Shenler

# Electromagnetic Relay Product Catalogue

Industrial Relays | Interface Relas | Timers | Sockets and Accessories



# www.charter-controls.com 01424 850 660





## 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
- Zhejiang Science & Technology Enterprise
- TUV Rheinland Witnessing Laboratory
- Top 10 Brands of Relays in China

High–tech Enterprise

- Supporting the whole industry chain of automation equipment manufacturing
- UL Witnessing Laboratory
- Zhejiang Enterprise Research Institute



Electromagnetic Relay	003	RNC Interface Relay
0 7	011	RFT Interface Relay
	019	R2G Power Relay
	029	RKM Miniature General Purpose Relay
	035	<b>RKE Miniature General Purpose Relay</b>
	039	<b>RKE-LS Sealed Power Relay</b>
	049	RKF Miniature General Purpose Relay
	058	<b>RKF-S Magnetic Blow-out Power Relay</b>
	063	<b>RKL Miniature Power Relay</b>
	068	REH Power Relay
	071	REH Magnetic Blow-out Power Relay
	075	RUB General Purpose Relay
	081	RGF Power Relay
Solid State Relay	085	RSC Solid State Slim Relay
	090	RSD-1D Solid State Relay
	095	Solid State Relay Heat Sink
Timers Relay	097	TKB Timers Relay
Accessories and Protection Modules	100	Accessories and Protection Modules

#### 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.



#### **Circuit protection design** Bridge rectifier circuit, built-in surge absorber for AC and DC, in avoid of overvoltage.



# RNC

Interface Relay Module





Relay





Socket

=



**Relay module** 

<b>RNC</b> □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
	Other options
	Blank: Conventional
	A: 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

Characteris	stics					
	Configuration	1A,1C				
	Load Resistance	6A/250VAC 30VDC				
	tics $Configuration$ 1A,1CLoadResistance6A/250VAC 30Max. switching capacity (resistive)1500VA,180WMin. switching capacity170mW(17V/1Initial contact resistance<100mQ (gold	1500VA,180W				
Contact	Min. switching capacity	170mW(17V/10mA)				
Contact	Initial contact resistance	$\leq 100 \text{m}\Omega \text{ (gold plated contact} \leq 30 \text{m}\Omega \text{)}$				
	Material	Ag alloy				
	Electrical durability	NO: 6x10 <sup>4</sup> Cycles (600 Ops/h); NC: 3x10 <sup>4</sup> Cycles (600 Ops/h)				
	Mechanical durability	≥2 x 10 <sup>7</sup> Cycles (18000 Ops/h)				
Pick-up voltage	e (23°C) (Rated voltage)	DC:≤75%				
Drop-out voltag	ge (23°C) (Rated voltage)	DC:≥5%				
Maximum volta	ge (23°C) (Rated voltage)	110%				
Insulation resis	tance	≥1000MΩ (500VDC)				
Coil operating	3~24 VDC	approx. 0.175W				
Coll operating [	48~60 VDC	approx. 0.21W				
Operate time (a	at nominal voltage)	≤8ms				
Release time (a	at nominal voltage)	≤4ms				
Initial breakdov	vn Between open contacts	1000VAC/1min (leakage current 1mA)				
voltage	Between contacts and coil	4000VAC/1min (leakage current 1mA)				
Insulation	Rated voltage	250VAC				
characteristics	Pollution level	3				
IEC 60664 UL	840 Overvoltage level	III				
Impulse withsta	and voltage (waveform: 1.2/50us)	4000V				
Protection leve	l	IP60				
Storage tempe	rature/ humidity	-55~+85°C/ ≤85%RH (18 months)				
Working tempe	erature/ humidity	-40~+85°C/ 5%~85%RH (No condensation)★				
Air pressure		86~106KPa				
Shock resistan	се	10G (half-sine shock pulse: 11ms)				
Vibration resist	ance	10~55Hz double-amplitude:1.0mm				
Mounting		РСВ				
Unit weight		approx. 6q				

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

#### **Contact Specification**



Maximum switching capacity



**Dimensions (mm)** 









#### **Wiring Diagrams 1CO 1AO 1CP** 1AP $-\Box_{1}$ 74-1 **Bottom view Bottom view** Side view Side view

## 

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-	·С	110V			24VDC	
	SNB05-E-	·D	230V			48VDC	
	Characterist	ics					
	Nominal load	Curren	t	А		8	
		Voltage	)	V		300	
	Dielectric	Between coil and contact			nin	4000	
	strength	Between contacts			nin	2500	
	Max. tightening torque				۱	0.5	
and the C	Wire size				/G/mm <sup>2</sup>	20-16/0.5-1.5	
	Ambient temperature					-40~+85	
the second s	Unit weight					24	
	Relay, accessories Selection Table						
SNB02-E	Bus	s jumper			Legend	b	
	S	SN20A			SN64P		
Dimensions (mm)							

Dir







Characteristics								
	Model No	).	Input			Relay		
	SNB05-ST	-AR	6~24VD	C		6~24VDC		
	SNB05-ST	-A	6~24\	/		6~24VDC		
	SNB05-ST	-B	48V			24VDC		
	SNB05-ST	-C	110V			24VDC		
	SNB05-ST	-D	230V			48VDC		
	Characterist	ics						
	Nominal load	Curren	t	A		8		
and the second		Voltage	e	V		300		
	Dielectric	Between coil and contact			nin	4000		
And the second	strength	Between contacts			nin	2500		
	Wire size			AW	/G/mm <sup>2</sup>	20-16/0.5-1.5		
AL	Ambient temp	erature		°C		-40~+85		
	Unit weight			g		24		
	Relay, accessories Selection Table							
	Bus	jumper			Legend			
		E.			1			
SNB05-ST		in the second se			11			
					1			
	S	N20A			SN64P			

Dimensions (mm)





## °**₽Ъ**°°≥ C € EHE FR &

Characteristics							
	Model No	).	Input		Relay		
	SNC05-E-/	۹ (	12~24V		12~24VDC		
	SNC05-E-I	в	48~60V		48~60VDC		
_	SNC05-E-	c	110V		60VDC		
	SNC05-E-I	D	230V		60VDC		
	Characteristi	cs					
1	Nominal load	Current	t i i i i i i i i i i i i i i i i i i i	A	8		
	Nominarioau	Voltage			300		
	Dielectric Betwee		n coil and contact	V/r	nin 4000		
Company and	strength	Between contacts			nin 2500		
Same to the	Max. tightening torque				า 0.5		
	Wire size			AW	/G/mm <sup>2</sup> 20-16/0.5-1.5		
AND	Ambient tempe	erature		°C	-40~+85		
Per te	Unit weight			g	24		
1	Relay, accessories Selection Table						
SNC05-E	Bus jumper		Legend		Partition plate		
	SN20B		SN64P		SN20S		

Dimensions (mm)





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Characteristics							
	Model No	).	Input		Relay		
	SNC05-E-A		12~24V		12	2~24VDC	
	SNC05-E-I	В	48~60V		48	3~60VDC	
	SNC05-E-	С	110V			60VDC	
	SNC05-E-I	D	230V			60VDC	
	Characteristi	ics					
Ŭ	Nominal load	Curren	t	A		8	
	Nominarioau	Voltage	Voltage			300	
	Dielectric	Betwee	V/m	in	4000		
and and	strength	Betwee	V/m	in	2500		
9. 5-1-3- 1. I	Wire size				AWG/mm <sup>2</sup> 20-16/0.5-1.5		
and a summer . The	Ambient temperature					-40~+85	
	Unit weight	Unit weight				24	
and and an	Relay, accessories Selection Table						
	Bus jump	er	Legend	Pa		artition plate	
	<b>*</b>		17				
SNC05-S	and the second se						
	SN20B		SN64P			SN20S	

# Dimensions (mm)





#### Characteristics



Nominal load	Current	А	8
Nominarioau	Voltage	V	300
Dielectric	Between coil and contact	V/min	4000
strength Be	Between contacts	V/min	2500
Wire size		AWG/mm <sup>2</sup>	20-16/0.5-1.5
Ambient temp	erature	°C	-40~+85
Unit weight		g	25

SNC05-P

#### Dimensions (mm)





#### **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









Protection level	IP50
Storage temperature/ humbidity	-55~+85℃/ ≤85%RH (18 months) ★
Working temperature/ humbidity	-40~+85°C/ 5%~85%RH (No condensation)
Air pressure	86~106KPa
Shock resistance	10G (half-sine shock pulse: 11ms)
Vibration resistance	10~55Hz double-amplitude:1.5mm
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  $\pm 10\%\Omega$ , above 110V with tolerance of  $\pm 15\%\Omega$ .

#### **Contact Specification**











Contact voltage(V)



## R2G

Power Relay

#### **Dimensions (mm)**



#### R2G1CH 5.0mm









#### R2G2CH 5.0mm





#### **Wiring Diagrams**









R2G1AH



R2G2BH







#### R2G1CO/1CU



## SRC05-ST & SRC08-ST

R2G Socket



Characteristics								
Press	Туре					SRC05-ST		SRC08-ST
	Nominal Current		ıt	А		16		10
	load	Voltage	e	V		300		
	Dielectric	Between	coil and contact	V/m	in	4000		
	strength	Betwee	en contacts	V/m	in	2500		
SRC05-ST	Max. tigh	tening t	orque	Nm		-		
	Wire size			AWO	G/mm <sup>2</sup>	20-14/0	.5-2.5	
-17	Ambient f	tempera	ature	°C		-40~+85	5	
at -	Unit weight			g	37			42
	Relay, accessories Selection Table							
	Socket		ID tag		Bus Jumper		Module	
SRC08-ST	SRC05-ST	T			5	-		-111
	SRC08-ST		SR2P ST01CC		c	AMC		
	Clip selection table							
100	Relay H (	mm)	15		20	25		
	СІір Туре		SR15		SR20E	7	SB,	<b>A</b>
-			JITIJE		51/201		1 314	200

#### Dimensions (mm)





## SRC05-E & SRC08-E

R2G Socket

## 

Characteristics							
	Туре				SRC05-I	E	SRC08-E
	Nominal	Curren	t	А	12		10
	load	Voltage	e	V	300		
	Dielectric	Between	coil and contact	V/min	4000		
	strength	Betwee	en contacts	V/min	2500	2500	
	Max. tigh	tening t	orque	Nm	1.0		
SRC08-E	Wire size	_		AWG/mm <sup>2</sup>	20-14/0.5	5-2.5	
10	Ambient temperature			°C	-40~+85		
the little	Unit weight		g	33		37	
60	s Selection T	Table					
	Socket		ID tag	Bus Jur	nper	N	lodule
(m)	SRC05-E		IP	1	C		and the
SRC08-E	SRC08-E		SR2P	s	R08B	A	ND T
	Clip selec	tion ta	ble				
at	Relay H (	mm)	15	20		25	
	Clip Ty	be	SR15L	SR20F	3	SR	<b>A</b>



1) (5) : A1 A2 2) : NC 3) : NO 4) : COM			① ⑧ : A1 A2 ② ⑦ : NC ④ ⑤ : NO ③ ⑥ : COM
	SRC05-E	SRC08-E	

## SRB05-E & SRB08-E

R2G Socket



Characteristics							
$\bigcirc$	Туре				SRB0	5-E	SRB08-E
	Nominal	Curren	t	A	12		10
	load	Voltage	Э	V	300		
	Dielectric	Between	coil and contact	V/min	4000		
	strength	Betwee	en contacts	V/min	2500		
SRB05-E	Max. tigh	tening t	orque	Nm	1.0		
A 10 17 11	Wire size			AWG/mr	n² 20-14/	0.5-2.5	
	Ambient I	tempera	ature	°C	-40~+8	35	
1 m	Unit weig	ht		g	33		37
31	Relay, accessories Selection Table						
	Socket		ID tag			Module	Э
<b>A</b>	SRB05-E		TP			1	
SRB08-E	SRB08-E		SR2P			AMD	
1.5	Clip selection table						
100	Relay H (	mm)	15	20		25	
	Clip Ty	ре	SD4EL		4		\$
			SKISL	SR2	2UF	SR	230

#### Dimensions (mm)



① ⑤:A1 A2	- 4 2		.2
2 : NC		_5 ④ ②⑦:NC	
3 : NO		└ <u>⊢</u> <u>–</u> ] ④ ⑤ : NO	
④: COM		└─ <b>□ □</b>	
	T T		
	$\oplus$ $\oplus$		
		8 1	
	5 1		
	SRB05-E	SRB08-E	

## SRC05-P&SRC08-P

R2G Socket



Characteristics							
	Туре			SRC05-P	SRC08-P		
	Nominal	Current	А	12	8		
SRC05-P	load	Voltage	V	300			
	Dielectric	Between coil and contact	V/min	4000			
. 01	strength	Between contacts	V/min	2500			
	Max. tigh	tening torque	Nm	-			
and the second s	Wire size	1	AWG/mm <sup>2</sup>	-			
	Ambient temperature		°C	-40~+85			
	Unit weig	ht	g	10	10		
SRC08-P	Relay, accessories Selection Table						
	Socket		Metal clip				
3.21	SRC05-P		SR15M				
	SRC08-P		$\sim$	SR1520M			

**Dimensions (mm)** 





#### RFT Interface Relay

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

**Test button** 

On-site test is available with test button.

- 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



#### 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





Charac	teristics				
	Configurati	on	1C	2C	
	Lood	Resistance	12A/250VAC, 30VDC	8A/250VAC, 30VDC	
	Load	Notor load	1/3HP, 240VAC	1/6HP, 240VAC	
	Max. switching capacity (resistive)		3000VA, 360W	2000VA, 240W	
Contact	Min. switch	ing capacity	170mW(17V/10mA)		
Contact	Initial conta	ict resistance	≤50mΩ		
-	Material		Ag alloy		
	Electrical durability (high temp., frequency 1s on, 1s off)		≥20 x 10 <sup>4</sup> Cycles (1800 )	Ops/h)	
Electrical dura 1s on, 5s off)		rability (normal temp., frequency f)	≥30 x 10⁴Cycles(600 Ops/h)		
Mechanical durability		≥2000 x 10 <sup>4</sup> Cycles (18000 Ops/h)			
Pick-up v	ck-up voltage (23°C) (Rated voltage) DC:≤75% ,AC:80% 50/60Hz		/60Hz		
Drop-out	voltage (23°	C) (Rated voltage)	DC:≥10% ,AC:30% 50/60Hz		
Maximun	n voltage (23	°C)(Rated voltage)	110%		
Insulatior	n resistance		≥1000MΩ (500VDC)		
Coil oper	ating nower	DC(W)	approx. 0.53		
	ating power	AC(VA)	approx. 1.0		
Operate	time (at nom	inal voltage)	≤20ms		
Release	time (at nom	inal voltage)	≤10ms		
Initial bro	akdown	Between open contacts	1000VAC/1min (leakag	e current 1mA)	
voltage	akuuwii	Between poles	3000VAC/1min (leakag	je current 1mA)	
voltage		Between contacts and coil	5000VAC/1min (leakag	je current 1mA)	
Insulation	ı	Rated voltage	250VAC		
character	ristics	Pollution level	3		
IEC 6066	64 UL840	Overvoltage level	III		
Impulse withstand voltage (waveform: 1.2/50us)		4000V			



Socket

**Relay module** 

#### RFT Interface Relay

Protection level	IP50
Storage temperature/ humbidity	55~+85°C/5%~68%RH(18 months)
Working temperature/ humbidity	-40~+55°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. 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 $\Omega$	68	270	1100	4300	22800	
Nominal voltage V.AC	6	12	24	48	115	230
Coil resistance $\Omega$	16	63	240	1085	6300	23000

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

#### **Contact Specification**





RFT2CO





Contact voltage(V)

## **RFT** Interface Relay

#### **Dimensions (mm)**









RFT2CO-LT







RFT2CO-B

**Wiring Diagrams** 



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RFT1CO	L/LT AC	

RFT2COL/LT AC	

RFT	lcol,	LT DC	
		4	٦.

**RFT2COL/LT DC** 

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RFT1COLD/LTD DC







#### RFT2COLD1/LTD1

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## SRT05/08-A

RFT Socket

# 

Characteristics			_				
	Туре			SRT05-A	SRT08-A		
	Nominal	Current	А	16	10		
	load	Voltage	V	300			
	Dielectric	Between coil and contact	V/min	4000			
SKTUS-A	strength	Between contacts	V/min	2500			
SI	Max. tight	ening torque	Nm	1.0			
	Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.5			
20	Ambient to	emperature	°C	-40~+85			
S.	Unit weigh	nt	g	22	27		
	Relay, accessories Selection Table						
SPT08-A		Plastic clip	Bus jumper				
	(iı	SR20 ncluded in socket)	SR08C				
Dimensions (mr	n)	16Мах	51Max				



#### **Connection Diagrams**

① ⑤ : A1 A2 2 : NC 3 : NO ④: COM



18: A1 A2 27:NC (4)(5): NO



36:COM

**23** / SHENLE CORPORATION LTD.



Characteristics						
	Туре			SRT05-E	SRT08-E	
	Nominal	Current	А	16	10	
	load	Voltage	V	300		
SRT05-E	Dielectric	Between coil and contact	V/min	4000		
50	strength	Between contacts	V/min	2500		
	Max. tight	ening torque	Nm	1.0		
	Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.5		
30	Ambient te	emperature	°C	-40~+85		
	Unit weigh	nt	g	22	27	
	Relay, accessories Selection Table					
SRT08-E		Plastic clip		Bus jumper		
532		20		131313131		
	(ir	ncluded in socket)	SR08C			
Dimensions (mn	ו)					



#### **Connection Diagrams**

① ⑤ : A1 A2 2 : NC 3 : NO ④: COM



6 3-

5 4

-0 || C--

72

① ⑧ : A1 A2 27:NC (4)(5): NO 36:COM



## SRT05/08-ES



Characteristics						
Characteristics	Turk					
	Туре			•	SKIU5-ES	SRTU8-ES
	Nominal C			A	10	10
SRT05-ES			ntaat	V V	4000	
	Dielectric B	etween coll and co	ntact	v/min	4000	
1160	Man Cable	etween contacts		V/min	2500	
	Max. tighten	ing torque			1.0	
La barre	Ambiont tor			₩G/IIIII °C	20-14/0.5-2.5	
19 /	Linit weight	iperature		<u>д</u>	22	27
	Relav.acces	sories Selection 1	[able	0	22	21
	Cooket	Plastic			Bue jump	or.
SRT08-ES	Socket	Flash	clip		Bus jumpe	1
	SRT05-ES	SR20 (included i	L n socket)		SR08	c
Dimensions (mn	n)					
10						
SR <sup>15.8</sup>			umper for (	choice	23Max	
Connection Disc		116Max	Y	Bus jum	nper SR08C	
Connection Diag	grains					
(1) (5) (2) (3) (4)	) : A1 A2 ) : NC ) : NO ) : COM				: A1 A2 : NC : NO : COM	

SRT05-ES SRT08-ES

## SRU05/08-E

RFT Socket

## 

Characteristics							
Characteristics	-						0.000 -
	туре	•				SRU05-E	SRU08-E
	Nominal	Cur	rent		A	16	10
	IUau	Volt	age		V	300	
SRU05-E	Dielectric	Bet	ween coil and co	ontact	V/min	4000	
10	strength	Betv	ween contacts		V/min	2500	
alas	Max. tight	ening	g torque		Nm	1.0	
20	Wire size				AWG/mm <sup>2</sup>	20-14/0.5-2	.5
	Ambient te	empe	erature		°C	-40~+85	
	Unit weigh	nt			g	35	43
	Relay,acc	esso	ories Selection	Table			
SKUU8-E	Socket		Plastic clip	ID	tag	Module	Bus jumper
Sellins .	SRU05-E						1
			66	1	N.	111	E
						100	6
	SRI IO8-F	-					
	5110000	-	SR20T	SF	R2P	AMD	SR08B
Dimensions (mn	า)						
15 	5.8Max	15.	8Max	6	61.5 Max		
	Ð	e		1			
<u>a</u>	Ð	e					
		e				<u> </u>	
Ţ							
L			32.5			0 Max	
		F			0	~	
		T					
C		0					
,							
E					<i>-</i>		
CD				jumper for	choice		
35	003-E	JAU	00-L		2.0		
<del>- 15.8</del>		- 12	0 0		-+ <sup>2.8</sup>		
D		_		-	- 10		
-	11.1	1	1.11	•	В	us jumper SF	R08B
			116Max				

#### **Connection Diagrams**

① ⑤ : A1 A2 ② : NC

3 : NO

④: COM



4-

-6 3<sub>7</sub>

5 4

-8 ()

SRT08-E

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

## SRU05/08-ST

RFT Socket



Characteristics						
	Туре				SRU05-ST	SRU08-ST
	Nominal	Current		А	16	10
	load	Voltage		V	300	1
	Dielectric	Between coil and	contact	V/min	4000	
SRU05-ST	strength	Between contac	ts	V/min	2500	
	Max, tight	enina torque		Nm		
EM	Wire size			AWG/mm <sup>2</sup>	20-14/0.5-2.5	
	Ambient to	emperature		°C	-40~+85	
	Unit weiał	nt		g	35	43
	Relay.acc	essories Selecti	on Tabl	le		1.2
	Socket	Plastic clip	IL	) tag	Module	Bus jumper
SRU08-ST	SUCKEL	Flastic clip	IL	Jiag	would	Bus jumper
					-	
21	SRU05-ST	7			and a	100
at all				M		100
		-			10	
	SKU00-51	SR20T	S	R2P	AMD	ST01CC
Dimensions (mm)						
	16Max	16Max		43 Max		
			-		1	
			14			
			2		lax	
			35		102N	
			⊥_A	o		
	0p	Bus jum	per 0			
		or choid	e	5		
				/		
SR	U05-ST	<u>3 / </u> SRU08-ST				
	2.7	-				
	-	Bus	jumpe	r ST01CC		
		+ 12.0 Max				
Connection Diagrai	ns					
① ⑤ : A1	A2	4 r	-6 3		8): A1 A2	
② : NC	2	3	-5 4	_ ري ا	⑦ : NC	
③ : NC	)	2	07 r2	(j) (d)	5): NO	
(4) : CC	M			3	6 : COM	
~						
		₽	ها لع			
		T T	T T			
	(	$\Phi$	$\Phi$	)		
		4	ΙΨ			

SRU05-ST SRU08-ST

## SRT05/08-P

RFT Socket

# 

Characteristics					
SRT05-P	Туре			SRT05-P	SRT08-P
	Nominal load	Current	А	8	10
		Voltage	V	300	
	Dielectric strength	Between coil and contact	V/min 4000		
		Between contacts	V/min	2500	
and the second	Ambient temp	°C	-40~+85		
	Unit weight	g	4		

SRT08-P



Dimensions (mm)







SRT05-P

SRT08-P



**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.



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







Socket

=



**Relay module** 

Characteristic	cs					
	Con	figuration	2C/3C	4C		
-		Resistance	5A/250VAC, 30VDC	3A/250VAC, 30VDC		
	Loa	Motor load	1/3HP, 240VAC	1/6HP, 240VAC		
Ī	Max	. switching capacity (resistive)	1250VA, 150W	750VA, 90W		
Contact	Min.	switching capacity	170mW(17V/10mA)			
Contact	Initia	al contact resistance	≤50mΩ			
-	Mat	erial	Ag alloy			
-	Elec	trical durability	≥10 x 10 <sup>4</sup> Cycles (1800	Ops/h)		
-	Mec	hanical durability	≥2000 x 10 <sup>4</sup> Cycles (180	000 Ops/h)		
Pick-up voltage (2	3℃	) (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 resistan	ice		≥500MΩ (500VDC)			
Coil operating pow	ver	DC(W)	approx. 0.9			
con operating por		AC(VA)	approx. 1.2			
Operate time&Rel	eas	e time (at nominal voltage)	≤20ms			
Initial breakdown		Between open contacts	1000VAC/1min (leakag	1000VAC/1min (leakage current 1mA)		
voltage		Between poles	2000VAC/1min (leakage current 1mA)			
voltago		Between contacts and coil	4000VAC/1min (leakag	je current 1mA)		
Insulation		Rated voltage	250VAC			
characteristics Pollution level		3	2			
IEC 60664 UL840 Overvoltage level		III II				
Impulse withstand	vol	tage (waveform: 1.2/50us)	4000V			
Protection level			IP50			
Storage temperature/ humidity		-55~+85°C/ ≤85%RH (18 months)				

Protection levelIP50Storage temperature/ humidity-55~+85°C/ ≤85%RH (18 months)Working temperature/ humidity-55~+70°C/ 5%~85%RH (No condensation) ★Air pressure86~106KPaShock resistance10G (half-sine shock pulse: 11ms)Vibration resistance10~55Hz double-amplitude:1.0mmMountingplug inUnit weightapprox. 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 $\Omega$	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance $\Omega$	11.5	180	370	640	4430	16500	42000

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

#### **Contact Specification** RKM2CO Electrical durability contacts Maximum switching capacity 1000 Contact current(A) 10 operating cycles)(x10<sup>4</sup>) Durability(number of 5 100 load 250VAC/30VDC resistive load(1S/1S) 1 10 0.5 250VAC (COSØ=0.4) inductive load current (A) 0 0 1 2 3 4 5 6 7 8 9 10 0.1 Contact voltage(V) 30 200 300 10 50 100 5 **RKM4CO** Electrical durability contacts Maximum switching capacity Contact current(A) operating cycles)(x10<sup>4</sup>) 10 1000 Durability(number of 5 100 1 250VAC/30VDC resistive load(1S/1S) DC inductive load 10 0.5 250VAC (COSØ=0.4) inductive load DC resistive load ٥٢ current (A) 0.1 Contact voltage(V) 0 1 2 3 4 5 5 10 30 50 100 200 300

## RKM

Miniature General Purpose Relay

**Dimensions (mm)** 



#### **Wiring Diagrams**



## SYF08A-E & SYF11A-E

& SYF14A-E RKM Socket CE EHE LA &



#### **Dimensions (mm)**



**Connection Diagrams** 

12-

L<sub>14</sub> (13-

SYF08A-E

1 (1) (1) : A1 A2

① ④ : NC (5) (8) : NO

9 12 : COM



-6

₀ال<sub>®</sub> لر SYF11A-E ①①①:A1 A2

123:	NC
456:	NO
789:	COM

L<sub>11</sub> (1)-

8	7	6	5
		ſ	
-12			9
L(4) L S	—(14) SYF1	_ <sub>13</sub> -14A	E
	120	3):A	1 A2
56	7	£):N 3):N	IC 10
91	100	2 : C	OM

3 2 1

## SYF08A & SYF11A

**& SYF14A** RKM Socket



	Characteristics							
		Туре			SYF08A	SYF11A	SYF14A	
(7)		Nominal	Current	А	10	7	7	
	Add.	load	Voltage	V	300			
SYF08A	ETE	Dielectric	strength	V/min	2000	2000		
	8	Max. tighte	ening torque	Nm	1.0			
	CONTRACTOR	Wire size		AWG/mm <sup>2</sup>	20-16/0.5-1.5			
		Ambient temperature		°C	-40~+85			
	12/5/	Unit weigh	t	g	34	47	56	
		Relay, accessories Selection Table						
	100	Soc	ket	Metal clip				
SYF14A		SYF08A		1.				
	TTE'	SYF	11A		1			
1	46	SYF	14A		SY36S			

#### **Dimensions (mm)**



SYF08A

SYF11A







## 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




### **RKE** Miniature General Purpose Relay

Relay			<ul> <li>Other options         LT: LED + test button             LTD: LED + test button             LTD1: LED + test button             LTM: LED+test button,             A:gold plated contact     </li> <li>Coil voltage code         Code         006         006         006         Code         006         Code         Code         506         5         Voltage (V AC)         6         1         Contact form         2C: 2CO         4C: 4CO         a         b         a         a         b         a         a         a         b         a         b         b         b         b         b         b         b         b         b         b         b         a         b         b         b         b         a         b         b         b         a         b         a         b         a<th>+ diode (13-,14+) n + diode (13+,14-) with 0.65Un coil tuned 12 024 048 110 220 2 24 48 110 220 24 536 548 615 730 880 4 36 48 115 230 380 t</th></li></ul>	+ diode (13-,14+) n + diode (13+,14-) with 0.65Un coil tuned 12 024 048 110 220 2 24 48 110 220 24 536 548 615 730 880 4 36 48 115 230 380 t			
			- Series name				
	Characteristics						
1 50 20	Configuration	1	2C	4C			
and a set of the	Load F	Resistance	7A/250VAC, 30VDC	5A/250VAC, 30VDC			
for suits		Votor load	1/6HP. 240VAC	0.12001.10,00120			
SYF08A-E (E P SYF08A-E (E P	Max. switchir	ng capacity (resistive)	1750VA. 210W	1250VA. 150W			
2C 10A 8000	Min switchin	a capacity	170mW(17V/10mA)				
	Contact Initial contact	t resistance	<50mQ				
	Material		Ag alloy				
_	Flectric dural	bility(110%rated voltage, 55°C)	≥20 x 10 <sup>4</sup> Cycles (1800 Ops/h)				
Socket	Electric dural	hility (Normal temperature)	≥40x 10 <sup>4</sup> Cycles (360 Ops/h)				
	Mec	chanical durability	≥2000 x 10 <sup>4</sup> Cycles (18000 Ops/h)				
=	Pick-up voltage (23°C	(Rated voltage)	DC:<75% AC:<80% 50/60Hz				
	Drop-out voltage (23 °	C) (Pated voltage)	DC:>10% AC:>30% 50/60Hz				
	Maximum voltage (23	°C) (Rated voltage)	DC:210%, AC:230% 50/60Hz				
and the second s		(Rated Voltage)	>500MQ (500\/DC)				
RKEZCOTADLY	Coil operating power	DC(W)					
SA' 20 VAC 13	een operating perior		approx. 1.2				
	Operate time&Releas	e time (at nominal voltage)	<20ms				
	Initial breakdown	Between open contacts	1000 / A C / 1 min (leaka)	ne current 1mA)			
	voltage	Between poles	2000VAC/1min (leaka	pe current 1mA)			
and she		Between contacts and coil	4000\/AC/1min (leakag	re current 1mA)			
Strategiese	Inculation	Rated voltage	250VAC				
2	characteristics	Pollution level	3				
	IEC 60664 UL840	Overvoltage level	III				
	Impulse withstand vol	tage (waveform: 1.2/50us)	4000V				
	Protection level		IP50				
Dolov modulo	Storage temperature/	humidity	-55~+85°C/ ≤85%RH (	18 months)			
Relay module	Working temperature/	/ humidity	-55~+70°C/ 5%~85%RH	I (No condensation) 🛨			
	Air pressure		86~106KPa				

Shock resistance

Mounting

Unit weight

Vibration resistance

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

plug in

approx. 35g

10G (half-sine shock pulse: 11ms)

10~55Hz double-amplitude:1.0mm

## RKE

Miniature General Purpose Relay

Coil Specifications (23°C)							
Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance $\Omega$	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  $\pm 10\%\Omega$ , above 110V with tolerance of  $\pm 15\%\Omega$ .

#### **Contact Specification**







Contact voltage(V)

#### **RKE4CO**





Contact voltage(V)

## RKE

Miniature General Purpose Relay

**Dimensions (mm)** 





Wiring Diagrams



**RKE4CO** 



## **RKE-LS** Sealed Power Relav





- 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







Socket





**Relay module** 

**39** / SHENLE CORPORATION LTD.

## **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 $\Omega$	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance $\Omega$	11.5	180	370	640	4430	16500	42000

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

#### **Contact Specification**





Contact voltage(V)





Contact voltage(V)

### Dimensions (mm)



## SYF08A-E & SYF11A-E

& SYF14A-E RKE Socket

Characteristics							
	Туре			SYF08A-E	SYF11A-E	SYF14A-E	
	Nominal	Nominal Current		10	7	7	
	load	Voltage	V	300			
SYF08A-E	Dielectric	strength	V/min	2000			
	Max. tighte	ening torque	Nm	1.0			
5	Wire size		AWG/mm <sup>2</sup>	20-16/0.5-1.5			
and a	Ambient te	emperature	°C	-40~+85			
STA A	Unit weigh	t	g	36	56	57	
	Relay,acc	essories Selecti	ion Table				
	Socket		Metal clip				
SYF14A-E	SYF08A-E			1.			
	SYF11A-E			1			
SEE B	SYF1	4A-E		SY36S			

#### **Dimensions (mm)**





## SYF08A & SYF11A

**& SYF08A** 

RKE Socket



	Characteristics								
		Туре			SYF08A	SYF11A	SYF14A		
(\\=)	Nominal	Current	А	10	7	7			
CVEDDA	Adda.	load	Voltage	V	300				
SYFU8A	FI	Dielectric	strength	V/min	2000	2000			
	18	Max. tighte	ening torque	Nm	1.0				
SE	STE	Wire size		AWG/mm <sup>2</sup>	1 <sup>2</sup> 20-16/0.5-1.5				
	Ambient te	emperature	°C	-40~+85					
	LE BI	Unit weigh	t	g	34	47	56		
		Relay,acc	essories Select	ion Table					
		Soc	ket	Metal clip					
SYF14A		SYF08A			1.				
	SYF11A			1					
1	III-	SYF	14A		SY36S				

#### **Dimensions (mm)**



SYF08A

SYF11A



SYF14A



## **SKB08-E & SKB14-E**

RKE Socket

## 

Characteristics						
	Туре			SKB08-E	SKB14-E	
	Nominal Current A		А	12	10	
	load Vo	Voltage	V	300		
SKB08-E	Dielectric Between coil and contact V.		ct V/min	4000		
1994	strength	Between contacts	V/min	2500		
	Max. tigh	tening torque	Nm	1.0		
and a star	Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.5		
Me	Ambient	emperature	°C	-40~+85		
AL .	Unit weig	ht	g	50	56	
	Relay, accessories Selection Table					
(inc.	Socket	Plastic clip	Metal clip	ID tag	Module	
SKB14-E	SKB08-E	1	$\sum_{i=1}^{n}$			
S Sec. S	SKB14-E	4	° _		1	
Nices /		SK36F	SK36M	SK4P	AMD	
all a						

Dimensions (mm)



SKB08-E

SKB14-E

**Connection Diagrams** 

5

SKB08-E (3) (1) : A1 A2 (1) (4) : NC (5) (8) : NO (9) (1) : COM



-8

SKB14-E

(1) (1) : A1 A2 (1) (2) (3) (4) : NC (5) (6) (7) (8) : NO (9) (1) (1) (2) : COM

## **SKC08-E & SYF11A**

**& SYF14A** RKE Socket



Characteristics							
	Туре				SKC08-E	SKC11-E	SKC14-E
	Nominal	Current		А	12	10	10
	load	Voltage		V	300	300	
SKC08-E	Dielectric	Between coil and cor	ntact	V/min	4000		
	strength	Between contac	ts	V/min	2500		
	Max. tigh	tening torque		Nm	1.0		
1-17	Wire size			AWG/mm <sup>2</sup>	20-14/0.5-2.5		
S. C.	Ambient temperature			°C	-40~+85		
	Unit weight			g	50	56	62
	Relay,acc	essories Selecti	on 1	Fable			
ALC: NO.	Socket	Plastic clip	N	letal clip	ID tag	M	odule
SKC14-E	SKC08-E	M		$\sim$			
· · · · ·	SKC11-E	IJ	l			7	
100	SKC14-E	SK36F	:	SK36M	SK4P	Δ	MD

#### **Dimensions (mm)**







13 14	:	A1 A2
1234	:	NC
5678	:	NO
910112	÷	COM



## SKC08-ST & SKC14-ST

RKE Socket



Characteristics						
Press Press	Туре			SKC08-ST	SKC14-ST	
	Nominal	Current	А	12	8	
	load	Voltage	V	300		
SKC08-ST	Dielectric	Between coil and contact	V/min	4000		
	strength	Between contacts	V/min	2500		
E	Max. tigh	tening torque	Nm	-		
	Wire size	_	AWG/mm <sup>2</sup>	20-14/0.5-2.5		
· · · ·	Ambient	temperature	°C	-40~+85		
S	Unit weig	ht	g	80	80	
	Relay, accessories Selection Table					
	Socket	Plastic clip	ID tag	Module E	Bus Jumper	
SKC14-ST	SKC08-ST	1			100	
1	SKC14-ST	4		1		
1. 1		SK36F	SK4P	AMD	ST01CC	

Dimensions (mm)



**Connection Diagrams** 

-12 11 10 9-9--12 **™**[® [⑦ ®] -8 5 4 1 4 320 (13 (1) : A1 A2 (13 (1) : A1 A2 니그네 L ① ④ : NC  $\textcircled{1} \textcircled{2} \textcircled{3} \textcircled{4} : \mathsf{NC}$ \_\_\_\_\_ -58:NO 5678:NO P F 曱 912: COM 9 1 1 2 : COM Þ 13 14 (14) 13 SKC08-ST SKC14-ST

## **SKF08-E & SKF14-E**

RKE Socket



Characteristics					
	Туре			SKF08-E	SKF14-E
(事)	Nominal	Current	А	12	10
	load	Voltage	V	300	
SKF08-E	Dielectric	Between coil and contact	V/min	4000	
Con Print	strength	Between contacts	V/min	2500	
	Max. tigh	tening torque	Nm	1.0	
	Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.	5
	Ambient	temperature	°C		
	Unit weig	ht	g	35	45
•	Relay,acc	essories Selection	Table		
444	Socket	Metal clip	ID	tag	Module
SKF14-E	SKF08-E				-
	SKF14-E	[]			
_		SK36M	Sk	(4P	AMD

**Dimensions (mm)** 



SKF08-E

SKF14-E

**Connection Diagrams** 



(5) (8) : NO (9) (12) : COM

SKF14-E

13 14	:	A1 A2
1234	:	NC
5678	;	NO
9011	:	COM



## 



### **Dimensions (mm)**



#### **Connection Diagrams**



(3) (4) : A1 A2 (1) (2) (3) (4) : NC (5) (6) (7) (8) : NO (9) (1) (1) (2) : COM

## SY08-P & SY14-P

RKE Socket



Characteristics								
	Туре			SY08-P	SY14-P			
	Nominal	Current	А	10	6			
SY08-P	load	Voltage	V	300				
1. 2 Mar	Dielectri	c strength	V/min	2000				
	Wire size	)	AWG/mm <sup>2</sup>	20-14/0.5-2.5				
Rec.	Ambient	temperature	°C	-40~+85				
	Unit weig	pht	g	7	7			
	Relay, accessories Selection Table							
	Socket		Metal clip					
SY14-P	SY08-P		$\wedge$					
Teres	SY14-P	1	SY36M					

### Dimensions (mm)





## 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





## **RKF** Miniature General Purpose Relay



	RKF 🗆 🗆 🗆					
		τ	<ul> <li>Other options         <ul> <li>LT: LED + test button</li> <li>LTD: LED + test butto</li> <li>LTD1: LED + test butto</li> <li>LTD A: LED + test butto</li> <li>LTM: LED + test button</li> </ul> </li> <li>Coil voltage code         <ul> <li>Code</li> <li>006</li> </ul> </li> </ul>	on + diode (13-,14+) ton + diode (13+,14-) on + gold plated contact ton + diode+gold plated contact , with 0.65Un coil tuned		
Relay			Voltage (V DC)6Code506Voltage (V AC)6	12         24         48         110         220           524         536         548         615         730         880           24         36         48         115         230         380		
±			<ul> <li>Terminal arrangem</li> <li>O: plug in</li> </ul>	ent		
T			<ul> <li>Contact form</li> <li>2C: 2CO</li> <li>4C: 4CO</li> </ul>			
A			Series name			
A CONTRACT	Characteristics					
CALLOS ANTE	Configuration	١	2C	4C		
Snenle Leca	Load F	Resistance	12A/250VAC, 30VDC	6A/250VAC, 30VDC		
2C 2A Shi	Name and taking	Motor load	1/3HP, 240VAC	1/6HP,240VAC		
		ng capacity (resistive)	3000VA, 360W	1500VA, 180W		
	Contact Min. switchin	g capacity	170mW(17V/10mA); L1	A: 500mW(5V/100mA)		
Socket	Initial contact	t resistance	≤50mΩ			
		hility (110% rated valtage 55°C)	$\sim 20 \times 10^4 \text{Cycles} (1800 \text{Opc/h})$			
=	Electric dural	bility (110%rated voltage, 55 C)	220 x 10 <sup>4</sup> Cycles (1800 Ops/h)			
	Mechanical		240 x 10°Cycles (360 Ops/n)			
			≥2000 x 10 <sup>4</sup> Cycles (18000 Ops/h)			
22	Pick-up voltage (23°C	(Rated Voltage)	DC:=75%, AC:=80% 50/60Hz			
a state 1	Drop-out voltage (23)	C) (Rated voltage)	JC:210%, AC:230% 50/60Hz			
A CONTRACT OF A		C) (Raleu Vollage)	>1000MQ (500\/DC)			
A COLORED AND A	Insulation resistance					
	Coil operating power		approx 1.2			
	Operate time&Releas	e time (at nominal voltage)	<20ms			
CE THE	- p	Between open contacts	1000\/AC/1min (leakad	ae current 1mA)		
# 22	Initial breakdown	Between poles	2000VAC/1min (leakag	ae current 1mA)		
STREAM SAUCE	voltage	Between contacts and coil	4000VAC/1min (leakad	ae current 1mA)		
20 toA	Insulation	Rated voltage	250VAC	,		
	characteristics	Pollution level	3	2		
	IEC 60664 UL840	Overvoltage level	III	II		
Relay module	Impulse withstand vol	tage (waveform: 1.2/50us)	4000V			
	Protection level		IP50			
	Storage temperature/	humidity	-55~+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 p	ulse: 11ms)		
	Vibration resistance		10~55Hz double-ampli	tude: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 $\Omega$	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance $\Omega$	11.5	180	370	640	4430	16500	42000

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

### **Contact Specification**









Contact voltage(V)

## RKF

Miniature General Purpose Relay

## Dimensions (mm)







### **Wiring Diagrams**



## SKF08-E & SKF14-E

RKF Socket



Characteristics					
	Туре			SKF08-E	SKF14-E
	Nominal	Current	А	12	10
	load	Voltage	V	300	
SKF08-E	Dielectric	Between coil and contact	V/min	4000	
STATION IN	strength	Between contacts	V/min	2500	
1 · 211	Max. tigh	tening torque	Nm	1.0	
and the second	Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.	5
	Ambient	temperature	°C	-40~+85	
	Unit weight		g	35	45
•	Relay,acc	essories Selection 7			
	Socket	Metal clip	ID	tag	Module
SKF14-E	SKF08-E	~~			-
	SKF14-E	[]		7	
		SK36M	Sk	(4P	AMD

Dimensions (mm)



SKF08-E

SKF14-E

### **Connection Diagrams**





#### SKF14-E

(13 (14	:	A1 A2
1234	:	NC
5678	;	NO
90000	:	COM

#### **53** / SHENLE CORPORATION LTD.

## **SKB08-E & SKB14-E**

**RKF** Socket

## 

Characteristics						
	Туре			SKB08-E	SKB14-E	
	Nominal	Current	A	12	10	
	load	Voltage	V	300		
SKB08-E	Dielectric	Between coil and con	tact V/min	4000		
and a second	strength	Between contact	ts V/min	2500		
	Max. tight	tening torque	Nm	1.0		
a start a	Wire size	_	AWG/mm <sup>2</sup>	20-14/0.5-2.5		
Mes.	Ambient f	temperature	°C	-40~+85		
1	Unit weig	ht	g	50	56	
	Relay,acc	essories Selectio	on Table			
(Con-	Socket	Plastic clip	Metal clip	ID tag	Module	
SKB14-E	SKB08-E	M	$\sum_{i=1}^{n}$		1	
SSY	SKB14-E	1			1	
		SK36F	SK36M	SK4P	AMD	
ALL .						

Dimensions (mm)



SKB08-E

SKB14-E

**Connection Diagrams** 

SKB08-E

① ④ : NC ⑤ ⑧ : NO

912: COM

13 14 : A1 A2





SKB14-E

(1) (1) : A1 A2 (1) (2) (3) (4) : NC (5) (6) (7) (8) : NO (9) (1) (1) (2) : COM

## SKC08-E & SKC14-E

**RKF** Socket



Charactoristics										
	Type				SKC08-E	SKC11-E	SKC14-E			
	Nominal	Current		А	12	10	10			
	load	Voltage		V	300	1				
SKC08-E	Dielectric	Between coil and cor	ntact	V/min	4000					
	strength	Between contac	ts	V/min	2500					
	Max. tigh	tening torque		Nm	1.0	1.0				
	Wire size	Wire size			20-14/0.5-2.5					
Se all	Ambient temperature			°C	-40~+85	-40~+85				
	I Init weig	Init weight			50	56	62			
	ay, accessories Selection Table									
Aren	ocket	Plastic clip	Μ	letal clip	ID tag	Mo	odule			
SKC14-E	C08-E			$\sim$		6				
	C11-E	IJ	l	1						
	С14-Е	C14-E SK36F S		SK36M	SK4P	A	MD			

#### **Dimensions (mm)**





## **SKB08-E & SKB14-E**

**RKF** Socket



Characteristics								
Press Press	Туре			SKC08-ST	SKC14-ST			
	Nominal	Current	А	12	8			
	load	Voltage	V	300				
SKC08-ST	Dielectric	Between coil and contac	t V/min	4000				
	strength	Between contacts	V/min	2500				
2	Max. tigh	tening torque	Nm	-				
	Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.5				
	Ambient	temperature	°C	-40~+85				
C. 4	Unit weig	ht	g	80	80			
	Relay, accessories Selection Table							
	Socket	Plastic clip	ID tag	Module E	Bus Jumper			
SKC14-ST	SKC08-ST	1		alle	20			
1	SKC14-ST	IJ		14				
1000		SK36F	SK4P	AMD	ST01CC			

Dimensions (mm)





## SY08-P & SY14-P

RKF Socket



Characteristics								
	Туре			SY08-P	SY14-P			
	Nominal	Current	А	10	6			
SY08-P	load	Voltage	V	300				
	Dielectri	c strength	V/min	2000				
5.0% 7 Cm	Wire size	)	AWG/mm <sup>2</sup>	20-14/0.5-2.5				
Real Providence	Ambient	temperature	°C	-40~+85				
	Unit weight		g	7	7			
-	Relay, accessories Selection Table							
	Socket		Metal cl	ip				
SY14-P	SY08-P		$\wedge$	>				
There	SY14-P		36M					

### Dimensions (mm)





## RKF

Magnetic Blow-out Power Relay

## CE







Socket

=



**Relay module** 

— Other options								
LTS: LED + test button+magnet								
ITDS: I ED + test button + diode (13 - 14 +) + magnet							agnet	
	est h	uttor	n + di	inde	(13	+ 1	4_)+	-magnet
ITM·I FD+test	outto	n wit	h 0 F	5Ur		tune	ed .	magnee
	Jucco	,		501	i con	curre	cu	
— Coil voltage c	ode							
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 (VAC)	6	24	36	48	115	230	380	
— Terminal arra	ngen	nent						
O: plug in	Ŭ							
— Contact form								
20.200								

- 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)

Chara	cteristics		
5.	Configuration	n	2C
	Load	Resistance	15A/250VAC 30VDC (NO:15A, NC:7.5A); 10A 60VDC
		Motor load	1/3HP, 240VAC
	Switching ca	pacity (resistive)	3750VA, 600W
Contract	Switching ca	pacity (perceptual)	2500VA, 90W
Jontact	Min. switchir	ng capacity	170mW(17V/10mA)
	Initial contac	t resistance	≤50mΩ
	Material		Ag alloy
	Electric dura	bility(110%rated voltage, 55°C)	≥10 x 10 <sup>4</sup> Cycles NO:15A, NC:7.5A); ≥20 x 10 <sup>4</sup> Cycles (NO/NC:12A)
	Me	chanical durability	≥2000 x 10 <sup>4</sup> Cycles (18000 Ops/h)
Pick-up	voltage (23°C	c) (Rated voltage)	DC:≤75%, AC:≤80% 50/60Hz
Drop-ou	it voltage (23°	C) (Rated voltage)	DC:≥10%, AC:≥30% 50/60Hz
Maximu	m voltage (23	<sup>s°</sup> C) (Rated voltage)	110%
Insulatio	on resistance		≥1000MΩ (500VDC)
Coil ope	erating power	DC(W)	approx. 0.9
		AC(VA)	approx. 1.2
Operate	e time&Releas	se time (at nominal voltage)	≤20ms
Initial br	eakdown	Between open contacts	1000VAC/1min (leakage current 1mA)
voltage		Between poles	2000VAC/1min (leakage current 1mA)
		Between contacts and coil	2000VAC/1min (leakage current 1mA)
Insulatio	on	Rated voltage	250VAC
characte	eristics	Pollution level	3
IEC 606	64 UL840	Overvoltage level	III
Impulse	withstand vo	ltage (waveform: 1.2/50us)	4000V
Protecti	on level		IP50
Storage	temperature/	humidity	-55~+85°C/ ≤85%RH (18 months)

### **RKF** Magnetic Blow-out Power Relay

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

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

### **Contact Specification**

#### **RKF2CO**





## RKF

Magnetic Blow-out Power Relay

Dimensions (mm)



### Wiring Diagrams

RKF2CO













## SYF08A-ES

RKF Magnetic Blow-out Power Relay Socket



Characteristics							
	Туре			SYF08A-E S			
	Nominal Current		А	15			
	load	Voltage	V	300			
	Dielectric	electric strength		2000			
SYF08A-E S	Max. tighte	ening torque	Nm	1.0			
Silver LS	Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.5			
	Ambient te	emperature	°C	-40~+65			
1.	Unit weigh	nt	g	37			
2. 2/	Relay, accessories Selection Table						
Ens	Soc	ket		Metal clip			
	SYF0	8A-E S		SY36S			

### **Dimensions (mm)**





SYF08A-E S

### **Connection Diagrams**



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

SYF08A-E S

## SKC08-E S

RKF Magnetic Blow-out Power Relay Socket

## 



### Dimensions (mm)



SKC08-E S

**Connection Diagrams** 



*Shenler* / 62

### **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





### **RKL** Miniature Power Relay



	RK									
				Ξ		Dther o _T:LED + _TD: LEI _TD1: LEI	<b>ptions</b> - test butt D + test bu ED + Test	ton utton + dioc button + dio	le (13- ode (1	-,14+) 3+,14-)
			L			Coil vol Code Voltage ( Code	tage code 00 V DC) 6 50	e 06 012 024 12 24 06 524 536	048 1 48 1 548 6	10 220 10 220 15 730 880
Palau						Voltage ( Fermina O: plug	VAC) 6 alarrang in	24 36	48  1	15 230 380
Relay +						Contact LC: 1CO 2C: 2CO	form			
						8C: 3CO 4C:4CO <mark>Series r</mark>	ame			
Jer Hunger	Chara	acteristi	ics	n	10		20		30	40
and the second s		Load Resistance Motor load		Resistance Motor load	16A/250VA 1/2HP, 12 1HP, 240\	C 30VDC 0VAC, 'AC	10A/250	VAC 30VDC	1/6HI	240VAC
Socket	Contact Min. switch		x. switching capacity (resistive) <ol> <li>switching capacity</li> <li>tial contact resistance</li> </ol>		4000VA, 480W 2500VA, 300W 170mW(17V/10mA) ≤50mΩ Ag alloy					
_		Electrica	al du	rability	1C/3C/4C 2C: ≥20 x	: ≥10⁴Cy 10⁴Cycl	/cles (180 es (1800 (	0 Ops/h), Ops/h)		
	Mechanical durability			durability (Rated voltage)	≥1000 x 10 <sup>4</sup> Cycles (1800 Ops/h) DC:≤75%, AC:≤80% 50/60Hz					
175	Drop-out voltage (23°C) (Rated voltage) Maximum voltage (23°C) (Rated voltage)			DC:≥10%, AC:≥30% 50/60Hz 110%						
03	Insulation Coil oper	n resistan rating pow	ver	DC(W) AC(VA)	≥500MΩ approx. 0 approx. 1	(500VD) .9 app .2 app	C) prox. 0.9 prox. 1.2	approx. 1.4 approx. 2	l app app	prox. 1.5 prox. 2.5
6 6 W	Operate	time			≤20ms					
ALC: THE	Release	time (at n	omi	nal voltage)	≤20ms					
	Initial bre	akdown	Be	tween open contacts	1000VAC	/1min (l	eakage cı	urrent 1mA)		
	voltage	Januowii	Be Be	tween poles tween contacts and coil	2000VAC	/1min (l /1min (l	eakage cu eakage cu	urrent 1mA) urrent 1mA)		
	Insulatio	n		Rated voltage	250VAC		0	,		
Relay module	characte	ristics		Pollution level	3					2
	IEC 6066	64 UL84	0	Overvoltage level	III					Π
	Impulse v	withstand v	volta	ge (waveform: 1.2/50us)	4000V					
	Protectio	on level			IP50					
Storage temperature/ humidity					-55~+85°C/ ≤85%RH (18 months) ★					

Working temperature/ humidity

Air pressure

-25~+55°C/ 5%~85%RH (No condensation)

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 $\Omega$	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance $\Omega$	11.5	180	370	640	4430	16500	42000
RKL3							
Nominal voltage V DC	6	12	24	48	110	220	1
Coil resistance O	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
	1	1		1.20	1	1	
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 $\Omega$	5	80	180	320	1680	8000	20000

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

### **Contact Specification**









## RKL

Miniature Power Relay



### **Wiring Diagrams**



& STB14-E RKL Socket



Channe at a visiting							
Characteristics	Type				STBU8-B	STR11_E	STR14-E
	Nominal	Current			31000-1	12	31014-L
	load	Voltage		A V		300	
		Between	oil	V			
STB08-E	Dielectric strength	and conta	ct	V/min		4000	
1. ill		Between c	ontacts	V/min		2500	
00/	Max. tight	ening torque	9	Nm		1.0	
ALC I	Wire size			AWG/mm <sup>2</sup>	2	20-14/0.5-2	2.5
501	Ambient t	emperature		Č		-40~+85	70
	Unit weigl	nt		g	46	62	78
	Relay,acc	essories Se	lection	Table			
STB14-E	Sock	ket	N	/letal clip		Modu	le
n'anna	STBO	8-E	1	SK36N	л	2	
1355			M			2	
Se il	STB1	1-E	1	/*		1.1	
000				<ul> <li>ST36N</li> </ul>	13C	AMD	
195	STB1	4-E	M	7		The	
			-	1			
				ST36N	/I4C	BMD	
Dimensions (mm)							
24.5Max	34.5Max	44.	5Max		3	i0Max	
				<b>∍</b> ⊤			
	$\mathbf{\mathbf{v}} \bigoplus_{6}^{34} \bigoplus_{5}^{24} \bigoplus_{4}^{14}$	, @ <sup>44</sup>	$\frac{34}{7} \bigoplus_{6}^{24} ($	) <sup>14</sup> <sub>5</sub>			
$\mathbf{\hat{\mathbf{+}}}$	$( \bigoplus_{1}^{32} \bigoplus_{2}^{22} \bigoplus_{1}^{12} )$			) <sup>12</sup>			
				■目			
				■   × ''	n.	00	
			- I	84Ma	ςς Γ		
				ジ <sub>13</sub>	ΙШ		
				9			
		Ę					
STB08-E	STB11-E	STE	314-E				
<b>Connection Diagra</b>	ims						
				_			
					6 5	]	
	3 2 1			4 3	21		



### **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





	REH							
			Τ	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				
Relay				O: plug in				
+				- Contact form 2C: 2CO 3C: 3CO				
1				- Series name				
J.S.	Chara	cteristics						
.5.50		Configuratio	n	2C,3C				
2 3/1			Resistance	16A/300VAC 30VDC				
A BALL		Load	Motor load	1/2HP, 120VAC; 1HP, 240VAC				
P.K.P.		Max. switchi	ng capacity (resistive)	4800VA, 480W				
	Contact	Initial contac	t resistance	≤50mΩ				
		Material		Ag alloy				
Sackat		Electric dura	bility(110%rated voltage, 55°C)	≥60 x 10 <sup>4</sup> Cycles (600 Ops/h)				
JUCKEL		Electric dura	bility (Normal temperature)	≥5000 x 10⁴Cycles (18000 Ops/h)				
_		Mechanical	durability	≥2000 x 10 <sup>4</sup> Cycles (18000 Ops/h)				
=	Pick-up	voltage (23°C	c) (Rated voltage)	DC:≤75%, AC:≤80% 50/60Hz				
	Drop-ou	t voltage (23°	C) (Rated voltage)	DC:≥10%, AC:≥30% 50/60Hz				
A	Maximu	m voltage (23	°C) (Rated voltage)	110%				
	Insulatio	on resistance		≥1000MΩ (500VDC)				
See. A	Coil ope	rating power	DC(W)	approx. 1.5				
		01	AC(VA)	approx. 2.5				
	Operate	time&Releas	e time (at nominal voltage)	≤20ms				
All and a second	Initial br	eakdown	Between open contacts	1500VAC/1min (leakage current 1mA)				
37 // A	voltage	Cardown	Between poles	4000VAC/1min (leakage current 1mA)				
E			Between contacts and coil	4000VAC/1min (leakage current 1mA)				
	Insulatio	n	Rated voltage	300VAC				
	characte	eristics	Pollution level	3				
	IEC 606	64 UL840	Overvoltage level	III				
	Impulse	withstand vo	Itage (waveform: 1.2/50us)	6000V				
	Protectio		humidit.	IP50				
Relay module	Storage	temperature/	numiaity	$-55 \sim +85^{\circ}C/ \le 85^{\circ}RH$ (18 months)				
	Air proo		Turniaity					
	Shock	esistance		10G (half-sine shock pulse: 11ms)				
	Vibratio	n resistance		10~55Hz double-amplitude:1.0mm				
	Mountin	g		plug in				
	Unit wei	ght		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 $\Omega$	24	96	385	1540	8070	32270		
Nominal voltage V.AC	6	24	48	115	230	380	400	
Coil resistance $\Omega$	8	100	350	2200	8000	26000	27000	

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

### **Contact Specification**





Contact voltage(V)

### **Dimensions (mm)**



#### **Wiring Diagrams**







## REH

Magnetic Blow-out Power Relay





**Series Name** 

RE	$H \square \square \square$							
	- $+$ $+$ $+$ $+$ $-$	— 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 (VAC)	24	48	115	230	380	400
		<ul> <li>Terminal arrange</li> <li>O: plug in</li> <li>Contact form</li> </ul>	ement	:				
		Code 1A Contact form 1NO	1B 2 1NC 2	A 2 NO 2	B 2 NC 11	FO NO&1		3A 3NO

### Series name

- 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)



Socket

=



**Relay module** 

Cnar	acteristic	.S						
-	Configurat	on	1A,1B	2A,2B,2FO	3A			
		Resistance	16A/500VAC	16A/250VAC	16A/300VAC			
	L oad	Resistance	10A/220VDC 16A/30VDC					
Contact	Load	inductive	10A/250VAC(cosØ0.4); 3A/220VDC(L/R=7ms)					
Contact	Switching	Resistance	8000VA	4000VA	4800VA			
	capacity	Resistance	2200W					
		inductive	2500VA(cosΦ0.	4);660W(L/R=7m	s)			
	Initial conta	act resistance	≤50mΩ					
	Material		Ag alloy					
	Electric dur	ability(110%rated voltage, 55°C)	≥60 x 10 <sup>4</sup> Cycles	(600 Ops/h) ≥20 x	10 <sup>4</sup> Cycles (600 Ops/h)			
	Mechanica	l durability	≥5000 x 10 <sup>4</sup> Cy	cles (18000 Op:	s/h)			
Pick-up	voltage (23°	C) (Rated voltage)	DC:≤75% , AC:	≤80% 50/60Hz				
Drop-ou	t voltage (23	3°C) (Rated voltage)	DC:≥10% , AC:≥30% 50/60Hz					
Maximu	m voltage (2	3°C) (Rated voltage)	110%					
Insulation	on resistanc	e	≥1000MΩ (500VDC)					
Coil one	rating nowe	DC (W)	approx. 1.5					
con ope		AC (VA)	approx. 2.5					
Operate	time&Relea	ase time (at nominal voltage)	≤20ms					
Initial br	aakdown	Between open contacts	1500VAC/1min	(leakage curre	ent 1mA)			
voltage	Sakuowii	Between poles	4000VAC/1min (leakage current 1mA)					
vonago		Between contacts and coil	4000VAC/1min (leakage current 1mA)					
Insulatio	n	Rated voltage	400VAC	250VAC	250VAC			
characte	eristics	Pollution level	2	3	3			
IEC 606	64 UL840	Overvoltage level	П	Ш	III			
Protectio	on level		IP50					
Storage	temperature	e/ humidity	-20~+85℃/ ≤85%RH (18 months) 🖈					
Working	temperatur	e/ humidity	-40~+55°C/ 5%~85%RH (No condensation)					
Air press	sure		86~106KPa					
Shock re	esistance		10G (half-sine shock pulse: 11ms)					
Vibratior	n resistance		10~55Hz dout	ole-amplitude:1	.0mm			
Mountin	g		plug in					
Unit wei	ght		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 $\Omega$	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  $\pm 10\%\Omega$ , above 110V with tolerance of  $\pm 15\%\Omega$ .

#### **Contact Specification**







Maximum switching capacity

AC:1A/1B resistive lo



#### **Dimensions (mm) & Wiring Diagrams**



*Shenler* | 72

# 

Characteristics				
	Туре			SEB11-E
	Nominal	Current	А	25
	load	Voltage	V	500
	Dielectric	Between coil and contact	V/min	4000
SEB11-E	strength	Between contacts	V/min	2500
	Max. tight	ening torque	Nm	1.2
J	Wire size		AWG/mm <sup>2</sup>	20-12/0.5-3.3
	Ambient te	emperature	°C	-40~+75
	Unit weigh	nt	g	64
	Relay,acc	essories Selection Table		
	Socket	Metal clip		Module
	SEB11-E			
		SE52M		BMD

#### Dimensions (mm)



#### **Connection Diagrams**

(A) (B) :	A1 A2
123:	NC
(4)(5)(6):	NO
0.00000000000000000000000000000000000	COM

6	5	(4
3	2	1
L		
F	曱	Ð
Ð		
0		Ø
B		$\mathbb{A}^{I}$
L	8	7

92Max



Characteristics						
	Туре			SEB11-P		
SEB11-P	Nominal	Current	A	15		
	load	Voltage	V	300		
	Dielectric stren	gth	V/min	25000		
	Ambient temper	ature	°C	-40~+75		
	Unit weight		g	8.4		
5 5 5	Relay, accessories Selection Table					
910 90	Socket		Metal clip			
Con Ball	SEB11-P	M.S.				
			SE48M			

#### Dimensions (mm)



#### **Connection Diagrams**

$\triangle \mathbb{R} \cdot \Lambda 1 \Lambda 2$	~1	¢-,- · -	⊕	 ⇒
	2.2		・ Z	3
(1) (2) (3) : NC	t	¥ 4	¥5	6
456:NO	16	·	⊕	⇒
⑦ ⑧ ⑨:COM			·	1 5
		: A	1	B

22

7.7

### 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



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





Socket

=



**Relay module** 

Chara	cteristi	CS					
	Configuration			2C,3C			
	Rated current / Rated voltage		t / Rated voltage	10A/250VAC 30VDC (resistive RES); 7A/250VAC 30VDC (perceptual GEN)			
<b>C</b> = = 4 = = 4	Max. swi	tchir	ng capacity (resistive)	2500VA, 300W			
Jontact	Initial co	ntac	resistance	≤50mΩ			
	Material			Ag alloy			
	Electrica	l dur	ability	≥10⁵Cycles(1800 Ops/h)			
	Mechani	cal c	lurability	≥2000 x 10⁴Cycles (18000 Ops/h)			
Pick-up voltage (23°C) (Rated voltage)			(Rated voltage)	≤80%			
Drop-out voltage (23°C) (Rated voltage)			(Rated voltage)	DC:≥10%, AC:≥30% 50/60Hz			
Maximum voltage (23°C) (Rated voltage)			) (Rated voltage)	110%			
nsulation resistance				≥100MΩ (500VDC)			
	ating now	or	DC(W)	approx. 1.5			
	ating pow		AC(VA)	approx. 2.7			
Operate	time			≤30ms			
Release	time (at n	omir	nal voltage)	≤20ms			
u iti al lana		Bet	ween open contacts	1000VAC/1min (leakage current 1mA)			
nitiai pre voltage	eakdown	Bet	ween poles	2500VAC/1min (leakage current 1mA)			
voltage		Bet	ween contacts and coil	2500VAC/1min (leakage current 1mA)			
nsulatio	า		Rated voltage	250VAC			
characte	ristics		Pollution level	3			
EC 6066	64 UL840	)	Overvoltage level	III			
mpulse v	vithstand v	olta	ge (waveform: 1.2/50us)	4000V			
Protectio	n level			IP50			
Storage	temperatu	ire/ ł	numidity	-55~+85°C/ ≤85%RH (18 months) ★			
Norking	temperatu	ure/	humidity	-25~+55°C/ 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 $\Omega$	23.7	96	430	1640	7360	29500	
Nominal voltage V.AC	6	12	24	36	48	115	230
Coil resistance $\Omega$	3.9	17	62.5	144	305	1250	5900

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

#### **Contact Specification**





### RUB

General Purpose Relay

Relay Kit Dimensions (mm)









#### **Wiring Diagrams**





COM NO ④ ⑤ : NC





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

RUB3C1



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

RUB3C2



①①:A1, A2 ⑤⑥⑦:COM ②③①:NO ④⑧⑨:NC

RUB3C5



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

### SUB08-E & SUB11-E

RUB Socket

# 

Characteristics						
	Туре			SUB08-E	SUB11-E	
	Nominal	Current	А	12		
	load	Voltage	V	300		
SUB08-E	Dielectric	strength	V/min	2500		
1000	Max. tighte	ening torque	Nm	1.0		
Ent 1	Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.5		
1000	Ambient te	emperature	°C	-40~+85		
No.	Unit weight		g	50	55	
	Relay, accessories Selection Table					
	Socket	Met	tal clip	ID tag	Module	
SUB11-E	SUB08-	E N	7			
Contract of	SUB11-E		<u>)</u>			
		SU	J60M	SU3P	BMD	

Dimensions (mm)



#### **Connection Diagrams**





### SUB08-A & SUB11-A

RUB Socket

# 



Туре			SUB08-A	SUB11-A
Nominal	Current	А	12	10
load	Voltage	V	300	
Dielectric	strength	V/min	2500	
Max. tightening torque		Nm	1.0	
Wire size		AWG/mm <sup>2</sup>	20-14/0.5-2.5	
Ambient temperature		°C	-40~+85	
Unit weight		g	37	50

SUB11-A



#### Dimensions (mm)



SUB08-A





9

8

#### **Connection Diagrams**



SUB08-A



3

SUB11-A

**RGF** Power Relav

- 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 □ □			Other o	o <mark>ptions</mark> LED (only for BU a	and BD type)	
1 and a start of the start of t				F: with	auxiliary module		
COON				S: with	40A/250VAC conta	ct load (for 2 pole only)	
				Coil vo	ltage code		
State of the state			<u>Co</u> Vol	de 006 Itage (V DC) 6	012 024 048 110 12 24 48 110	220	
TH. 22			Co	de 506	512 524 548 615	740 880 900	
			Vol	tage (VAC) 6	12 24 48 100-1	20 200-240 380 400	
				Termin	alarrangement		
				O: plug	in 		
KGFIDD				OD: plu OU: plu	ig in &DIN rail		
				P: PCB	ig in a nange		
				BU: scr	ew terminal& flar	nge	
10 h M M				BD: scr	ew terminal & DIN	N rail	
Store 1		Contact form					
				1: 1A (NO)			
Street and a stree	2: 2A (NO)						
a A Clar Hilling				Series	name		
DCEODU	Chavastavia	tica					
RGF2BU	Config	uration		10	24	2A-S	
		Resi	istance	30A 277VAC/30VDC	25A 277VAC/30VDC	2A-3 40A 250VAC/30VDC	
	Load	Moto	or load	1.5 HP, 120VAC;	3HP,240VAC		
- 20	Contact Max. s	witching c	apacity (resistive)	8310VA, 900W	6925VA,750W	10000VA,1200W	
	Initial c	nitial contact resistance		≤50mΩ			
			Configuration	1CO			
Manager -	Auxiliar	y module	Load (Resistive)	250VAC,3A			
			(resistive)	750VA			
and the second			Contact resistance	≤50mΩ			
	Materia	al		Ag alloy			
RGF2OD	Electric	cal durabil	ity	≥10 <sup>5</sup> Cycles (1800	Ops/h)	≥5x10 <sup>4</sup> Cycles (360 Ops/h)	
	Mecha	nical dura	bility	≥5000 x 10 <sup>4</sup> Cycl	es (1800 Ops/h)		
	Pick-up voltage (	23°C) (Ra	ted voltage)	DC:≤80% , AC:≤	80% 50/60Hz		
2	Drop-out voltage	(23°C) (Ra	ated voltage)	DC:≥15% , AC:≥	15% 50/60Hz		
		e (23 C) (R	aled vollage)	110%			
		DC	:(W)	approx. 0.9	50)		
	Coil operating po	ower AC	(VA)	approx. 2.5			
Strenker -	Operate time&Rel	ease time	(at nominal voltage)	≤30ms			
	la Mallare - Lete	Betwee	en open contacts	2000VAC/1min	(leakage current 1	ImA)	
ACHINE SCEA		Wn Between poles		2000VAC/1min (leakage current 1mA)			
	voltage	Betwee	en poles	2000VAC/1min	(leakage current 1	ImA)	
	voltage	Betwee	en poles en contacts and coil	2000VAC/1min 4000VAC/1min	(leakage current 1 (leakage current 1	lmA) lmA)	

Pollution level

Impulse withstand voltage (waveform: 1.2/50us)

Overvoltage level

characteristics

Protection level

IEC 60664 UL840

3

III

6000V

IP50

#### **RGF** Power Relay

Storage temperature/ humidity	-55~+85℃/ ≤85%RH (18 months)
Working temperature/ humidity	-25~+55°C/ 5%~85%RH (No condensation) ★
Air pressure	86~106KPa
Shock resistance	10G (half-sine shock pulse: 11ms)
Vibration resistance	10~55Hz double-amplitude:1.5mm
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 $\Omega$	18.9	75	303	1220	6360	25474		
Nominal voltage V.AC	6	12	24	48	100-120	200-240	380	400
Coil resistance $\Omega$	14	55	275	1100	5200	21000	62650	62650

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

#### **Contact Specification**









### RGF

Power Relay

#### **Dimensions (mm) & Wiring Diagrams**















#### **Wiring Diagrams**



## **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.



# CE

### **RSC** Series

RSC 🗆 🗆 D 🗆

Solid State Slim Relay



Relay



Socket

=



	(	06:3–60VDC 24:24–280VAC	
	I	L <mark>oad type</mark> D: DC A: AC	
	\$	Series	
Product performance	e		
Input parameter(Ta=25°C)			
Control voltage range		4~28VDC	
Must turn-on voltage		4VDC	
Must turn-off voltage		1VDC	
Control current range		6~20mA	
Output parameters(Ta=25%	C)		
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 curren	t (within 10ms)	30A	50A
Maximum off-state leakage	current (at rated voltage)	≤0.1mA	≤1.5mA
Maximum on-state voltage dr	op (at rated current)	≤0.1V	≤1.3V

**Switching Type** 

Load current

Blank: Zero voltage switching

2:2A (available for AC only) 3:3A (available for DC only)

**Control Voltage range** D: 4-28V DC switching Load voltage range

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

40~60%

#### **Relay Module**

#### Note:

1. When welding and installing the printed substrate, please complete the welding within 8 seconds at 260°C 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 0.5 N m.

Maximum on-state voltage drop (at rated current)

4.When the ambient temperature of the product is high, please refer to the temperature curve for derating.

### **RSC Series**

Solid State Slim Relay



Dimension(mm)



# °**₩**°° (€ EHE \₩ &

Characteristics							
	Model No	).	Input		Relay		
	SNC05-E-	A	12~24V		12~24VDC		
	SNC05-E-	В	48~60V		48~60VDC		
	SNC05-E-	с	110V		60VDC		
	SNC05-E-	D	230V		60VDC		
	Characterist	ics					
1	Nominal load	Current	1	A	8		
	Nominal load	Voltage	Voltage		300		
	Dielectric	Between coil and contact		V/n	nin 4000		
	strength	Between contacts			nin 2500		
Same to the	Max. tightening torque				n 0.5		
	Wire size				G/mm <sup>2</sup> 20-16/0.5-1.5		
A ARLA	Ambient temperature				-40~+85		
in the	Unit weight			g	24		
1	Relay, accessories Selection Table						
SNC05-E	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 stren	gth Input/output	V/min	2500
	Ambient tempe	erature	°C	-40~+85
Statister (SU's Chart	Unit weight		g	25
The second se				

#### 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



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







Relay

Draduct parforma	nco												
Product performa	nce												
Input parameter ( Ta=25	ΎC)												
Control voltage range							1~32V	DC					
Must ON voltage							4VD	С					
Must OFF voltage							1VD	С					
Control current range							6~201	тA					
Output parameters ( Ta=	25℃)												
Part No.		RSD	-1D06	ххD			RSD	-1D10	ххD		RSD	)-1D2(	)xxD
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				1		
Minimum load current(m	ıA)						≥2						
Maximum conduction ti	ne(ms)			1									
Maximum off time(ms)				1									
Other parameters ( Ta=2	5℃)												
Dialactric withstand walt	200 (50			Between Input and Output 25					2500Vrms				
Dielectric withstand voltage (50/60Hz)			Input/Output to base 2					2500V	rms				
Insulation resistance(@500VDC)			1000ΜΩ										
Operating temperature range				-30°C~+80°C									
Storage temperature range				-40°C∼+100°C									
Operating ambient humidity range				5~85%HR									
Cooling mode				Insta the te	ll the empe	heat : rature	sink a e exce	nd ad eds 6	d fan 0℃	force	ed coo	oling v	vhen
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)



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 °C, air cooling is needed to ensure that the temperature of the product bottom plate does not exceed 80 °C.

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





Part No.	WxLxH	Weight≈	Thermal resistance	
KSR-1A-50	50×80×50	70g	2.2°C/W	





Part No.	WxLxH	Weight≈	Thermal resistance	
KSR-1E-50	50×95×40	225g	1.8°C/W	





	Part No.	WxLxH	Weight≈	Thermal resistance
-	KSR-1T-50	50×100×97	324g	1.6°C/W
	KSR-1TF-76	76×100×97	580g	0.6°C/W

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



Part No.	WxLxH	Weight≈	Thermal resistance
KSR-1H-50	50×100×80	220g	1.8°C/W
KSR-1HF-76	76×100×80	480g	0.8°C/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.	WxLxH	Weight≈	Thermal resistance	
KSR-3E-50	105×95×40	460g	1.1℃/W	





Part No.	o. WxLxH Weight≈		Thermal resistance	
KSR-3T-110	110×100×97	750g	0.8°C/W	
KSR-3TF-136	136×100×97	1100g	0.35°C/W	

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





Part No.	WxLxH	Weight≈ Thermal resistance	
KSR-3H-110	110×100×80	460g	1°C/W
KSR-3H-150	150×100×80	630g	0.8°C/W
KSR-3HF-136	136×100×80	670g	0.5°C/W
KSR-3HF-176	176×100×80	840g	0.4°C/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.	WxLxH	Weight≈	Thermal resistance
KSR-3Y-110	110×126×136	1400g	0.5°C/W
KSR-3Y-150	150×126×136	1900g	0.4°C/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  $\ominus$  screwdriver to set time
- Meet IEC60947-5-1: 2016 (GB/T14048.5-2017)



# CE

# TKB

Timer Relay



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 tin	ne delay
	——— Terminal Tyoe	
	2: 2CO	
	4: 4CO	
	Series name	

Charact	eristics						
Configuratio	on	ТКВ2В		TKB2E	ТКВ4В	TKB4E	
Rated supply voltage		120VAC, 230VAC 50/60Hz; DC24V					
Operating vo	ltage range	Rated v	oltage 85-11	0% (90%-110% is DC1	2V)		
Power consu	mption	3.5W					
Max.output lo	ad	5A, 250 VAC (p.f.=1) 3A, 250 VAC (p.f.=1)					
vin. output lo	ad	10 mA, 17 VDC					
Repetitive eri	or	±2% (F\$	S max.)				
Setting error		±5% (F	S max.)				
/oltage error		±2% (F\$	S max.)				
Femperature error		±2% (F	S max.)				
Resetting time		Min.time: 0.2 sec					
nsulation 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					
/ibration	Destruction	10~55Hz with 0.75mm single amplitude each in 3directions for 2 hours each					
esistance Malfubction		10~55Hz with 0.5mm single amplitude each in 3 directions for 10 minutes each					
Shock Destruction		30G					
Malfubction		10G					
Storage temperature		-55~+85°C/ ≤85%RH (18 months) ★					
Ambient temperature		-10°C~55°C					
Ambient humidity		35~85%RH					
_ife	Mechanical	>107	(under no lo	ad, at 1,800 operations	s/hour)		
expectancy	Electrical	>10 <sup>5</sup>					
Neight		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



SKF08-E

SKF14-E

### **Accessory Series**



### **AMD Module**

Selection manual of industrial control relay

#### Socket accessories



#### Dimensions & Schemes (mm)



### **BMD Module**

Socket accessories



#### Dimensions & Schemes (mm)

10±0.3 3	5±0.3		r.	t.	ì	1	1
		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
	□ - - - - - - - - - - - - -	+0 A2 A1 AC/DC circuit + LED	A2 A1 AC/DC circuit + LED	+0 A2 A1 AC/DC circuit + LED	A2 A1 AC/DC circuit + LED	+ O A2 A1 DC Voltage peak suppression DC circuit+ LED	A2 A1 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
A2 A1 DC Voltage peak suppression DC circuit+ LED	A2 A1 DC Voltage peak suppression DC circuit+ LED	+ 0 0- A2 A1 DC Voltage peak suppression	A2 A1 DC Voltage peak suppression	+ A2 A1 AC/DC Circuit over- voltage protection	A2 A1 AC/DC Circuit over- voltage protection	A2 A1 AC/DC Circuit over- voltage protection	A2 A1 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
A2 A1 DC Voltage peak suppression	A2 A1 DC Voltage peak suppression	+ A2 A1 DC Voltage peak suppression	A2 A1 DC Voltage peak suppression	A2 A1	A2 A1	A2 A1 AC/DC Voltage peak suppression	A2 A1 AC/DC Voltage peak suppression

### Note

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