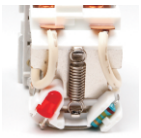
RKF

Miniature General
Purpose Relay

- 2 poles 12A; 4 poles 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



LED

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

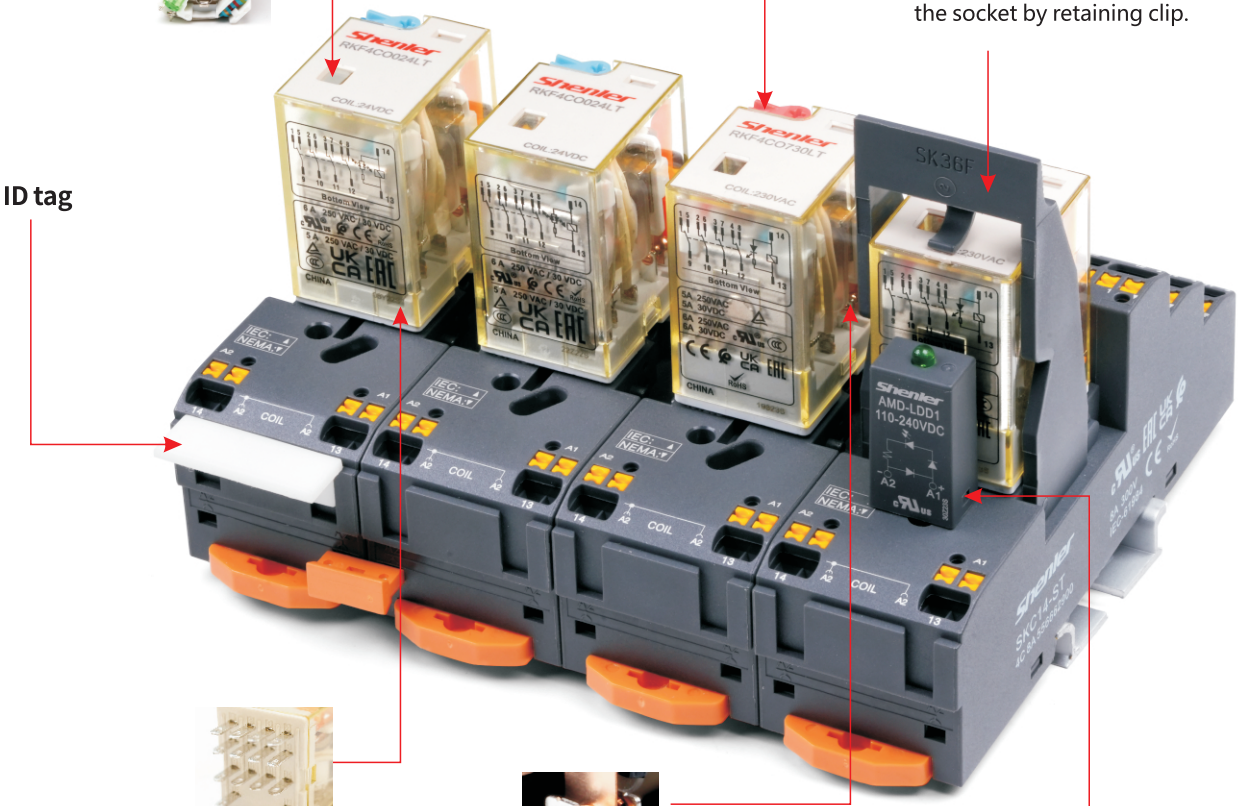
Test button

On-site test is available with test button.

Plastic clip

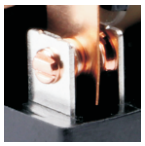
The relay is firmly attached to the socket by retaining clip.

ID tag



High quality 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.

AMD module

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-)
LTA: LED + test button + gold plated contact
LTDA: LED + test button + diode+gold plated contact
LT M: LED+test button, with 0.65Un coil tuned

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/10mA)	
	Initial contact resistance		≤50mΩ	
	Material		Ag alloy	
	Electrical durability (110%rated voltage, 55℃)		≥20 x 10^4Cycles (1800 Ops/h)	
	Electrical 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(60Hz)	
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	2
		Overvoltage level	III	II
Impulse withstand voltage (waveform: 1.2/50μs)			4000V(Altitude 2000m)	
Protection level			IP20	
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

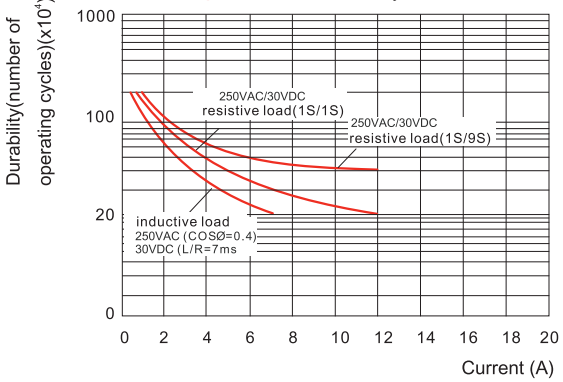
Coil Specifications (23°C)

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

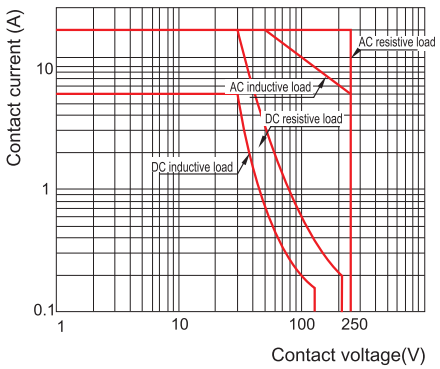
Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

Contact Specification

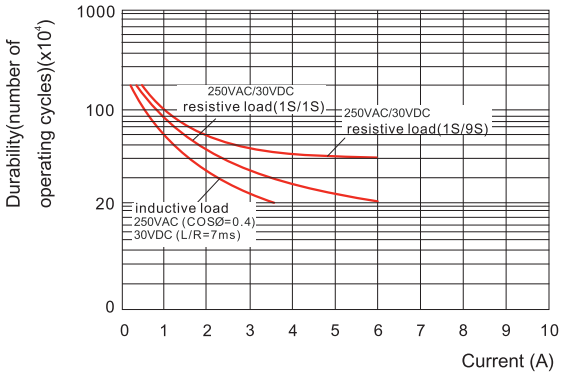
RKF2C Electrical durability contacts



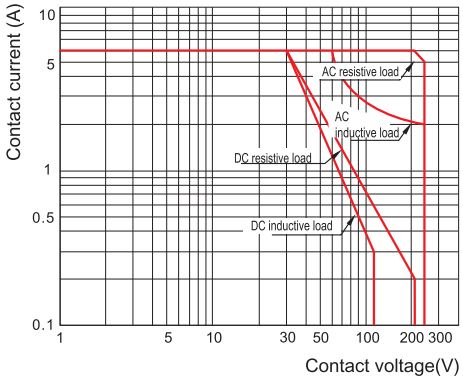
Maximum switching capacity



RKF4C Electrical durability contacts



Maximum switching capacity

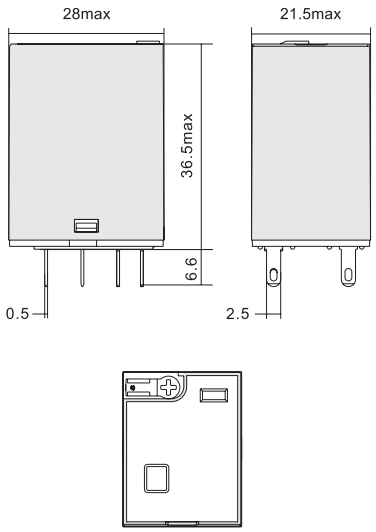


RKF

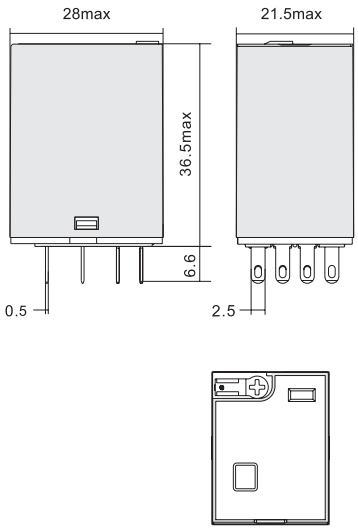
Miniature General
Purpose Relay

Dimensions (mm)

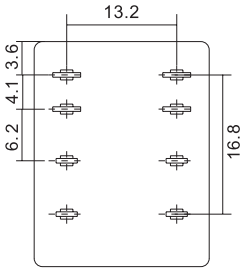
RKF2CO



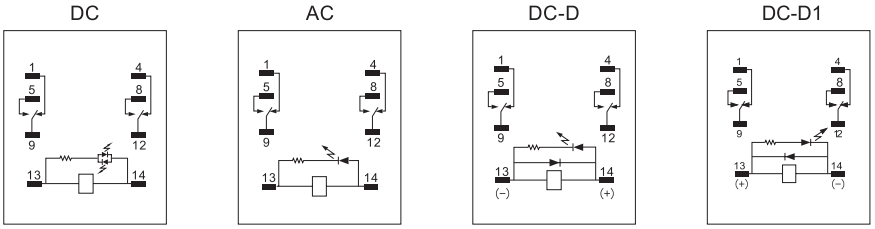
RKF4CO

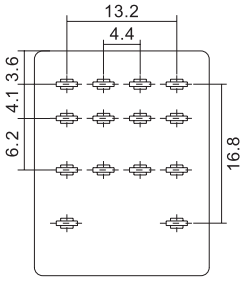


Wiring Diagrams

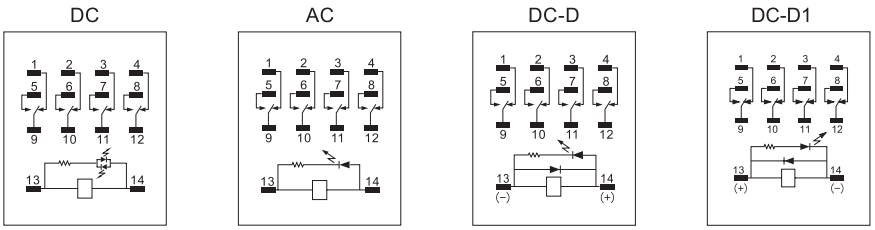


RKF2CO





RKF4CO



SKF08-E & SKF14-E

RKF Socket

Characteristics

SKF08-E

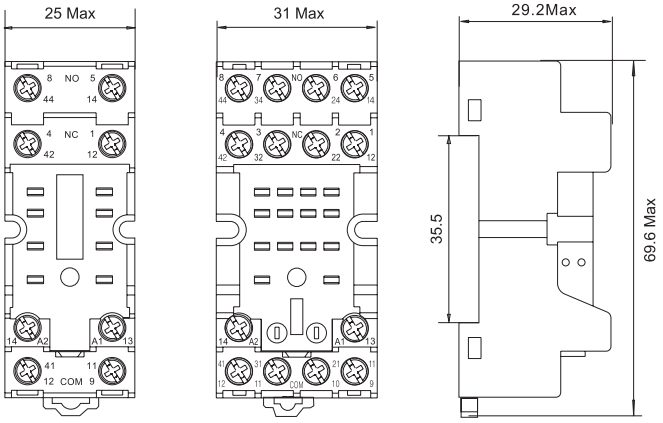
SKF14-E

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	2000	
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

Accessories

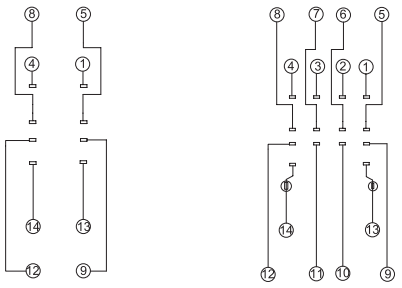
Socket	Metal clip	ID tag	Module
SKF08-E			
SKF14-E	SK36M	SK2P	AMD

Dimensions (mm)



SKF08-E SKF14-E

Connection Diagrams



SKF08-E

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

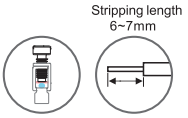
SKF14-E

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

SKB08-E & SKB14-E

RKF Socket

Characteristics



SKB08-E

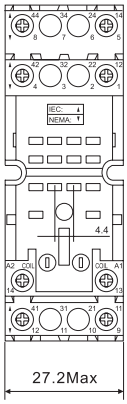
SKB14-E

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

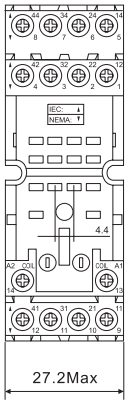
Accessories

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

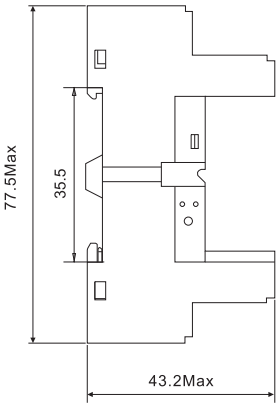
Dimensions (mm)



SKB08-E



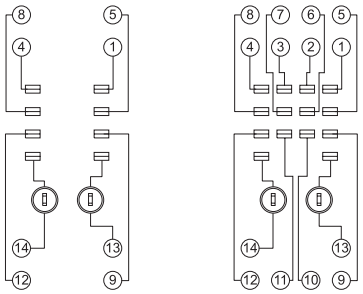
SKB14-E



Connection Diagrams

SKB08-E

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

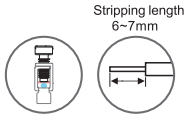


SKB14-E

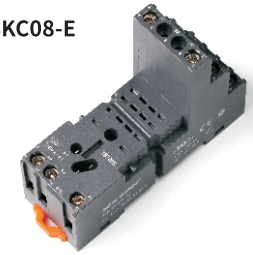
⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SKC08-E & SKC11-E & SKC14-E RKF Socket

Characteristics



SKC08-E



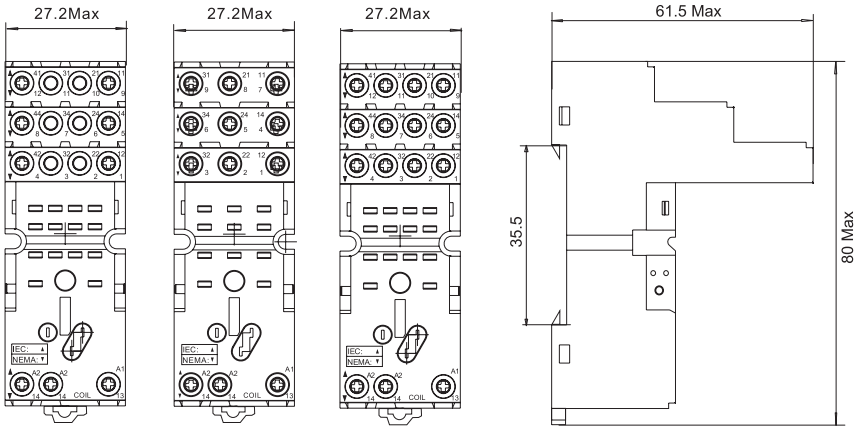
SKC14-E

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

Accessories

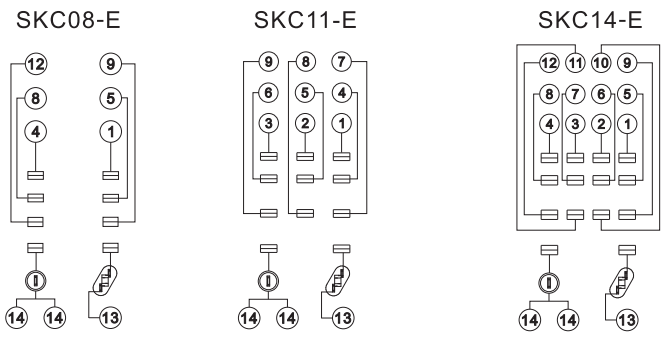
Socket	Plastic clip	Metal clip	ID tag	Module
SKC08-E				
SKC11-E				
SKC14-E	SK36F	SK36M	SK4P	AMD

Dimensions (mm)



SKC08-E SKC11-E SKC14-E

Connection Diagrams



SKC08-ST & SKC14-ST

RKF Socket

Characteristics

SKC08-ST

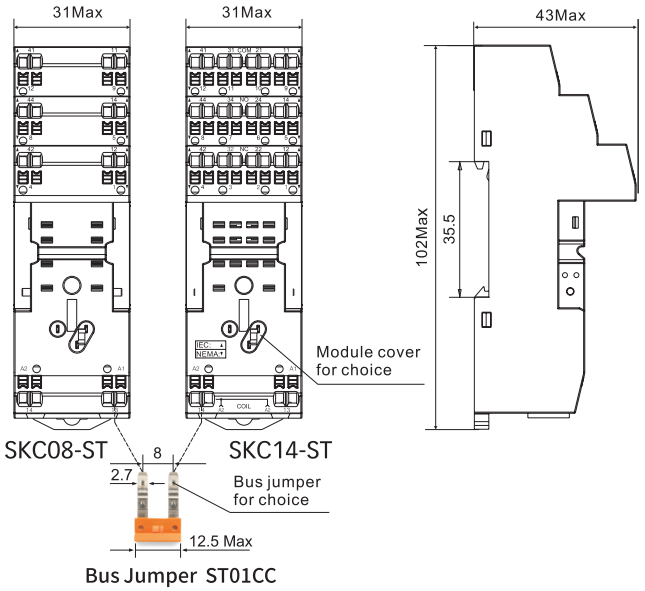
SKC14-ST

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	20-16/0.5-1.5	
Ambient temperature		℃	-40~+85	
Unit weight		g	80	80

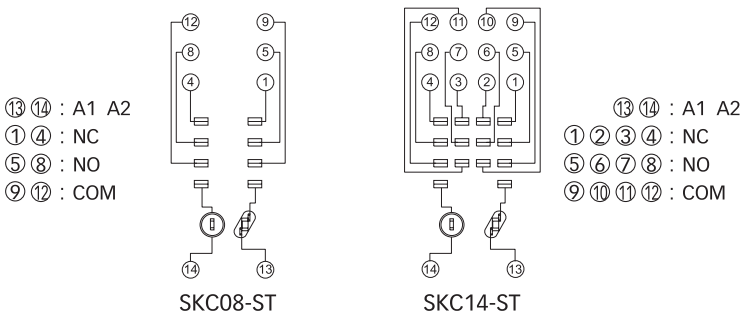
Accessories

Socket	Plastic clip	Metal clip	ID tag	Module	Bus Jumper
SKC08-ST					
SKC14-ST					
	SK36F	SK36M	SK4P	AMD	ST01CC

Dimensions (mm)



Connection Diagrams

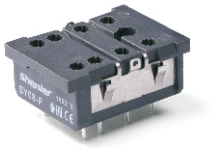


SY08-P & SY14-P

RKF Socket

Characteristics

SY08-P



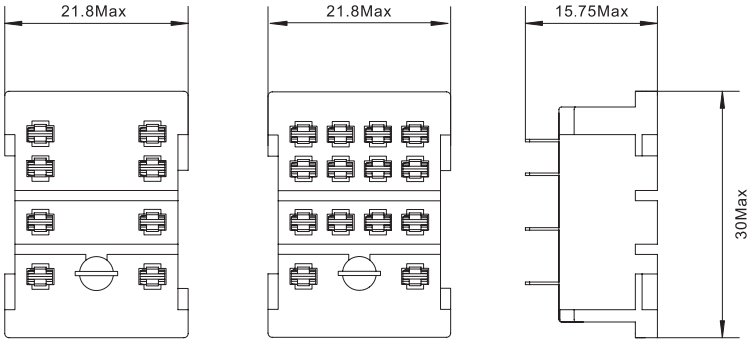
SY14-P

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

Accessories

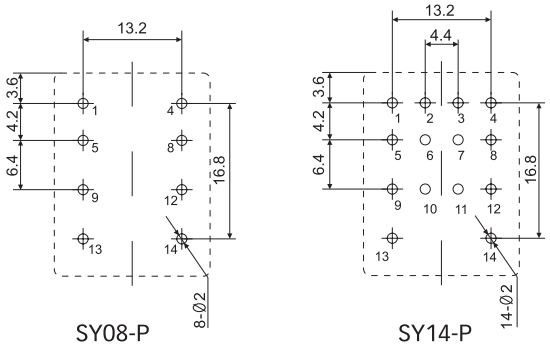
Socket	Metal clip
SY08-P	 SY36M
SY14-P	

Dimensions (mm)



SY08-P SY14-P

Connection Diagrams



SY08-P SY14-P

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

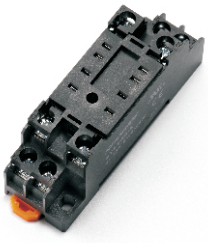
⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SYF08A-E S

RKF—S Magnetic Blow—out
Power Relay Socket

Characteristics

SYF08A-E S

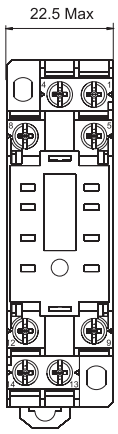


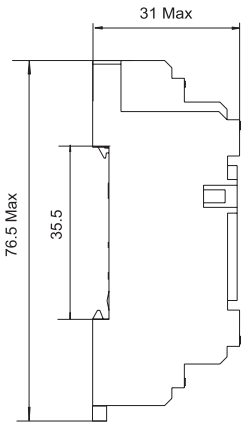
Type			SYF08A-E S
Nominal load	Current	A	15
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	3000
	Between contacts	V/min	2000
Max. tightening torque		Nm	1.0
Wire size		AWG/mm²	20-14/0.5-2.5
Ambient temperature		℃	-40~+65
Unit weight		g	37

Accessories

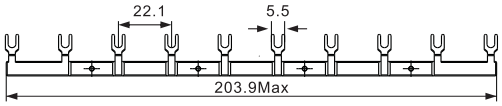
Socket	Bus jumper	Metal clip
SYF08A-E S	 SY10C	 SY36S

Dimensions (mm)



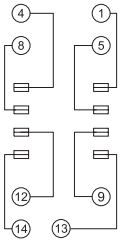


SYF08A-E S



SY10C

Connection Diagrams



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

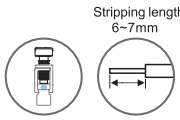
SYF08A-E S

SKC08-E S

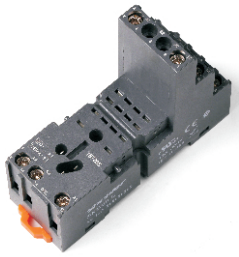
RKF—S Magnetic Blow—out
Power Relay Socket

CE

Characteristics



SKC08-E S

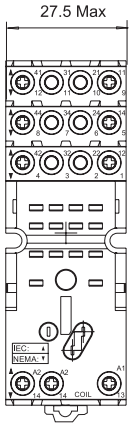


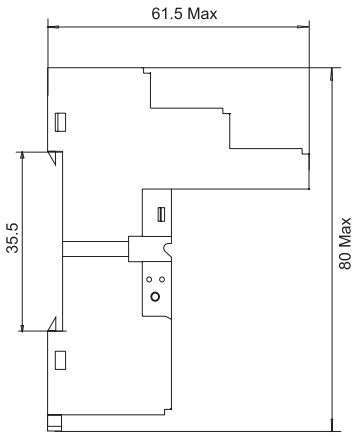
Type			SKC08-E S
Nominal load	Current	A	15
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque		Nm	-
Wire size		AWG/mm²	20-16/0.5-1.5
Ambient temperature		℃	-40~+85
Unit weight		g	50

Accessories

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

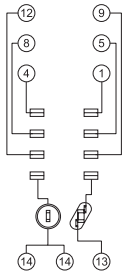
Dimensions (mm)





SKC08-E S

Connection Diagrams



⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SKC08-E S