

5

Time Relay	1~9
Relay	10~16
Relay Sockets	17~22
Solid State Relay	23~25
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Time Relay

CLASSIFICATION		TIMER			MULTI RANGE TIMER					TIMER	
MODEL		3SH3-□			3SH3-□ □			3SH3-N□		3SST2P	
APPEARANCE											
DIMENSIONS		50H×40W×57.5D			50H×40W×57.5D			50H×40W×57.5D		50H×40W×57.5D	
MOUNTING & SOCKET	SURFACE(-N)	PF083A(E)			PF083A(E)			PF083A(E)		PF083A(E)	
	FLUSH(-Y)	US-08 P3G-08			US-08 P3G-08			US-08 P3G-08		US-08 P3G-08	
FULL TIMING RANGE		SEC:1,3,6,10,12,30,60 MIN:3,6,10,12,30,60 HR:3,6,10,12,30			A:1S,10S,1M,10M B:3S,30S,3M,30M C:6S,60S,6M,60M D:1M,10M,1H,10H E:3M,30M,3H,30H					SEC:1,3,6,10,12,30,60 MIN:3,6,10,12,30,60 HR:3,6,10,12,30	
RATED VOLTAGE		DC(V):12,24 AC(V):12,24,110,220,240,380, 50/60Hz								AC(V):12,24,110,220, 50/60Hz DC(V):12~24(50/60Hz)	
INDICATOR OPERATION		ON-UP Operation			ON-UP Operation			Time Operation flicker		ON-UP Operation	
O/P CONTACT	MODEL	3SH3-1	3SH3-2	3SH3-3	3SH3-1□	3SH3-2□	3SH3-3□	Mode A/B		3SST2P-E	
	TIME LIMIT 1C	5A		5A	5A		5A		5A		
	TIME LIMIT 2C		5A			5A		5A		5A	
	INSTANTANEOUS 1C			5A			5A		5A		
LIFE	MECHANICAL	5×10 ⁶ times			5×10 ⁶ times					5×10 ⁷ times	
	ELECTRICAL	10 ⁵ times			10 ⁵ times					10 ⁵ times	
ACCURACY	REPEAT ERROR	±1% max			±1% max					±2% max	
	SETTING ERROR	±10% max			±10% max					±5% max	
	VOLTAGE ERROR	±1% max			±1% max					±5% max	
	TEMP.ERROR	±2% max			±2% max					±2% max	
RESET TIME		0.1 sec max			0.1 sec max					0.5 sec max	
CONSUMED POWER		2VA			2VA					2VA	
AMBIENT TEMPERATURE		-10℃ ~+55℃			-10℃ ~+55℃					-10℃ ~+55℃	
AMBIENT HUMIDITY		48~85%RH			48~85%RH					35~85%RH	
WEIGHT		160g			160g					100g	

Time Relay

MULTI RANGE TIMER							
3SST3P		3SH3BA-□(ST4P-□)			3SH3CR-A8	3SH3CA-A	3SH3CA-8
							
55H×40.5W×57.5D		48H×48W×93.5D			48H×48W×81.6D	48H×48W×81.6D	48H×48W×81.6D
PF-083A(E)		PF113A(E)	P2CF08 PS-08		PS-08	PF113A(E)	PS-08 P2CF08
US-08 P3G-08		US-11	US-08 P3G-08		US-08 P3G-08	US-11	US-08 P3G-08
A:0.05-0.5s/5s/30s/3min B:0.1-10s/60s/6min C:0.5-5s/50s/5min/30min D:1-10s/100s/100min/60min E:5-60s/10s/60min/6h F:0.25-2min/20min/2h/12h G:0.5-4min/40min/4h/24h		0.5SEC~100HRS			0.5SEC~300HRS	0.1SEC~9990HRS	0.1SEC~9990HRS
AC(V):24~220 DC(V):24~110(50/60Hz)		24 to 240V DC/AC DC(V):12,24,48 AC(V):24,50,110,220			AC(V):110~240(50/60Hz) 12VDC,24VDC/AC (50/60Hz)24 to 240V DC/AC		
ON,UP Operation		Time Operation flicker			Time Operation flicker	LCD	LCD
3SST3PA	3SST3PC	3SH3BA	3SH3BA-8	3SH3BA-8H	3SH3CR-A8	3SH3CA-A	3SH3CA-8
	5A			5A		5A	
5A		5A	5A		5A(AC250)		5A
	5A			5A		5A	
5×10 ⁷ times		10 ⁵ times			10 ⁷ times		
10 ⁵ times		10 ⁵ times			10 ⁵ times		
±2% max		±2% max			±2% max		
±5% max		±5% max			±5% max		
±5% max		±5% max			±5% max		
±2% max		±2% max			±2% max		
0.5 sec max		0.5 sec max			0.5 sec max		
2VA		100~240VAC:10VA 12VDC,24~240VDC:1.5W					
-10℃~-+55℃		-10℃~-+55℃			-10℃~-+55℃		
35~85%RH		35~85%RH			35~85%RH		
100g		100g			100g	100g	100g

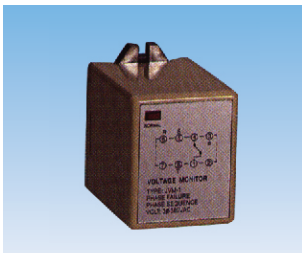
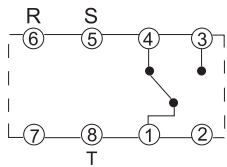
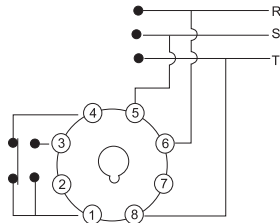
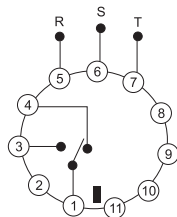
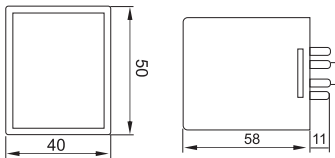
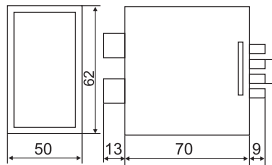
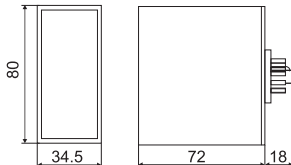
Time Relay

CLASSIFICATION		TIMER			TIMER		MULTI RANGE TIMER	
MODEL		3SSTP-N	3SSTP-Y	3SH2-N	3SH2-Y	3SH2-N/Y-□		
APPEARANCE								
DIMENSIONS		61H×49W×70D	88H×58W×68D	61H×49W×70D	88H×58W×68D	61H×49W×70D 88H×58W×68D		
MOUNTING & SOCKET	SURFACE(-N)	PF083A(E)PS-08		PF083A(E)PS-08		PF083A(E) PS-08		
	FLUSH(-Y)		US-08 P3G-08		US-08 P3G-08	US-08 P3G-08		
FULL TIMING RANGE		SEC:1,3,6,10,12,30,60 MIN:3,6,12,30,60 HR:3,6,12,24			SEC:1,3,6,12,30,60 MIN:3,6,12,30,60 HR:3,6,12,24		A:1S,10S,1M,10M B:3S,30S,3M,30M C:6S,60S,6M,60M D:1M,10M,1H,10H E:3M,30M,3H,30H	
RATED VOLTAGE		DC(V):12,24 AC(V):12,24,110,220,240, 50/60Hz			DC(V):12,24 AC(V):12,24,110,220,240, 50/60Hz			
INDICATOR OPERATION		Time Operation			ON-UP Two indicator Lamps			
O/P CONTACT	MODEL	3SSTP-N1/ 3SSTP-Y1	3SSTP-N2/ 3SSTP-Y2	3SSTP-N/ 3SSTP-Y	3SH2-N1/ 3SH2-Y1	3SH2-N2/ 3SH2-Y2	3SH2-N/ 3SH2-Y	3SH2-N-□/ 3SH2-Y-□
	TIME LIMIT 1C	5A		5A	5A		5A	5A
	TIME LIMIT 2C		5A			5A		5A
	INSTANTANEOUS1C			5A			5A	5A
LIFE	MECHANICAL	5 × 10 ⁶ times			5 × 10 ⁶ times			
	ELECTRICAL	10 ⁵ times			10 ⁵ times			
ACCURACY	REPEAT ERROR	± 1% max			± 1% max			
	SETTING ERROR	±10% max			±10% max			
	VOLTAGE ERROR	±1% max			±1% max			
	TEMP.ERROR	±2% max			±2% max			
RESET TIME		0.1 sec max			0.1 sec max			
CONSUMED POWER		2VA			3VA			
AMBIENT TEMPERATURE		-10℃ ~+55℃			-10℃ ~+55℃			
AMBIENT HUMIDITY		48~85%RH			48~85%RH			
WEIGHT		220g			220g			

Time Relay

TWIN TIMER		DIGITAL TIMER		TIMER	
3STDV-N	3STDV-Y	3SSY-2D	3SSY-3D	3SH3Y-□(ST6P)	
					
61H×49W×70D	88H×58W×68D	88H×58W×68D	88H×58W×68D	28H×21W×52.6D	
PF083A PS-08				PYF08A(E)	PYF14A(E)
US-08 P3G-08		US-08 P3G-08		With Y-20 adapter	
6S×6S,6S×60S,60S×6S, 60S×60S,6M×6M 6M×60M,60M×6M, 60M×60M, Longest time 12hours upon clients' request		SEC:9.9,99 MIN:9.9,99 HR:9.9,99	SEC:9.99,99.9,999 MIN:99.9,999 HR:99.9,999	SEC:1,3,5,10,30,60,120 MIN:3,5,10,30,60 HR:3	
DC(V):12,24 AC(V):12,24,110,220,240 50/60Hz	DC(V):12,24 AC(V):12,24,110,220,240 50/60Hz	DC(V):12,24 AC(V):12,24,110,220,240, 50/60Hz		DC(V):12,24 AC(V):12,24,110,220,240 50/60Hz	
ON,OFF Operation	ON,OFF Operation	After contact transfer		Power, up Operation	
3STDV-N	3STDV-Y	3SSY-2D	3SSY-3D	3SH3Y-2	3SH3Y-4
5A	5A				
		5A	5A	5A	3A(4C)
5×10 ⁶ times	5×10 ⁶ times	5×10 ⁶ times		5×10 ⁶ times	
10 ⁵ times	10 ⁵ times	10 ⁵ times		10 ⁵ times	
±1% max	±2% max	±0.05% max		±3% max	
±10% max	±20% max	0		--	
±1% max	±1% max	±0.05 sec		±2% max	
±2% max	±2% max	±0.05 sec		±5% max	
0.2 sec max	0.2 sec max	0.3 sec max		0.2 sec max	
2VA	2VA	3VA		3VA	
-10℃~+55℃	-10℃~+55℃	-10℃~+55℃		-10℃~+55℃	
48~85%RH	48~85%RH	48~85%RH		48~85%RH	
160g	210g	230g		45g	

Time Relay

TYPE	3SJVM-1	3SJVM-2	3SJVM-3
			
Voltage	AC380V 415V 50/60Hz	AC380V 415V 3 φ	AC380V 415V
Contact		1PDT	1SPDT
Operating Temperature	-10 °C to 55°C	Over/under voltage change-over	-10°C to 70°C
Ambient humidity	48to 85%RH		
Circuit Diagram		Circuit Diagram 	
External dimension(mm)			

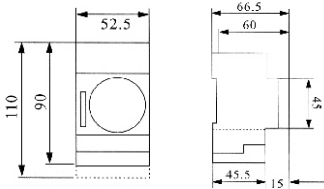
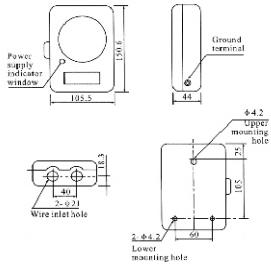
Time Relay

CLASSIFICATION		TIMER	
MODEL		3SHC8	3SST8A
APPEARANCE			
DIMENSIONS(mm)		48×48×96	48×48×88
FULL TIMING RANGE		Per week or per day cycle	0.01S~99H99M
RATED VOLTAGE		AC 220V 50HZ 85%~110%	AC220V. 110V. 24V. 12V DC 24V. 12V
CONTACT CAPACITY		16AAC250V	3AAC250V COS φ
CONTACT FORM		1NO	---
ACCURACY		≤2S/DAY(25℃)	≤0.525℃+0.05s
EXPECTANCY DISPLAY		LCD	LCD
MOUNTING HOLES		45×45mm	45.5×45mm
MOUNTING FORM		Front-panel,DIN RAIL	Front-panel,DIN RAIL
LIFE	ELECTRICAL	≥10 ⁵ times	≥10 ⁵ times
	MECHANICAL	≤10 ⁷ times	≤51×06times
OPERATING TEMPERATURE		-20℃~+50℃	-5℃~+50℃
PROGRAMMABLE		8 time/week or day	---
MEMORY BACKUP		15DAY	---

Time Relay

CLASSIFICATION		TIMER		
MODEL		3SST8B	3SST8C	3SST8D
APPEARANCE				
DIMENSIONS(mm)		72×72×121	96×48×121	48×96×121
FULL TIMING RANGE		0.01S~99H99M		
RATED VOLTAGE		AC220V. 110V. 24V. 12V DC 24V. 12V		
CONTACT CAPACITY		3AAC250V COS ϕ		
CONTACT FORM		---	---	---
ACCURACY		$\geq 0.5\% + 0.05S$		
EXPECTANCY DISPLAY		LED	LED	LED
MOUNTING HOLES		68×68mm	91×43mm	43×91mm
MOUNTING FORM		Front-panel,DIN RAIL	Front-panel,DIN RAIL	Front-panel,DIN RAIL
LIFE	ELECTRICAL	$\geq 10^5$ tims		
	MECHANICAL	$\leq 5 \times 10^6$ tims		
OPERATING TEMPERATURE		-5℃~+50℃		
PROGRAMMABLE		---	---	---
MEMORY BACKUP		---	---	---

Time Relay

CLASSIFICATION		TIMER	
MODEL		3SYN16lh	3STB-38
APPEARANCE			
CONTACT CAPACITY		AC220V 16A	AC220V 10A
FULL TIMING RANGE		24h	24h
CONTACT RESISTANCE		$\leq 50\text{m}\Omega$	$\geq 50\text{m}\Omega$
INSULATION RESISTANCE		$\geq 100\text{M}\Omega$	$\leq 100\text{M}\Omega$
COIL VOLTAGE		110,230V AC	110,230,240V AC
LIFE	ELECTRICAL	10^5 times	10^5 times
	MECHANICAL	10^7 times	10^7 times
OPERATING TEMPERATURE		$-40^{\circ}\text{C} \sim +55^{\circ}\text{C}$	$-40^{\circ}\text{C} \sim +55^{\circ}\text{C}$
DIMENSIONS(mm)			
BATTERY (WORKING RESERVE)		Without Battery	Without Battery
MINIMUM SETTING UNIT		30Minutes	15Minutes
SET UP TIMES		30m/per times 48 times	15 m/per times 96 times
REMARKS		----	TB-38B With battery reserve 150h

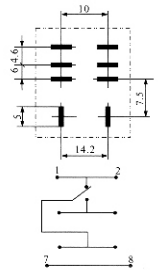
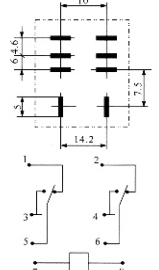
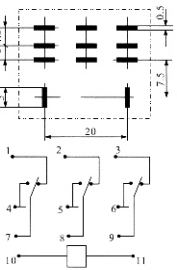
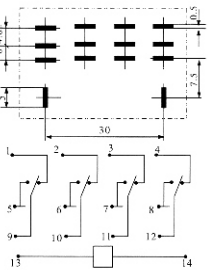
Time Relay

CLASSIFICATION		WEEKLY PROGRAMMABLE TIMER		
MODEL		3SHC8A	3SHC8	3SUL18lh
APPEARANCE				
DIMENSIONS(mm)		100×50×66	48×48×96	111×52.5×66.5
FULL TIMING RANGE		Per week or per day cycle		24h
RATED VOLTAGE		AC 220V 50HZ 85%~110%		COIL VOLTAGE 110,230V AC
CONTACT CAPACITY		16AAC250V		AC220V 16A
CONTACT FORM		1NO, 1NC/1NO	1NO	---
ACCURACY		≤2S/DAY(25℃)		---
EXPECTANCY DISPLAY		LCD		---
MOUNTING HOLES		---	45×45mm	---
MOUNTING FORM		Front-panel,DIN RAIL	Front-panel,DIN RAIL	SET UP TIMES 30m/per time 48 times
LIFE	ELECTRICAL	≥ 10 ⁵ times		≥ 10 ⁵ times
	MECHANICAL	≤10 ⁷ times		≤10 ⁷ times
OPERATING TEMPERATURE		-20℃~+50℃		-40℃~+55℃
PROGRAMMABLE		8 time/week or day		MINIMUM SETTING UNIT 30Minutes
MEMORY BACKUP		15DAY		BATTERY (WORKING RESERVE) Time 150h

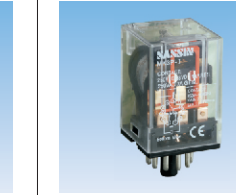
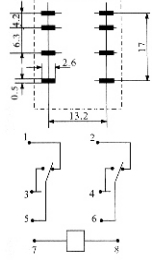
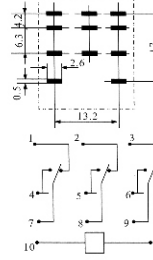
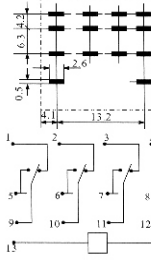
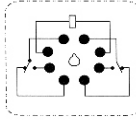
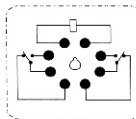
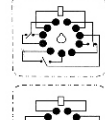
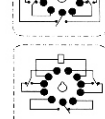
Relay

CLASSIFICATION		FLOATLESS LEVEL SWITCH RELAY		
MODEL		3SFR-1	PM61F-GR	3SFS-GR
APPEARANCE				
DIMENSIONS(mm)		61H×49W×70D	50H×40W×58D	50H×40W×58D
SOCKET TYPE		PS-08 PF-083A(E)	PF085A PF083A(E)	PF085A PF083A(E)
SENS-ING MODE	GENERAL	3SFR-1	--	--
	HIGH SENSING	3SFR-1H	--	--
	LONG DISTANCE	3SFR-1L	--	--
	LOW DENSITY	3SFR-1D	--	--
	TWO LINES	3SFR-1R	PM61F-GR	3SAFS-GR
RATED VOLTAGE		AC: 110V, 220V, 240V, 50/60Hz		
INDICATOR OPERATION		Two LED's for two status		
OPERATING VOLTAGE		85~110% of rated voltage		
SECOND VOLTAGE		8VAC (except high sensing 24VAC)		
OPERATING RESISTANCE		4K Ω min. (GENERAL)		
RELEASE RESISTANCE		15K Ω min. (GENERAL)		
RESPONSE TIME		Operate: 80msec max, Release: 160 msec max.		
CONTACT RATING		5A, 250VAC (RESISTIVE LOAD)		
LENGTH OF CABLE		1K mmax. (GENERAL)		
LIFE	MECHANICAL	5×10 ⁶ times min		
	ELECTRICAL	10 ⁵ times min		
INSULATION RESISTANCE		100MΩ(DC 500V) min		
DIELECTRIC STRENGTH		1500VAC, 50/60Hz, for 1 minute		
CONSUMED POWER		3.2VA		
AMBIENT TEMPERATURE		-10℃~+55℃		
AMBIENT HUMIDITY		45~85% RH		
WEIGHT		200g	150g	150g

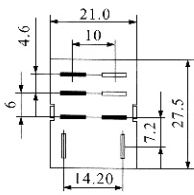
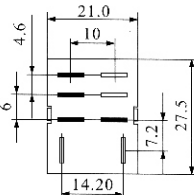
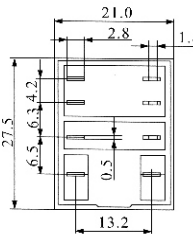
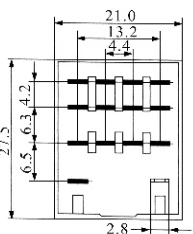
Relay

CLASSIFICATION		ELECTROMAGNETIC RELAY SERIES			
MODEL		3SJ4L1,-S,-N,-F,-O	3SJ4L2,-S,-N,-F,-O	3SJ4L3,-S,-N,-F,-O	3SJ4L4,-S,-N,-F,-O
APPEARANCE					
DIMENSIONS(mm)		27.5×21.5×35	27.5×21.5×35	27.5×31×35	27.5×41×35
CONTACT FORM		1Z	2Z	3Z	4Z
CONTACT CAPACITY		10A 250VAC			
COIL	DC	6~220V			
VOLTAGE	AC	6~380V			
COIL POWER		DC:≤0.9W AC:≥1.2VA			
PICK-UP		DC:≥75% AC:≥80%			
DROP-OUT		DC:≥10% AC:≥30%			
CONTACT RESISTANCE		≥50m Ω			
INSULATION RESISTANCE		≥100MΩ			
LIFE	ELECTRICAL	10 ⁵ times			
	MECHANICAL	10 ⁷ times			
DIELECTRIC STRENGTH	BETWEEN OPEN CONTACTS	1000v rms			
	BETWEEN COIL & CONTACTS	1500v rms			
MOUNTING FORM		P.C.B & Socket  			
OPERATING TEMPERATURE		-40℃~+55℃			
WEIGHT		About 35g	About 35g	About 53g	About 70g
MOUNTING HOLES & BOTTOM VIEW					
LIKE PRODUCTS		HH61P	HH62P	HH63P	HH64P
MATCHED SOCKET		PTF08A PTF08A-E PT08	PTF08A PTF08A-E PT08	PT11 PTF11A	PTF14A PTF14A-E PT14
REMARKS		With lamp:-N, FLANGE:-F, With button:-S, PCB:-O			

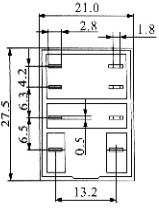
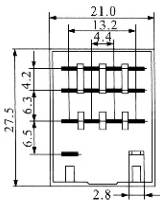
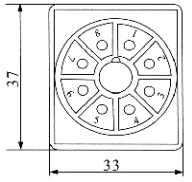
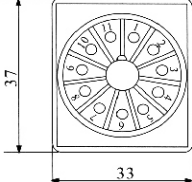
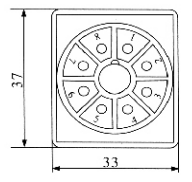
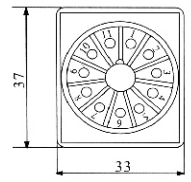
Relay

ELECTROMAGNETIC RELAY SERIES				
3SJ4M-2,-S,-N-F,-O	3SJ4M-3,-S,-N-F,-O	3SJ4M-4,-S,-N-F,-O	3SJ5-2P-1,-S,-N	3SJ5-3P-1,-S,-N
				
27.5×21.5×35	27.5×21.5×35	27.5×21.5×35	34.5×34.5×52	34.5×34.5×52
2Z	3Z	4Z	2Z	3Z
5A 250V AC	5A 250V AC	3A 250V AC	10A 250V AC,DC28V	
6~220V			6~220V	
6~380V			6~380V	
DC:≤0.9W AC:≥1.2VA			DC:≤0.9W AC:≥1.2VA	
DC:≥75% AC:≥80%			DC:≥75% AC:≥80%	
DC:≥10% AC:≥30%			DC:≥10% AC:≥30%	
≤50mΩ			≤50mΩ	
≤100MΩ			≤100MΩ	
10 ⁵ times			10 ⁵ times	
10 ⁷ times			10 ⁷ times	
1000v rms			1000v rms	
1500v rms			1500v rms	
P.C.B & Socket 			Socket 	
-40℃~+55℃			-40℃~+55℃	
About 35g	About 35g	About 35g	About 85g	About 85g
			 Model Q  Model T	 Model Q  Model T
L10KH2 HH52P 4104	L10KH2 HH53P 4104	L10KH2 HH54P 4104	H,K FRM5	H,K FRM5
PYF08A PYF08A-E PY08	PYF11A PYF11A-E PY11	PYF14A PYF14A-E PY14	PF083A PF083A-E US-08	PF113A PF113A-E US-11
With lamp:-N,FLANGE:-F, With button:-S,PCB:-O			With lamp:-N, With button:-S	

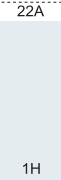
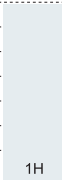
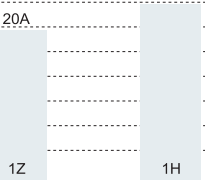
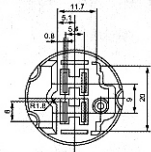
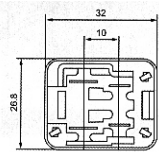
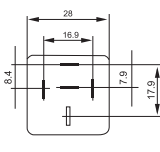
Relay

CLASSIFICATION		ELECTROMAGNETIC RELAY SERIES			
MODEL		3S58.02	3S56.02	3S55.02	3S55.04
APPEARANCE					
DIMENSIONS(mm)		27.5×21×36	27.5×21×36	27.5×21×34	27.5×21×34
CONTACT FORM		2Z	2Z	2Z	4Z
CONTACT CAPACITY		10A 220VAC		5A 250V AC	
COIL VOLTAGE	DC	6V~220V		6~220V	
	AC	6V~380V		6~380V	
COIL POWER		DC: ≤ 2W AC: ≥ 3.5VA		DC: ≤ 0.9W AC: ≥ 1.2VA	
PICK-UP		DC: ≥ 75% AC: ≥ 80%		DC: ≥ 75% AC: ≥ 80%	
DROP-OUT		DC: ≥ 10% AC: ≥ 30%		DC: ≥ 10% AC: ≥ 30%	
CONTACT RESISTANCE		≥50mΩ		≥□□□Ω	≥50mΩ
INSULATION RESISTANCE		≥100MΩ		≤□□□□Ω	≤500MΩ
LIFE	ELECTRICAL	10 ⁵ times		□□ ⁵ □□□	10 ⁵ times
	MECHANICAL	10 ⁷ times		□□ ⁷ □□□	10 ⁷ times
DIELECTRIC STRENGTH	BETWEEN OPEN CONTACTS	1500v rms		□□□□□□□	1500v rms
	BETWEEN COIL & CONTACTS	1500v rms		□□□□□□□	1500v rms
MOUNTING FORM		Socket		□□□□□□	Socket
OPERATING TEMPERATURE		-40℃~+55℃		□□□℃ □□□□℃	-40℃~+60℃
WEIGHT		About 35g	About 35g	□□□□□□□	About 35g
MOUNTING HOLES & BOTTOM VIEW					
LIKE PRODUCTS		HH62P LY2	HH62P LY2	HH52P MY2	HH54P MY4
MATCHED SOCKET		PTT08A PTT08A-E PT08 PT08-0	PTF08A PTF08A-E PT08 PT08-0	PYF08A PYF08A-E PY08 PY08-0	PYF14A PYF14A-E PY14 PY14-0

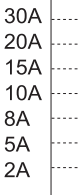
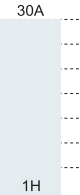
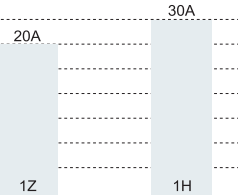
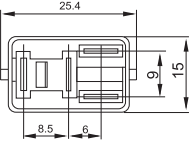
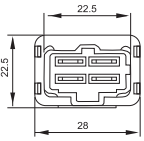
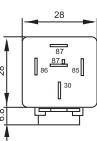
Relay

ELECTROMAGNETIC RELAY SERIES					
3S57.02	3S57.04	3S12(60.2)	3S13(60.3)	3S70.2	3S70.3
					
27.5×21×34	27.5×21×34	37×33×54	37×33×53	37×33×59	37×33×59
2Z	4Z	2Z	3Z	2Z	3Z
5A 250V AC		10A		10A	
6~220V		12V, 24V, 48V, 60V, 110V		12V, 24V, 48V, 60V, 110V	
6~380V		12V, 24V, 48V, 60V, 110V, 220V, 240V		12V, 24V, 48V, 60V, 110V, 220V, 240V	
DC: ≤0.9W AC: ≥1.2VA		2.2VA(AC) 1.3W(DC)		2.2VA(AC) 1.3W(DC)	
DC: ≥ 75% AC: ≥ 80%		DC: ≥75% AC: ≥80%		DC: ≥75% AC: ≥80%	
DC: ≥ 10% AC: ≥ 30%		DC: ≤10% AC: ≤30%		DC: ≤10% AC: ≤30%	
≥□□□Ω	≥□□□Ω	≥50mΩ		≥50mΩ	
≤□□□□Ω	≤□□□□Ω	≤100MΩ		≤100MΩ	
□□ ⁵ □□	□□ ⁵ □□	10 [□] times		10 [□] times	
□□ ⁷ □□	□□ ⁷ □□	10 [□] times		10 [□] times	
□□□□□□□	□□□□□□□	1000v rms		1000v rms	
□□□□□□□	□□□□□□□	1500v rms		1500v rms	
□□□□□□	□□□□□□	Socket		Socket	
□□□°C □□□□	□□□°C □□□□°C	-40℃ ~ +55℃		-40℃ ~ +55℃	
□□□□□□□□	□□□□□□□□	About 85g		About 85g	
					
HH52P MY2	HH54P MY4	60.12	60.13	60.12	60.13
PYF08A PYF08A-E PY08 PY08-0	PYF14A PYF14A-E PY14 PY14-0	90.22	90.23	90.22	90.23

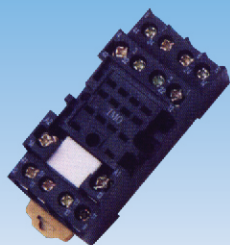
Relay

CLASSIFICATION		Automotive Relays		
MODEL		3SAS401	3SAS402	3SAS403
APPEARANCE				
Outline L×W×H(mm)		Φ28.5×49	32×26.5×32.4	28×18×25
Features		• The voltage endurance is 2.5KV • between contact and coil • Suitable for control kinds of circuits • Excellent shake resistance performance • With couple socket	• 40A contact change-over capacity • The voltage endurance is 2.5KV • between contact and coil • Suitable for control kinds of circuits • Excellent shake resistance performance • With couple socket	• Outlet terminal of swift connection type • Suitable for control of kinds of circuits • Excellent shake resistance performance • With couple socket
Contact Ratings				
Contact Form		1H	1H	1Z,1H
Material		AgCdO	AgCdO	AgCdO
Max.Operating Current				
Max.Operating Voltage		250VAC/30VDC	250VAC/30VDC	250VAC/30VDC
Max.Operating Power		5500VA/660W	7500VA/900W	500VA/600W
Rated Load(Resistive load)		22A 250VAC/30VDC	22A 250VAC/30VDC	1Z 20A 250VAC/30VDC 1H 30A 250VAC/30VDC
Coil Ratings				
Rated Voltage		3~60VDC	3~60VDC	3~60VDC
Nominal Operating power		1.8W	1.8W	1.6W
Specification				
Insulation Resistance		100M Ω	100M Ω	100M Ω
Dielectric Strength (Between coil and contact)		500VAC	500VAC	500VAC
Ambient Temperature		-40℃~+70℃	-40℃~+70℃	-40℃~+70℃
Operate/Release Time		15ms/10ms	15ms/10ms	15ms/10ms
(min)Mechanical life(Min)		1×10 ⁷	1×10 ⁷	1×10 ⁷
(min)Electrical life(Min)		1×10 ⁵	1×10 ⁵	1×10 ⁵
Layout(Bottom view)				
Terminal Type		Socket	Socket	Socket
Approved Standards		CCC CE	CCC CE	CCC CE
Cross-Reference				Asiaon:JD 1929

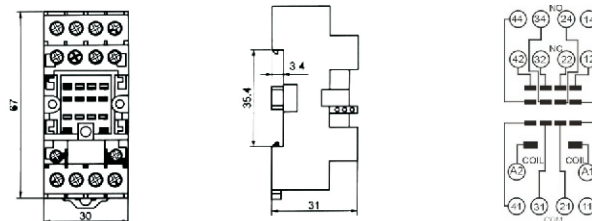
Relay

CLASSIFICATION	Automotive Relays		
MODEL	AS404(CM6311)	3SAS405(CM6321)	3SAS406(CM6331)
APPEARANCE			
Outline L×W×H(mm)	27.5×15×22.5	28×24×25.8	28×28×25.3
Features	• Serve as control of kinds of circuits • at auto • Excellent shake resistance performance • With couple socket	• Serve as control of kinds of circuits • at auto • Excellent shake resistance performance • With couple socket	• Serve as control of kinds of circuits • at auto • Excellent shake resistance performance • With couple socket
Contact Ratings			
Contact Form	1H	1H	1Z,1H
Material	AgCdO	AgCdO	AgCdO
Max.Operating Current			
Max.Operating Voltage	250VAC/30VDC	277VAC/28VDC	250VAC/28VDC
Max.Operating Power	5000VA/660W	8310VA/840W	7,500VA/840W
Rated Load(Resistive load)	20A 250VAC/30VDC	30A 250VAC/30VDC	1Z 20A 250VAC/30VDC 1H 30A 250VAC/30VDC
Coil Ratings			
Rated Voltage	3~60VDC	3~60VDC	3~60VDC
Nominal Operating power	1.6W	1.6W	1.6W
Specification			
Insulation Resistance	100M Ω	100M Ω	100M Ω
Dielectric Strength (Between coil and contact)	500VAC	500VAC	500VAC
Ambient Temperature	-40℃~+70℃	-40℃~+70℃	-40℃~+70℃
Operate/Release Time	15ms/10ms	15ms/10ms	15ms/10ms
(min)Mechanical life(Min)	1×10 ⁷	1×10 ⁷	1×10 ⁷
(min)Electrical life(Min)	1×10 ⁵	1×10 ⁵	1×10 ⁵
Layout(Bottom view)			
Terminal Type	Socket	Socket	Socket
Approved Standards	CCC CE	CCC CE	CCC CE
Cross-Reference	Asiaon:6311	Asiaon:6321	Asiaon:J6331

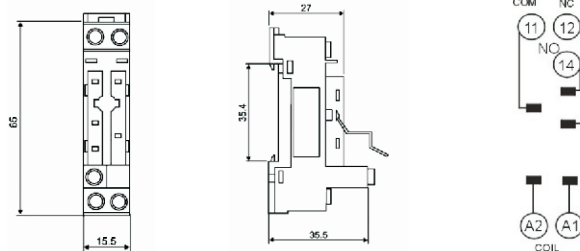
Relay Sockets



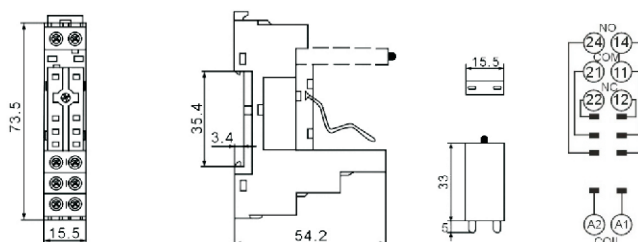
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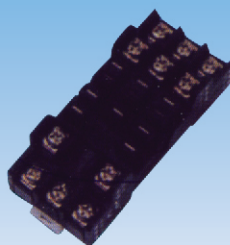
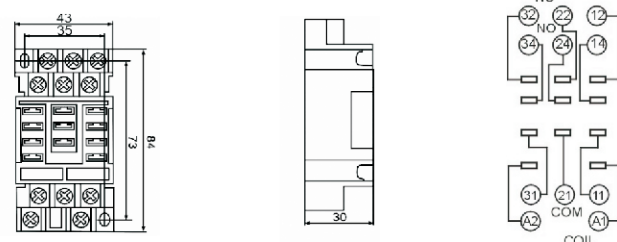
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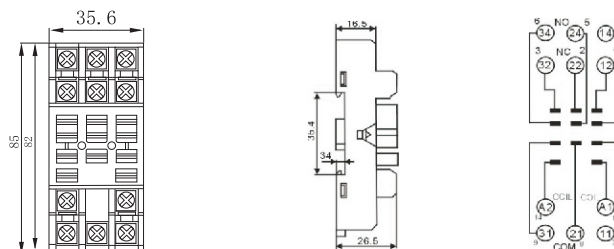
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3SPT38F-11A



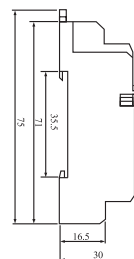
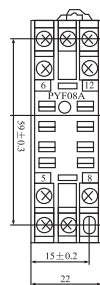
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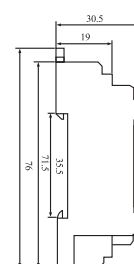
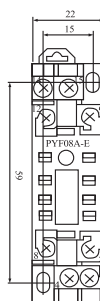
Relay Sockets



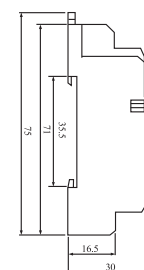
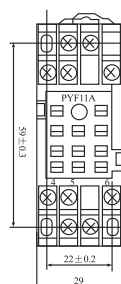
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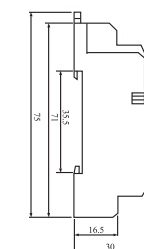
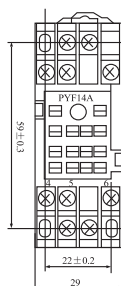
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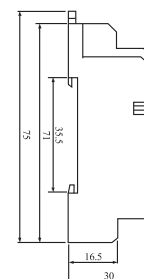
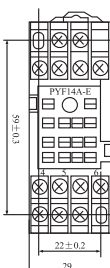
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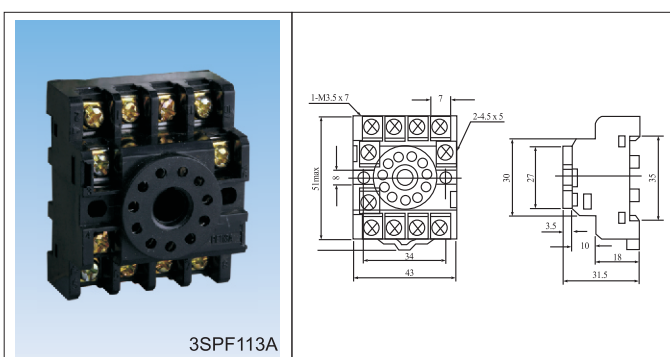
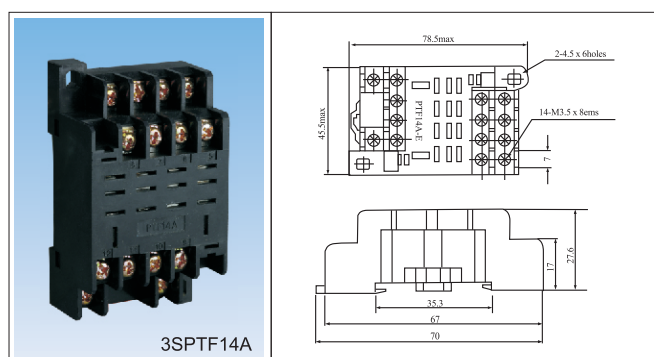
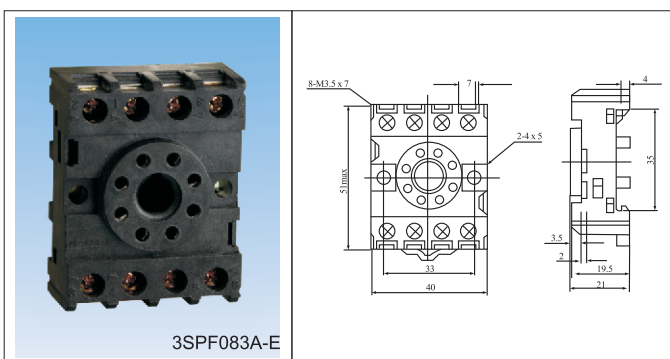
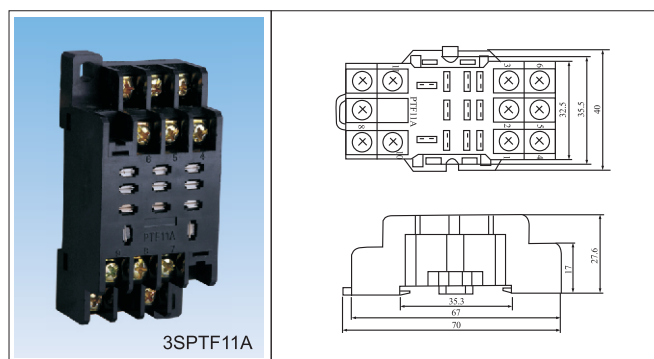
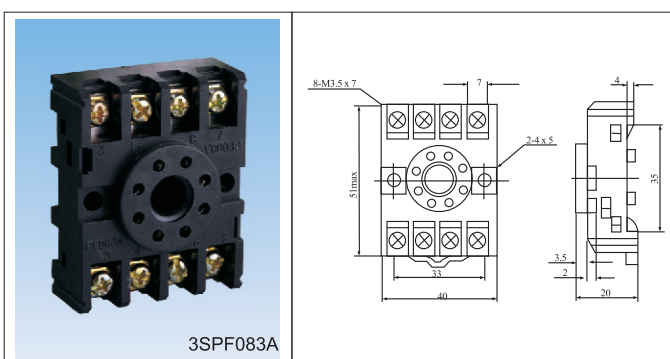
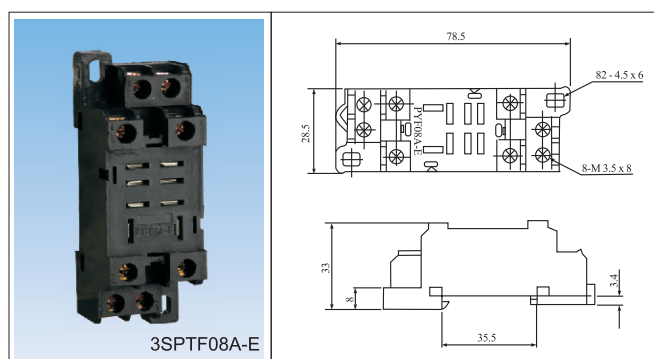
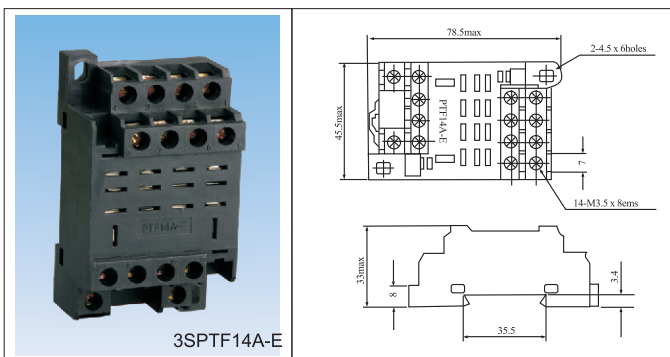
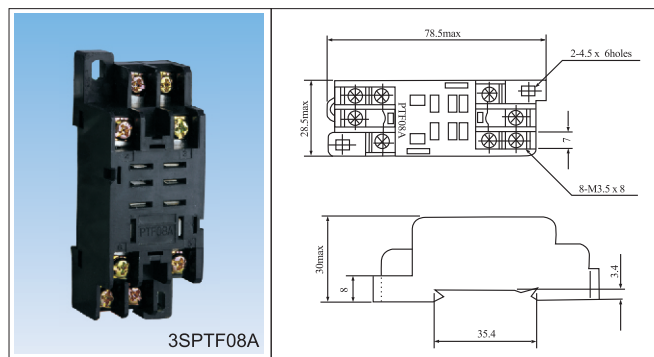
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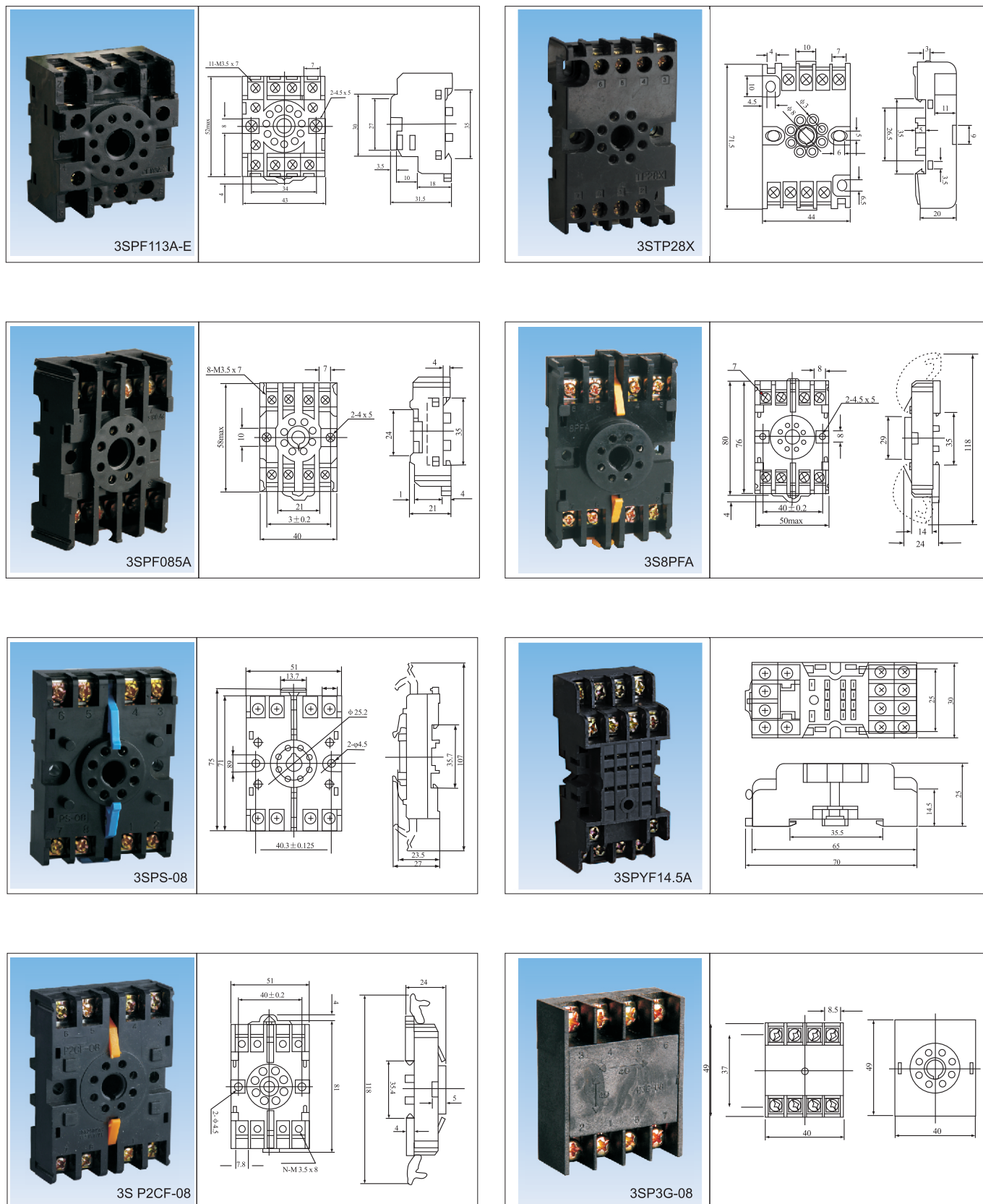
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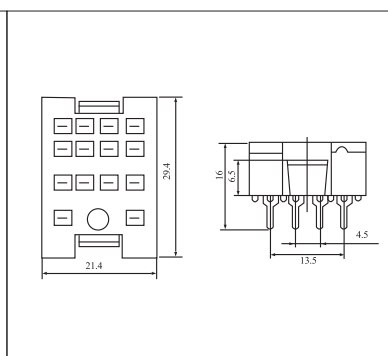
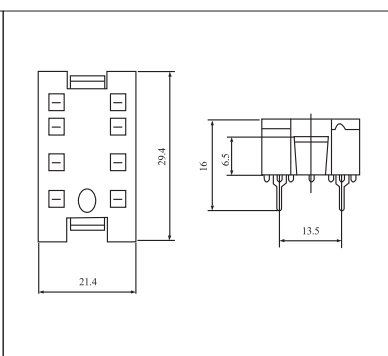
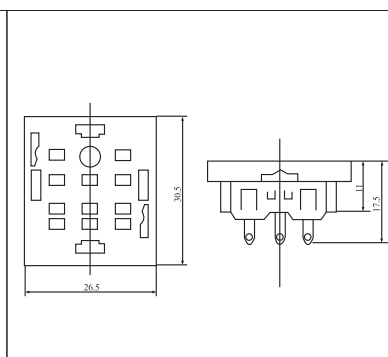
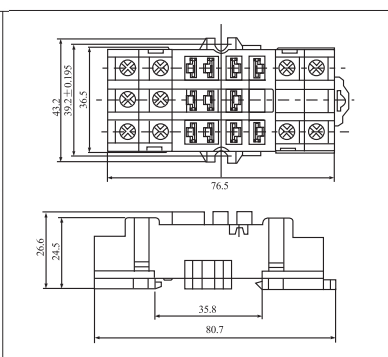
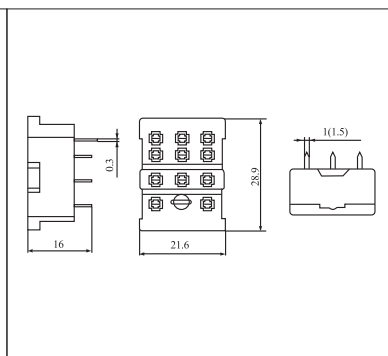
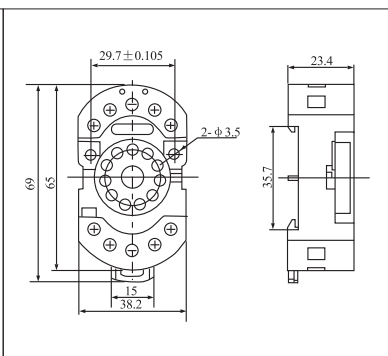
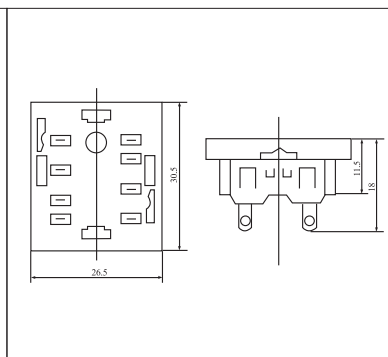
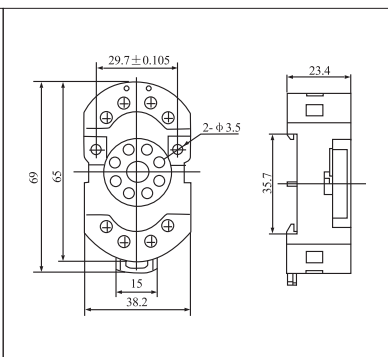
Relay Sockets



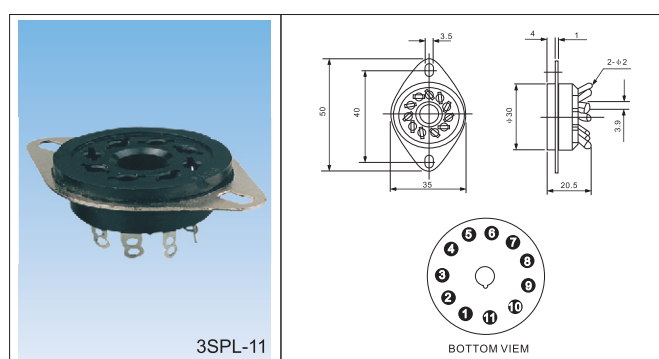
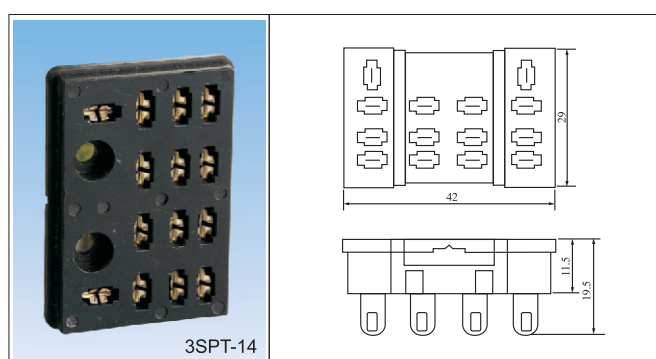
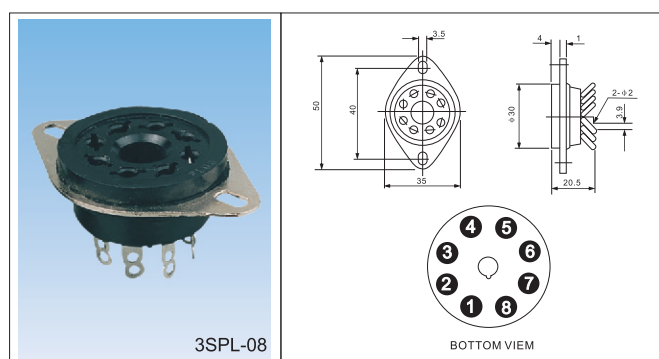
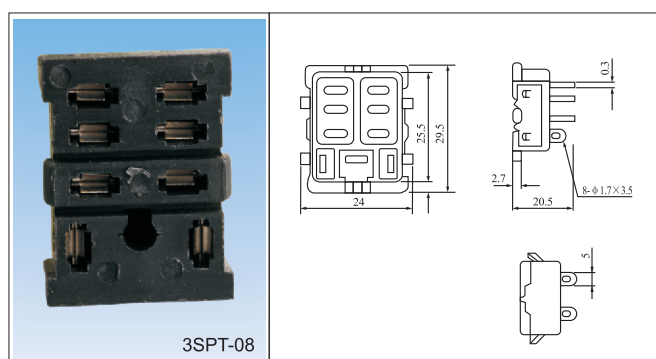
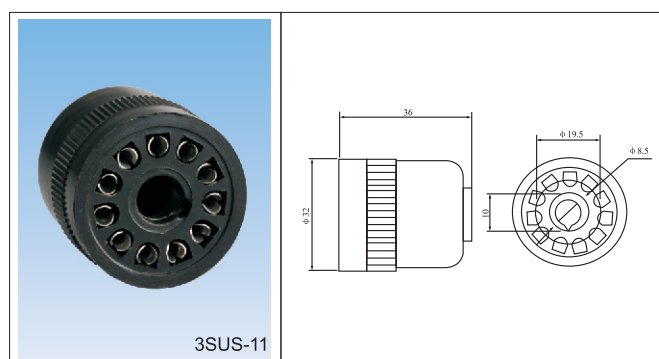
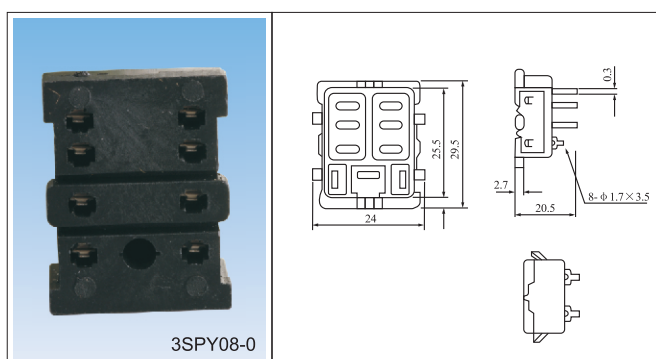
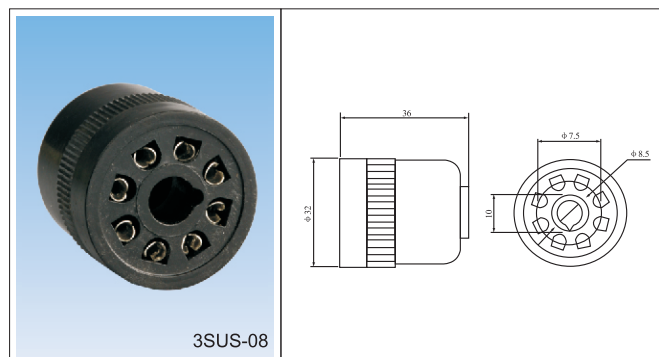
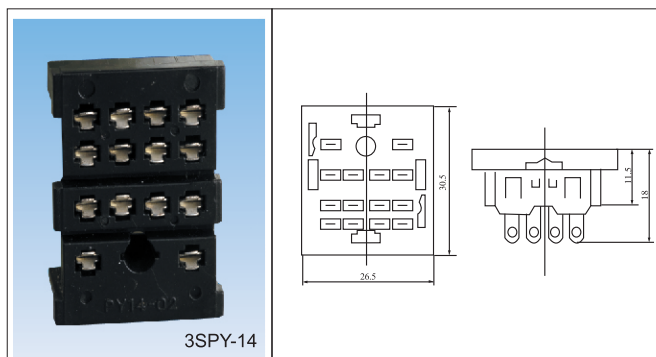
Relay Sockets



Relay Sockets



Relay Sockets



Solid State Relay

■ Application

Solid State Relay is abbreviated as "SSR" Brand ZG3 series product made by our factory is the latest non-contact electronic switch device with good ON-OFF performance. Its input end only requires tinny control current and can be compatible with integrated circuit of TT land CMOS, etc. The output return circuit adopts two way controlled silicon or big power transistor to cut off the loading current. The photoelectric coupler is adopted between the input and output.

Because solid state relay is a non-contact switch element made up of solid state elements. Comparing with electromagnetic relay, it is more reliable. It has series advantages, such as long service life, little disturbance to surrounding and strong anti-interference performance, etc. It is applide in wide fields. And it tends to substitute the traditional electromagnetic relay and further expands to the fields which traditional electromagnetic relay is not applicable for, like input/output interface of computer and program control, electric stove heating constant temperature equipment, digital control machine, remote control system, industrial automatic device, signal lamp, traffic lamp, stage lighting control equipment, instrument and meter, medical equipment, duplicator, color enlarger, and rubber plastic machine, etc. In some special devices which require damp-proof, fireproof anti-corrosion, and within bad working environment, SSR has incomparable superiority in comparison with tradition electromagnetic relay, It is an ideal product to substitute the older generation of the products in relay family(EMR).

Application installtion for reference	
Color enlarger, developing & printing equipment, injection machine and airconditioning temp control.	Computer embroidering machine, bank note counter and post sorting machine
All kinds of packing machines	Mine explosion-proof and damp of and damp-proof electric equipment
Digital control and power control of all kinds of machine tools	Neon lamp, stage light automatic control system
Drive of all kinds of motors (reversible turn control)	Radio specific equipment, refrigerator and full automatic washing machine
Automatic instrument meter	Power port of computer
Industrial automation control; industry photograph and stove cellar automation	Automatic office machine
AC motor control	Intermediate relay and electromagnetic value control
Copier	Signal light, transport lamp, flasher
Digital control machine, remoter control system	Industrial automation equipment

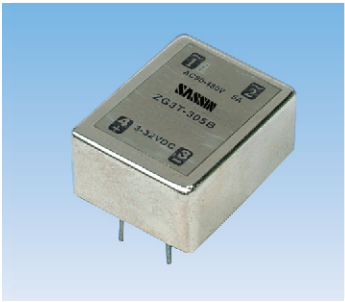
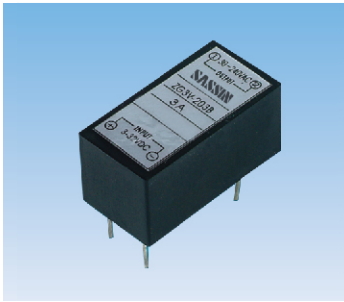
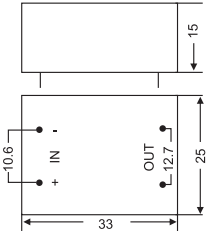
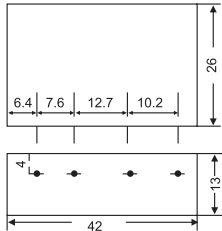
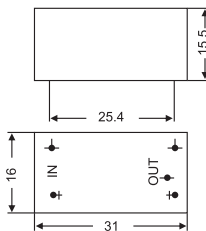
■ Cautions while using

1.Over-current and loading short circuit result in SSR permanent damage. Quick fuse is one of the over - current protection methods. Small capacity may also adopt fuse, Over-voltage protection adopts parallel connection metal oxide varistor (MOV)as well as RC absorbing return inside SSR. The area size of MOV determines the absorbing power. The thickness of MOV determines protective voltage value. Generally, 220V series SSR may choose varistor of 500-630 VDC 380V series SSR may choose varistor of 700-900VDC.

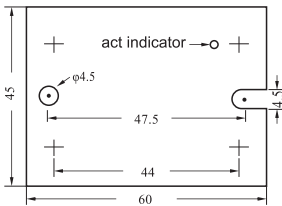
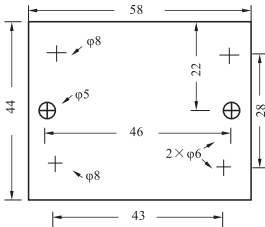
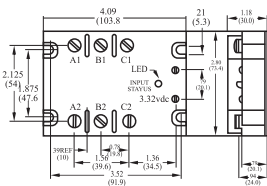
2.If ambient temperature is too high, the loading capacity of SSR will descend. If the ambient temperature is high or the heat radiation is bad, the choose SSR should be kept a certain margin.

3.The resistance load should not surpass 60% of rated current. The inductance load should not surpass 40% of rated current.

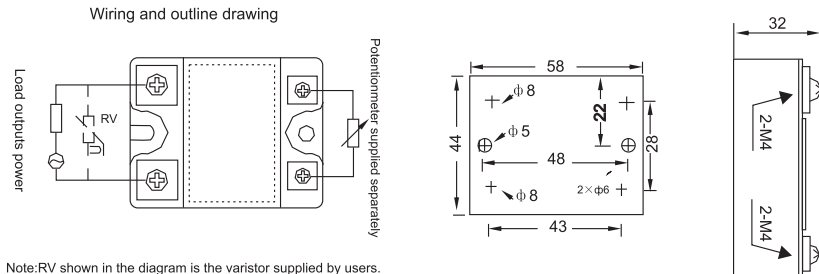
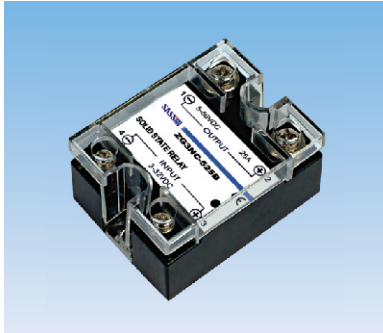
Solid state relay

Category		Small horizontal type	Small card type	Subminiature horizontal type
Type		3SZG3T	3SZG3M	3SZG3V
Outline and dimension (mm)				
		33×25×16	42×26×13	31×16×15.5
Function		Many kinds of input standards SSR		
Output	Insulation	Photoelectrical two-way controlled silicon		
	Load Voltage	30~240VAC/90~480VAC/12~65VDC		
	Load Current	1~3A	1~8A	1~3A
	Leakage current	5mA		
	VoRm Vceo	500		
	di/dt(A/us)	100		
	dv/dt(v/us)	100		
	I ² t(A ² S)	18		
	Tj(°C)Max.TJ(C)	90		
Input	Input Voltage	3-24VDC/3-36VDC		
	Input Current	≤40mA		
	Off Voltage	1VDC		
	On Voltage	3VDC		
	Off time	0.5ms DC/10msAC		
	On time	0.5ms DC/10msAC		
Dielectric strength		50Hz, 60S 2500VAC		
Ambient temperature		-30℃~80℃(Under non-ice/dewfall condition)		
Coefficient of safety of working current		Dissipative load is 60%/Inductive load is 40%		
Wiring installation diagram				

Solid state relay

Category		Plane installment type		3-phase AC solid state relay	
Type		3SSR	3SZG3NC	3SZG33	
Outline and dimension					
		60×45×24	58×44×32	104×73.5×24	
Function		Many kinds of input standards		With operation display	
Output	Insulation	Photoelectrical coupler			
	Load Voltage	30~240VAC/90~480VAC/12~100VDC			
	Load Current	10~40A	10~120A		
	Leakage current	100VAC 5mA	200VAC 10mA		
	VoRm Vceo	1000			
	di/dt(A/us)	200			
	dv/dt(v/us)	400			
	I ² t(A ² S)	25~3000(Bigger current, bigger consumption)			
	Tj(°C)Max.TJ(C)	100			
Input	Input Voltage	3-32VDC/90-250VAC			
	Input Current	<40mA			
	Off Voltage	1VDC			
	On Voltage	3VDC			
	Off time	0.5ms DC/10msAC			
	On time	0.5ms DC/10msAC			
Dielectric strength		50Hz, 60S 2500VAC			
Ambient temperature		-30℃~80℃(Under non-ice/dewfall condition)			
Coefficient of safety of working current		Dissipative load is 60%/Inductive load is 40%			
Wiring installation diagram					

DC solid state relay



Type	Load current	Load voltage	Input voltage	Control current	Voltage drop in the state of making	Leakage current in the state of breaking
3SZG3NC-510B	10A	5-60VDC	3-32VDC	5-50mA	$\geq 2.3V$	$\geq 1WA$
	Turn-on time	Breaking time	Medium withstanding voltage	Insulated resistance	Environment temperature	Installation mode
	$\leq 0.15ms$	$\leq 0.8ms$	2500VAC	100M- Ω /500VDC	$-30^{\circ}C+75^{\circ}C$	Plane mounting
3SZG3NC-525B	25A	5-60VDC	3-32VDC	5-50mA	$\geq 2.3V$	$\geq 1WA$
	Turn-on time	Breaking time	Medium withstanding voltage	Insulated resistance	Environment temperature	Installation mode
	$\leq 0.15ms$	$\leq 0.8ms$	2500VAC	100M- Ω /500VDC	$-30^{\circ}C+75^{\circ}C$	Plane mounting
3SZG3NC-540B	40A	5-60VDC	3-32VDC	5-50mA	$\geq 2.3V$	$\geq 1WA$
	Turn-on time	Breaking time	Medium withstanding voltage	Insulated resistance	Environment temperature	Installation mode
	$\leq 0.15ms$	$\leq 0.8ms$	2500VAC	100M- Ω /500VDC	$-30^{\circ}C+75^{\circ}C$	Plane mounting

Model	Input voltage	Output voltage	Output current
3SZG3T-201B	3-32VDC	30-240VAC	1A
3SZG3T-301B	3-32VDC	90-480VAC	1A
3SZG3T-203B	3-32VDC	30-240VAC	3A
3SZG3T-303B	3-32VDC	90-480VAC	3A
3SZG3M-201B	3-32VDC	30-240VAC	1A
3SZG3M-301B	3-32VDC	90-480VAC	1A
3SZG3M-203B	3-32VDC	30-240VAC	3A
3SZG3M-303B	3-32VDC	90-480VAC	3A
3SZG3M-205B	3-32VDC	30-240VAC	5A
3SZG3M-305B	3-32VDC	90-480VAC	5A
3SZG3M-208B	3-32VDC	30-240VAC	8A
3SZG3V-308B	3-32VDC	90-480VAC	8A
3SZG3V-201B	3-32VDC	30-240VAC	1A
3SZG3V-301B	3-32VDC	90-480VAC	1A
3SSR-10DA	3-32VDC	24-380VAC	10A
3SSR-20DA	3-32VDC	24-380VAC	20A
3SSR-25DA	3-32VDC	24-380VAC	25A
3SSR-40DA	3-32VDC	24-380VAC	40A
3SSR-10AA	80-250VAC	24-380VAC	10A
3SSR-20AA	80-250VAC	24-380VAC	20A
3SSR-25AA	80-250VAC	24-380VAC	25A
3SSR-40AA	80-250VAC	24-380VAC	40A

Model	Input voltage	Output voltage	Output current
3SZG3NC-210B	3-32VDC	30-240VAC	10A
3SZG3NC-310B	3-32VDC	90-480VAC	10A
3SZG3NC-215B	3-32VDC	30-240VAC	15A
3SZG3NC-315B	3-32VDC	90-480VAC	15A
3SZG3NC-220B	3-32VDC	30-240VAC	20A
3SZG3NC-320B	3-32VDC	90-480VAC	20A
3SZG3NC-225B	3-32VDC	30-240VAC	25A
3SZG3NC-325B	3-32VDC	90-480VAC	25A
3SZG3NC-240B	3-32VDC	30-240VAC	40A
3SZG3NC-340B	3-32VDC	90-480VAC	40A
3SZG3NC-250B	3-32VDC	30-240VAC	50A
3SZG3NC-350B	3-32VDC	90-480VAC	50A
3SZG3NC-260B	3-32VDC	30-240VAC	60A
3SZG3NC-360B	3-32VDC	90-480VAC	60A
3SZG3NC-270B	3-32VDC	30-240VAC	70A
3SZG3NC-370B	3-32VDC	90-480VAC	70A
3SZG3NC-280B	3-32VDC	30-240VAC	80A
3SZG3NC-380B	3-32VDC	90-480VAC	80A
3SZG3NC-210A	80-250VAC	30-240VAC	10A
3SZG3NC-310A	80-250VAC	90-480VAC	10A
3SZG3NC-215A	80-250VAC	30-240VAC	15A
3SZG3NC-315A	80-250VAC	90-480VAC	15A

Model	Input voltage	Output voltage	Output current
3SZG3NC-220A	80-250VAC	30-240VAC	20A
3SZG3NC-320A	80-250VAC	90-480VAC	20A
3SZG3NC-225A	80-250VAC	30-240VAC	25A
3SZG3NC-325A	80-250VAC	90-480VAC	25A
3SZG3NC-240A	80-250VAC	30-240VAC	40A
3SZG3NC-340A	80-250VAC	90-480VAC	40A
3SZG3NC-250A	80-250VAC	30-240VAC	50A
3SZG3NC-350A	80-250VAC	90-480VAC	50A
3SZG3NC-260A	80-250VAC	30-240VAC	60A
3SZG3NC-360A	80-250VAC	90-480VAC	60A
3SZG3NC-270A	80-250VAC	30-240VAC	70A
3SZG3NC-370A	80-250VAC	90-480VAC	70A
3SZG3NC-280A	80-250VAC	30-240VAC	80A
3SZG3NC-380A	80-250VAC	90-480VAC	80A
3SZG33-310B	80-250VAC	90-480VAC	10A
3SZG33-320B	80-250VAC	90-480VAC	20A
3SZG33-325B	80-250VAC	90-480VAC	25A
3SZG33-340B	80-250VAC	90-480VAC	40A
3SZG33-310A	80-250VAC	90-480VAC	10A
3SZG33-320A	80-250VAC	90-480VAC	20A
3SZG33-325A	80-250VAC	90-480VAC	25A
3SZG33-340A	80-250VAC	90-480VAC	40A

TS Time Relay



3STS-GE2



3STS-ME1



3STS-MD18(A)



3STS-MD24

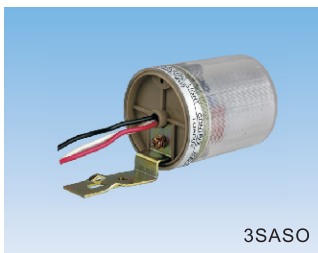
■ Application

- ① 24 hours programming
- ② 48 On/Off program
- ③ Accuracy: Less than 6 minutes each time
- ④ Compact and elegant design for easy operation
- ⑤ Power supply: 220-240V/50Hz max.3500W

■ Specification

- ★ Min.order: 600PCS
- Package: Double blister
- Q'ty/Box: 12PCS
- Q'ty/Ctn: 48PCS

Automatic Photo-Controls



3SASO



3SST220 220V, 10A



3SST2210L 220V, 10A



3SAS6 220V/110V, 3A, 6A

■ Application

Street light, Factory, Garden, Harbor, Airport, Farm, Pack, any other place.

FEATURES:

Compact, reliable lighting controls consist of hermetically sealed CDS photocell and snap action bimetallic relay to insure electrical switching.

ELECTRICAL CONNECTION:

At using for mercury or fluorescent lamp, connect the control unit in the primary side or stabilizer, connect red-lead wire first for safety. For incandescent lamp, connect black-lead (common) to power source, red lead wire and white lead to lamp load.

ORDER CODE NO	RATING
3SASO-2203	AC 220V 3A
3SASO-2206	AC 220V 6A
3SASO-22010	AC 220V 10A
3SASO-22015	AC 220V 15A
3SASO-11003	AC 110V 3A
3SASO-11006	AC 110V 6A
3SASO-11010	AC 110V 10A
3SASO-11015	AC 110V 15A