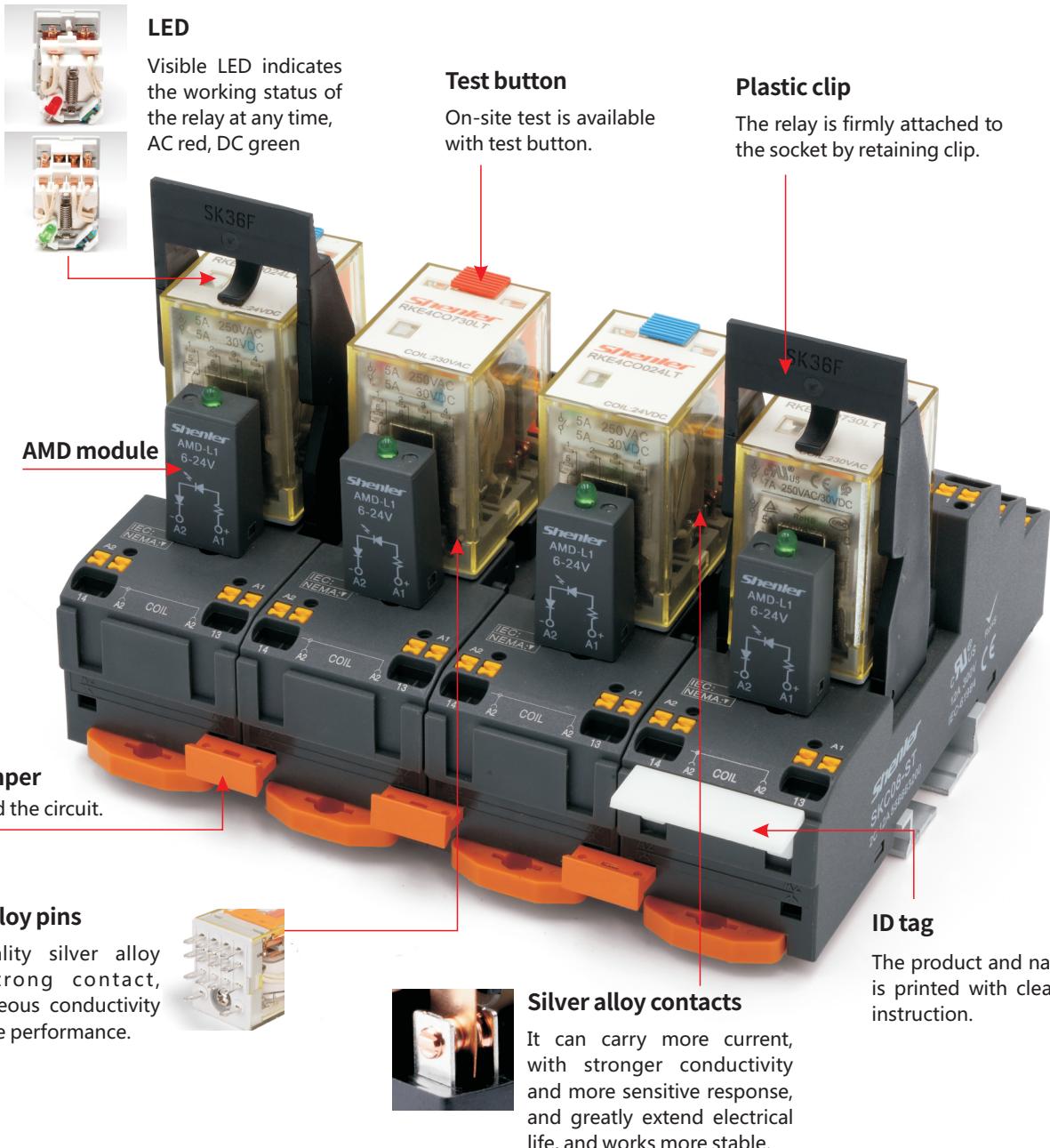


Selection manual of industrial control relay

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



Selection manual of industrial control relay

RKE

Miniature General Purpose Relay



Relay

+

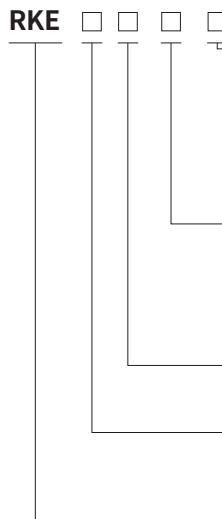


Socket

=



Relay module



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
Voltage (V AC)	6	24	36	48	115	230

Terminal arrangement

O: plug in

Contact form

2C: 2CO

4C: 4CO

Series name

Characteristics

	2C	4C
Load Resistance	7A/250VAC, 30VDC	5A/250VAC, 30VDC
Motor load	1/6HP, 240VAC	
Max. switching capacity (resistive)	1750VA, 210W	1250VA, 150W
Contact Min. switching capacity	170mW(17V/10mA)	
Initial contact resistance	$\leq 50\text{m}\Omega$	
Material	Ag alloy	
Electric durability(110%rated voltage, 55°C)	$\geq 20 \times 10^4$ Cycles (1800 Ops/h)	
Electric durability (Normal temperature)	$\geq 40 \times 10^4$ Cycles (360 Ops/h)	
Mechanical durability	$\geq 2000 \times 10^4$ Cycles (18000 Ops/h)	
Pick-up voltage (23°C) (Rated voltage)	DC: $\leq 75\%$, AC: $\leq 80\%$ 50/60Hz	
Drop-out voltage (23°C) (Rated voltage)	DC: $\geq 10\%$, AC: $\geq 30\%$ 50/60Hz	
Maximum voltage (23°C) (Rated voltage)	110%	
Insulation resistance	$\geq 500\text{M}\Omega$ (500VDC)	
Coil operating power DC(W)	approx. 0.9	
AC(VA)	approx. 1.2	
Operate time&Release time (at nominal voltage)	$\leq 20\text{ms}$	
Initial breakdown voltage	Between open contacts Between poles Between contacts and coil	1000VAC/1min (leakage current 1mA) 2000VAC/1min (leakage current 1mA) 2000VAC/1min (leakage current 1mA)
Insulation characteristics	Rated voltage	250VAC
IEC 60664 UL840	Pollution level	3
Impulse withstand voltage (waveform: 1.2/50μs)	Overvoltage level	III
Protection level	4000V	
Storage temperature/ humidity	IP20	
Working temperature/ humidity	-55~+85°C/ $\leq 85\%$ RH (18 months)	
Air pressure	-55~+70°C/ 5%~85%RH (No condensation)	
Shock resistance	86~106KPa	
Vibration resistance	10G (half-sine shock pulse: 11ms)	
Mounting	10~55Hz double-amplitude:1.0mm	
Unit weight	plug in	
	approx. 35g	

Selection manual of industrial control relay

RKE

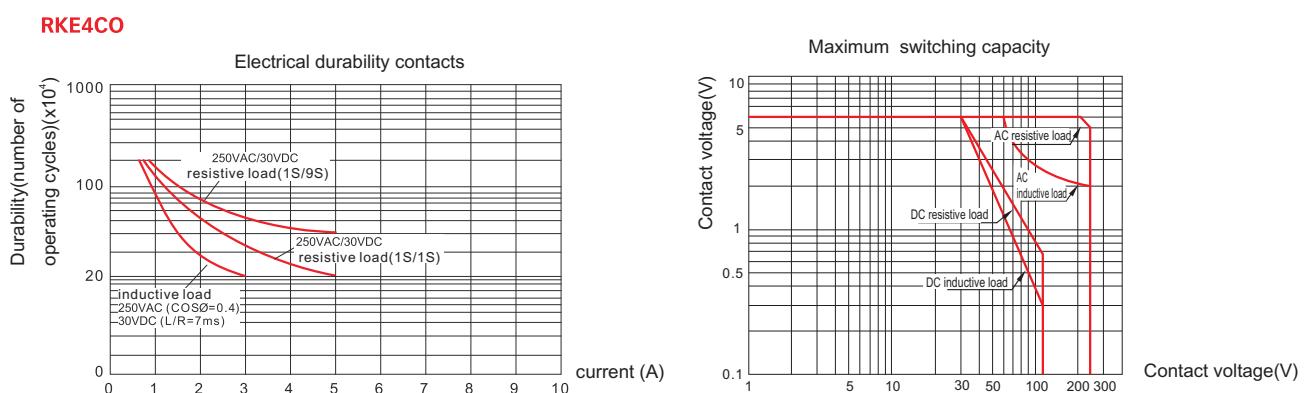
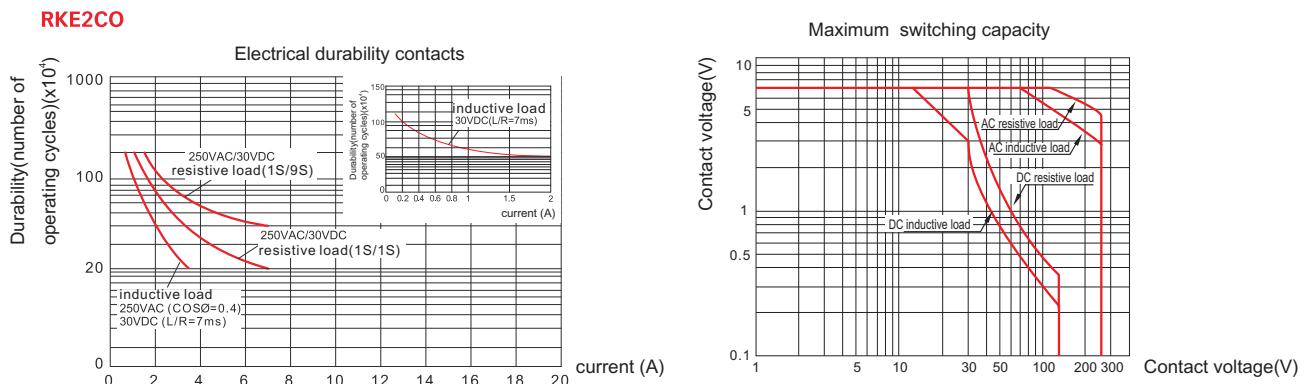
Miniature General Purpose Relay

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 $\pm 10\%$, above 110V with tolerance of $\pm 15\%$.

Contact Specification



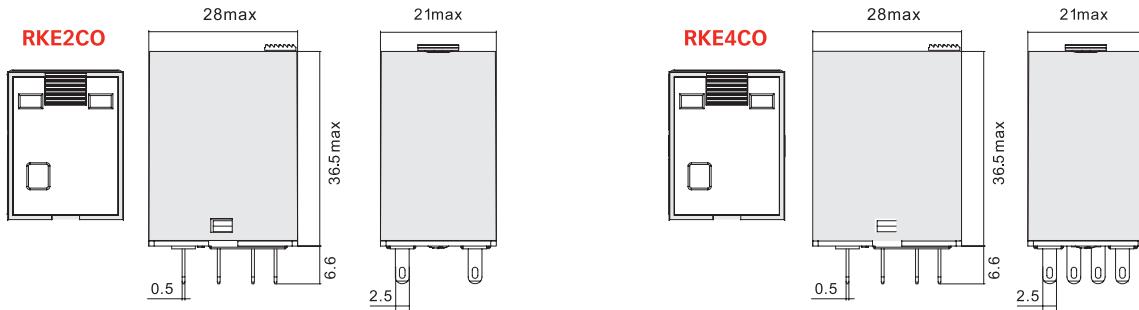
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc

Selection manual of industrial control relay

RKE

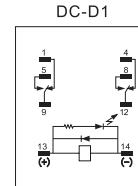
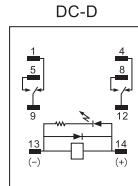
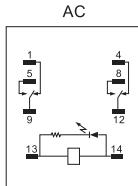
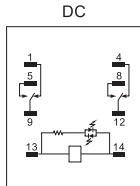
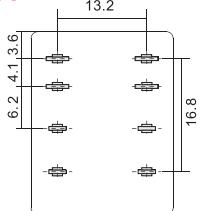
Miniature General
Purpose Relay

Dimensions (mm)

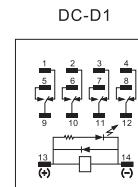
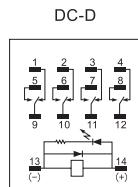
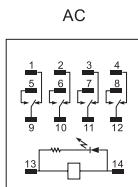
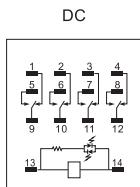
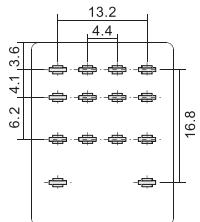


Wiring Diagrams

RKE2CO



RKE4CO





Relay

+

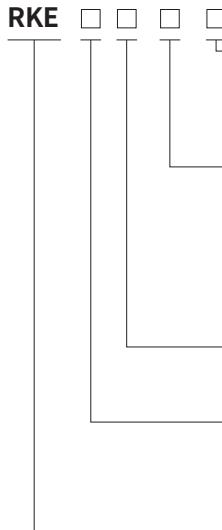


Socket

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Relay module



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



Protection level

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

Characteristics

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

Selection manual of industrial control relay

RKE-LS

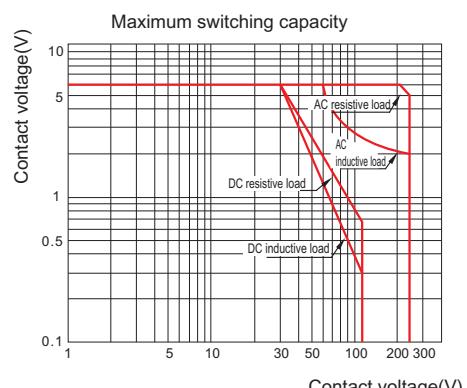
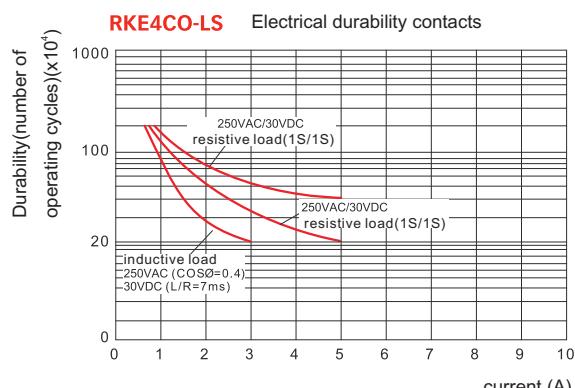
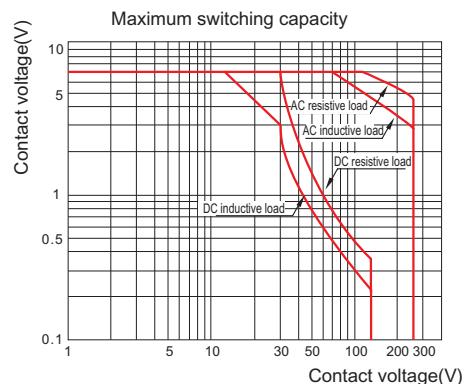
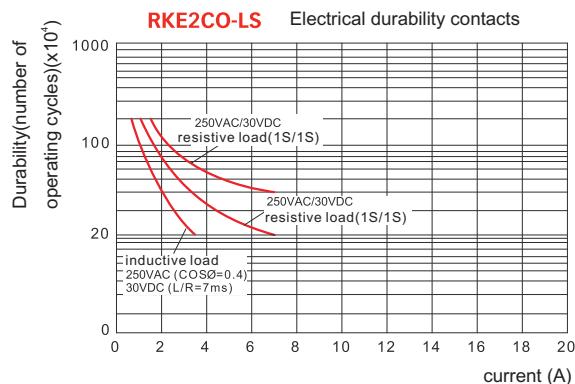
Sealed Power Relay

Coil Specifications (23°C)

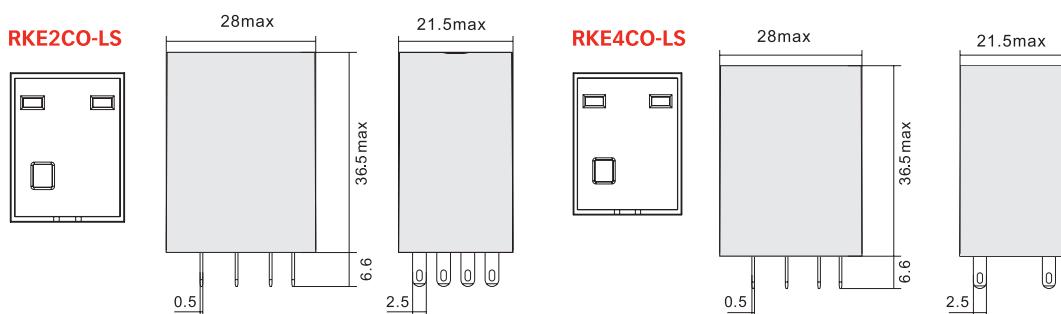
Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	11.5	180	370	640	4430	16500	42000

Coil resistance: under coil voltage 110V are measured with tolerance of $\pm 10\%$, above 110V with tolerance of $\pm 15\%$.

Contact Specification



Dimensions (mm)



Characteristics



SYF08A-E

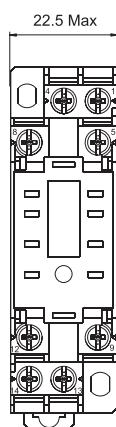


SYF14A-E

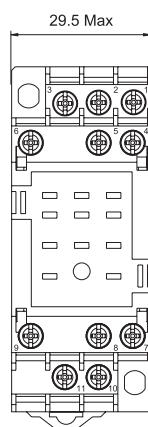


Type		SYF08A-E	SYF11A-E	SYF14A-E
Nominal load	A	10	7	7
Voltage	V	300		
Dielectric strength	V/min	2000		
Max. tightening torque	Nm	1.0		
Wire size	AWG/mm ²	20-14/0.5-2.5		
Ambient temperature	°C	-40~+85		
Unit weight	g	37	56	57
Accessories				
Socket		Metal clip		
SYF08A-E		SY36S		
SYF11A-E				
SYF14A-E				

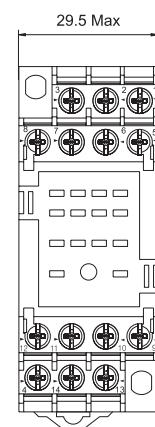
Dimensions (mm)



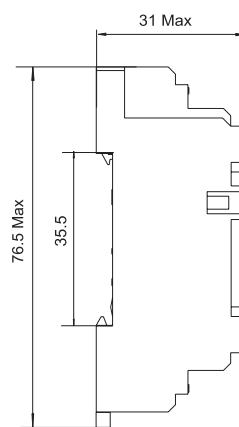
SYF08A-E



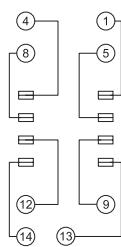
SYF11A-E



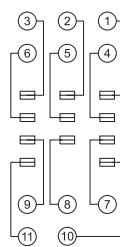
SYF14A-E



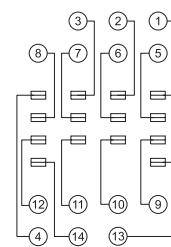
Connection Diagrams



SYF08A-E



SYF11A-E



SYF14A-E

⑯⑯ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM

⑩⑩ : A1 A2
①②③ : NC
④⑤⑥ : NO
⑦⑧⑨ : COM

⑯⑯ : A1 A2
①②③④ : NC
⑤⑥⑦⑧ : NO
⑨⑩⑪⑫ : COM

Characteristics



SYF08A



SYF14A

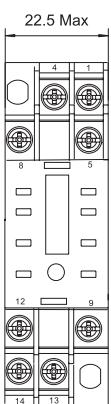


Type		SYF08A	SYF11A	SYF14A
Nominal load	Current	A	10	7
Voltage	V		300	
Dielectric strength	V/min		2000	
Max. tightening torque	Nm		1.0	
Wire size	AWG/mm ²		20-14/0.5-2.5	
Ambient temperature	°C		-40~+85	
Unit weight	g	34	47	56

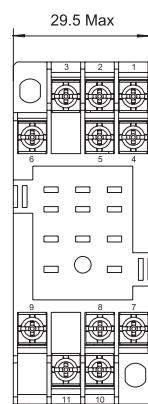
Accessories

Socket	Metal clip
SYF08A	
SYF11A	
SYF14A	SY36S

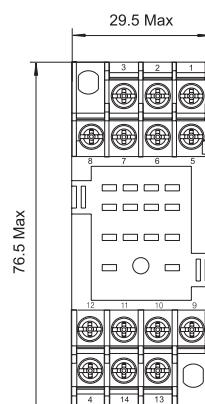
Dimensions (mm)



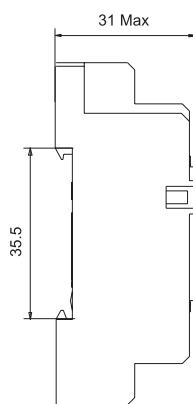
SYF08A



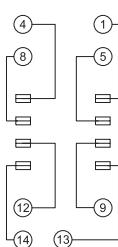
SYF11A



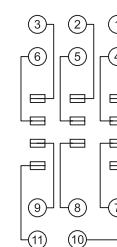
SYF14A



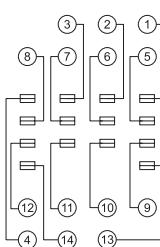
Connection Diagrams



SYF08A



SYF11A



SYF14A

⑭⑬ : A1 A2

①④ : NC

⑤⑧ : NO

⑨⑫ : COM

⑩⑪ : A1 A2

①②③ : NC

④⑤⑥ : NO

⑦⑧⑨ : COM

⑭⑬ : A1 A2

①②③④ : NC

⑤⑥⑦⑧ : NO

⑨⑩⑪⑫ : COM

Characteristics



SKB08-E



SKB14-E

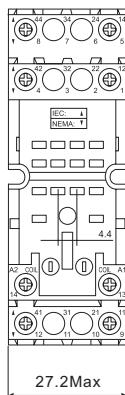


Type		SKB08-E	SKB14-E
Nominal load	A	12	10
Voltage	V	300	
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque	Nm	1.0	
Wire size	AWG/mm ²	20-14/0.5-2.5	
Ambient temperature	°C	-40~+85	
Unit weight	g	50	56

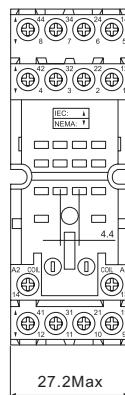
Accessories

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

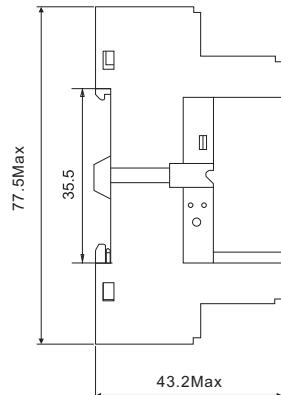
Dimensions (mm)



SKB08-E



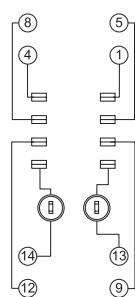
SKB14-E



Connection Diagrams

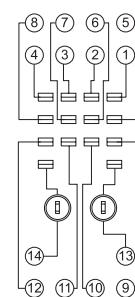
SKB08-E

- 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



Characteristics



SKC08-E



SKC14-E

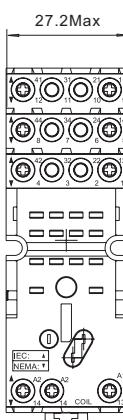


Type	SKC08-E	SKC11-E	SKC14-E
Nominal Current load	A	12	10
Voltage	V	300	
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque	Nm	1.0	
Wire size	AWG/mm ²	20-14/0.5-2.5	
Ambient temperature	°C	-40~+85	
Unit weight	g	50	56
			62

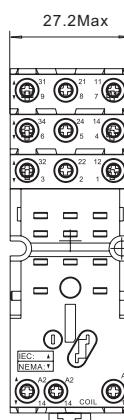
Accessories

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

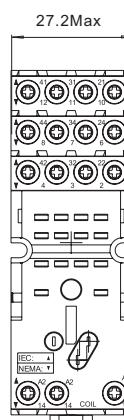
Dimensions (mm)



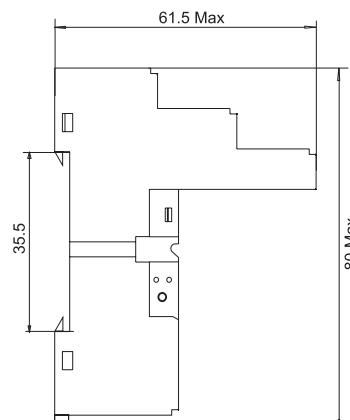
SKC08-E



SKC11-E

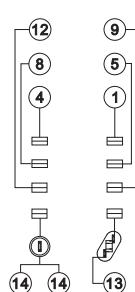


SKC14-E

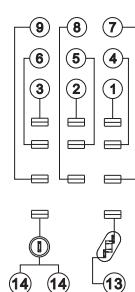


Connection Diagrams

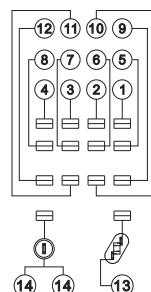
SKC08-E



SKC11-E



SKC14-E



Characteristics



SKC08-ST



SKC14-ST

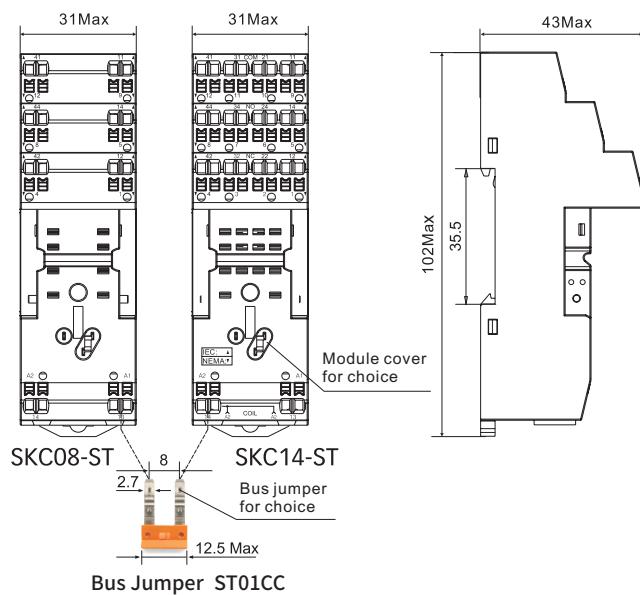


Type		SKC08-ST	SKC14-ST
Nominal load	A	12	8
Voltage	V	300	
Dielectric strength	Between coil and contact	V/min	4000
	Between contacts	V/min	2500
Max. tightening torque	Nm	-	
Wire size	AWG/mm ²	20-16/0.5-1.5	
Ambient temperature	°C	-40~+85	
Unit weight	g	80	80

Accessories

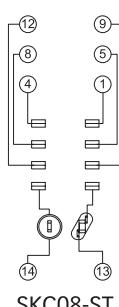
Socket	Plastic clip	ID tag	Module	Bus Jumper
SKC08-ST				
SKC14-ST	SK36F	SK4P	AMD	ST01CC

Dimensions (mm)



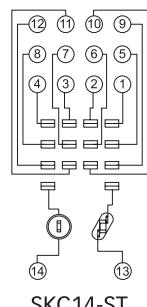
Connection Diagrams

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



SKC08-ST

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



SKC14-ST

Characteristics



SKF08-E



SKF14-E

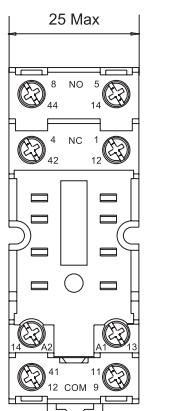


Type	SKF08-E	SKF14-E
Nominal Current load	A	12
Voltage	V	300
Dielectric strength	V/min	2500
Max. tightening torque	Nm	1.0
Wire size	AWG/mm ²	20-14/0.5-2.5
Ambient temperature	°C	-40~+85
Unit weight	g	35
		45

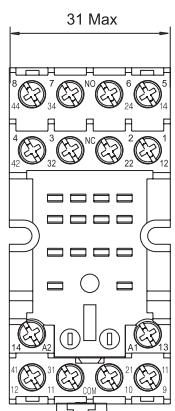
Accessories

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

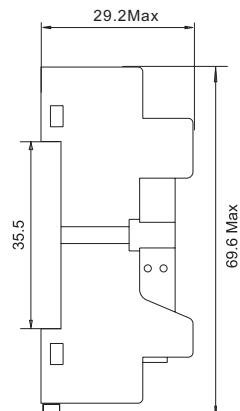
Dimensions (mm)



SKF08-E

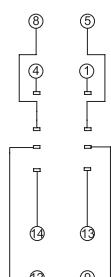


SKF14-E



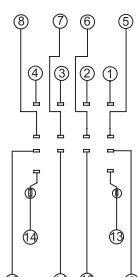
69.6 Max

Connection Diagrams



SKF08-E

⑬⑭ : A1 A2
①④ : NC
⑤⑧ : NO
⑨⑫ : COM



SKF14-E

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

Characteristics

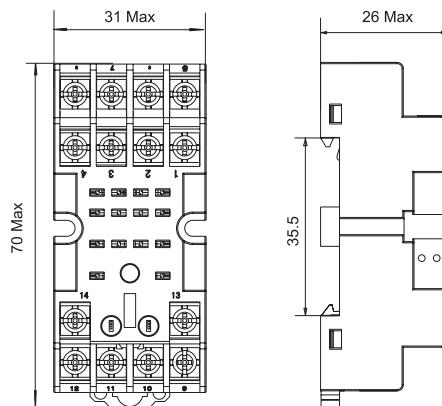


SKF14-A

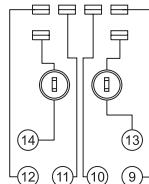
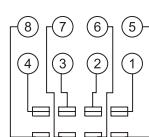


Type		SKF14-A	
Nominal load	A	10	
Voltage	V	300	
Dielectric strength	V/min	2500	
Max. tightening torque	Nm	1.0	
Wire size	AWG/mm ²	20-14/0.5-2.5	
Ambient temperature	°C	-40~+85	
Unit weight	g	42.9	
Accessories			
Socket	Metal clip	ID tag	Module
SKF14-A	SK36M	SK2P	AMD

Dimensions (mm)



Connection Diagrams



⑯ ⑰ : A1 A2
 ① ② ③ ④ : NC
 ⑤ ⑥ ⑦ ⑧ : NO
 ⑨ ⑩ ⑪ ⑫ : COM

Characteristics

SY08-P

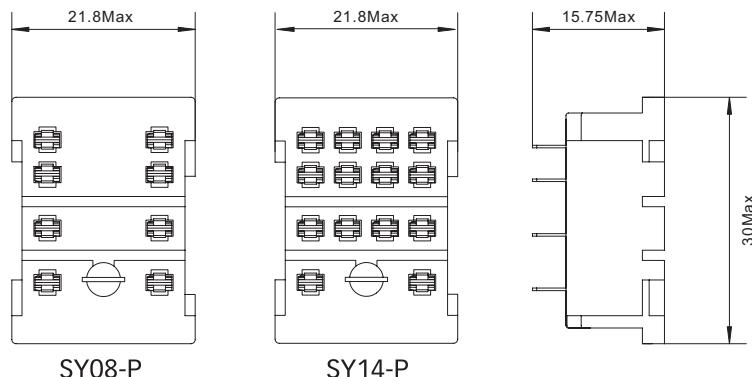


SY14-P



Type	SY08-P	SY14-P
Nominal load	A	10
Voltage	V	300
Dielectric strength	V/min	2000
Ambient temperature	°C	-40~+85
Unit weight	g	7
Accessories		
Socket	Metal clip	
SY08-P		
SY14-P		

Dimensions (mm)



Connection Diagrams

