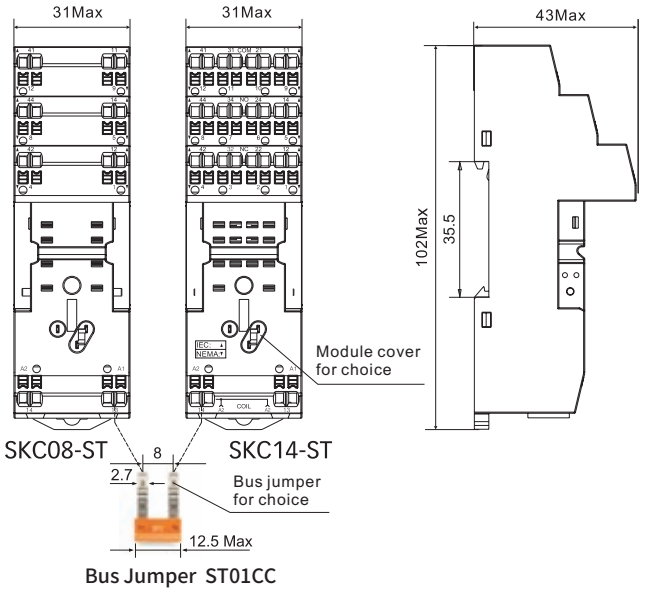
SKC14-ST

Type			SKC08-ST	SKC14-ST
Nominal load	Current	A	12	8
	Voltage	V	300	
Dielectric strength	Between coil and contact	V/min	4000	
	Between contacts	V/min	2500	
Max. tightening torque		Nm	-	
Wire size		AWG/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	80	80

Relay,accessories Selection Table

Socket	Plastic clip	ID tag	Module	Bus Jumper
SKC08-ST				
SKC14-ST	SK36F	SK4P	AMD	ST01CC

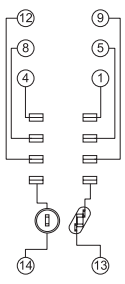
Dimensions (mm)



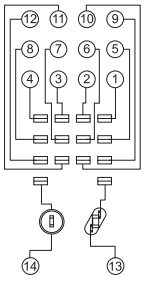
Bus Jumper ST01CC

Connection Diagrams

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM



SKC08-ST



SKC14-ST

⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SY08-P & SY14-P

RKF Socket

Characteristics

SY08-P

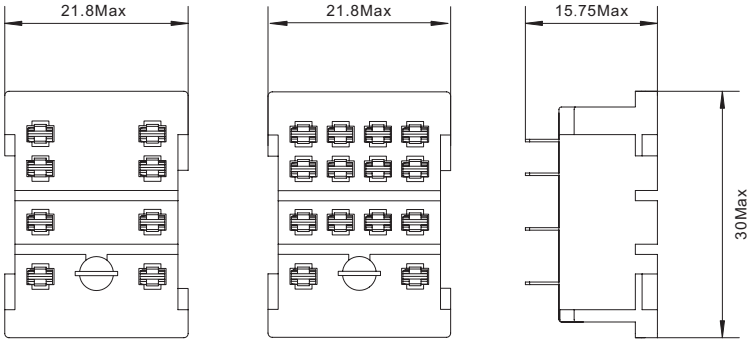
SY14-P

Type			SY08-P	SY14-P
Nominal load	Current	A	10	6
	Voltage	V	300	
Dielectric strength		V/min	2000	
Wire size		AWG/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	7	7

Relay,accessories Selection Table

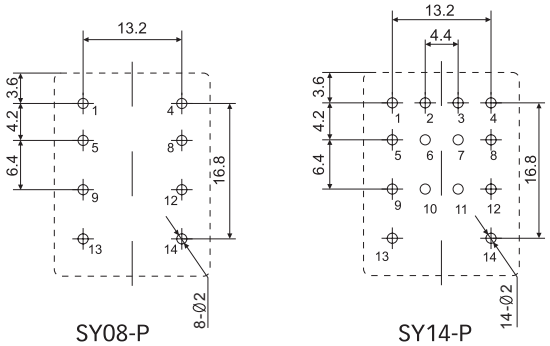
Socket	Metal clip
SY08-P	 36M
SY14-P	

Dimensions (mm)



SY08-P SY14-P

Connection Diagrams



SY08-P

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SY14-P

⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

RKF

Magnetic Blow-out Power Relay

Relay

+

Socket

=

Relay module

RKF □ □ □ □

Other options
LTS: LED + test button+magnet
LTDS: LED + test button +diode (13 - , 14 +) +magnet
LTD1S: LED + test button + diode (13 + , 14 -) +magnet

Coil voltage code

Code	006	012	024	048	110	220	
Voltage (V DC)	6	12	24	48	110	220	
Code	506	524	536	548	615	730	880
Voltage (V AC)	6	24	36	48	115	230	380

Terminal arrangement
O: plug in

Contact form
2C: 2CO

Series name

- Good performance for motor load application.With non-polarity LED,lockable test and inspection window
- Identification of coil through test button color (AC red / DC blue)

Characteristics

Contact	Configuration		2C
	Load	Resistance	15A/250VAC 30VDC (NO:15A, NC:7.5A); 10A 60VDC
		Motor load	1/3HP, 240VAC
	Switching capacity (resistive)		3750VA, 600W
	Switching capacity (perceptual)		2500VA, 90W
	Min. switching capacity		170mW(17V/10mA)
	Initial contact resistance		≤50mΩ
	Material		Ag alloy
	Electric durability(110%rated voltage, 55℃)		≥10 x 10^4Cycles NO:15A, NC:7.5A); ≥20 x 10^4 Cycles (NO/NC:12A)
	Mechanical durability		≥2000 x 10^4Cycles (18000 Ops/h)
Pick-up voltage (23℃) (Rated voltage)			DC:≤75%, AC:≤80% 50/60Hz
Drop-out voltage (23℃) (Rated voltage)			DC:≥10%, AC:≥30% 50/60Hz
Maximum voltage (23℃) (Rated voltage)			110%
Insulation resistance			≥1000MΩ (500VDC)
Coil operating power	DC(W)		approx. 0.9
	AC(VA)		approx. 1.2
Operate time&Release time (at nominal voltage)			≤20ms
Initial breakdown voltage	Between open contacts		1000VAC/1min (leakage current 1mA)
	Between poles		2000VAC/1min (leakage current 1mA)
	Between contacts and coil		2000VAC/1min (leakage current 1mA)
Insulation characteristics IEC 60664 UL840	Rated voltage		250VAC
	Pollution level		3
	Overvoltage level		III
Impulse withstand voltage (waveform: 1.2/50us)			4000V
Protection level			IP50
Storage temperature/ humidity			-55~+85℃/ ≤85%RH (18 months)

RKF

Magnetic Blow-out
Power Relay

Working temperature/ humidity	-55~+70℃/ 5%~85%RH (No condensation) ★
Air pressure	86~106KPa
Shock resistance	10G (half-sine shock pulse: 11ms)
Vibration resistance	10~55Hz double-amplitude:1.0mm
Mounting	plug in
Unit weight	approx. 35g

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

Coil Specifications (23°C)

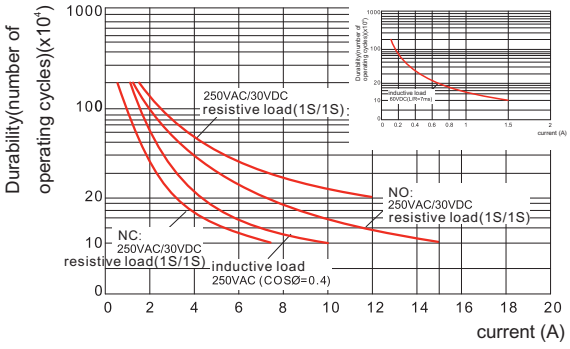
Nominal voltage V.DC	6	12	24	48	110	
Coil resistance Ω	40	180	640	2600	13000	
Nominal voltage V.AC	6	12	24	48	115	230
Coil resistance Ω	11.5	180	370	640	4430	16500

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

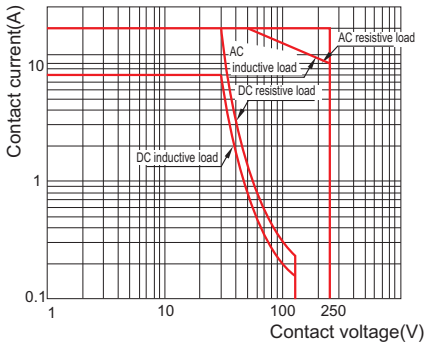
Contact Specification

RKF2CO

Electrical durability contacts



Maximum switching capacity

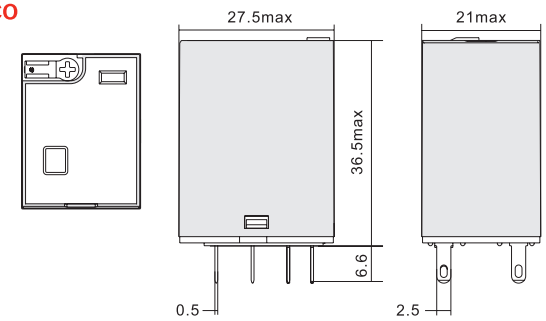


RKF

Magnetic Blow-out
Power Relay

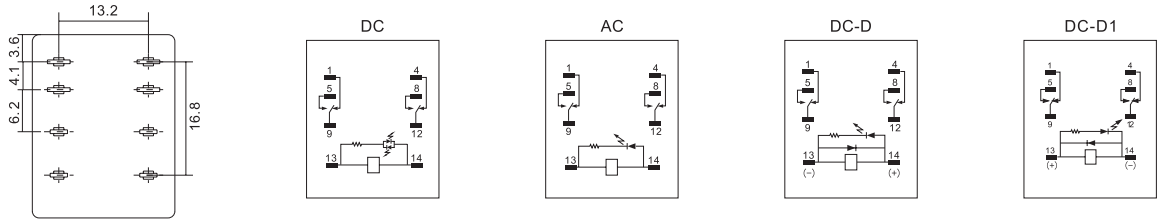
Dimensions (mm)

RKF2CO



Wiring Diagrams

RKF2CO



SYF08A-E S

RKF Magnetic Blow-out
Power Relay Socket

Characteristics

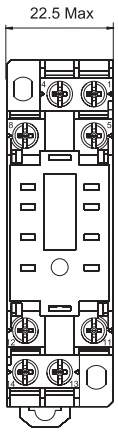
SYF08A-E S

Type			SYF08A-E S
Nominal load	Current	A	15
	Voltage	V	300
Dielectric strength		V/min	2000
Max. tightening torque		Nm	1.0
Wire size		AWG/mm²	20-14/0.5-2.5
Ambient temperature		℃	-40~+65
Unit weight		g	37

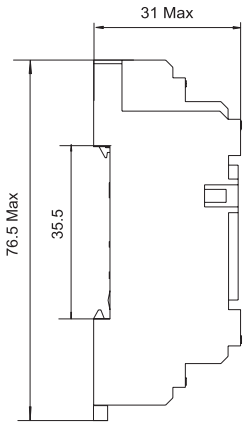
Relay,accessories Selection Table

Socket	Metal clip
SYF08A-E S	 SY36S

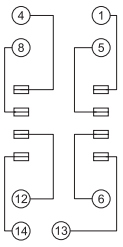
Dimensions (mm)



SYF08A-E S



Connection Diagrams



SYF08A-E S

⑭ ⑬ : A1 A2
① ④ : NC
⑤ ⑧ : NO
⑨ ⑫ : COM

SKC08-E S

RKF Magnetic Blow-out
Power Relay Socket

Characteristics

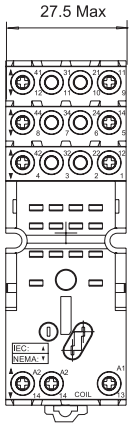
SKC08-E S

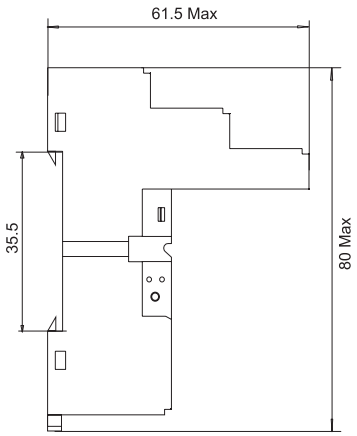
Type			SKC08-E S
Nominal load	Current	A	15
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque		Nm	-
Wire size		AWG/mm²	20-16/0.5-1.5
Ambient temperature		℃	-40~+85
Unit weight		g	50

Relay,accessories Selection Table

Socket	Plastic clip	Metal clip	ID tag	Module
SKC08-E S	 SK36F	 SK36M	SK4P	 AMD

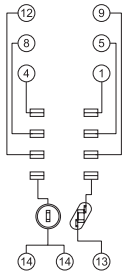
Dimensions (mm)





SKC08-E S

Connection Diagrams



⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SKC08-E S

RKL

Miniature Power
Relay

- 1 pole 16A; 2,3,4 pole 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

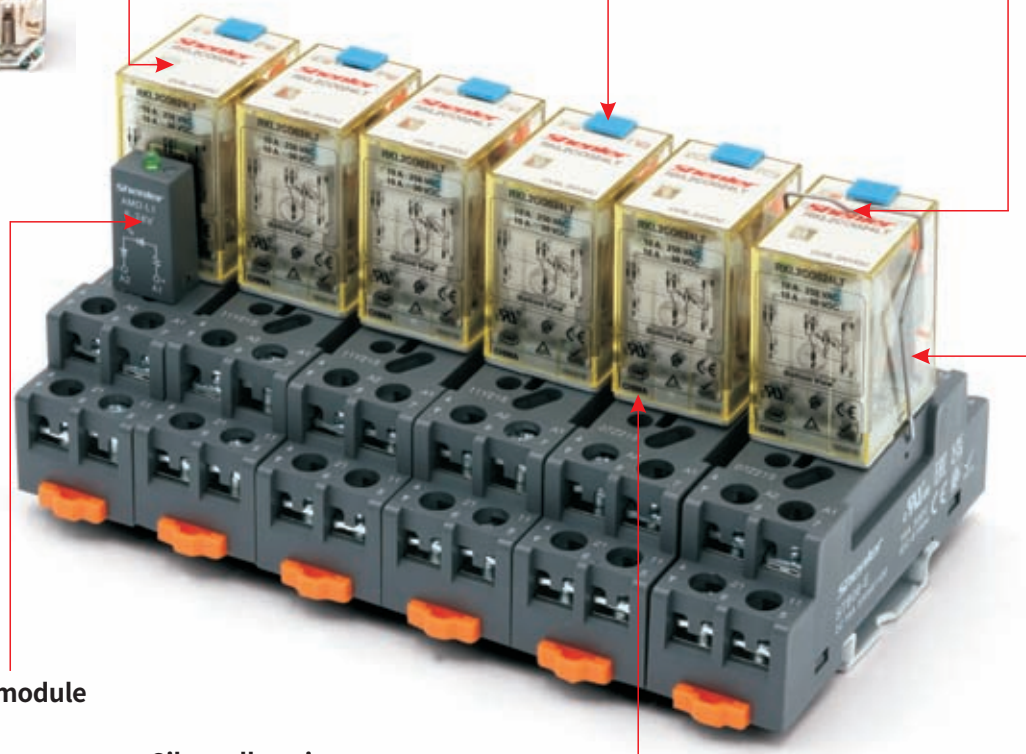
Visible LED indicates the working status of the relay at any time, AC red, DC green

Test button

On-site test is available with test button.

Metal clip

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



AMD 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.

Selection manual of industrial control relay

RKL
Miniature Power Relay

RKL □ □ □ □

Other options
LT:LED + test button
LTD: LED + test button + diode (13-,14+)
LTD1: LED + Test button + diode (13+,14-)

Coil voltage code

Code	006	012	024	048	110	220	
Voltage (V DC)	6	12	24	48	110	220	
Code	506	524	536	548	615	730	880
Voltage (V AC)	6	24	36	48	115	230	380

Terminal arrangement
O: plug in

Contact form
1C: 1CO
2C: 2CO
3C: 3CO
4C:4CO

Series name

Relay

+

Socket

=

Relay module

Characteristics

Contact	Configuration	1C	2C	3C	4C
	Load – Resistance	16A/250VAC 30VDC	10A/250VAC 30VDC		
	Load – Motor load	1/2HP, 120VAC, 1HP, 240VAC	1/3HP 240VAC	1/6HP 240VAC	
	Max. switching capacity (resistive)	4000VA, 480W	2500VA, 300W		
	Min. switching capacity	170mW(17V/10mA)			
	Initial contact resistance	≤50mΩ			
	Material	Ag alloy			
	Electrical durability	1C/3C/4C: ≥10^4Cycles (1800 Ops/h), 2C: ≥20 x 10^4Cycles (1800 Ops/h)			
	Mechanical durability	≥1000 x 10^4Cycles (1800 Ops/h)			
Pick-up voltage (23℃) (Rated voltage)		DC:≤75%, AC:≤80% 50/60Hz			
Drop-out voltage (23℃) (Rated voltage)		DC:≥10%, AC:≥30% 50/60Hz			
Maximum voltage (23℃) (Rated voltage)		110%			
Insulation resistance		≥500MΩ (500VDC)			
Coil operating power	DC(W)	approx. 0.9	approx. 0.9	approx. 1.4	approx. 1.5
	AC(VA)	approx. 1.2	approx. 1.2	approx. 2	approx. 2.5
Operate time		≤20ms			
Release time (at nominal voltage)		≤20ms			
Initial breakdown voltage	Between open contacts	1000VAC/1min (leakage current 1mA)			
	Between poles	2000VAC/1min (leakage current 1mA)			
	Between contacts and coil	2000VAC/1min (leakage current 1mA)			
Insulation characteristics IEC 60664 UL840	Rated voltage	250VAC			
	Pollution level	3			2
	Overvoltage level	III			II
Impulse withstand voltage (waveform: 1.2/50us)		4000V			
Protection level		IP50			
Storage temperature/ humidity		-55~+85℃/ ≤85%RH (18 months) ★			
Working temperature/ humidity		-25~+55℃/ 5%~85%RH (No condensation)			
Air pressure		86~106KPa			

RKL

Miniature Power Relay

Shock resistance	10G (half-sine shock pulse: 11ms)			
Vibration resistance	10~55Hz double-amplitude:1.0mm			
Mounting	plug in			
Unit weight	approx. 35g	approx. 35g	approx. 50g	approx. 65g

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

Coil Specifications (23°C)

RKL1, RKL2

Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	11.5	180	370	640	4430	16500	42000

RKL3

Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	40	100	400	1600	8400	33000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	6.5	102	230	410	2500	10000	26000

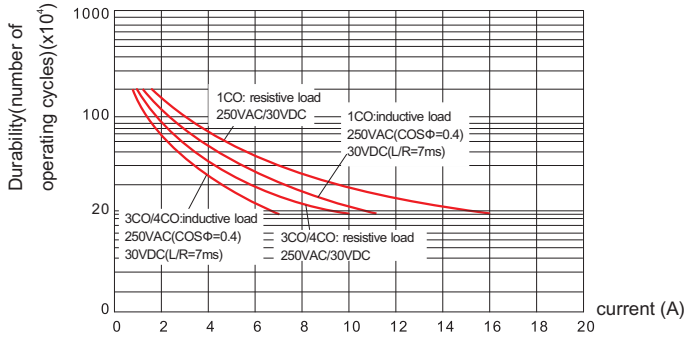
RKL4

Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	24	96	360	1500	6800	29000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	5	80	180	320	1680	8000	20000

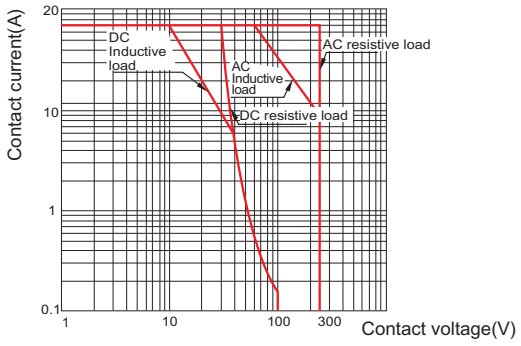
Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

Contact Specification

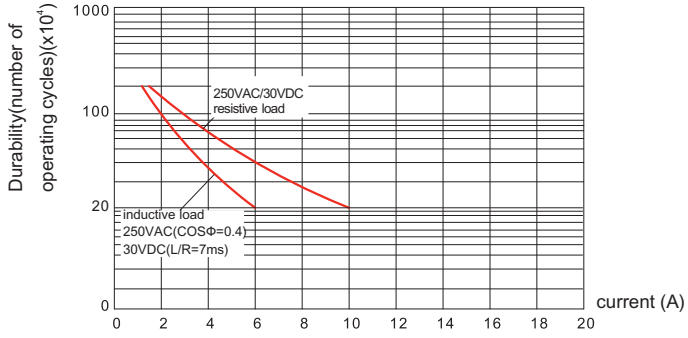
RKL1CO/3CO/4CO Electrical durability contacts



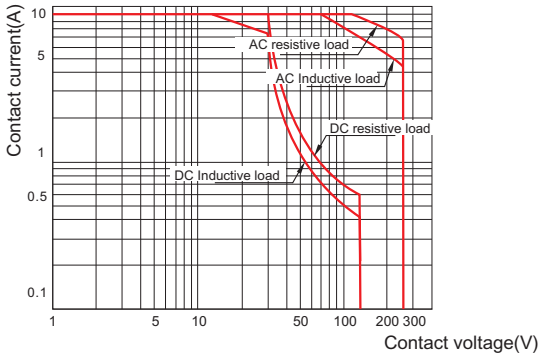
RKL1CO Maximum switching capacity



RKL2CO Electrical durability contacts



RKL2CO/3CO/4CO Maximum switching capacity

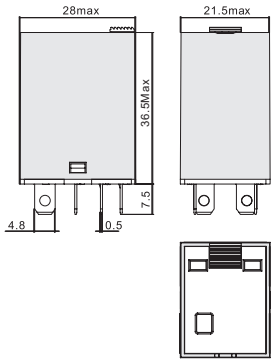


RKL

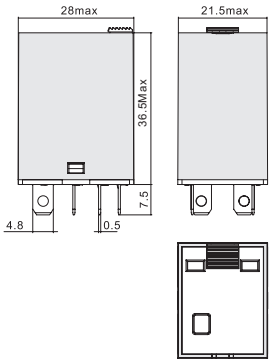
Miniature Power Relay

Dimensions (mm)

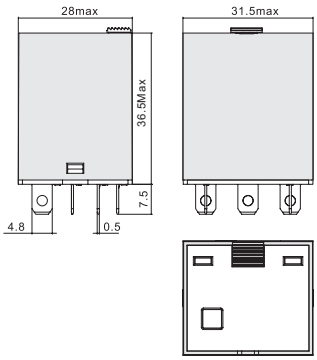
RKL1CO



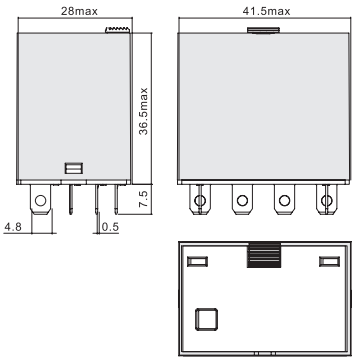
RKL2CO



RKL3CO

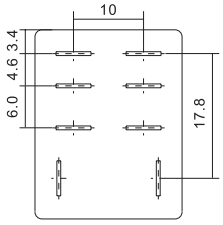


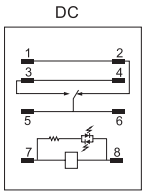
RKL4CO

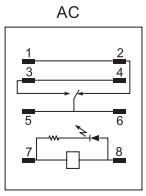


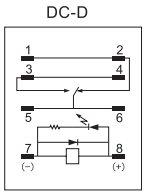
Wiring Diagrams

RKL1CO

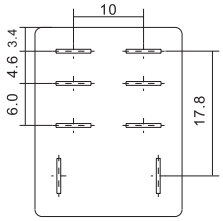


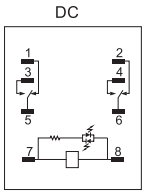


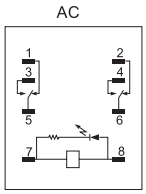


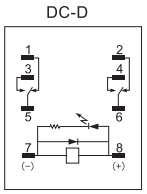


RKL2CO

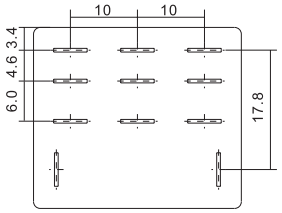


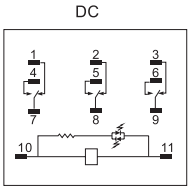


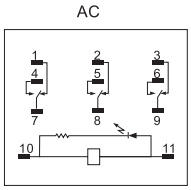


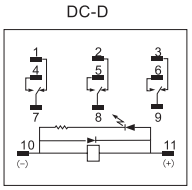


RKL3CO

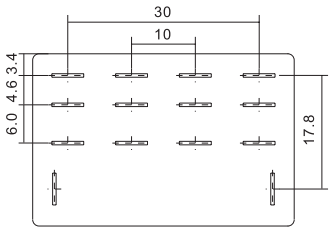


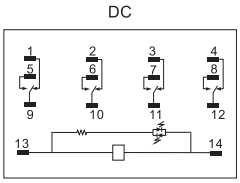


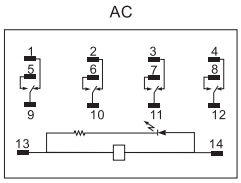


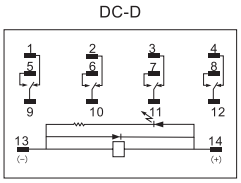


RKL4CO









STB08-E & STB11-E & STB14-E RKL Socket

Characteristics

STB08-E

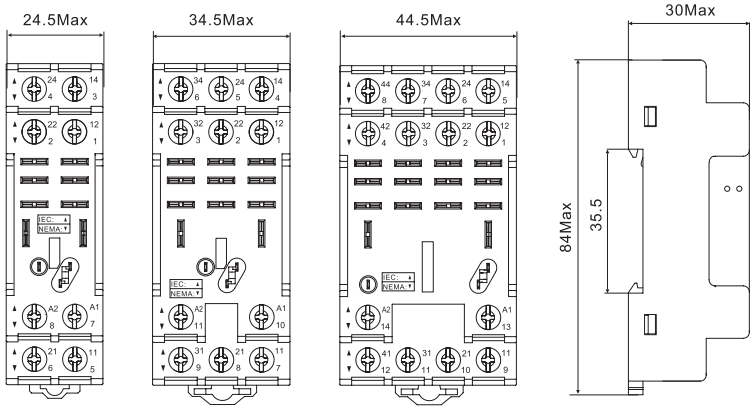
STB14-E

Type			STB08-E	STB11-E	STB14-E
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	1.0		
Wire size		AWG/mm²	20-14/0.5-2.5		
Ambient temperature		℃	-40~+85		
Unit weight		g	46	62	78

Relay,accessories Selection Table

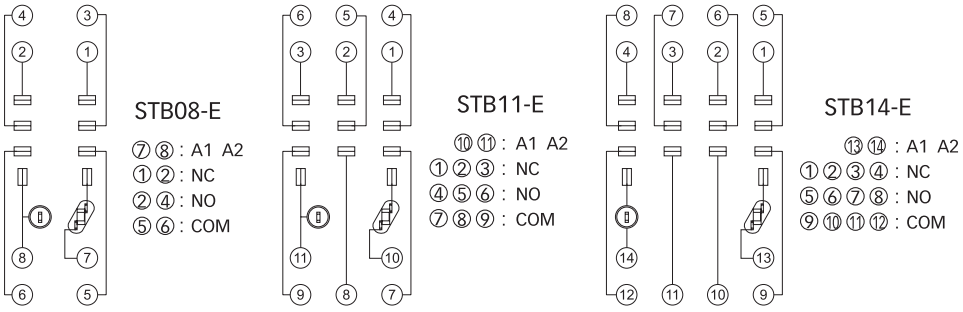
Socket	Metal clip	Module
STB08-E	SK36M	
STB11-E	ST36M3C	AMD
STB14-E	ST36M4C	 BMD

Dimensions (mm)



STB08-E STB11-E STB14-E

Connection Diagrams



STB08-E
⑦⑧ : A1 A2
①② : NC
②④ : NO
⑤⑥ : COM

STB11-E
⑩⑪ : A1 A2
①②③ : NC
④⑤⑥ : NO
⑦⑧⑨ : COM

STB14-E
⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

REH
Power Relay

- 2 pole 3 pole contact load 16A
- 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.

Test button
On-site test is available with test button.

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

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.

Selection manual of industrial control relay

REH
Power Relay

REH □ □ □ □

Other options
LT:LED + test button
LTD: LED + test button + diode (A1-, A2+)
LTD1: LED + Test button + diode (A1+, A2-)

Coil voltage code

Code	006	012	024	048	110	220	
Voltage (V DC)	6	12	24	48	110	220	
Code	506	524	548	615	730	880	900
Voltage (V AC)	6	24	48	115	230	380	400

Terminal arrangement
O: plug in

Contact form
2C: 2CO
3C: 3CO

Series name

Relay

+

Socket

=

Relay module

Characteristics

Contact	Configuration		2C,3C
	Load	Resistance	16A/300VAC 30VDC
		Motor load	1/2HP, 120VAC;1HP,240VAC
	Max. switching capacity (resistive)		4800VA, 480W
	Initial contact resistance		≤50mΩ
	Material		Ag alloy
	Electric durability(110%rated voltage, 55℃)		≥60 x 10^4Cycles (600 Ops/h)
	Electric durability (Normal temperature)		≥5000 x 10^4Cycles (18000 Ops/h)
	Mechanical durability		≥2000 x 10^4Cycles (18000 Ops/h)
Pick-up voltage (23℃) (Rated voltage)			DC:≤75%, AC:≤80% 50/60Hz
Drop-out voltage (23℃) (Rated voltage)			DC:≥10%, AC:≥30% 50/60Hz
Maximum voltage (23℃) (Rated voltage)			110%
Insulation resistance			≥1000MΩ (500VDC)
Coil operating power	DC(W)		approx. 1.5
	AC(VA)		approx. 2.5
Operate time&Release time (at nominal voltage)			≤20ms
Initial breakdown voltage	Between open contacts		1500VAC/1min (leakage current 1mA)
	Between poles		4000VAC/1min (leakage current 1mA)
	Between contacts and coil		4000VAC/1min (leakage current 1mA)
Insulation characteristics IEC 60664 UL840	Rated voltage		300VAC
	Pollution level		3
	Overvoltage level		III
Impulse withstand voltage (waveform: 1.2/50us)			6000V
Protection level			IP50
Storage temperature/ humidity			-55~+85℃/ ≤85%RH (18 months)
Working temperature/ humidity			-55~+70℃/ 5%~85%RH (No condensation) ★
Air pressure			86~106KPa
Shock resistance			10G (half-sine shock pulse: 11ms)
Vibration resistance			10~55Hz double-amplitude:1.0mm
Mounting			plug in
Unit weight			approx. 90g

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

REH
Power Relay

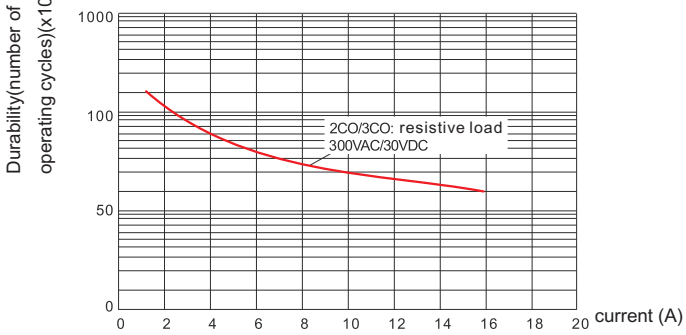
Coil Specifications (23°C)

Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	24	96	385	1540	8070	32270	
Nominal voltage V.AC	6	24	48	115	230	380	400
Coil resistance Ω	8	100	350	2200	8000	26000	27000

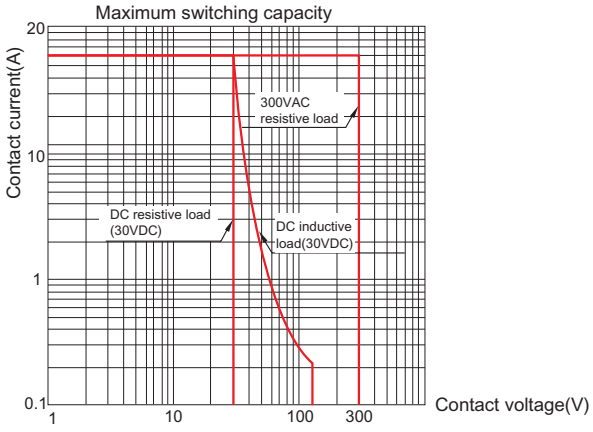
Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

Contact Specification

REH2CO/3CO Electrical durability contacts

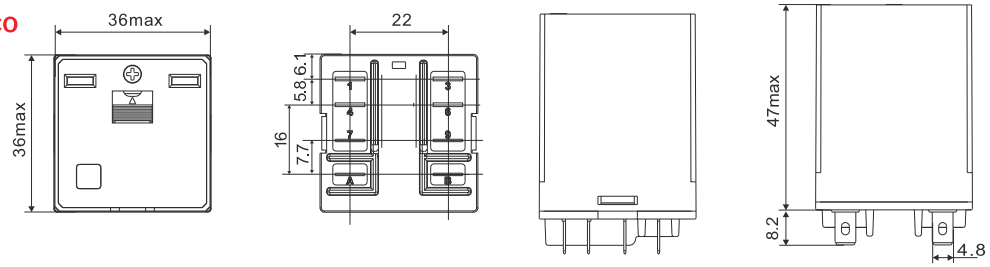


Maximum switching capacity

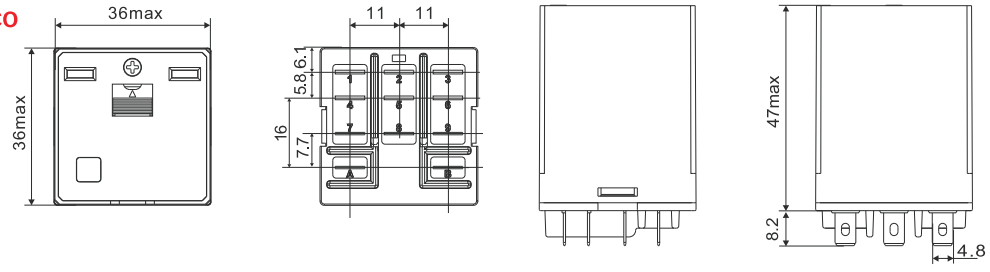


Dimensions (mm)

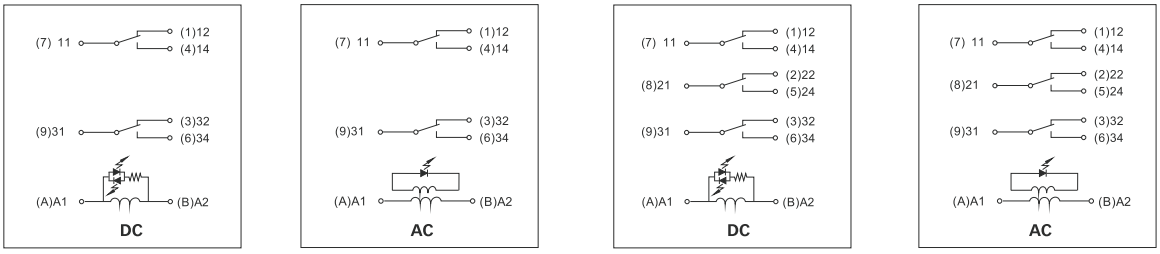
REH2CO



REH3CO



Wiring Diagrams



REH2CO

REH3CO

Selection manual of industrial control relay

REH

Magnetic Blow-out Power Relay

REH □ □ □ □

Other options
LTS: LED +test button + magnet

Coil voltage code

Code	012	024	048	110	220	
Voltage (V DC)	12	24	48	110	220	
Code	524	548	615	730	880	900
Voltage (V AC)	24	48	115	230	380	400

Terminal arrangement
O: plug in

Contact form

Code	1A	1B	2A	2B	2FO	3A
Contact form	1NO	1NC	2NO	2NC	1NO&1NC	3NO

Series name

Series Name

+

Socket

=

Relay module

- Good performance in DC motor load
- With non-polarity LED and lockable test button.
- High capacity load (16A@400VAC) for well replacement of contactor
- With blow-out magnet
- Identification of coil through test button color (AC red /DC blue)

Characteristics

Contact	Configuration		1A,1B	2A,2B,2FO	3A
	Load	Resistance	16A/500VAC	16A/250VAC	16A/300VAC
		Resistance	10A/220VDC 16A/30VDC		
		inductive	10A/250VAC(cosØ0.4); 3A/220VDC(L/R=7ms)		
	Switching capacity	Resistance	8000VA	4000VA	4800VA
		Resistance	2200W		
		inductive	2500VA(cosΦ0.4);660W(L/R=7ms)		
	Initial contact resistance		≤50mΩ		
	Material		Ag alloy		
	Electric durability(110%rated voltage, 55℃)		≥60 x 10^4Cycles (600 Ops/h)	≥20 x 10^4Cycles (600 Ops/h)	
	Mechanical durability		≥5000 x 10^4Cycles (18000 Ops/h)		
Pick-up voltage (23℃) (Rated voltage)			DC:≤75% , AC:≤80% 50/60Hz		
Drop-out voltage (23℃) (Rated voltage)			DC:≥10% , AC:≥30% 50/60Hz		
Maximum voltage (23℃) (Rated voltage)			110%		
Insulation resistance			≥1000MΩ (500VDC)		
Coil operating power		DC (W)	approx. 1.5		
		AC (VA)	approx. 2.5		
Operate time&Release time (at nominal voltage)			≤20ms		
Initial breakdown voltage		Between open contacts	1500VAC/1min (leakage current 1mA)		
		Between poles	4000VAC/1min (leakage current 1mA)		
		Between contacts and coil	4000VAC/1min (leakage current 1mA)		
Insulation characteristics IEC 60664 UL840		Rated voltage	400VAC	250VAC	250VAC
		Pollution level	2	3	3
		Overvoltage level	II	III	III
Protection level			IP50		
Storage temperature/ humidity			-20~+85℃/ ≤85%RH (18 months) ★		
Working temperature/ humidity			-40~+55℃/ 5%~85%RH (No condensation)		
Air pressure			86~106KPa		
Shock resistance			10G (half-sine shock pulse: 11ms)		
Vibration resistance			10~55Hz double-amplitude:1.0mm		
Mounting			plug in		
Unit weight			approx. 90g		

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

REH

Magnetic Blow-out Power Relay

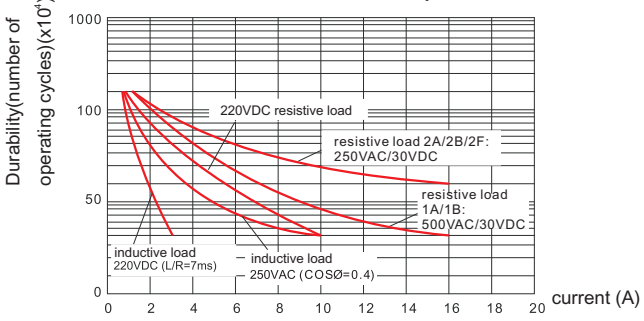
Coil Specifications (23°C)

Nominal voltage V.DC	12	24	48	110	220	
Coil resistance Ω	96	385	1540	8070	32270	
Nominal voltage V.AC	24	48	115	230	380	400
Coil resistance Ω	100	350	2200	8000	26000	27000

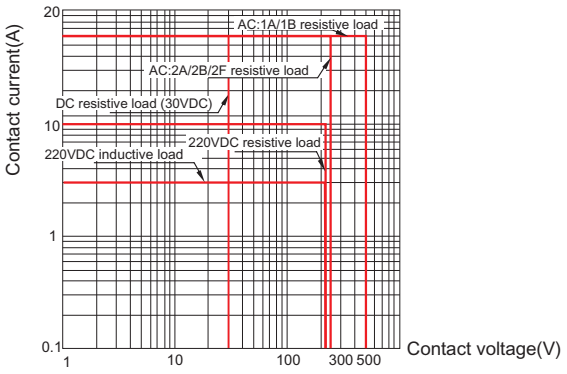
Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

Contact Specification

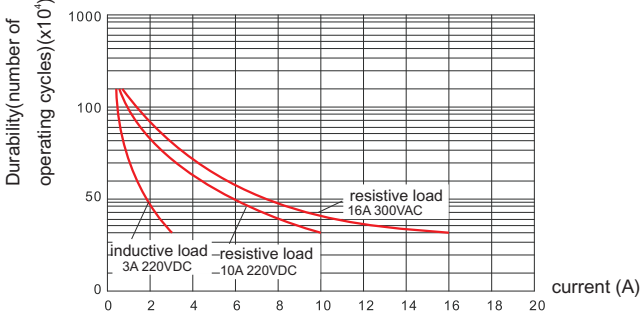
REH1A/2A/2B/2F Electrical durability contacts



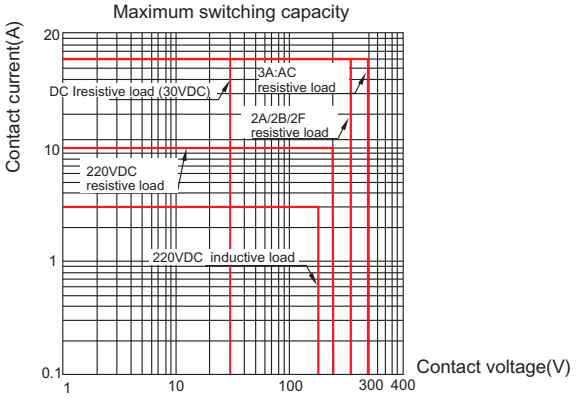
Maximum switching capacity



REH3AO Electrical durability contacts

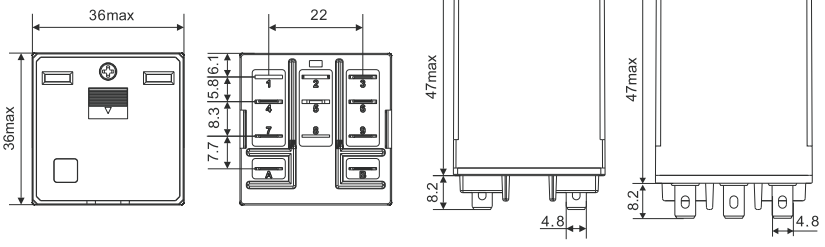


Maximum switching capacity

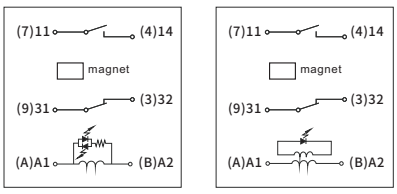


Dimensions (mm) & Wiring Diagrams

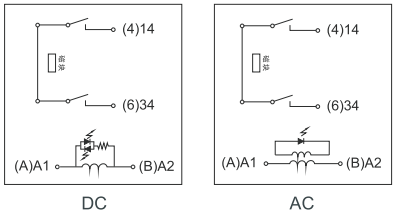
REH



REH2FO



REH1AO



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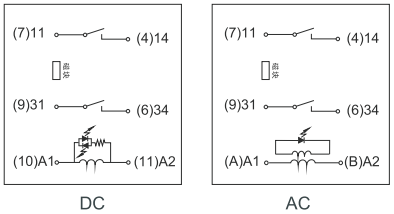
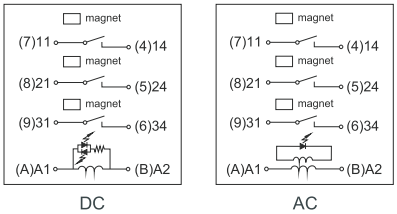


REH3AO



SEB11-E

REH Socket

Characteristics

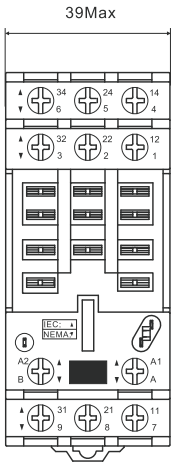
SEB11-E

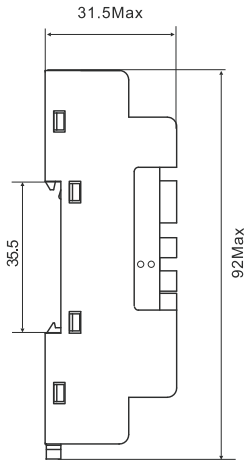
Type			SEB11-E
Nominal load	Current	A	25
	Voltage	V	500
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque		Nm	1.2
Wire size		AWG/mm²	20-12/0.5-3.3
Ambient temperature		℃	-40~+75
Unit weight		g	64

Relay,accessories Selection Table

Socket	Metal clip	Module
SEB11-E	 SE52M	 BMD

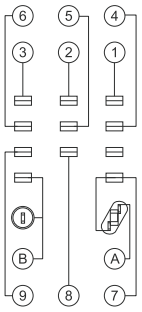
Dimensions (mm)





Connection Diagrams

Ⓐ Ⓑ : A1 A2
① ② ③ : NC
④ ⑤ ⑥ : NO
⑦ ⑧ ⑨ : COM



SEB11-E

REH Socket

Characteristics

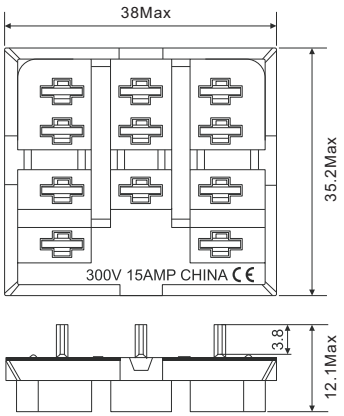
SEB11-P

Type			SEB11-P
Nominal load	Current	A	15
	Voltage	V	300
Dielectric strength		V/min	25000
Ambient temperature		℃	-40~+75
Unit weight		g	8.4

Relay,accessories Selection Table

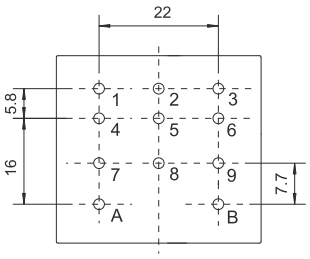
Socket	Metal clip
SEB11-P	 SE48M

Dimensions (mm)



Connection Diagrams

Ⓐ Ⓑ : A1 A2
① ② ③ : NC
④ ⑤ ⑥ : NO
⑦ ⑧ ⑨ : COM



RUB

General Purpose Relay

- 2 pole 3 pole 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.

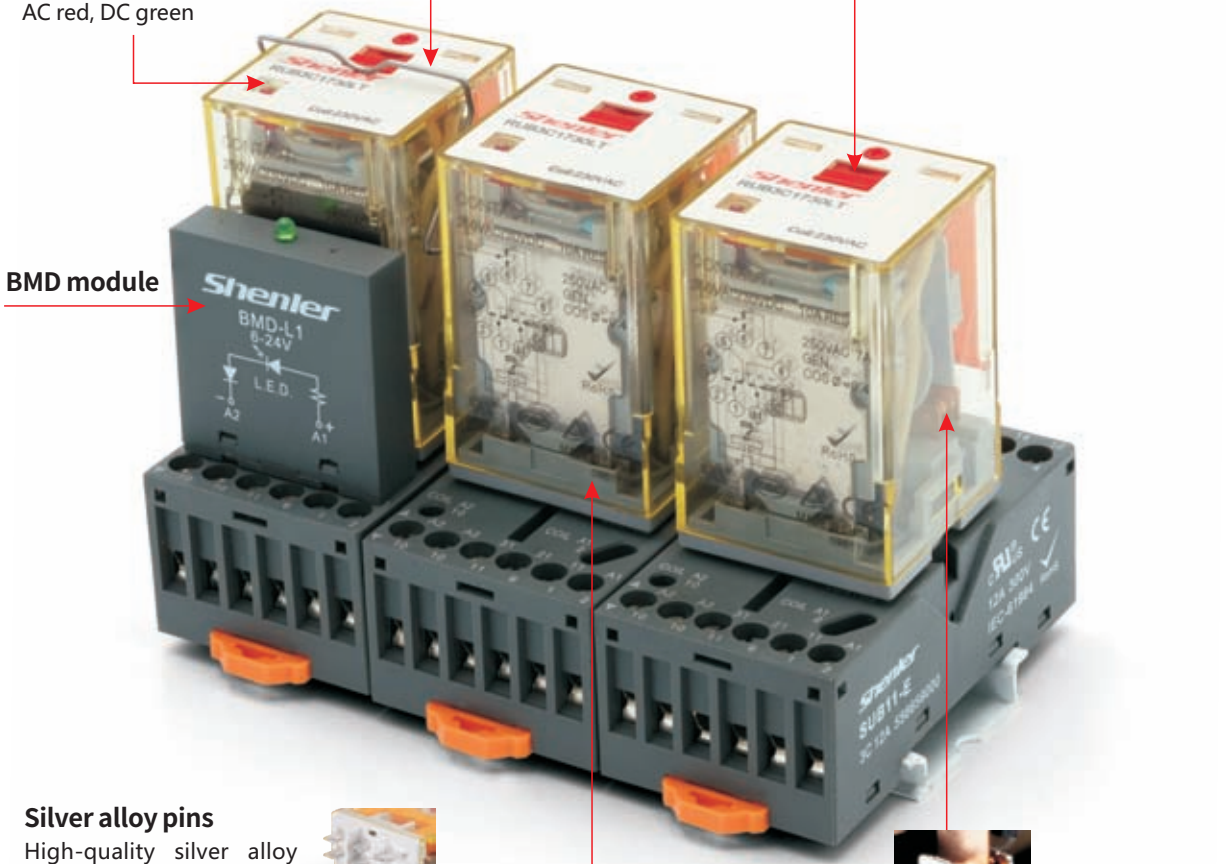
LED

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.

RUB

General Purpose Relay

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		≥10^5Cycles(1800 Ops/h)
	Mechanical durability		≥2000 x 10^4Cycles (18000 Ops/h)
Pick-up voltage (23℃) (Rated voltage)			≤80%
Drop-out voltage (23℃) (Rated voltage)			DC:≥10%, AC:≥30% 50/60Hz
Maximum voltage (23℃) (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 IEC 60664 UL840		Rated voltage	250VAC
		Pollution level	3
		Overvoltage level	III
Impulse withstand voltage (waveform: 1.2/50us)			4000V
Protection level			IP50
Storage temperature/ humidity			-55~+85℃/ ≤85%RH (18 months) ★
Working temperature/ humidity			-25~+55℃/ 5%~85%RH (No condensation)

RUB

General Purpose Relay

Air pressure	86~106KPa
Shock resistance	10G (half-sine shock pulse: 11ms)
Vibration resistance	10~55Hz double-amplitude:1.0mm
Mounting	plug in
Unit weight	approx. 85g

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

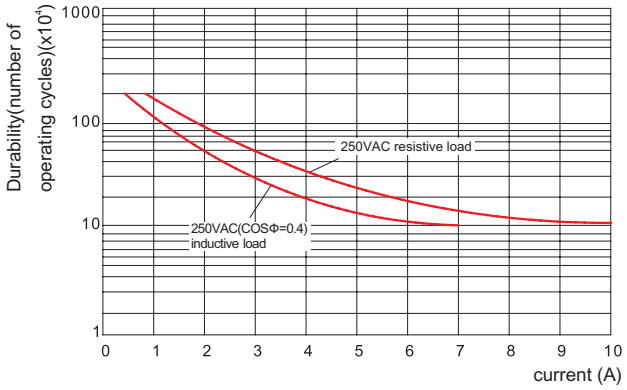
Coil Specifications (23°C)

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

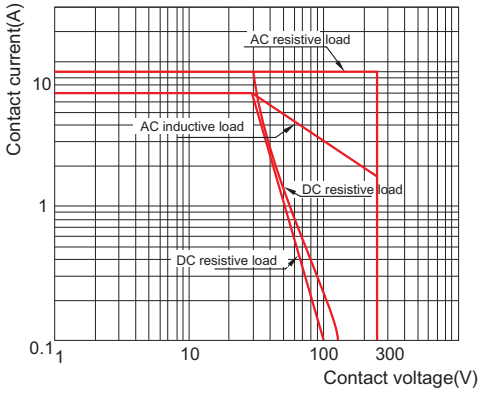
Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

Contact Specification

RUB2C/3C Electrical durability contacts



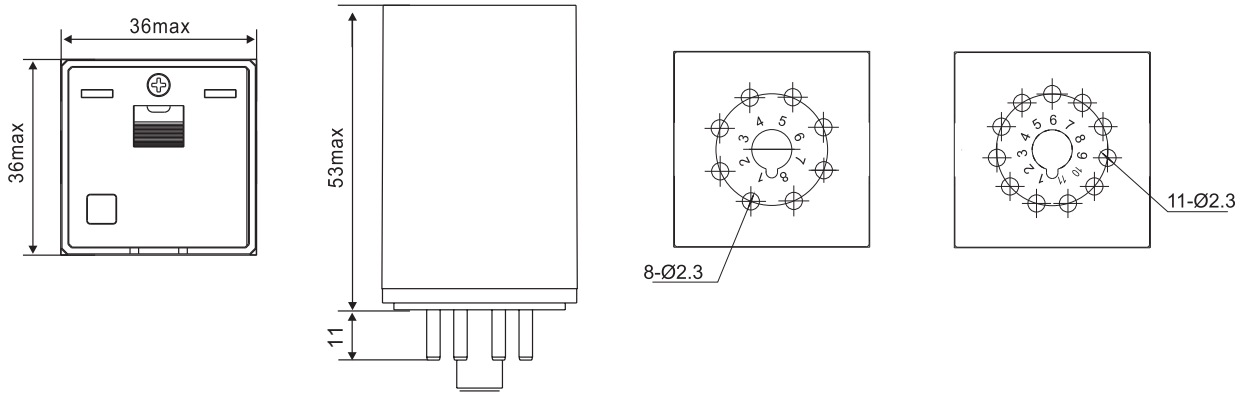
Maximum switching capacity



RUB

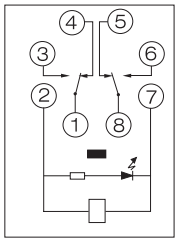
General Purpose
Relay

Relay Kit Dimensions (mm)



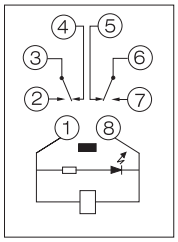
Wiring Diagrams

RUB2C1



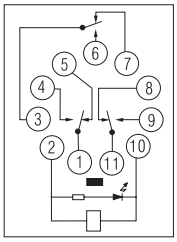
⑦ ② : A1, A2
COM
NO
④ ⑤ : NC

RUB2C2



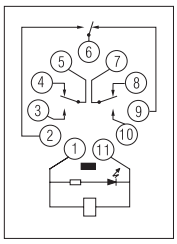
⑧ ① : A1, A2
③ ⑥ : COM
② ⑦ : NO
④ ⑤ : NC

RUB3C1



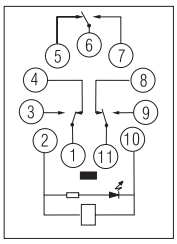
⑩ ② : A1, A2
① ③ ⑪ : COM
④ ⑥ ⑨ : NO
⑤ ⑦ ⑧ : NC

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

SUB08-E & SUB11-E

RUB Socket

Characteristics

SUB08-E

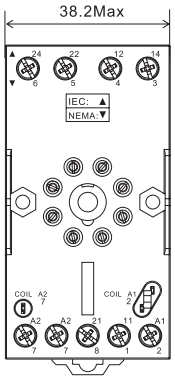
SUB11-E

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/mm²	20-14/0.5-2.5
Ambient temperature		℃	-40~+85
Unit weight		g	50 / 55

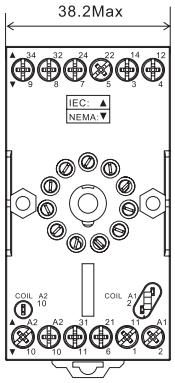
Relay,accessories Selection Table

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

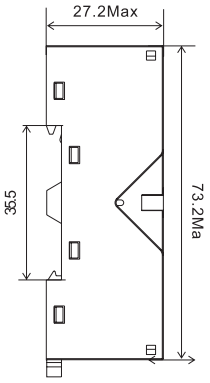
Dimensions (mm)



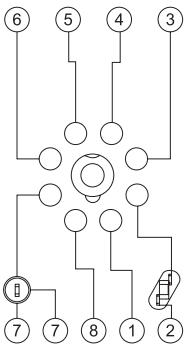
SUB08-E



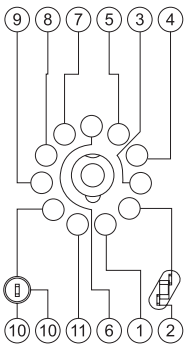
SUB11-E



Connection Diagrams



SUB08-E



SUB11-E

SUB08-A & SUB11-A

RUB Socket

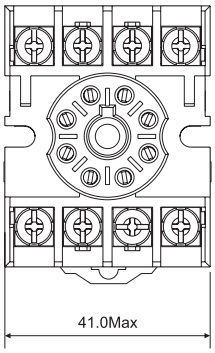
Characteristics

SUB08-A

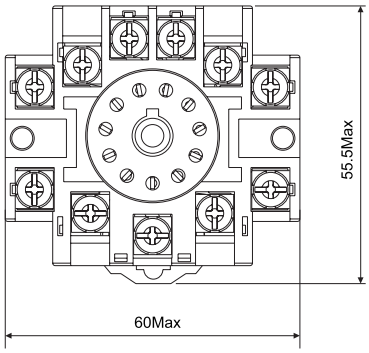
SUB11-A

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/mm²	20-14/0.5-2.5	
Ambient temperature		℃	-40～+85	
Unit weight		g	37	50

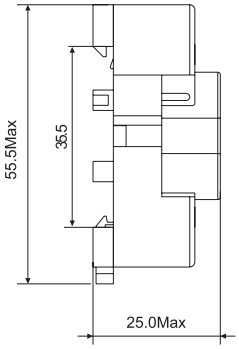
Dimensions (mm)



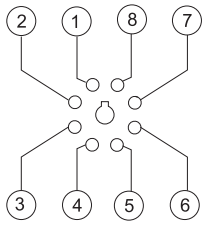
SUB08-A



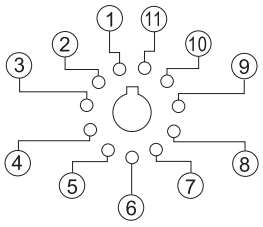
SUB11-A



Connection Diagrams



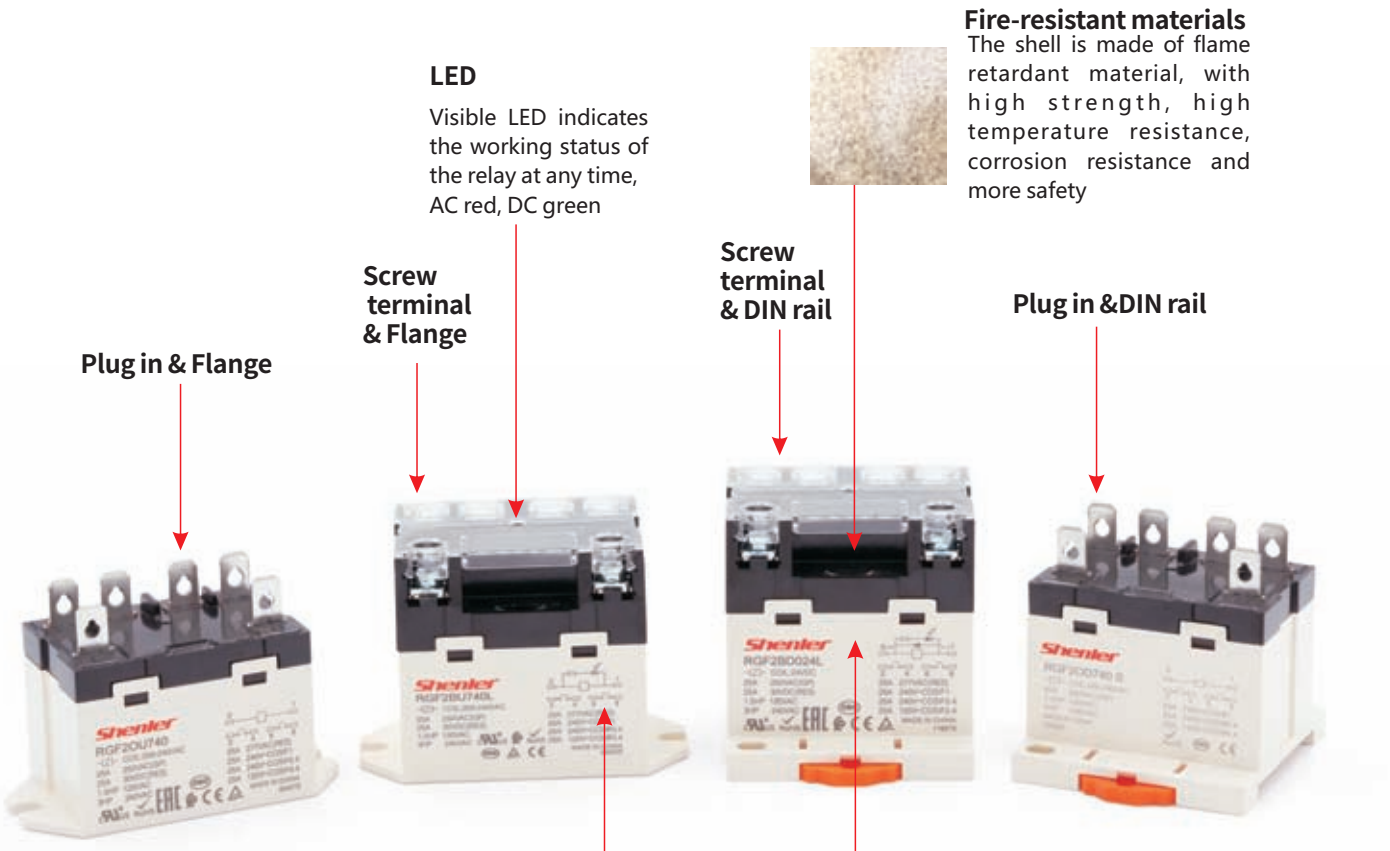
SUB08-A



SUB11-A

RGF
Power Relay

- 1 pole 30A ; 2 pole 25A/40A
- Top-mounted 1/4” quick-connect terminals
- Locating slot for DIN rail mounting
- With finger protection cover
- Conformity with RoHs directive
- With safety module monitor



RGF
Power Relay

RGF □ □ □ □

Other options
L: with LED (only for BU and BD type)
F: with auxiliary module
S: with 40A/250VAC contact load (for 2 pole only)

Coil voltage code

Code	006	012	024	048	110	220		
Voltage (V DC)	6	12	24	48	110	220		
Code	506	524	536	548	615	730	880	900
Voltage (V AC)	6	24	36	48	115	230	380	400

Terminal arrangement
O: plug in
OD: plug in &DIN rail
OU: plug in & flange
P: PCB
BU: screw terminal& flange
BD: screw terminal & DIN rail

Contact form
1: 1A (NO)
2: 2A (NO)

Series name

RGF1BD

RGF2BU

RGF2OD

RGF2OU

Characteristics

Contact	Configuration		1A	2A	2A-S
	Load	Resistance	30A 277VAC/30VDC	25A 277VAC/30VDC	40A 250VAC/30VDC
		Motor load	1.5 HP, 120VAC; 3HP, 240VAC		
	Max. switching capacity (resistive)		8310VA, 900W	6925VA,750W	10000VA,1200W
	Initial contact resistance		≤50mΩ		
	Auxiliary module	Configuration	1CO		
		Load (Resistive)	250VAC,3A		
		Switching capacity (resistive)	750VA		
		Contact resistance	≤50mΩ		
	Material		Ag alloy		
	Electrical durability		≥10^5Cycles (1800 Ops/h)		≥$5x10^4$ Cycles (360 Ops/h)
	Mechanical durability		⩾5000 x 10^4Cycles (1800 Ops/h)		
Pick-up voltage (23℃) (Rated voltage)			DC:≤80% , AC:≤80% 50/60Hz		
Drop-out voltage (23℃) (Rated voltage)			DC:≥15% , AC:≥15% 50/60Hz		
Maximum voltage (23℃) (Rated voltage)			110%		
Insulation resistance			≥1000MΩ (500VDC)		
Coil operating power	DC(W)		approx. 0.9		
	AC(VA)		approx. 2.5		
Operate time&Release time (at nominal voltage)			≤30ms		
Initial breakdown voltage	Between open contacts		2000VAC/1min (leakage current 1mA)		
	Between poles		2000VAC/1min (leakage current 1mA)		
	Between contacts and coil		4000VAC/1min (leakage current 1mA)		
Insulation characteristics IEC 60664 UL840	Rated voltage		277VAC		
	Pollution level		3		
	Overvoltage level		III		
Impulse withstand voltage (waveform: 1.2/50us)			6000V		
Protection level			IP50		

Storage temperature/ humidity	-55~+85℃/ ≤85%RH (18 months)
Working temperature/ humidity	-25~+55℃/ 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 type; screw type; PCB type; DIN rail mounting type
Unit weight	plug in type about 90g; screw type around 120g; screw type +DIN rail mountingwith auxiliary module about 135g

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

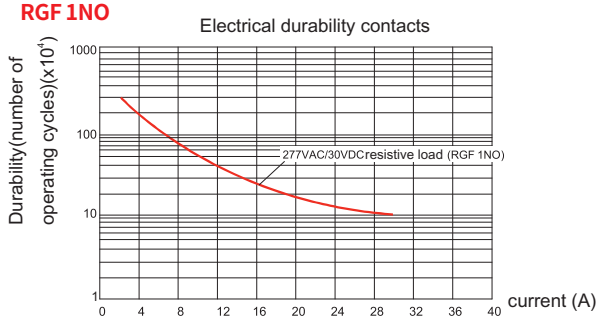
Coil Specifications (23°C)

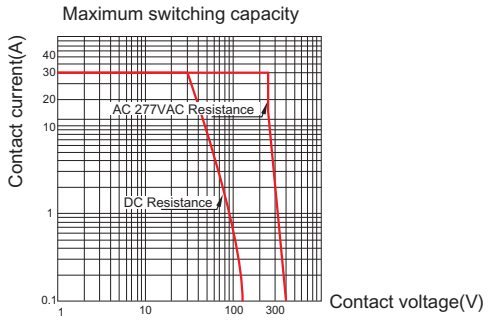
Nominal voltage V.DC	6	12	24	48	110	220		
Coil resistance Ω	18.9	75	303	1220	6360	25474		
Nominal voltage V.AC	6	12	24	48	100-120	200-240	380	400
Coil resistance Ω	14	55	275	1100	5200	21000	62650	62650

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

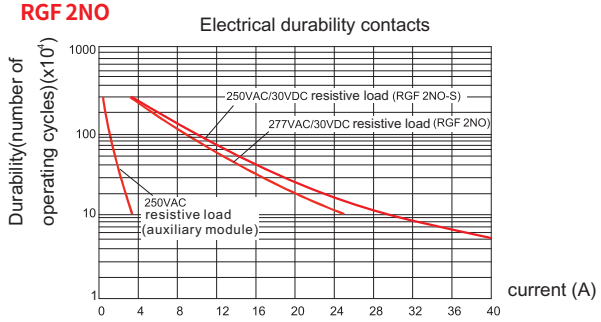
Contact Specification

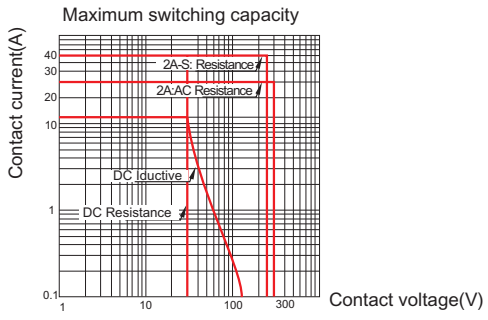
RGF 1NO





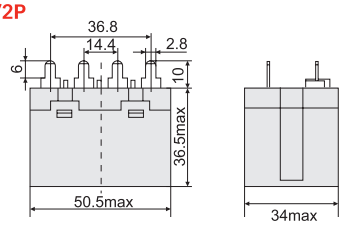
RGF 2NO



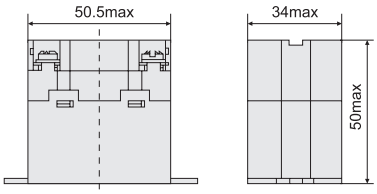


Dimensions (mm) & Wiring Diagrams

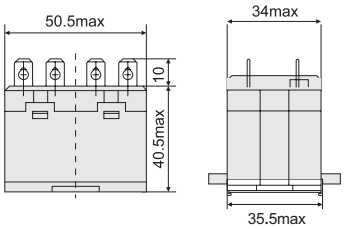
RGF1P/2P



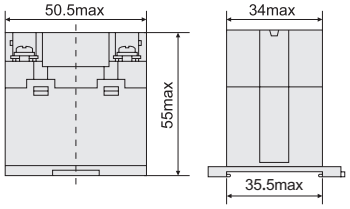
RGF1BU/2BU



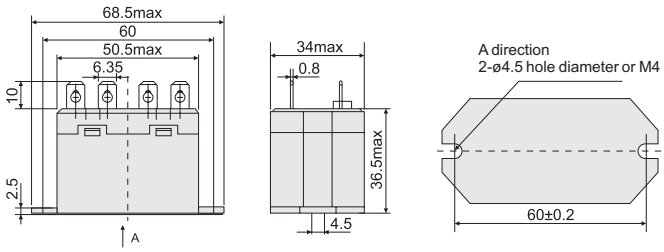
RGF1OD/2OD



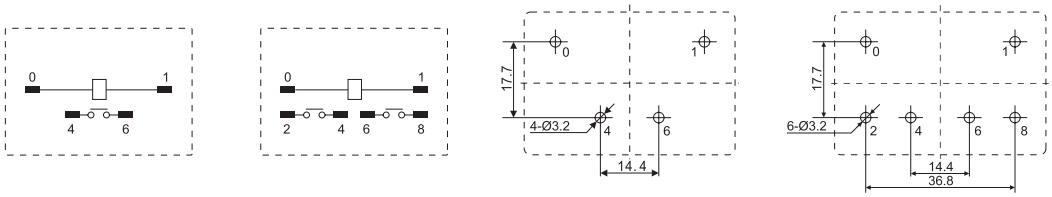
RGF1BD/2BD



RGF1OU/2OU



Wiring Diagrams



RGF1 RGF2 RGF1P RGF2P

RSC Series

Solid State Slim Relay

- Ultra thin, small size, fast switching response
- no contact, no spark, long service life
- MOSFET output for DC, SCR output for AC.
- Imported optocoupler isolation
- Wide supply voltage range
- Shenler industrial control relay is widely used in the output signal and safety drive of PLC, CNC system, robot, intelligent manufacturing and other control systems. It is one of the best choices to realize the automatic assembly line of various equipment and products such as remote control, production and processing, packaging, transportation, detection and storage.

Clear LED indicator

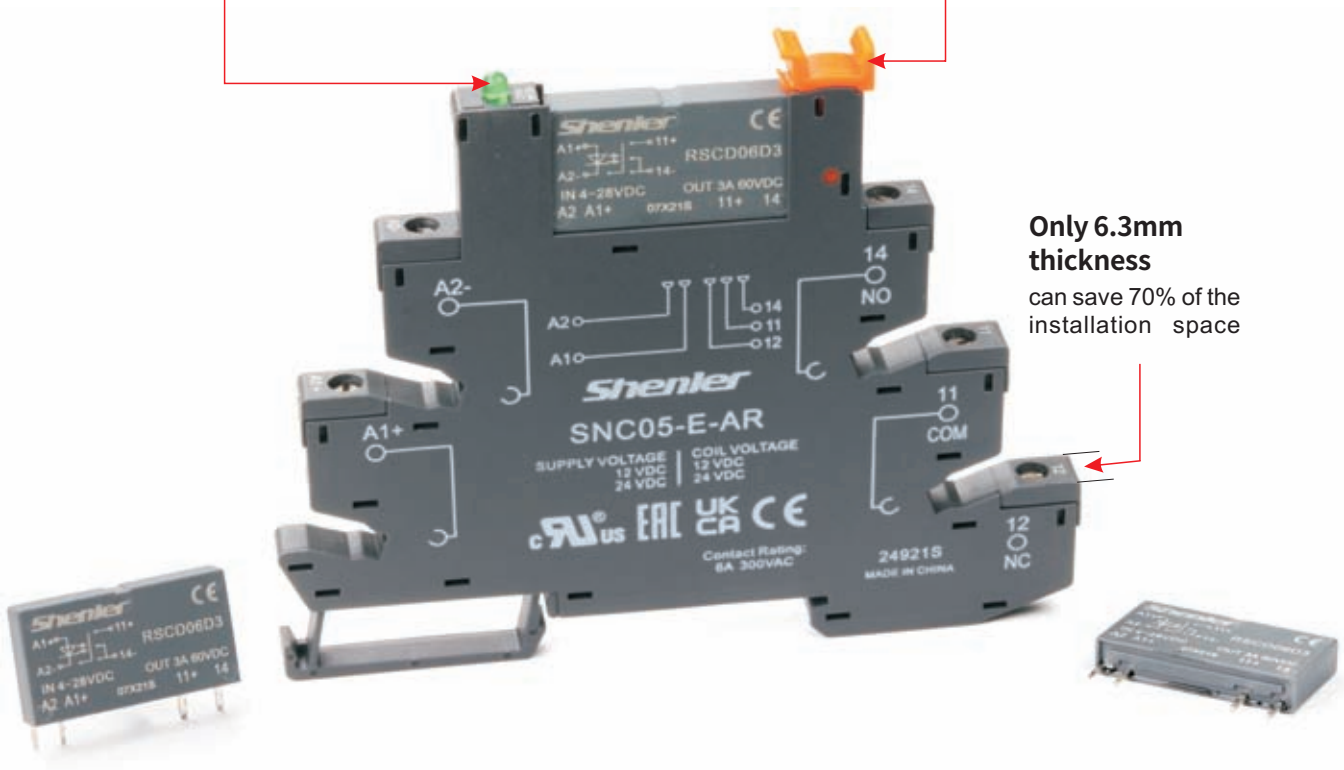
Led top high projection display, intuitive and easy to identify, making maintenance easier

Release lever

Press the lever on the top to make it easy to assemble and replace relay and protect the relay pins from damage

Only 6.3mm thickness

can save 70% of the installation space



CE

RSC Series

Solid State Slim Relay

Relay

+

Socket

=

Relay Module

RSC □ □ D □ □

- **Switching Type**
  Blank : Zero voltage switching
- **Load current**
  2 : 2A (available for AC only)
  3 : 3A (available for DC only)
- **Control Voltage range**
  D : 4-28V DC switching
- **Load voltage range**
  06 : 3–60VDC
  24 : 24–280VAC
- **Load type**
  D: DC
  A: AC
- **Series**

Product performance

Input parameter(Ta=25℃)	
Control voltage range	4~28VDC
Must turn-on voltage	4VDC
Must turn-off voltage	1VDC
Control current range	6~20mA

Output parameters(Ta=25℃)		
Part No.	RSCD06D3	RSCA24D2
Load voltage range	3~60VDC	24~280VAC
Peak withstand voltage	100VDC	600VAC
Load current range	0.002~3A	0.02~2A
Maximum turn-on time	≤1ms	1 / 2 cycle
Maximum turn-off time	≤1ms	1 / 2 cycle
Non-repetitive surge current (within 10ms)	30A	50A
Maximum off-state leakage current (at rated voltage)	≤0.1mA	≤1.5mA
Maximum on-state voltage drop (at rated current)	≤0.1V	≤1.3V
Load current safety factor	40~60%	

Other parameters(Ta=25℃)	
Dielectric withstand voltage (Input / Output,50Hz/60Hz)	2500VAC
Insulation resistance(@500VDC)	1000MΩ
Operating temperature range	-30℃~+80℃
Storage temperature range	-30℃~+100℃
Weight	4g

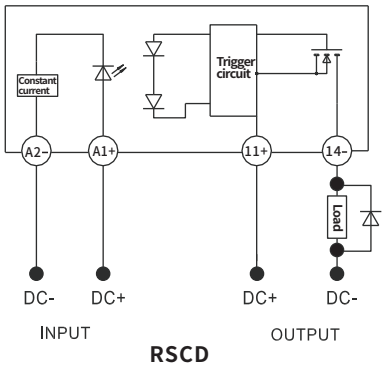
Note:

1.When welding and installing the printed substrate, please complete the welding within 8 seconds at 260℃ welding temperature (no more than 2 seconds for each pin).
2.The positive and negative polarity of input and output shall not be connected wrongly, otherwise it is easy to damage the product.
3.The recommended installation torque for base wiring is 0.5N m.
4.When the ambient temperature of the product is high, please refer to the temperature curve for derating.

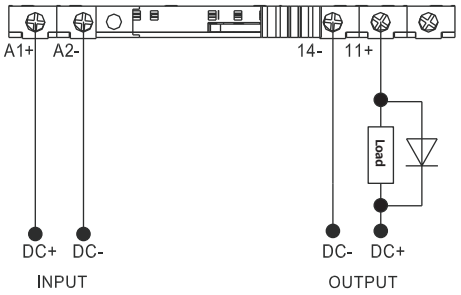
RSC Series

Solid State Slim Relay

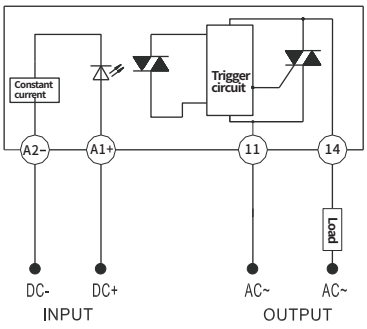
Wiring diagram



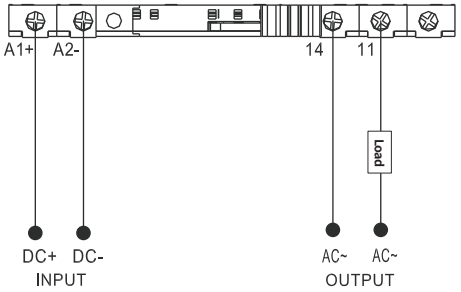
RSCD



RSCD With socket

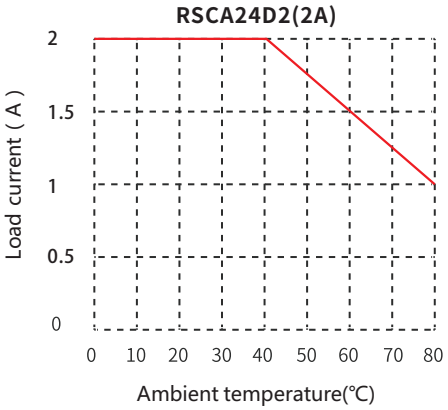


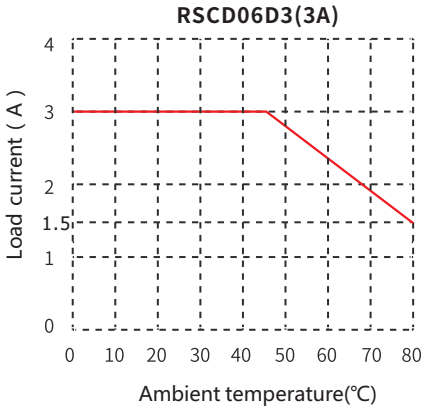
RSCA



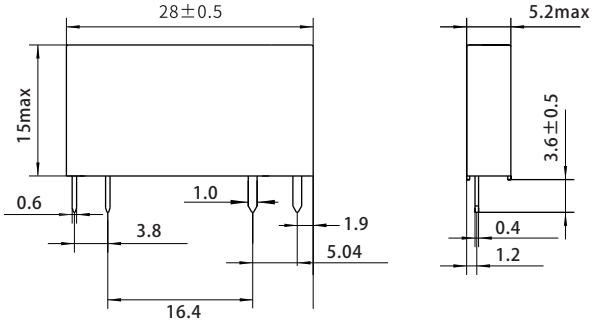
RSCA With socket

Contact Specification





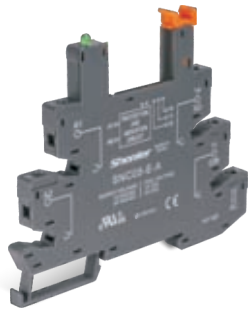
Dimension(mm)



SNC05-E

RNC Socket

Characteristics



SNC05-E

Model No.	Input	Relay
SNC05-E-A	12~24V	12~24VDC
SNC05-E-B	48~60V	48~60VDC
SNC05-E-C	110V	60VDC
SNC05-E-D	230V	60VDC

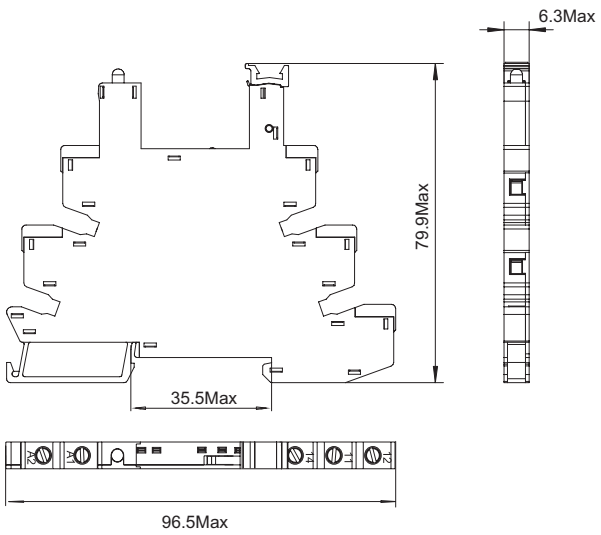
Characteristics

Nominal load	Current	A	8
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque		Nm	0.5
Wire size		AWG/mm^2	20-16/0.5-1.5
Ambient temperature		℃	-40~+85
Unit weight		g	24

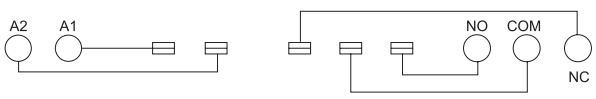
Relay,accessories Selection Table

Bus jumper	Legend	Partition plate
 SN20B	 SN64P	 SN20S

Dimensions (mm)



Connection Diagrams



SNC05-P1

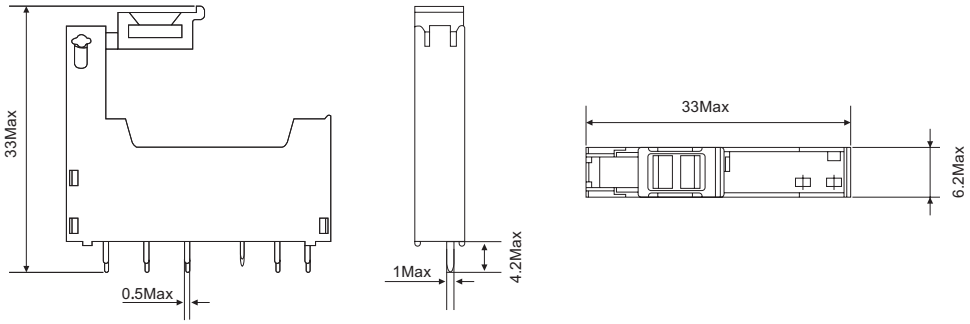
Solid state slim relay
PCB socket

Product performance

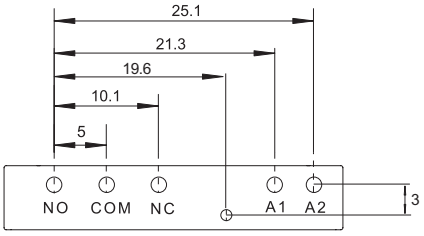
SNC05-P1

Nominal load	Current	A	6
	Voltage	V	300
Dielectric strength	Input/output	V/min	2500
Ambient temperature		℃	-40~+85
Unit weight		g	25

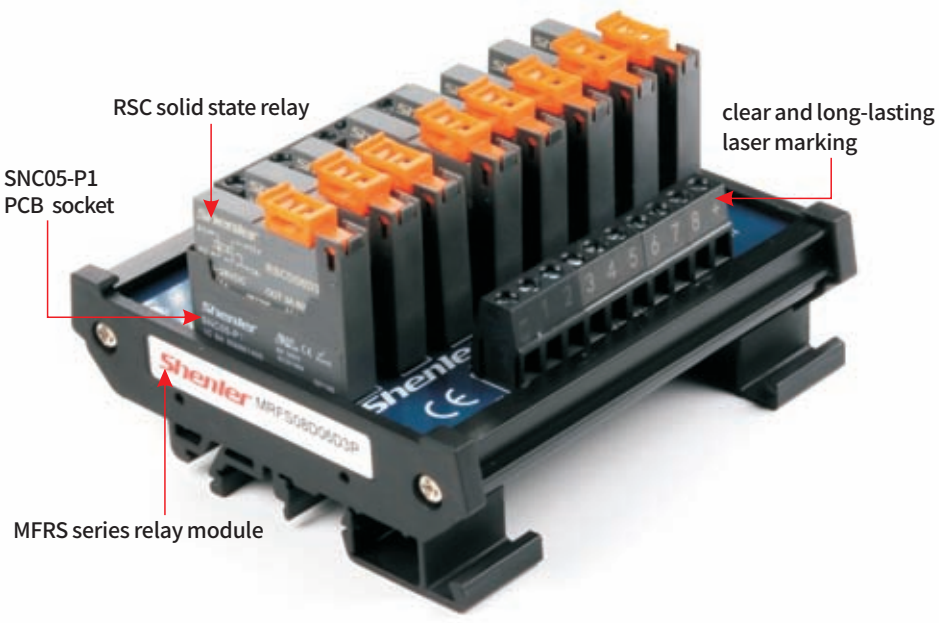
Dimension (mm)



Wiring Diagram



Physical drawing of product application



RSD-1D Series

DC Solid state relay

- 1 N/O SPST DC output
- No contact, no spark, long service life
- MOSFET output, fast switching response
- Imported optocoupler isolation
- Wide control voltage range, LED indicator
- Optional IP20 protective cover, panel mounting
- Widely used in DC heating, DC power supply, DC valve, DC motor, etc.

MOS tube

The relay adopts MOS tube with low internal resistance, which has low calorific value and long service life

Brass cooling base plate

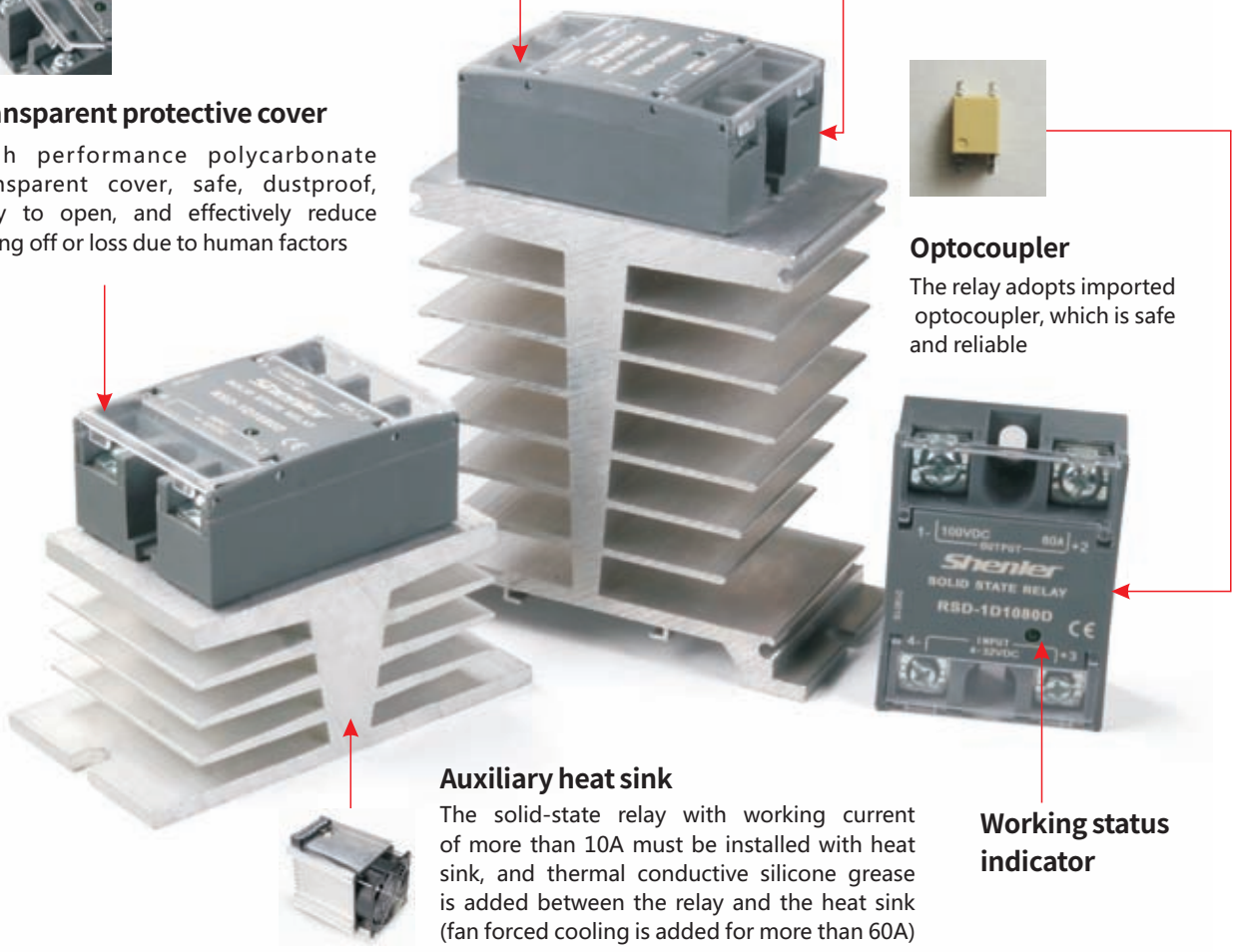
The back adopts thickened brass plate; smooth surface helps fast cooling and avoid overheat.

Transparent protective cover

High performance polycarbonate transparent cover, safe, dustproof, easy to open, and effectively reduce falling off or loss due to human factors

Optocoupler

The relay adopts imported optocoupler, which is safe and reliable



Auxiliary heat sink

The solid-state relay with working current of more than 10A must be installed with heat sink, and thermal conductive silicone grease is added between the relay and the heat sink (fan forced cooling is added for more than 60A)

Working status indicator

CE

RSD-1D Series

DC Solid state relay

RSD 1 D □ □ D

Control type
D:4-32VDC DC control

Load current

Code	20	40	60	80	100
Current (A)	20	40	60	80	100
Note				For load voltage code 06 and 10 only	

Load voltage

Code	06	10	20
Voltage Range (VDC)	7-48	7-75	7-120

Load type
D: DC load

Single-phase

Series name

Relay

Product performance

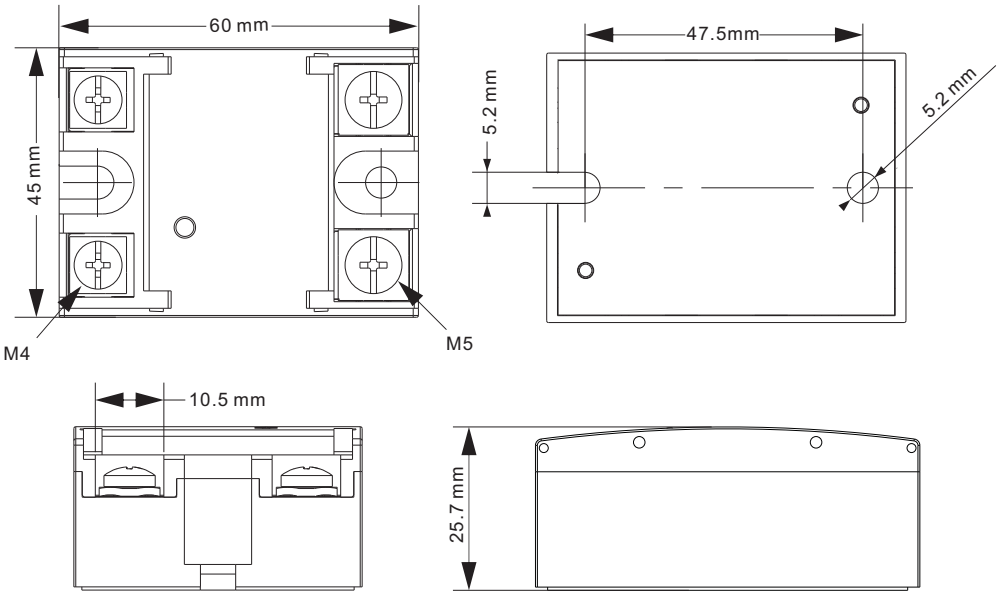
Input parameter (Ta=25℃)													
Control voltage range	4~32VDC												
Must ON voltage	4VDC												
Must OFF voltage	1VDC												
Control current range	6~20mA												
Output parameters (Ta=25℃)													
Part No.	RSD-1D06xxD					RSD-1D10xxD					RSD-1D20xxD		
Load voltage range(VDC)	7-48					7-75					7-120		
Maximum load current(A)	20	40	60	80	100	20	40	60	80	100	20	40	60
Maximum surge current (Apk,@10ms)	110	160	200	260	300	90	140	180	220	280	80	160	200
Maximum PWM(Hz) ★	900	700	700	500	500	900	600	600	400	400	800	600	400
Maximum conduction voltage drop(V)	≤1										≤1.2		
Maximum off- state leakage current(mA)	≤0.3												
Minimum load current(mA)	≥2												
Maximum conduction time(ms)	1												
Maximum off time(ms)	1												
Other parameters (Ta=25℃)													
Dielectric withstand voltage (50/60Hz)	Between Input and Output	2500Vrms											
	Input/Output to base	2500Vrms											
Insulation resistance(@500VDC)	1000MΩ												
Operating temperature range	-30℃~+80℃												
Storage temperature range	-40℃~+100℃												
Operating ambient humidity range	5 ~ 85%HR												
Cooling mode	Install the heat sink and add fan forced cooling when the temperature exceeds 60℃												
Weight Approx	90g												

★ Note: For PWM rating, a voltage of at least 8 Vdc must be applied to the control input.

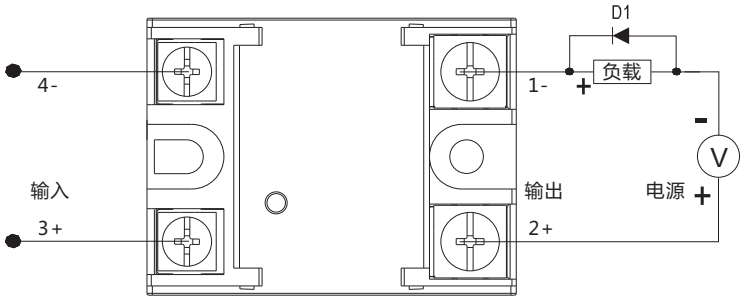
RSD-1D Series

DC Solid state relay

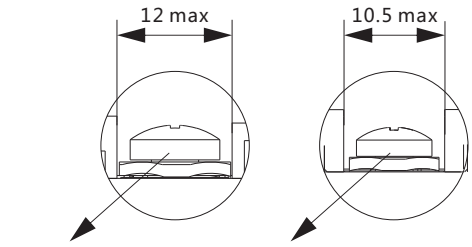
Dimensions (mm)



Wiring Diagrams



*When inductive load is used, suppression circuit must be added, as shown in the figure: reverse parallel freewheeling diode D1 at both ends of the load (D1 is a fast recovery diode)



N5 screw Output terminal

M4 screw Input terminal

To use cold rolled copper lugs

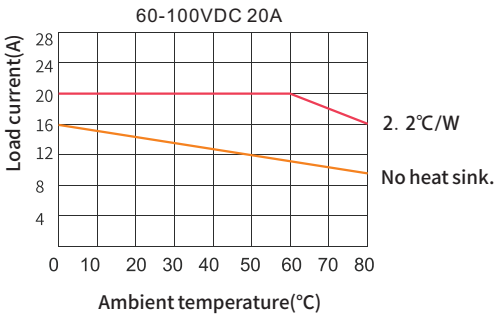
Output screw torque:(1.5-1.8)N·m

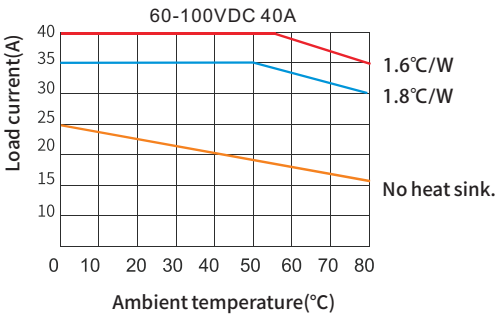
Input screw torque: (1.2-1.4)N·m

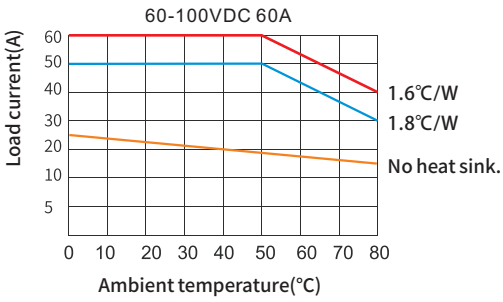
RSD-1D Series

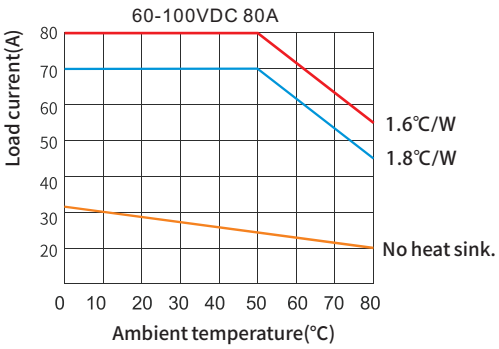
DC Solid state relay

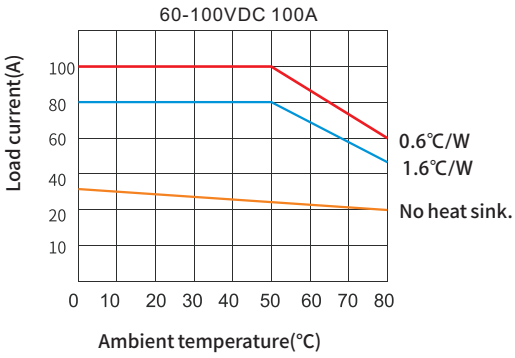
Performance curve

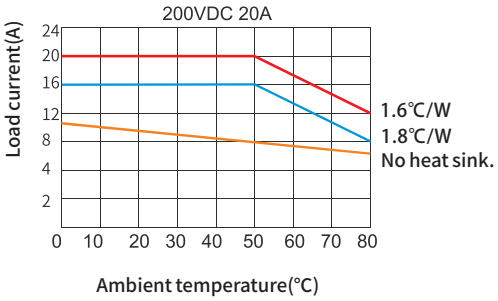


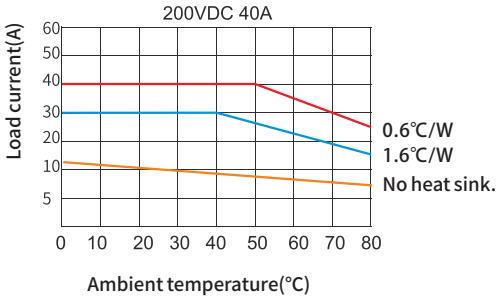


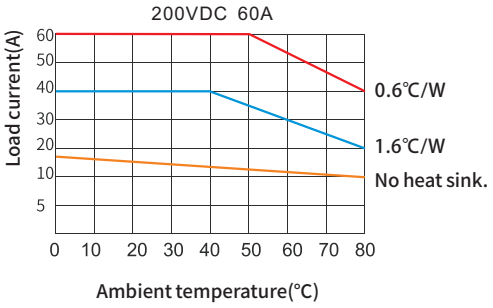












Comparison table of derating coefficient

Considering the load surge current and the overload capacity of the relay to make the relay work with long life and high reliability, it is recommended to take the value of derating coefficient corresponding to the load type in the following table.

Load type	Resistance	Electric heating wire	Incandescent lamp	ransformer / electromagnet	Motor
Power factor	1.0	0.7	0.5	0.4	0.2
Magnification	1.5multiple	2multiple	2.5multiple	4multiple	7multiple

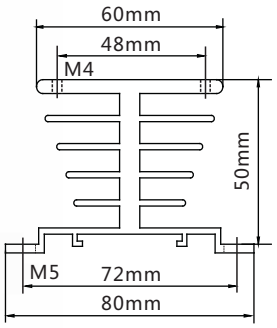
Note

1. Please be sure to set fuse, air circuit breaker and other protective equipment on the power side to prevent short circuit.
2. When connecting inductive load, be sure to reverse parallel freewheeling diode at the load end (see "Terminal configuration and wiring diagram" for specific connection method)!
3. M5 screw and spring washer are used with 2N.m torque. After 3 hours of use, tighten it once with the same torque. To ensure the close contact and firm installation between the base plate of the solid-state relay (hereinafter referred to as the product) and the heat sink.
4. The product wiring shall be standard wire, and the cross-sectional area can be selected according to 5-8A per square millimeter. The terminal shall ensure that the wiring is firm. Loose wiring will lead to abnormal heating and damage to the product. In case of high temperature and high humidity environment, conductive compound shall also be coated on the connection part.
5. The input terminal is standard M4 screw, and the wiring tightening torque is (1.2-1.4) N.m. the output terminal is standard M5 screw, and the wiring tightening torque is (1.5-1.8) N.m.
6. Please do not connect the current above the rated specification. Otherwise, it may cause abnormal heating of the product.
7. Do not apply voltage exceeding the rated value on the input circuit and output circuit, and pay attention to the wrong connection of positive and negative polarity, otherwise the product will fail or burn.
8. Requirements for installatio: it shall be installed vertically on the chassis with good ventilation conditions, and make full use of the heat dissipation conditions of air convection. When two or more products are installed side by side, an appropriate large gap shall be reserved.
9. When the ambient temperature of the product is high, please refer to "Performance curve" to check the current temperature curve for derating. When it exceeds 60 ℃, air cooling is needed to ensure that the temperature of the product bottom plate does not exceed 80 ℃.
10. Before installation, maintenance and other operations, be sure to cut off the power supply in case of electric shock!

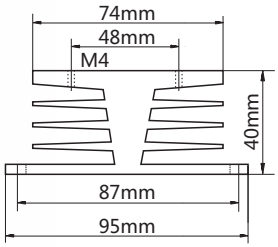
KSR-1 Series

Single phase heat sink

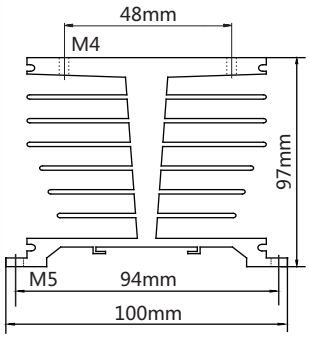
- Selection of heat sink: select the heat sink corresponding to thermal resistance according to "Performance curve" of solid-state relay to see the current temperature curve of solid-state relay. The smaller the thermal resistance value, the better the heat dissipation effect. >>>>>



Part No.	W x L x H	Weight≈	Thermal resistance
KSR-1A-50	50×80×50	70g	2.2℃/W

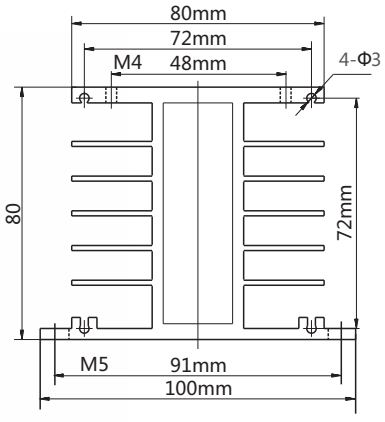


Part No.	W x L x H	Weight≈	Thermal resistance
KSR-1E-50	50×95×40	225g	1.8℃/W



Part No.	W x L x H	Weight≈	Thermal resistance
KSR-1T-50	50×100×97	324g	1.6℃/W
KSR-1TF-76	76×100×97	580g	0.6℃/W

Note: the length of KSR-1TF-76 with fan is 76mm



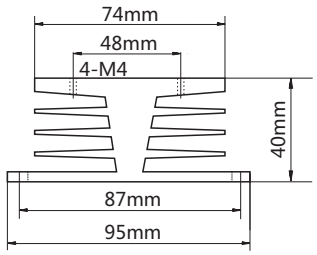
Part No.	W x L x H	Weight≈	Thermal resistance
KSR-1H-50	50×100×80	220g	1.8℃/W
KSR-1HF-76	76×100×80	480g	0.8℃/W

Note: the length of KSR-1TF-76 with fan is 76mm

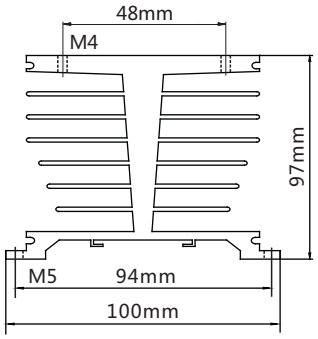
KSR-1 Series

Single phase heat sink

- Selection of heat sink: select the heat sink corresponding to thermal resistance according to "Performance curve" of solid-state relay to see the current temperature curve of solid-state relay. The smaller the thermal resistance value, the better the heat dissipation effect.

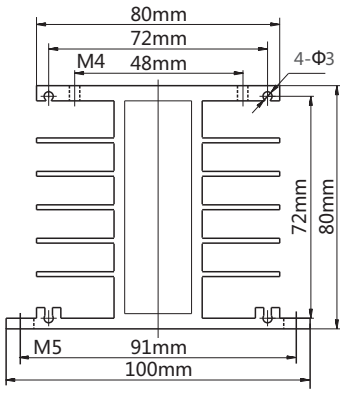


Part No.	W x L x H	Weight≈	Thermal resistance
KSR-3E-50	105×95×40	460g	1.1℃/W



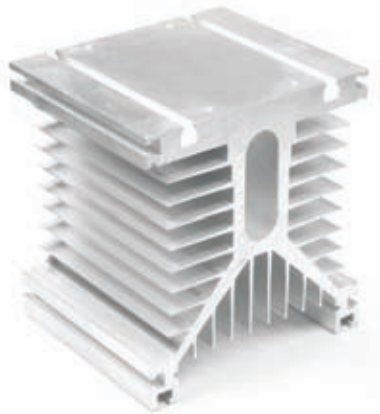
Part No.	W x L x H	Weight≈	Thermal resistance
KSR-3T-110	110×100×97	750g	0.8℃/W
KSR-3TF-136	136×100×97	1100g	0.35℃/W

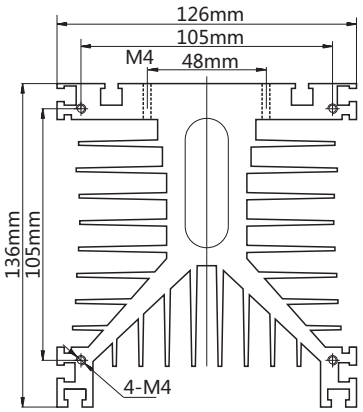
Note: the length of KSR-3TF-13 with fan is 136mm



Part No.	W x L x H	Weight≈	Thermal resistance
KSR-3H-110	110×100×80	460g	1℃/W
KSR-3H-150	150×100×80	630g	0.8℃/W
KSR-3HF-136	136×100×80	670g	0.5℃/W
KSR-3HF-176	176×100×80	840g	0.4℃/W

Note: the length of KSR-3HF-13 with fan is 136mm
Note: the length of KSR-3HF-176 with fan is 176mm





Part No.	W x L x H	Weight≈	Thermal resistance
KSR-3Y-110	110×126×136	1400g	0.5℃/W
KSR-3Y-150	150×126×136	1900g	0.4℃/W

Note: the length of KSR-3Y Series with fan is 38mm

TKB
Timer Relay

- Built-in dedicated IC program control mini time relay
- Reset time include mindway reset time under 100ms
- Use ⊖ screwdriver to set time
- Meet IEC60947-5-1: 2016 (GB/T14048.5-2017)

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

Time dial
Various delay time is optional.

Top copper coil material
Standard turns and electromagnetic coils make the pick-up more reliable and enduring, which can reach more than 20 million cycles.

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

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

CE

TKB
Timer Relay

CE

Relay

+

Socket

=

Relay module

TKB 2 B 230A 5S

Rated time
1s: 0.1s-1s
5s: 0.2s-5s
10s: 0.5s-10s
30s: 1s-30s
60s: 2.0s-60s
3min: 0.1min-3min
5min: 0.2min-5min
10min: 0.5min-10min
30min: 1min-30min

Supply voltage
120A: 120VAC
230A: 230VAC
24D: 24VDC

Function
B: On-delay
E: Interval time-delay opeartion
F: Repeat-cycle off time delay

Terminal Tyoe
2: 2CO
4: 4CO

Series name

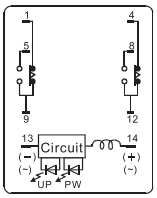
Characteristics

Configuration		TKB2B	TKB2E	TKB4B	TKB4E
Rated supply voltage		120VAC, 230VAC 50/60Hz; DC24V			
Operating voltage range		Rated voltage 85-110% (90%-110% is DC12V)			
Power consumption		3.5W			
Max.output load		5A, 250 VAC (p.f.=1)		3A, 250 VAC (p.f.=1)	
Min. output load		10 mA, 17 VDC			
Repetitive error		±2% (FS max.)			
Setting error		±5% (FS max.)			
Voltage error		±2% (FS max.)			
Temperature error		±2% (FS max.)			
Resetting time		Min.time: 0.2 sec			
Insulation resistance		100MΩ(DC500V)			
Dielectric strength		Between current-carrying and Non-current-carrying parts 2000V 50/60Hz min			
		Between control output terminals and operating circuit1500V 50/60Hz min			
		Between contacts 1000V 50/60Hz min			
Vibration resistance	Destruction	10~55Hz with 0.75mm single amplitude each in 3directions for 2 hours each			
	Malfubction	10~55Hz with 0.5mm single amplitude each in 3 directions for 10 minutes each			
Shock resistance	Destruction	30G			
	Malfubction	10G			
Storage temperature		-55~+85℃/ ≤85%RH (18 months) ★			
Ambient temperature		-10℃~55℃			
Ambient humidity		35~85%RH			
Life expectancy	Mechanical	$>10^7$ (under no load, at 1,800 operations/hour)			
	Electrical	$>10^5$			
Weight		approx. 35g			

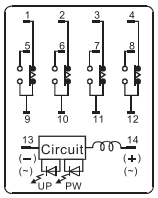
★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test theparameters before using.

TKB
Timer Relay

wiring diagram



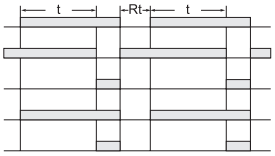
TKB2B TKB2E



TKB4B TKB4E

Timing charts

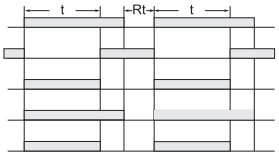
Power13-14
Time-limit contact (NC)9-1、12-4
Time-limit contact (NO)9-5、12-8
Power indicator
Output indicator



TKB2B

NOTE: t :set time, Rt: reset time

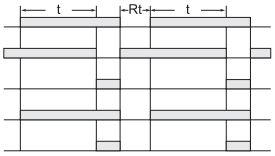
Power13-14
Time-limit contact (NC)9-1、12-4
Time-limit contact (NO)9-5、12-8
Power indicator
Output indicator



TKB2E

NOTE: t :set time, Rt: reset time

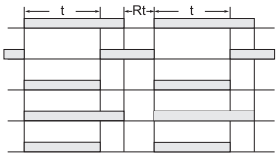
Power13-14
Time-limit contact (NC)9-1、10-2、
11-3、12-4
Time-limit contact (NO)9-5、10-6、
11-7、12-8
Power indicator
Output indicator



TKB4B

NOTE: t :set time, Rt: reset time

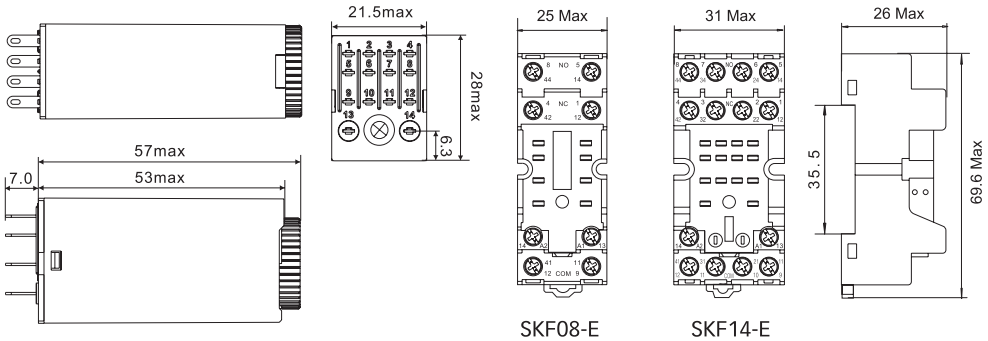
Power13-14
Time-limit contact (NC)9-1、10-2、
11-3、12-4
Time-limit contact (NO)9-5、10-6、
11-7、12-8
Power indicator
Output indicator



TKB4E

NOTE: t :set time, Rt: reset time

Dimensions(mm)



SKF08-E SKF14-E

Accessory Series

SR15L	SR20T	SR20F	SR25C	SK28L	SK36F
					
SRC/SRB	SRU	SRC	SRC/SRU	SKB/SKC	SKB/SKC

SN20S	SR2P	SK2P	SU3P	SK4P	SN64P
					
SNC05-E/S	SRC/SRB/SRU	SKE/SKF	SUB	SKC/SKB	SNC05-E/S

ST01CC	SN20A	SN20B	SR08B	SR08C	PFP	SY36S	SR15M
							
SKC08/14-ST SRU05/08-ST SRC05/08-ST	SNB-E	SNC05-E/S	SRU05/08-E, SRC05/08-E	SRT05/08-E/-A/-ES	DIN	SYF	SRC05/08-P

SR1520M	SR2025M	ST36M3C	ST36M4C	SK36M	SE48M	SE52M	SU60M
							
SRC05/08-P	SRC05/08-P	STB11-E	STB14-E	SKC/SKB/SKE/ SKF	SEB11-P	SEB11-E	SUB

AMD Module

Socket accessories

cULus

AMD – □ □ □ □

Voltage
VAC:AC voltage
VDC:DC voltage
V:AC and DC voltage general

LED
N： red
NO： green

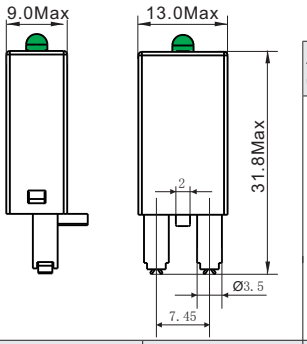
Polarity
blank : A1 - , A2 +
1: A1 + , A2 -

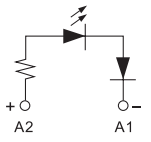
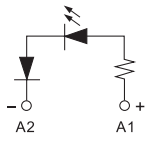
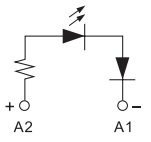
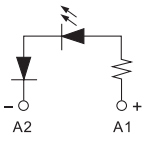
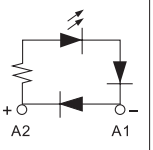
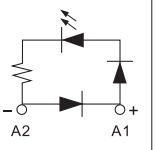
Description
L : LED
LDD: LED + diode
RC: RC circuit
ML: Varistor + LED
M: Varistor
D:diode

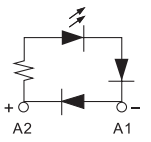
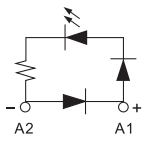
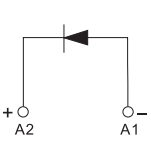
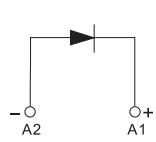
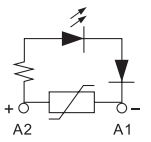
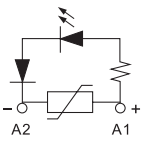
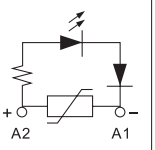
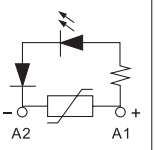
Series

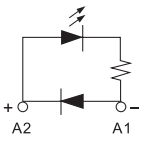
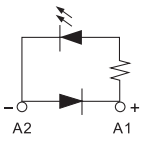
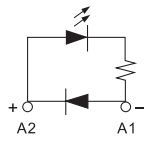
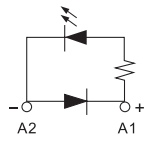
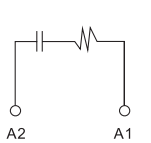
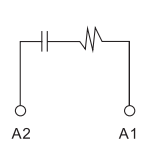
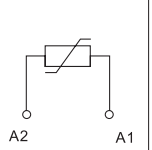
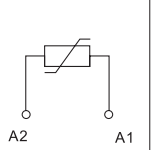
- For surge suppressor
- With LED
- Work with relay socket

Dimensions & Schemes (mm)



AMD-L 6-24VAC/DC	AMD-L1 6-24VAC/DC	AMD-L 110-240VAC/DC	AMD-L1 110-240VAC/DC	AMD-LDD 6-24VDC	AMD-LDD1 6-24VDC
					
AC/DC circuit + LED	AC/DC circuit + LED	AC/DC circuit + LED	AC/DC circuit + LED	DC Voltage peak suppression DC circuit+ LED	DC Voltage peak suppression DC circuit+ LED

AMD-LDD 110V/240VDC	AMD-LDD1 110V/240VDC	AMD-D 6-250VDC	AMD-D1 6-250VDC	AMD-ML 24VAC/DC	AMD-ML1 24VAC/DC	AMD-ML 240VAC/DC	AMD-ML1 240VAC/DC
							
DC Voltage peak suppression DC circuit+ LED	DC Voltage peak suppression DC circuit+ LED	DC Voltage peak suppression	DC Voltage peak suppression	AC/DC Circuit over- voltage protection AC/DC circuit+ LED	AC/DC Circuit over- voltage protection AC/DC circuit+ LED	AC/DC Circuit over- voltage protection AC/DC circuit+ LED	AC/DC Circuit over- voltage protection AC/DC circuit+ LED

AMD-LD 6-24VDC	AMD-LD1 6-24VDC	AMD-LD 110-240VDC	AMD-LD1 110-240VDC	AMD-RC 6-24VAC	AMD-RC 110-240VAC	AMD-M 24VAC/DC	AMD-M 240VAC/DC
							
DC Voltage peak suppression DC circuit+ LED	DC Voltage peak suppression DC circuit+ LED	DC Voltage peak suppression DC circuit+ LED	DC Voltage peak suppression DC circuit+ LED	AC circuit + RC	AC circuit + RC	AC/DC Voltage peak suppression	AC/DC Voltage peak suppression

BMD Module

Socket accessories

c UL us

BMD – □ □ □ □

Voltage
VAC:AC voltage
VDC:DC voltage
V:AC and DC voltage general

LED
N： red
NO： green

Polarity
blank : A1 - , A2 +
1: A1 + , A2 -

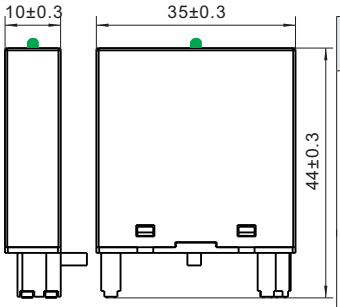
Description

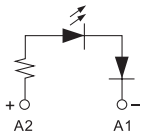
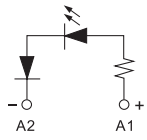
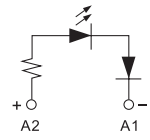
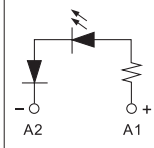
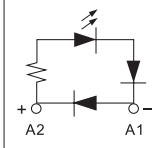
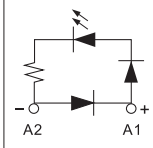
L : LED	ML: Varistor + LED
LDD: LED + diode	M: Varistor
RC: RC circuit	D:diode

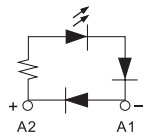
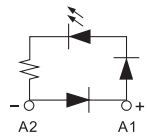
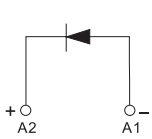
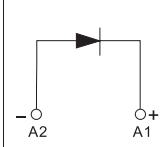
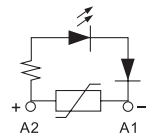
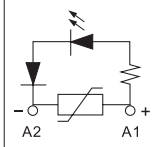
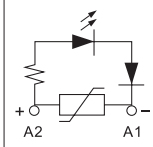
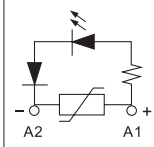
Series

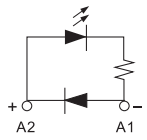
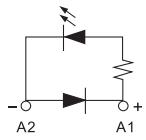
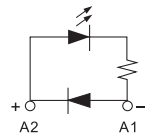
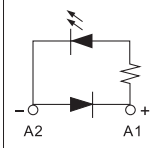
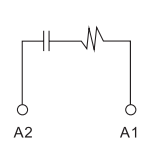
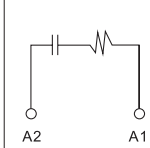
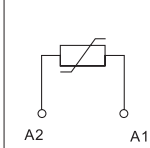
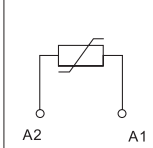
- For surge suppressor
- With LED
- Work with relay socket

Dimensions & Schemes (mm)



BMD-L 6-24VAC/DC	BMD-L1 6-24VAC/DC	BMD-L 110-240VAC/DC	BMD-L1 110-240VAC/DC	BMD-LDD 6-24VDC	BMD-LDD1 6-24VDC
					
AC/DC circuit + LED	AC/DC circuit + LED	AC/DC circuit + LED	AC/DC circuit + LED	DC Voltage peak suppression DC circuit+ LED	DC Voltage peak suppression DC circuit+ LED

BMD-LDD 110V/240VDC	BMD-LDD1 110V/240VDC	BMD-D 6-250VDC	BMD-D1 6-250VDC	BMD-ML 24VAC/DC	BMD-ML1 24VAC/DC	BMD-ML 240VAC/DC	BMD-ML1 240VAC/DC
							
DC Voltage peak suppression DC circuit+ LED	DC Voltage peak suppression DC circuit+ LED	DC Voltage peak suppression	DC Voltage peak suppression	AC/DC Circuit over-voltage protection	AC/DC Circuit over-voltage protection	AC/DC Circuit over-voltage protection	AC/DC Circuit over-voltage protection

BMD-LD 6-24VDC	BMD-LD1 6-24VDC	BMD-LD 110-240VDC	BMD-LD1 110-240VDC	BMD-RC 6-24VAC	BMD-RC 110-240VAC	BMD-M 24VAC/DC	BMD-M 240VAC/DC
							
DC Voltage peak suppression	DC Voltage peak suppression	DC Voltage peak suppression	DC Voltage peak suppression	AC circuit + RC	AC circuit + RC	AC/DC Voltage peak suppression	AC/DC Voltage peak suppression

Note