RKE

Miniature General
Purpose Relay

- 2 poles 7A; 4 poles 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

Metal clip

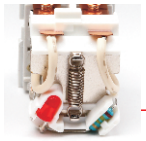
The relay is firmly attached to the socket by Metal clip.

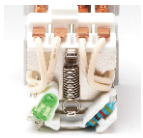
Test button

On-site test is available with test button.

Plastic clip

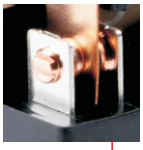
The relay is firmly attached to the socket by retaining clip.





Silver alloy contacts

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



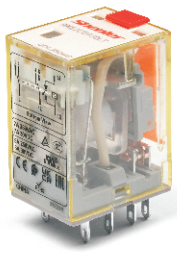
High quality alloy pins

Strong contact, instantaneous conductivity and stable performance.

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-)
LT M: LED+test button, with 0.65Un coil tuned
LTA: LED + test button +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	
	Electrical durability (high temp., frequency 1s on, 1s off)		≥20 x 10^4Cycles (1800 Ops/h)	
	Electrical durability (normal temp., frequency 1s on, 1s off)		≥40x 10^4Cycles (360 Ops/h)	
	Electrical durability (normal temp., frequency 1s on, 9s off)		≥50x 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(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	
	Overvoltage level		III	
Impulse withstand voltage (waveform: 1.2/50μs)			4000V	
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	

RKE

Miniature General
Purpose Relay

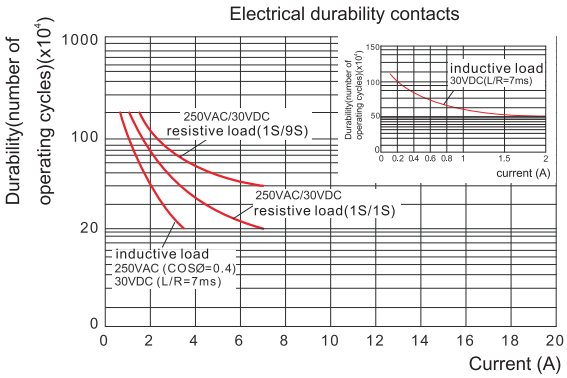
Coil Specifications (23°C)

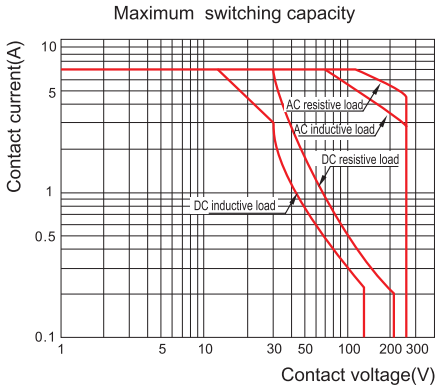
Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	11.5	180	370	640	4430	16500	42000

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

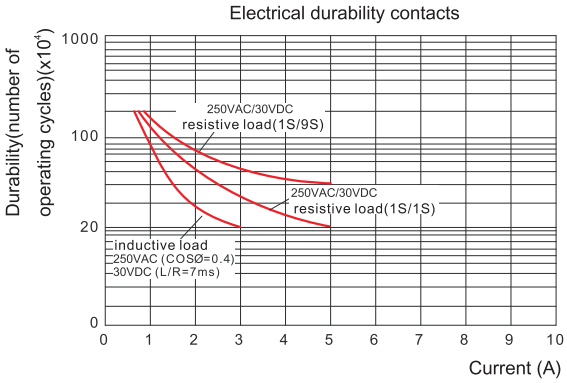
Contact Specification

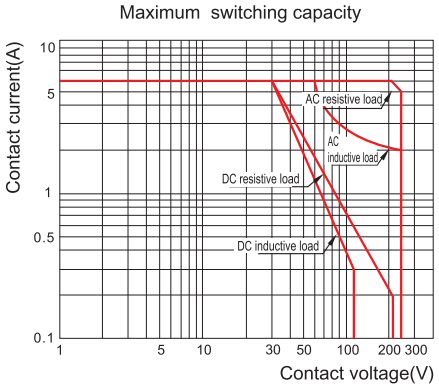
RKE2CO





RKE4CO





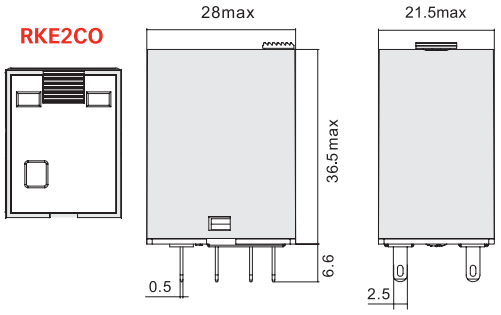
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc

RKE

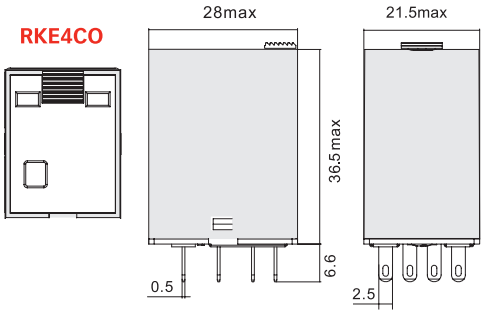
Miniature General
Purpose Relay

Dimensions (mm)

RKE2CO

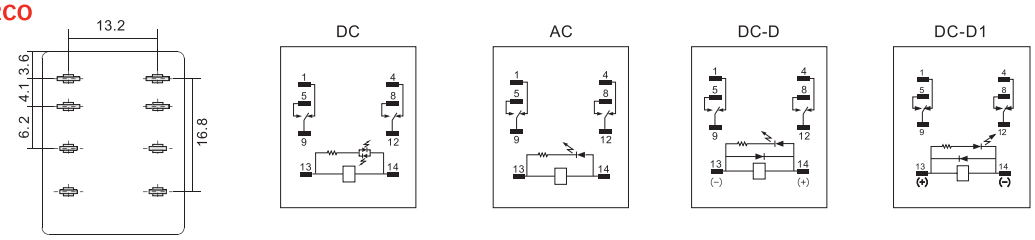


RKE4CO

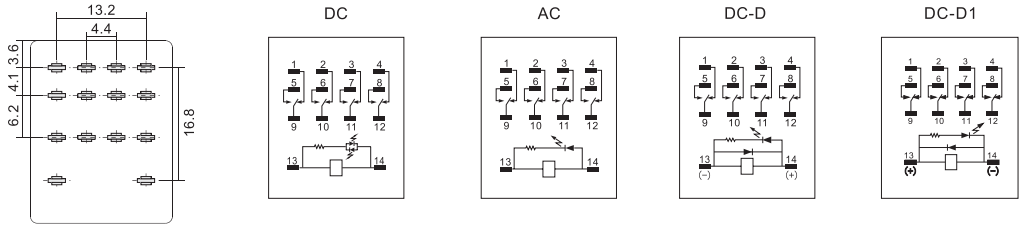


Wiring Diagrams

RKE2CO



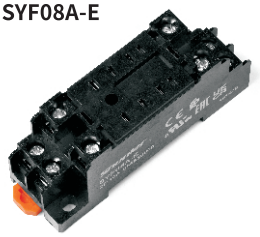
RKE4CO



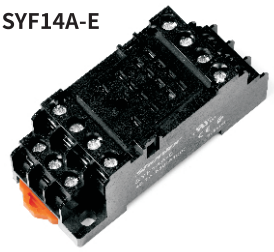
SYF08A-E & SYF11A-E & SYF14A-E RKE Socket

Characteristics

SYF08A-E



SYF14A-E

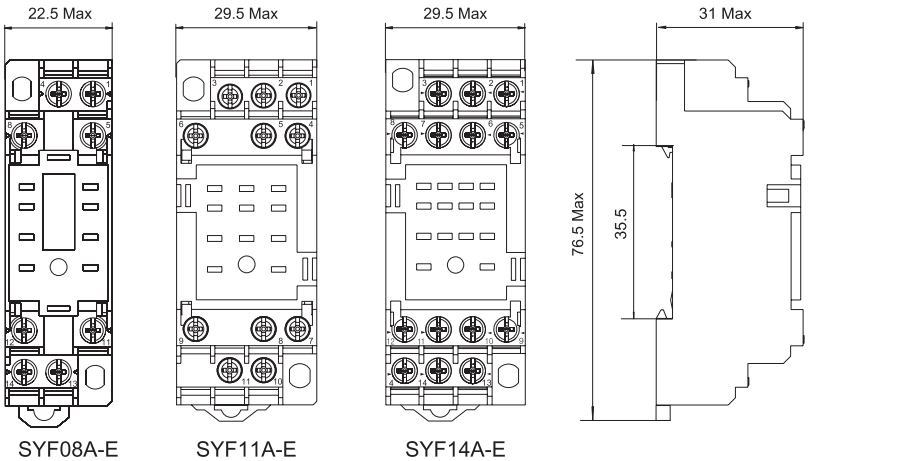


Type			SYF08A-E	SYF11A-E	SYF14A-E
Nominal load	Current	A	10	7	7
	Voltage	V	300		
Dielectric strength	Between coil and contact	V/min	3000		
	Between contacts	V/min	2000		
Max. tightening torque		Nm	1.0		
Wire size		AWG/mm²	20-14/0.5-2.5		
Ambient temperature		℃	-40~+85		
Unit weight		g	37	56	57

Accessories

Socket	Bus jumper		Metal clip
SYF08A-E			
SYF11A-E			
SYF14A-E	SY08C	SY10C	SY36S

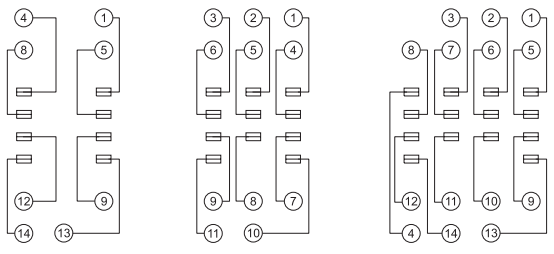
Dimensions (mm)



SY10C - Adapt to SYF08A-E

SY08C - Adapt to 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

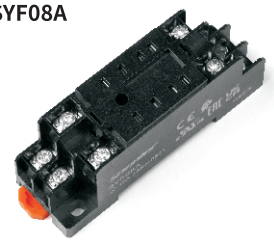
SYF14A-E

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

SYF08A & SYF11A & SYF14A RKE Socket

Characteristics

SYF08A



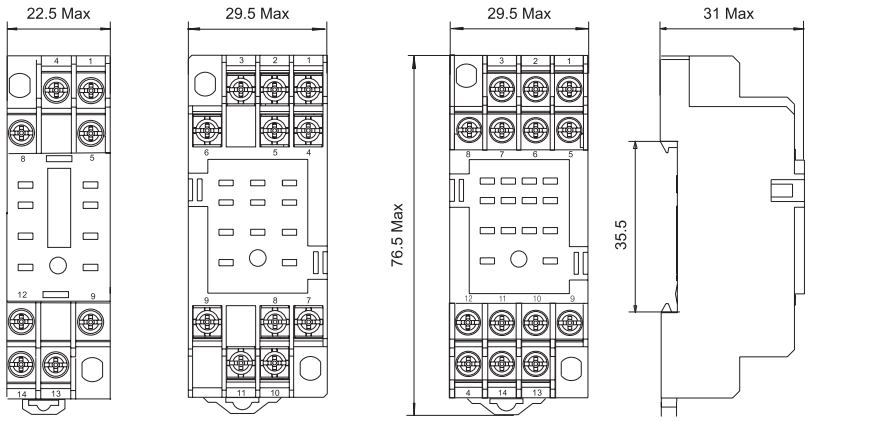
SYF14A

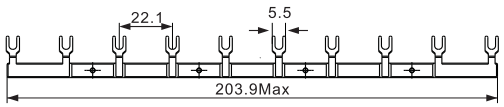
Type			SYF08A	SYF11A	SYF14A
Nominal load	Current	A	10	7	7
	Voltage	V	300		
Dielectric strength	Between coil and contact	V/min	3000		
	Between contacts	V/min	2000		
Max. tightening torque		Nm	1.0		
Wire size		AWG/mm²	20-14/0.5-2.5		
Ambient temperature		℃	-40~+85		
Unit weight		g	34	47	56

Accessories

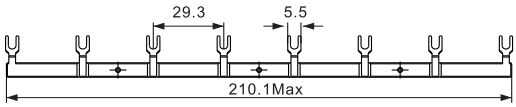
Socket	Bus jumper		Metal clip
SYF08A			
SYF11A			
SYF14A	SY08C	SY10C	SY36S

Dimensions (mm)



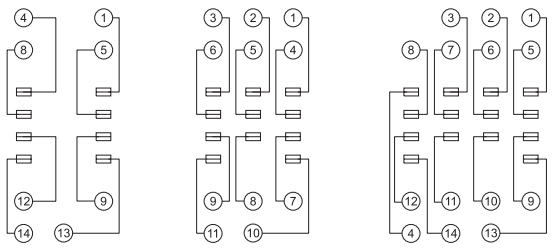


SY10C - Adapt to SYF08A



SY08C - Adapt to SYF11A/SYF14A

Connection Diagrams

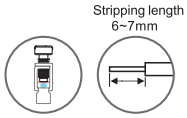


SYF08A	SYF11A	SYF14A
⑭⑬ : A1 A2	⑩⑪ : A1 A2	⑭⑬ : A1 A2
①④ : NC	①②③ : NC	①②③④ : NC
⑤⑧ : NO	④⑤⑥ : NO	⑤⑥⑦⑧ : NO
⑨⑫ : COM	⑦⑧⑨ : COM	⑨⑩⑪⑫ : COM

SKB08-E & SKB14-E

RKE Socket

Characteristics



SKB08-E

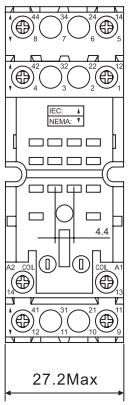
SKB14-E

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

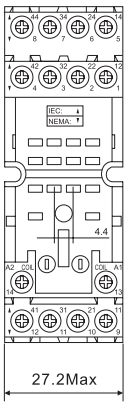
Accessories

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

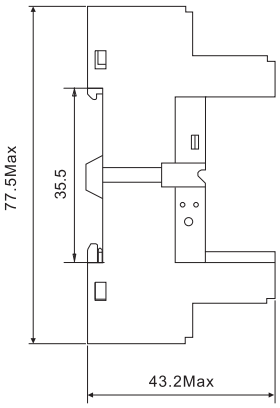
Dimensions (mm)



SKB08-E



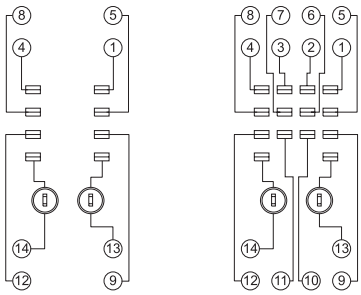
SKB14-E



Connection Diagrams

SKB08-E

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

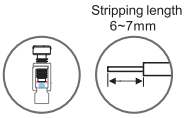


SKB14-E

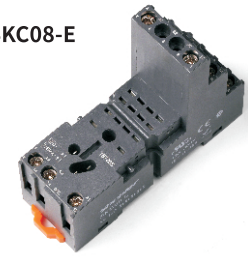
⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SKC08-E & SKC11-E & SKC14-E RKE Socket

Characteristics



SKC08-E



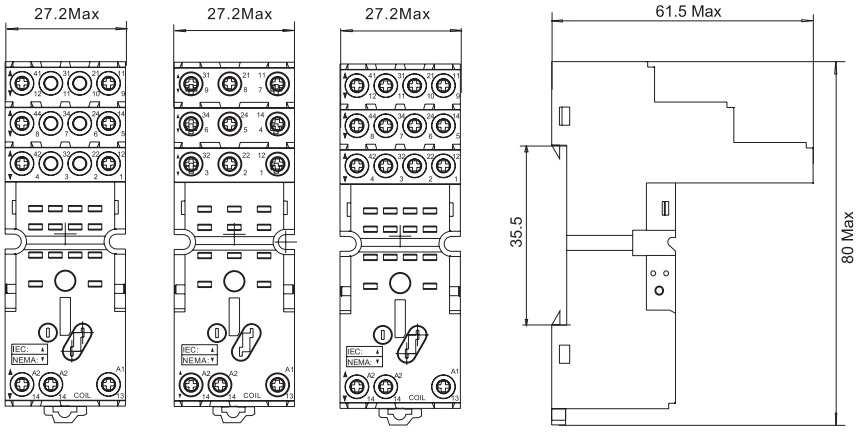
SKC14-E

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/mm^2	20-14/0.5-2.5		
Ambient temperature		℃	-40~+85		
Unit weight		g	50	56	62

Accessories

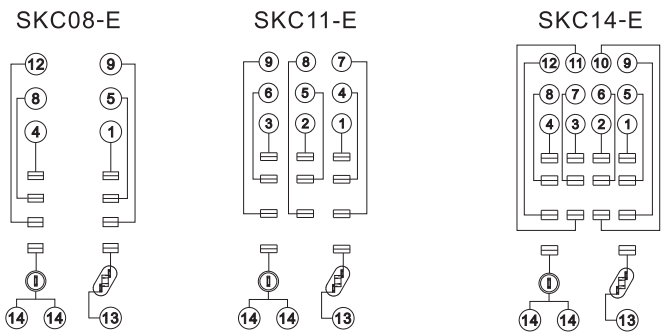
Socket	Plastic clip	Metal clip	ID tag	Module
SKC08-E SKC11-E SKC14-E	 SK36F	 SK36M	SK4P	 AMD

Dimensions (mm)



SKC08-E SKC11-E SKC14-E

Connection Diagrams



SKC08-ST & SKC14-ST

RKE Socket

Characteristics

SKC08-ST

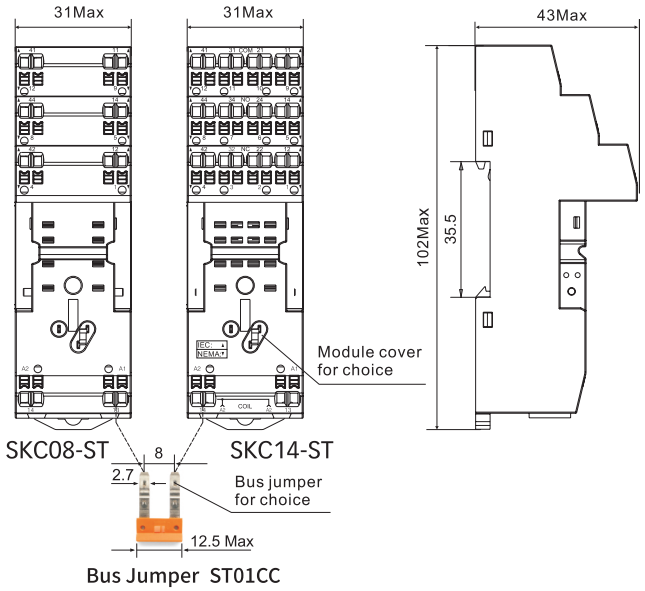
SKC14-ST

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

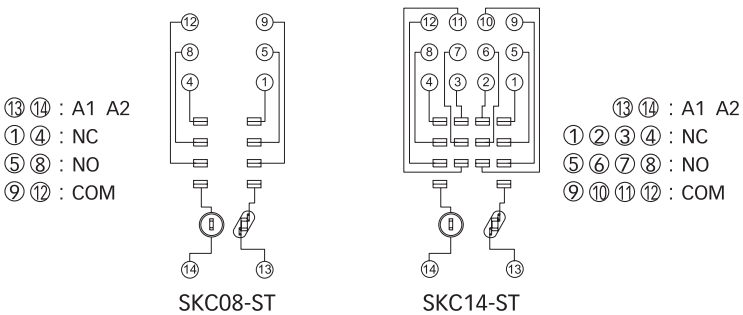
Accessories

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

Dimensions (mm)



Connection Diagrams



SKF08-E & SKF14-E

RKE Socket

Characteristics

SKF08-E

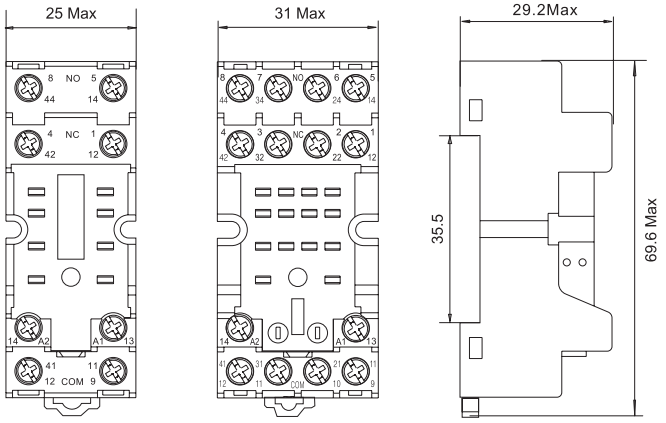
SKF14-E

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	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

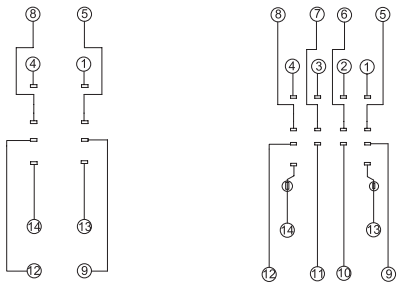
Socket	Metal clip	ID tag	Module
SKF08-E			
SKF14-E	SK36M	SK2P	AMD

Dimensions (mm)



SKF08-E SKF14-E

Connection Diagrams



SKF08-E

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SKF14-E

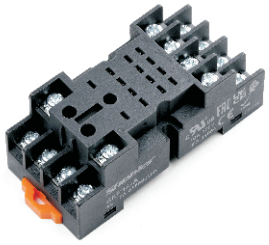
⑬⑭ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

SKF14-A

RKE Socket

Characteristics

SKF14-A

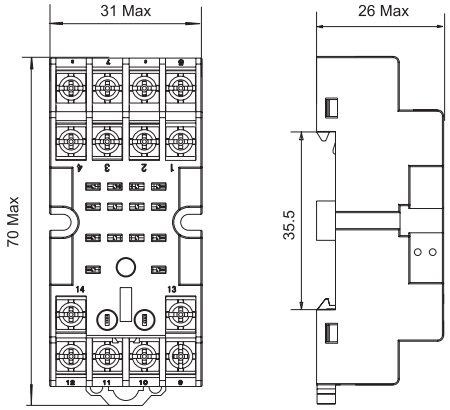


Type			SKF14–A
Nominal load	Current	A	10
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2000
Max. tightening torque		Nm	1.0
Wire size		AWG/mm²	20-14/0.5-2.5
Ambient temperature		℃	-40~+85
Unit weight		g	42.9

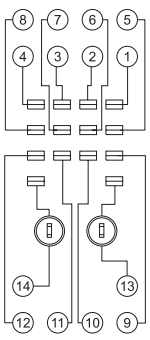
Accessories

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

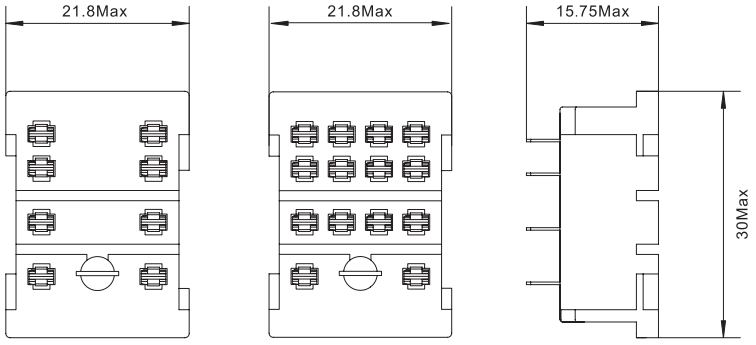
SY14-P

Type			SY08-P	SY14-P
Nominal load	Current	A	10	6
	Voltage	V	300	
Dielectric strength		V/min	2000	
Ambient temperature		℃	-40~+85	
Unit weight		g	7	7

Accessories

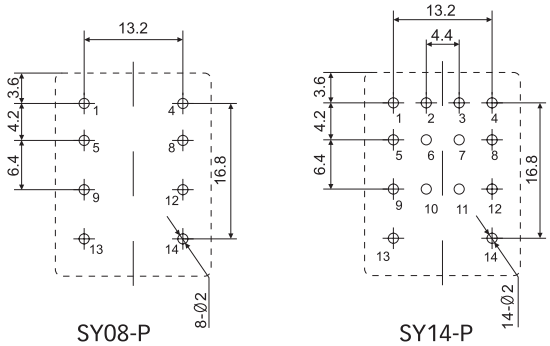
Socket	Metal clip
SY08-P	 SY36M
SY14-P	

Dimensions (mm)



SY08-P SY14-P

Connection Diagrams



SY08-P

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

SY14-P

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