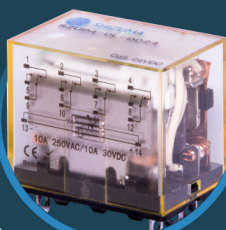
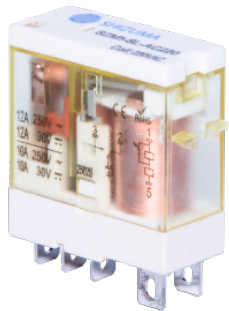
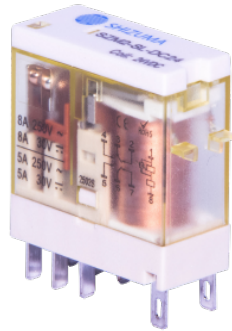




SHIZUMA

RELAY CATALOG

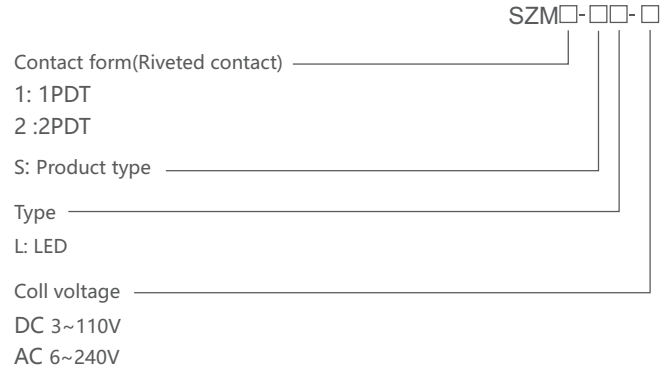



SZM1

SZM2

Product features

- > Small size, easy to assemble
- > High contact load, 1-S 12A; 2-S 8A
- > High sensitivity
- > Plug-in installation

Model Number Structure



Specifications

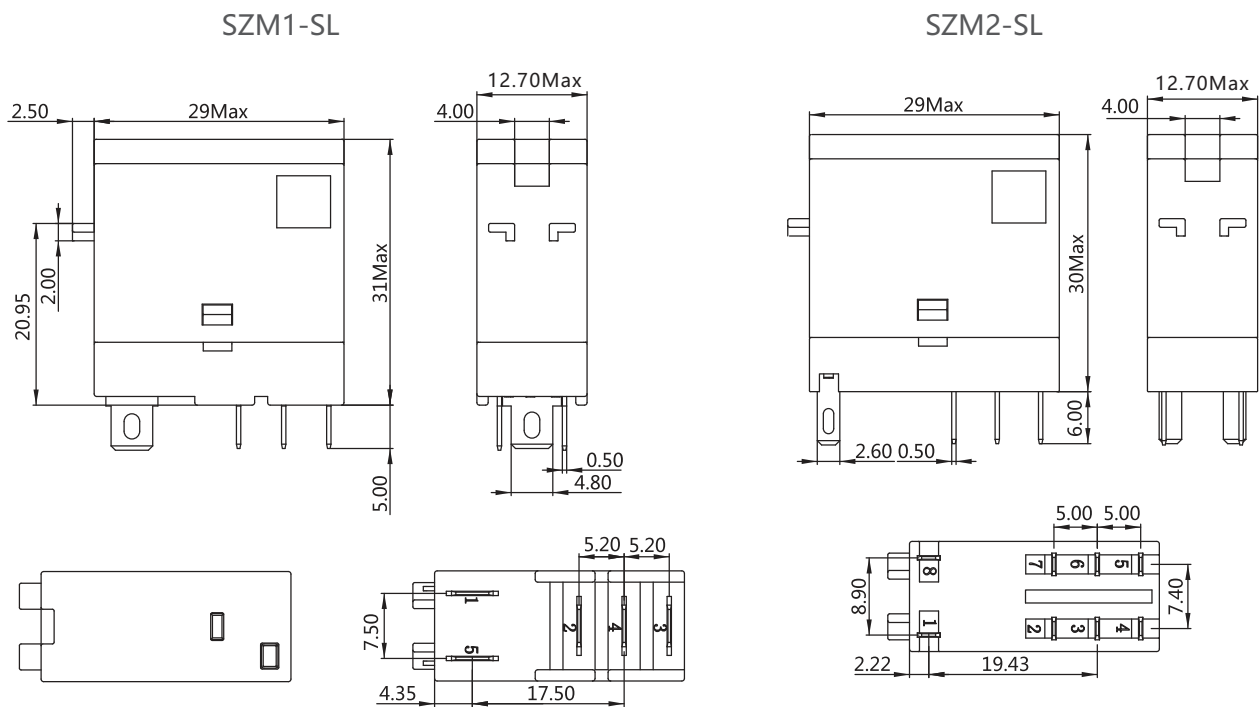
Contact Ratings	Contact form	1PDT	2PDT
	Rated load(Resistive load)	12A/250VAC, 30VDC	8A/250VAC, 30VDC
	Switching power(Resistive load)	3000VA, 360W	2000VA, 240W
	Contact resistance(initial)	≤50mΩ	
	Contact materials	Ag alloy	
	Electrical life	1×10 ⁵ times	
	Mechanical life	AC:3×10 ⁷ times DC:5×10 ⁷ times	
Must-iperate voltage (23°C)		DC:≤75% (rated voltage), AC:≤80% (rated voltage) 50/60Hz(rated voltage)	
Must-release voltage (23°C)		DC:≥10% (rated voltage), AC:≥30% (rated voltage) 50/60Hz(rated voltage)	
Maximum voltage (23°C)		110% (rated voltage)	
Coil power consumption	DC (W)	Approx. 0.53	
	AC (VA)	Approx. 0.9	
Operate time (rated voltage)		≤20ms	
Release time (rated voltage)	AC	≤25ms	
	DC	≤10ms, Built in freewheeling diode type: ≤20ms	
Insulation resistance		1000MΩ (500VDC)	
Dielectric Strength	Between contacts of same polarity	1000VAC/1min	
	Between contacts of different polarity	3000VAC/1min (Leakage current 1mA)	
	Between contact and coil	5000VAC/1min (Leakage current 1mA)	
Ambient temperature		-40~70°C	
Ambient humidity		5%~85%RH	
Atmospheric pressure		86~106KPa	
Shock resistance	stability	98m/S ²	
	strength	980m/S ²	
Vibration resistance		10~55Hz double amplitude:	
Installation mode		Plug-In type	
Packaging form		Dust cover type	
Weight		Approx. 20g	

Coil Ratings (23°C)

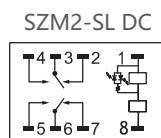
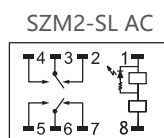
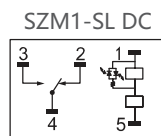
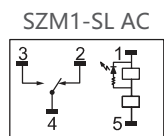
Rated Voltage V.DC	6	12	24	36	48	100~110	
Coil resistance Ω	68	270	1080	2440	4300	18800	
Rated Voltage V.AC	6	12	24	48	115	230	240
Coil resistance Ω	16	62	240	1080	6000	23000	25000

Note: Coil resistance tolerance: Nominal value of coil rated voltage < 110V \pm 10% Ω , \geq 110V 1 \pm 15% Ω .

Dimensions (mm)



Connecting diagram





Product features

- > Load 2-Z 8A;4-Z 5A
- > Various specifications, equipped with LED indicator device
- > With mechanical indicator window
- > Plug-in installation

Model Number Structure

Contact form(Riveted contact)

2 : 2PDT

4 : 4PDT

2T : 2PDT with test trigger

4T : 4PDT with test trigger

Z : Product type

Type

L: LED

Coll voltage

DC 6~220V

AC 6~380V

SZU□-□□-□

Specifications

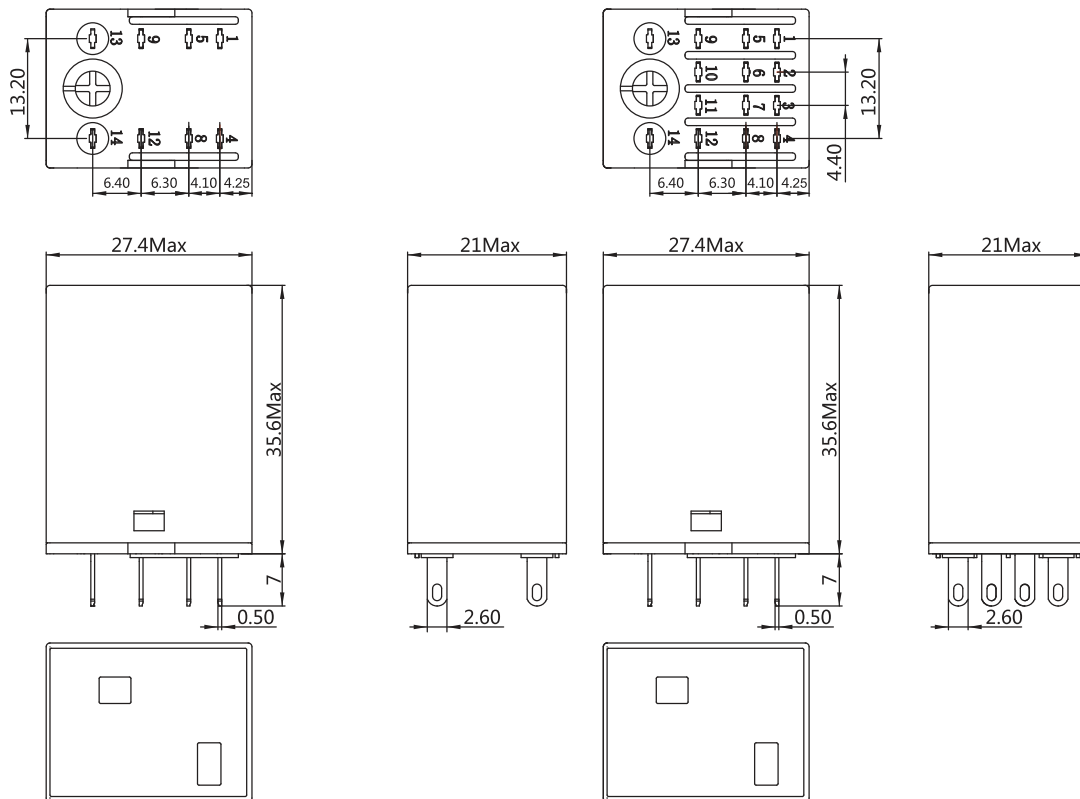
Contact Ratings	Contact form	2PDT	4PDT
	Rated load(Resistive load)	8A/250V AC, 30VDC	5A/250VAC, 30VDC
	Switching power(Resistive load))	2000VA, 240W	1250VA, 150W
	Contact resistance(initial)	≤50mΩ	
	Contact materials	Ag alloy	
	Electrical life	1×10 ⁵ times	
	Mechanical life	AC:2×10 ⁷ times DC:5×10 ⁷ times	
Must-iperate voltage (23°C)		DC:≤75% (rated voltage), AC:≤80% (rated voltage) 50/60Hz(rated voltage)	
Must-release voltage (23)		DC:≥10% (rated voltage),AC:≥30% (rated voltage) 50/60Hz(rated voltage)	
Maximum voltage (23)		110% (rated voltage)	
Coil power consumption	DC (W)	Approx. 0.9	
	AC (VA)	Approx. 1.2	
Operate time (rated voltage)		≤20ms	
Release time (rated voltage)	AC	≤25ms	
	DC	≤15ms: Built in freewheeling diode type: ≤25ms	
Insulation resistance		1000MΩ (500VDC)	
Dielectric Strength	Between contacts of same polarity	1000VAC/1min	
	Between contacts of different polarity	2Z: 2000VAC/1min (Leakage current 1mA) 4Z: 1500VAC/1min (Leakage current 1mA)	
	Between contact and coil	2000VAC/1min (Leakage current 1mA)	
Ambient temperature		-40~70°C	
Ambient humidity		5%~85%RH	
Atmospheric pressure		86~106KPa	
Shock resistance	stability	98m/S ²	
	strength	980m/S ²	
Vibration resistance		10~55Hz double amplitude: 1mm	
Installation mode		Plug-In type	
Packaging form		Dust cover type	
Weight		Approx. 32g	

Coil Ratings (23°C)

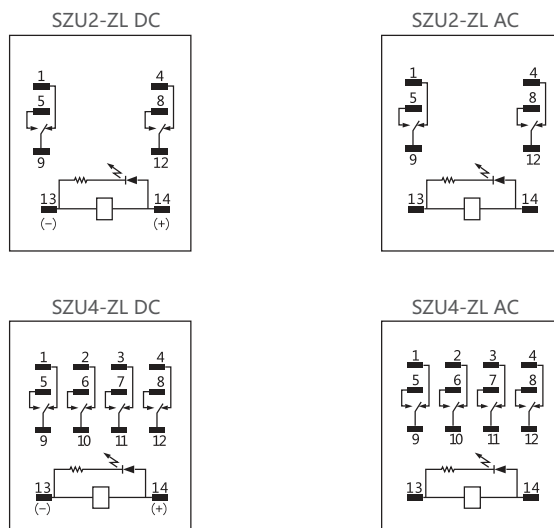
Rated Voltage V.DC	6	12	24	48	100~110	220
Coil resistance Ω	41	165	662	2725	11440	53780
Rated Voltage V.AC	12	24	48	110~120	220~240	
Coil resistance Ω	45	180	785	4430	15900	

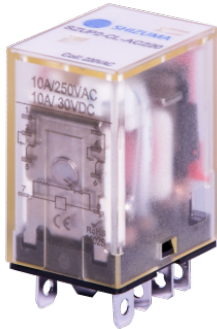
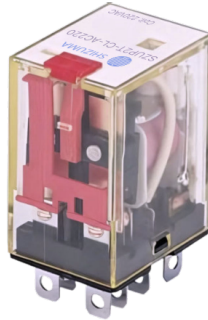
Note: Coil resistance tolerance: Nominal value of coil rated voltage < 110V $\pm 10\%$, ≥ 110 V $\pm 15\%$.

Dimensions (mm)



Connecting diagram




SZUP2-CL

SZUP2T-CL

Product features

- > Load 2-C 10A
- > Various specifications, equipped with LED indicator device
- > With mechanical indicator window
- > Plug-in installation

Model Number Structure

Contact form(Riveted contact) ———— SZUP□-□-□-□
 2 : 2PDT
 2T: 2PDT with test trigger
 C : Product type ————
 Type ————
 L: LED
 Coil voltage ————
 DC 6~220V
 AC 6~380V

Specifications

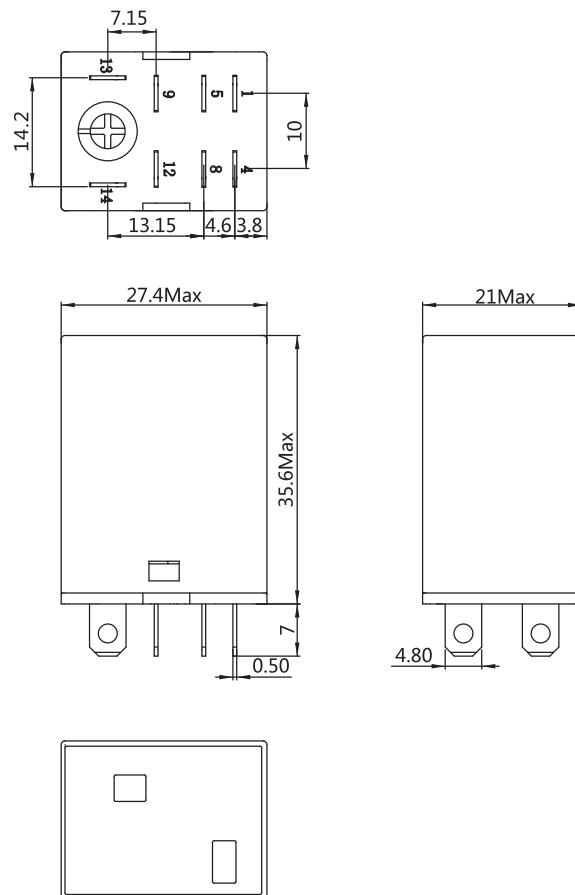
Contact Ratings	Contact form	2PDT
	Rated load(Resistive load)	10A/250VAC, 30VDC
	Switching power(Resistive load)	2500VA, 300W
	Contact resistance(initial)	≤50mΩ
	Contact materials	Ag alloy
	Electrical life	1×10 ⁵ times
	Mechanical life	AC: 1×10 ⁷ times
Must-operate voltage(23°C)		DC: ≤75% (rated voltage), AC: ≤80% (rated voltage) 50/60Hz(rated voltage)
Must-release voltage (23 °)		DC: ≥10% (rated voltage), AC: ≥30% (rated voltage) 50/60Hz(rated voltage)
Maximum voltage(23 °)		110% (rated voltage)
Coil power consumption	DC (W)	Approx. 0.9
	AC (VA)	Approx. 1.2
Operate time (rated voltage)		≤20ms
Release time (rated voltage)	AC	≤25ms
	DC	≤15ms, Built in freewheeling diode type: ≤25ms
Insulation resistance		1000MΩ (500VDC)
Dielectric Strength	Between contacts of same polarity	1000VAC/1min
	Between contacts of different polarity	2000VAC/1min (Leakage current 1mA)
	Between contact and coil	2000VAC/1min (Leakage current 1mA)
Ambient temperature		-40~70°C
Ambient humidity		5%~85%RH
Atmospheric pressure		86~106KPa
Shock resistance	stability	98m/S ²
	strength	980m/S ²
Vibration resistance		10~55Hz double amplitude: 1mm
Installation mode		Plug-In type
Packaging form		Dust cover type
Weight		Approx. 32g

Coil Ratings (23°C)

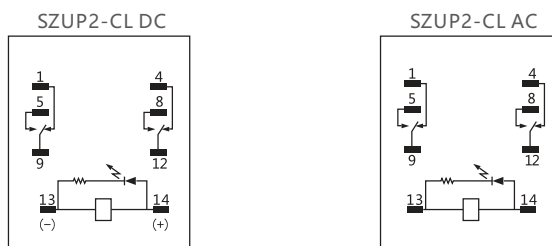
Rated Voltage V.DC	6	12	24	48	100~110	220
Coil resistance Ω	41	165	662	2725	11440	53780
Rated Voltage V.AC	12	24	48	110~120	220~240	
Coil resistance Ω	45	180	785	4430	15900	

Note: Coil resistance tolerance: Nominal value of coil rated voltage < 110V \pm 10% Ω , \geq 110V 1 \pm 15% Ω .

Dimensions (mm)



Connecting diagram



Product features

- > Load 3-C 10A;4-C 10A
- > Various specifications, equipped with LED indicator device
- > Plug-in installation

Model Number Structure

SZUP-□-□-□

Contact form(Riveted contact)

3: 3PDT

4: 4PDT

C : Product type

Type

L: LED

Coll voltage

DC 6~220V

AC 6~380V


SZUP4-CL

Specifications

Contact Ratings	Contact form	3PDT	4PDT
	Rated load(Resistive load)	10A/250VAC ,30VDC	10A/250VAC ,30VDC
	Load motor	1/6HP 240VAC	1/6HP 240VAC
	Switching power(Resistive load)	2500VA 300W	2500VA 300W
	Contact resistance(initial)	≤50mΩ	
	Contact materials	Ag alloy	
	Electrical life(Frequency 1s on, 1s off)	1×10 ⁵ times	
	Mechanical life	AC: 2×10 ⁷ times DC: 5×10 ⁷ times	
Must-operate voltage(23°C)		DC: ≤75% (rated voltage), AC: ≤80% (rated voltage) 50/60Hz(rated voltage)	
Must-release voltage (23 °)		DC: ≥10% (rated voltage), AC: ≥30% (rated voltage) 50/60Hz(rated voltage)	
Maximum voltage(23 °)		110% (rated voltage)	
Coil power consumption	DC (W)	3C-Approx. 1.4	4C-Approx. 1.5
	AC (VA)	3C-Approx. 2	4C-Approx. 2.5
Operate time (rated voltage)		≤20ms	
Release time (rated voltage)	AC	≤25ms	
	DC	≤15ms, Built in freewheeling diode type: ≤25ms	
Insulation resistance		1000MΩ (500VDC)	
Dielectric Strength	Between contacts of same polarity	1000VAC/1min (Leakage current 1mA)	
	Between contacts of different polarity	2000VAC/1min (Leakage current 1mA)	
	Between contact and coil	2000VAC/1min (Leakage current 1mA)	
Ambient temperature		-25 ~ +55°C	
Ambient humidity		35% ~ 85%RH	
Atmospheric pressure		86 ~ 106KPa	
Shock resistance		10G (Sine half wave pulse: 11ms)	
Vibration resistance		10~55Hz double amplitude: 1mm	
Installation mode		Plug-In type	
Packaging form		Dust cover type	
Weight		3C-Approx. 50g	4C-Approx. 65g

Coil Ratings (23°C)

SZUP3-C

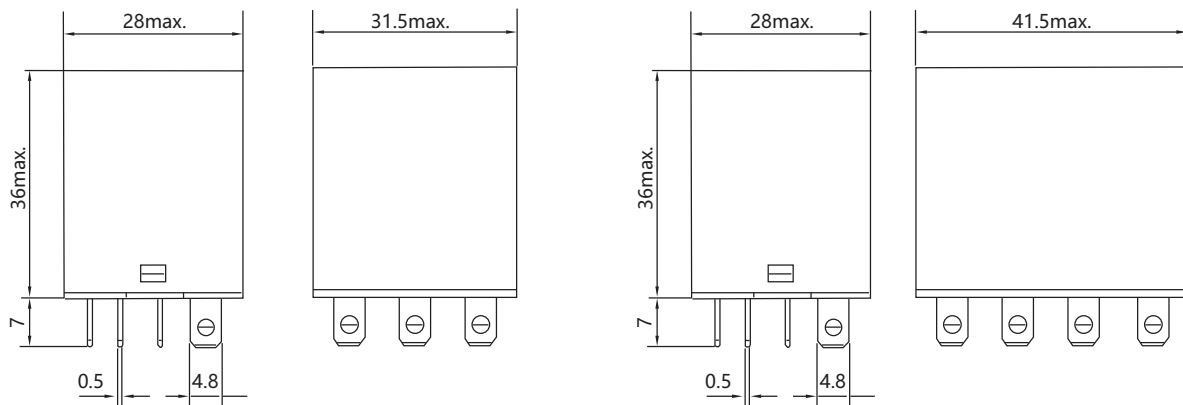
Rated Voltage V.DC	6	12	24	48	100~110	220
Coil resistance Ω	25	100	400	1600	8400	33000
Rated Voltage V.AC	6	24	48	110~120	220~240	380
Coil resistance Ω	6.5	102	410	2500	10000	26000

SZUP4-C

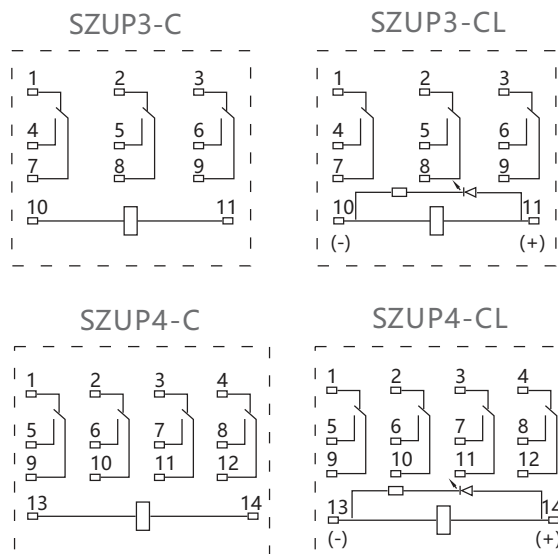
Rated Voltage V.DC	6	12	24	48	100~110	220
Coil resistance Ω	24	96	360	1500	6800	29000
Rated Voltage V.AC	6	24	48	110~120	220~240	380
Coil resistance Ω	5	80	320	1680	8000	20000

Note: Coil resistance tolerance: Nominal value of coil rated voltage < 110V \pm 10% Ω , \geq 110V 1 \pm 15% Ω .

Dimensions (mm)



Connecting diagram



SH1M-05T (Guide rail installation)

Applicable relay
SZM1-SL



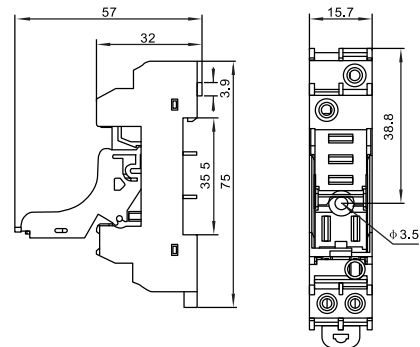
Specifications

Model			
Nominal Load	Current	A	12
	Voltage	V	250VAC/DC
Dielectric Strength	Between Coil and Contact	V/S	4000
	Between contacts of the same polarity	V/S	1000
	Between contacts of the different polarity	V/S	3000
Torque	N.m		1.0
Wire Size	AWG/mm ²		20-14/0.5-2.5
Ambient temperature	°C		-40-70
Unit Weight	g		24

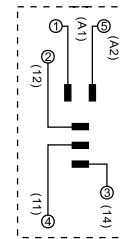
Accessories

Model	Plastic retaining and release clip	Metal retaining clip
SH1M-05T	Assembled	-

Dimensions (mm)

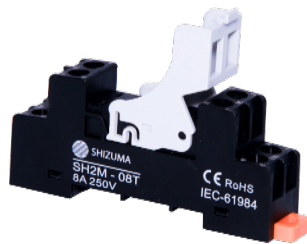


Internal connections



SH2M--08T (Guide rail installation)

Applicable relay
SZM2-SL



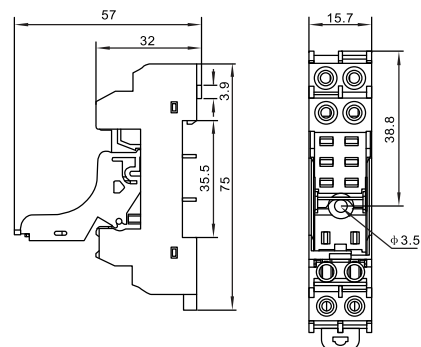
Specifications

Model			
Nominal Load	Current	A	8/10
	Voltage	V	250VAC/DC
Dielectric Strength	Between Coil and Contact	V/S	4000
	Between contacts of the same polarity	V/S	1000
	Between contacts of the different polarity	V/S	3000
Torque	N.m		1.0
Wire Size	AWG/mm ²		20-14/0.5-2.5
Ambient temperature	°C		-40-70
Unit Weight	g		29

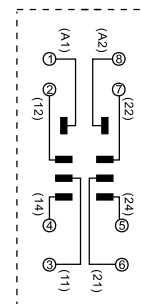
Accessories

Model	Plastic retaining and release clip	Metal retaining clip
SH2M-08T	Assembled	-

Dimensions (mm)



Internal connections



RELAY SOCKET

SH2U-08T (Guide rail installation)

Applicable relay
SZU2-ZL



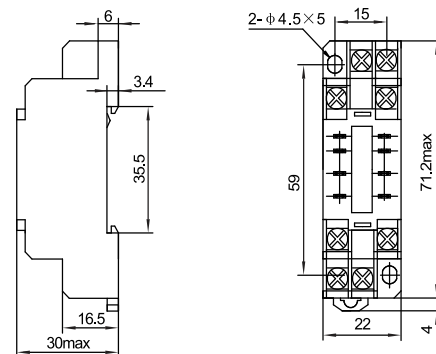
Specifications

Model			
Nominal Load	Current	A	8
	Voltage	V	250VAC/DC
Dielectric Strength	Between Coil and Contact	V/S	4000
	Between contacts of the same polarity	V/S	1000
	Between contacts of the different polarity	V/S	3000
Torque	N.m		1.0
Wire Size	AWG/mm ²		20-14/0.5-2.5
Ambient temperature	°C		-40-70
Unit Weight	g		30

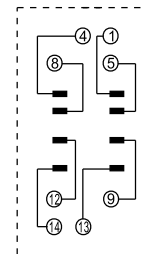
Accessories

Model	Plastic retaining and release clip	Metal retaining clip
SH2U-08T	Assembled	-

Dimensions (mm)



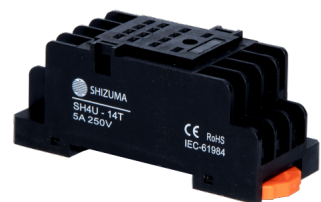
Internal connections



/page

SH4U-14T (Guide rail installation)

Applicable relay
SZU4-ZL



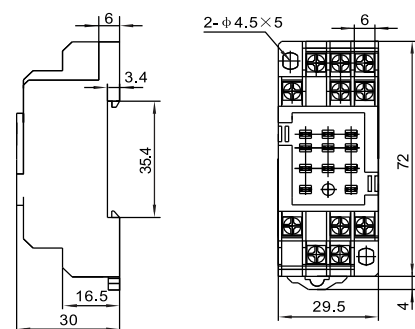
Specifications

Model			
Nominal Load	Current	A	5
	Voltage	V	250VAC/DC
Dielectric Strength	Between Coil and Contact	V/S	4000
	Between contacts of the same polarity	V/S	1000
	Between contacts of the different polarity	V/S	3000
Torque	N.m		1.0
Wire Size	AWG/mm ²		20-14/0.5-2.5
Ambient temperature	°C		-40-70
Unit Weight	g		44

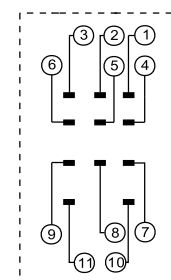
Accessories

Model	Plastic retaining and release clip	Metal retaining clip
SH4U-14T	Assembled	-

Dimensions (mm)



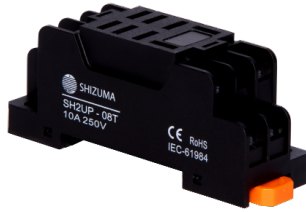
Internal connections



RELAY SOCKET

SH2UP-08T(Guide rail installation)

Applicable relay
SZUP2-CL



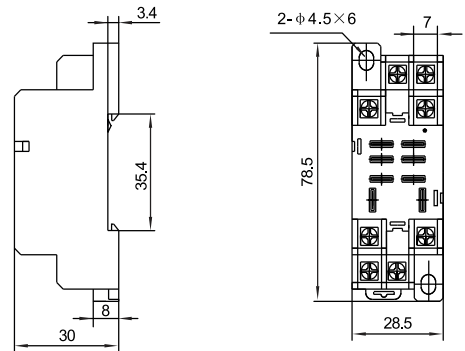
Specifications

Model			
Nominal Load	Current	A	10
	Voltage	V	250VAC/DC
Dielectric Strength	Between Coil and Contact	V/S	4000
	Between contacts of the same polarity	V/S	1000
	Between contacts of the different polarity	V/S	3000
Torque		N.m	1.0
Wire Size		AWG/mm ²	20-14/0.5-2.5
Ambient temperature		°C	-40-70
Unit Weight		g	31

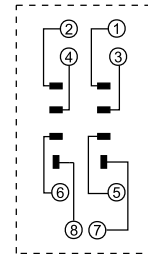
Accessories

Model	Plastic retaining and release clip	Metal retaining clip
SH2UP-08T	Assembled	-

Dimensions (mm)



Internal connections



SH4UP-14T(Guide rail installation)

Applicable relay
SZUP4-CL



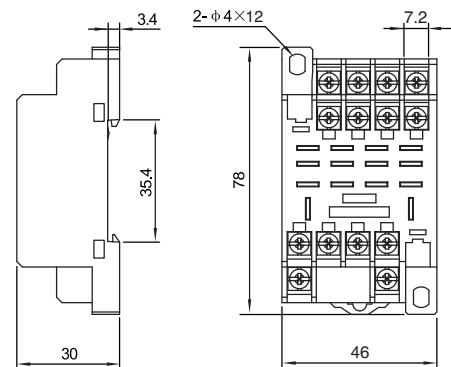
Specifications

Model			
Nominal Load	Current	A	10
	Voltage	V	250VAC/DC
Dielectric Strength	Between Coil and Contact	V/S	4000
	Between contacts of the same polarity	V/S	1000
	Between contacts of the different polarity	V/S	3000
Torque		N.m	1.0
Wire Size		AWG/mm ²	20-14/0.5-2.5
Ambient temperature		°C	-40-70
Unit Weight		g	67.3

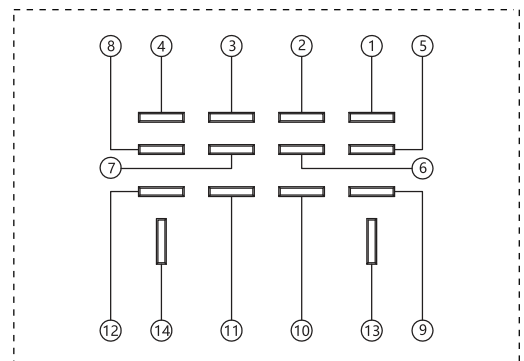
Accessories

Model	Plastic retaining and release clip	Metal retaining clip
SH4UP-14T	Assembled	-

Dimensions (mm)



Internal connections





SHIZUMA