

General Purpose

Power Relay

SZR-LY Series

FEATURES

- Small package design
- ARC barrier equipped
- Silver Cadmium Oxide contact
- High dielectric strength (1,800 Vac)
- High reliability and long life
- Ultra-high sensitivity with quick response time (25 ms max.)
- High vibration and shock resistance
- Options include LED indicator, diode protection, and LED indicator/diode protection
- UL listed, CE certified, CSA certified

TYPICAL APPLICATIONS

- Control panels
- Elevator panels
- Machine tools
- Test equipment



SZR-LY Series general-purpose power relays are designed for a wide range of applications including power as well as logic control for factory machines and control panels.

SZR-LY Series relays break 10 A loads and are ideal for control panels that require stable and reliable relays.

One standard and three options are available: LED indicator, internal surge protection diode, and LED indicator/diode protection. Honeywell's global sales and distribution channels ensure a rapid response and excellent customer service.

⚠ WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

⚠ WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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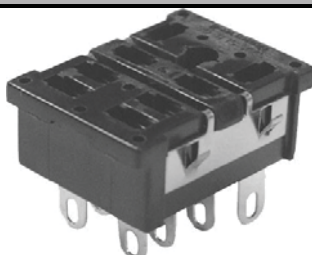


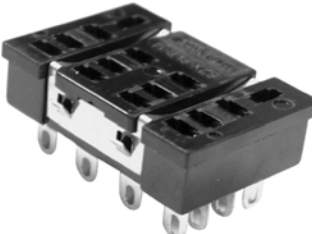

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RELAY MODEL SELECTION GUIDE

Type	Terminal	Contact	Catalog Listing
Standard	Plug-in/Solder	DPDT	SZR-LY2-1
		4PDT	SZR-LY4-1
	PCB	DPDT	SZR-LY2-1P
		4PDT	SZR-LY4-1P
LED Indicator	Plug-in/Solder	DPDT	SZR-LY2-N1
DIODE surge suppression		4PDT	SZR-LY4-N1
		DPDT	SZR-LY2-D1
LED indicator + surge suppression		4PDT	SZR-LY4-D1
	DPDT	SZR-LY2-X1	
		4PDT	SZR-LY4-X1

SOCKETS – REQUIRED ACCESSORIES

Relay Contact	Din-rail Mounting	Solder Terminal	PCB Terminal
DPDT For use with SZR-LY2-1, - N1, -D1, -X1	 SZX-SLF-08N	 SZX-SLB-08	 SZX-SLB-08P
4PDT For use with SZR-LY4-1, - N1, -D1, -X1	 SZX-SLF-14	 SZX-SLB-14	 SZX-SLB-14P

CONTACT RATINGS

Ratings	Load	Resistive Load (p.f. = 1)	Inductive load (p.f. = 0.4, L/R = 7 ms)
Rated load		110 Vac, 10 A 24 Vdc, 10 A	110 Vac, 7.5 A 24 Vdc, 5 A
Carry current		10 A	
Max. operating voltage		250 Vac, 125 Vdc	
Max. operating current		10 A	
Max. switching capacity		1,100 VA, 240 W	825 VA, 120 W
Min. permissible load		5 Vdc, 100 mA	

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COIL RATINGS (DPDT)

	Rated Voltage (V)	Rated Current (mA)		Coil resistance (Ω)	Coil Inductance (H)		Pick-up Voltage (V)	Dropout Voltage (V)	Maximum Voltage (V)	Power Consumption (W)			
		50 Hz	60 Hz		Armature OFF	Armature ON							
AC	6	214.1	183	12.2	0.04	0.08	Max. 80 %	Min. 30%	110%	Approx. 1.0 W to 1.2 W (60 Hz)			
	12	106.5	91	46	0.17	0.33							
	24	53.8	46	180	0.69	1.3							
	50	25.7	22	788	3.22	5.66				Max. 80 %	Min. 30%	110%	Approx. 0.9 W to 1.1 W (60 Hz)
	100/110	11.7/12.9	10/11	3,750	14.54	24.6							
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1							
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07							
220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4								
DC	6	150		40	0.17	0.33	Max. 80%	Min. 10%	110%	Approx. 0.9 W			
	12	75		160	0.73	1.37							
	24	36.9		650	3.2	5.72							
	48	18.5		2,600	10.6	21.0							
	100/110	9.1/10		11,000	45.6	86.2							

COIL RATINGS (4PDT)

	Rated Voltage (V)	Rated Current (mA)		Coil resistance (Ω)	Coil Inductance (H)		Pick-up Voltage (V)	Dropout Voltage (V)	Maximum Voltage (V)	Power Consumption (W)
		50 Hz	60 Hz		Armature OFF	Armature ON				
AC	6	386	330	5	0.02	0.04	Max. 80 %	Min. 30%	110%	Approx. 1.95 W to 2.5 W (60 Hz)
	12	199	170	20	0.1	0.17				
	24	93.6	80	78	0.38	0.67				
	50	46.8	40	350	1.74	2.88				
	100/110	22.5/25.5	19/21.8	1,800	10.5	17.3				
	200/220	11.5/13.1	9.8/11.2	6,700	33.1	57.9				
DC	6	240		25	0.09	0.21	Max. 80%	Min. 10%	110%	Approx. 1.5 W
	12	120		100	0.39	0.84				
	24	69		350	1.41	2.91				
	48	30		1,600	6.39	13.6				
	100/110	15/15.9		6,900	32	63.7				

Note 1: The rated current and coil resistance are measured at a coil temperature of 23 °C [73.4 °F] with tolerances of +15%, -20% for AC rated current and ± 15% for DC coil resistance.

Note 2: The rated current of N1 and X1 types is 4 mA higher than the value in the table above.

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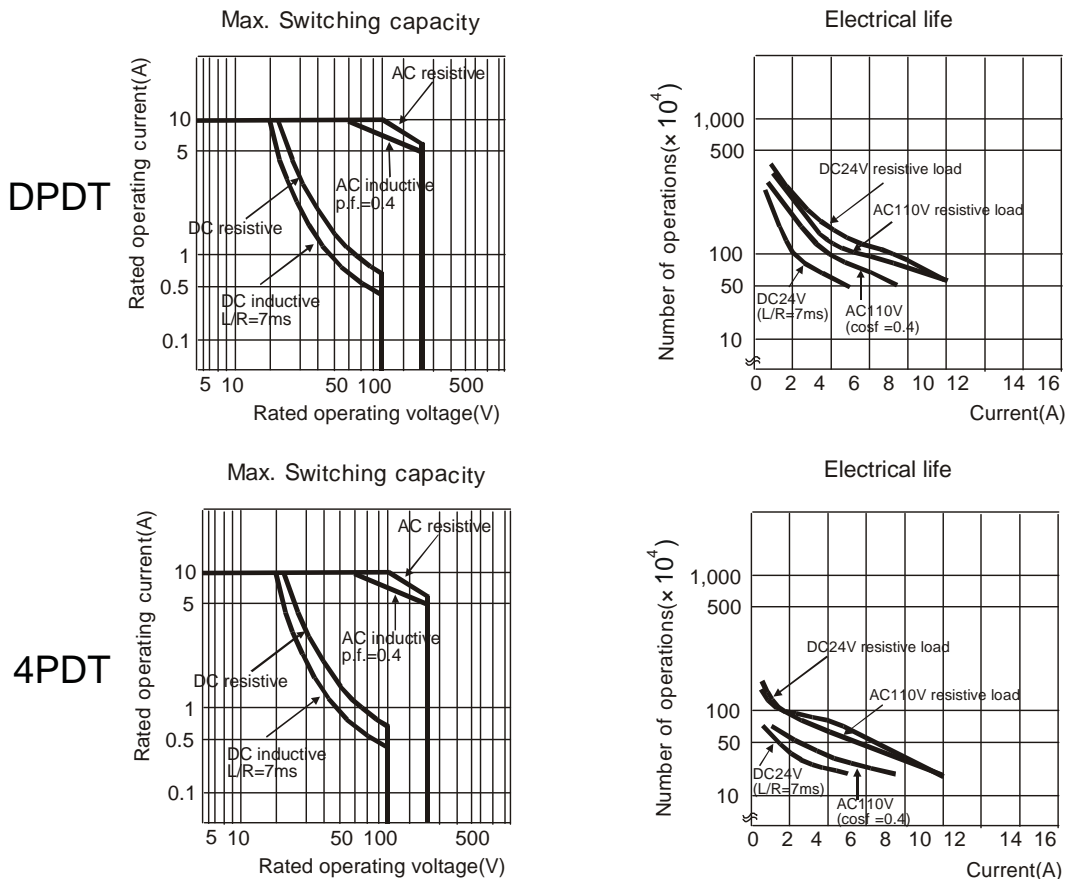
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SPECIFICATIONS

Contact material		Silver Cadium Oxide
Contact resistance		Max. 50 MOhm
Operate time		Max. 25 ms
Release time		Max. 25 ms
Operating frequency	Mechanical	18,000 operations per hour
	Electrical	1,800 operations per hour
Insulation resistance		Min. 100 Mw at 500 Vdc
Dielectric withstand voltage		1,800 Vac 50 Hz/60 Hz for one minute between non-continuous current carrying terminals and between coil terminals and contact terminals 1,000 Vac 50/60 Hz for 1 minute between contacts of same polarity
Vibration resistance	Mechanical durability	10 Hz to 55 Hz at double amplitude of 1.0 mm
	Malfunction durability	10 Hz to 55 Hz at double amplitude of 1.0 mm
Shock resistance	Mechanical durability	1,000 m/s ² (approx. 100 g)
	Malfunction durability	200 m/s ² (approx. 20 g)
Service life	Mechanical	AC: Min. 50 million operations (at operating frequency of 18,000 operations/hour) DC: Min. 100 million operations (at operating frequency of 18,000 operations/hour)
	Electrical	DPDT: Min. 500,000 operations (at operating frequency of 1,800 operations/hour) 4PDT: Min. 200,000 operations (at operating frequency of 1,800 operations/hour)
Weight		DPDT: Approximately 35 g 4PDT: Approximately 65 g

Note 1: The data shown above are of initial value

CHARACTERISTIC DATA

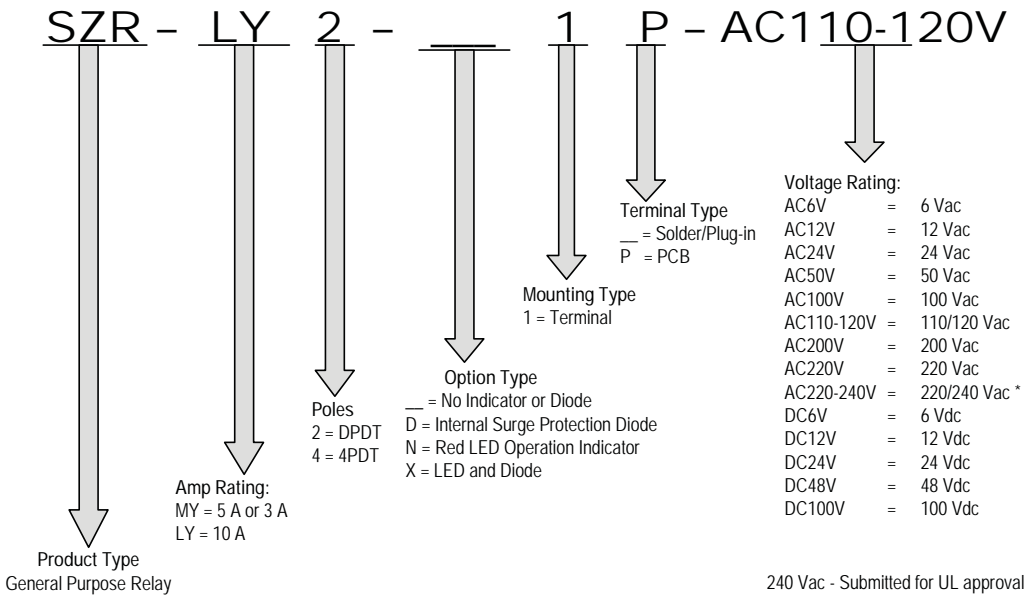


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CATALOG LISTING MATRIX



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HOLDING CLIPS

- Holding clips are included with the sockets
- Holding clips for the SLF-08N cannot be removed once inserted
- The holding clip for the SLF-14 can be removed by pushing the side of the inserting hold with a sharp object
- Holding clips for all SMB sockets are wire for easy removal
- Holding clips are to be inserted into the slots provided on the socket

DIMENSIONS (For reference only – mm/in)

Figure 1. Dimensions

For SZX-SLF-14 sockets

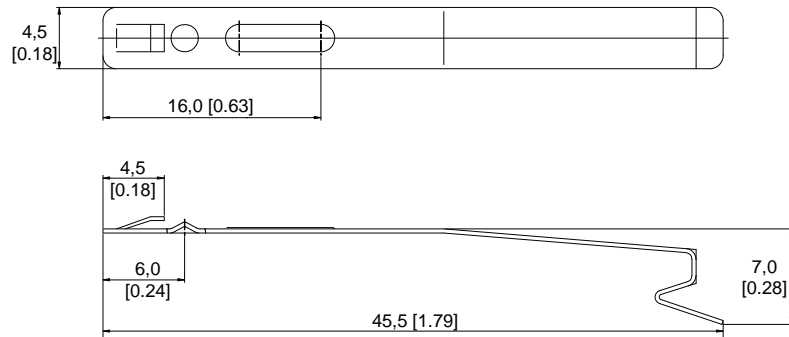


Figure 2. Dimensions

For SZX-SLF-08N sockets

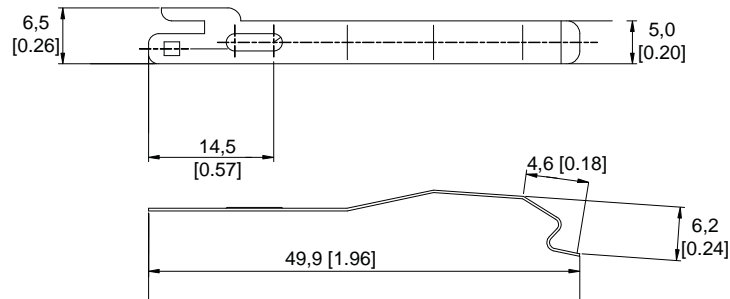
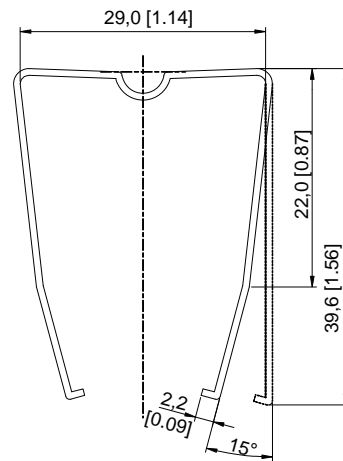


Figure 3. Dimensions

For all SZX-SLB sockets



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FIGURE 4. DIMENSION, CIRCUIT DIAGRAM, TERMINAL ARRANGEMENT, AND MOUNTING HOLE FOR SZR-LY2-1, SZR-LY2-N1, SZR-LY2-D1, and SZR-LY2-X1

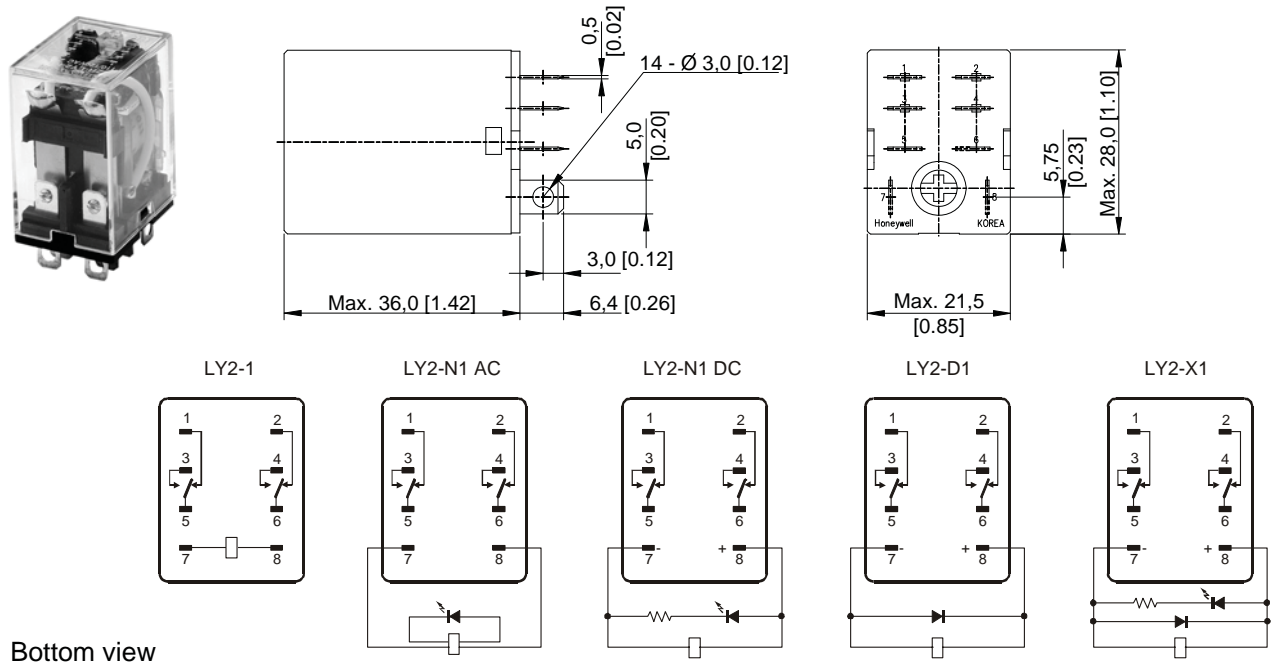
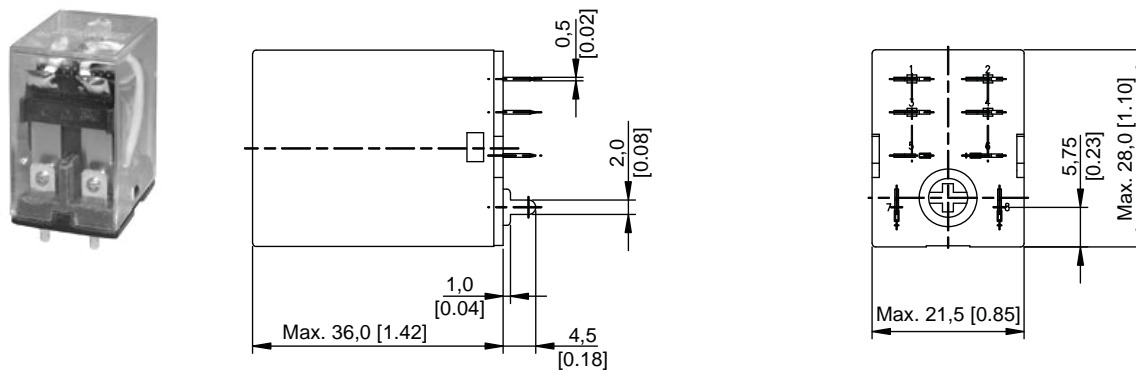


FIGURE 5. DIMENSION, CIRCUIT DIAGRAM, TERMINAL ARRANGEMENT, AND MOUNTING HOLE FOR SZR-MY2-1P and SZR-MY4-1P



The circuit diagram is the same with standard type of SZR-MY2-1 or the SZR-MY4-1

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FIGURE 6. DIMENSION, CIRCUIT DIAGRAM, TERMINAL ARRANGEMENT, AND MOUNTING HOLE FOR SZR-LY4-1, SZR-LY4-N1, SZR-LY4-D1, and SZR-LY4-X1

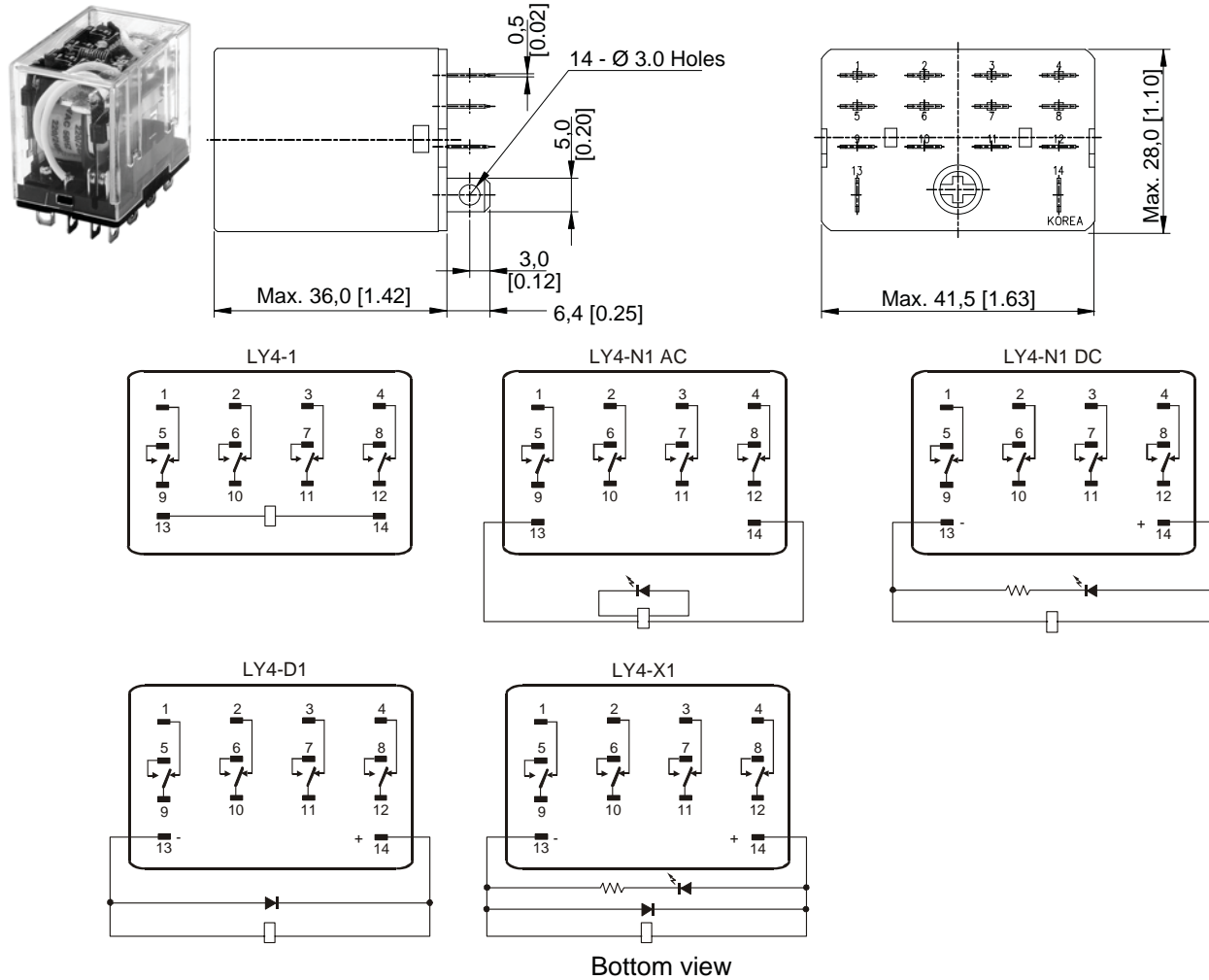
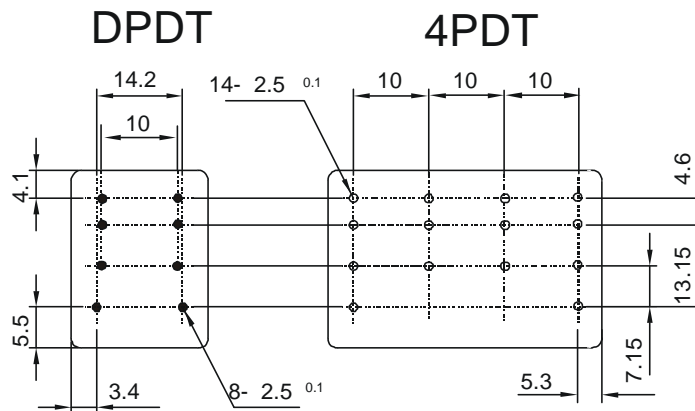


FIGURE 7. CIRCUIT DRAWING FOR SZR-LY2- and SZR-LY4-



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SOCKETS

FIGURE 8. SZX-SLF-08N

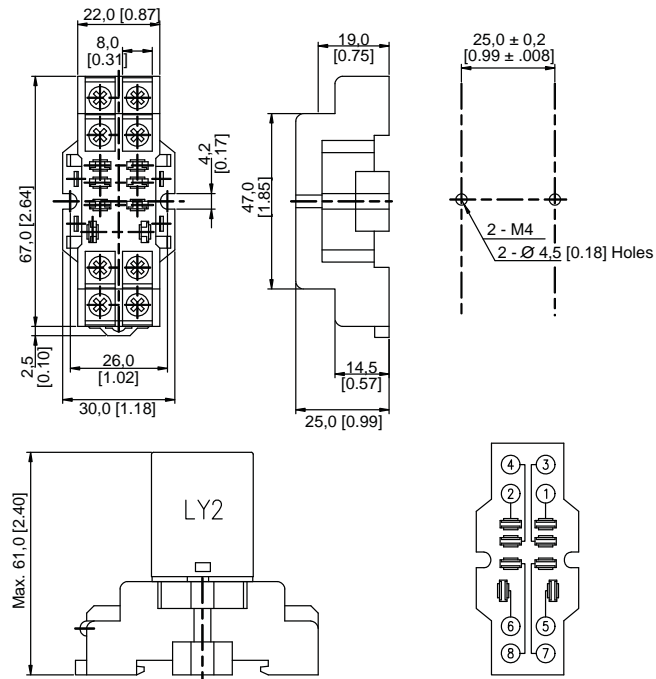


FIGURE 9. SZX-SLF-14

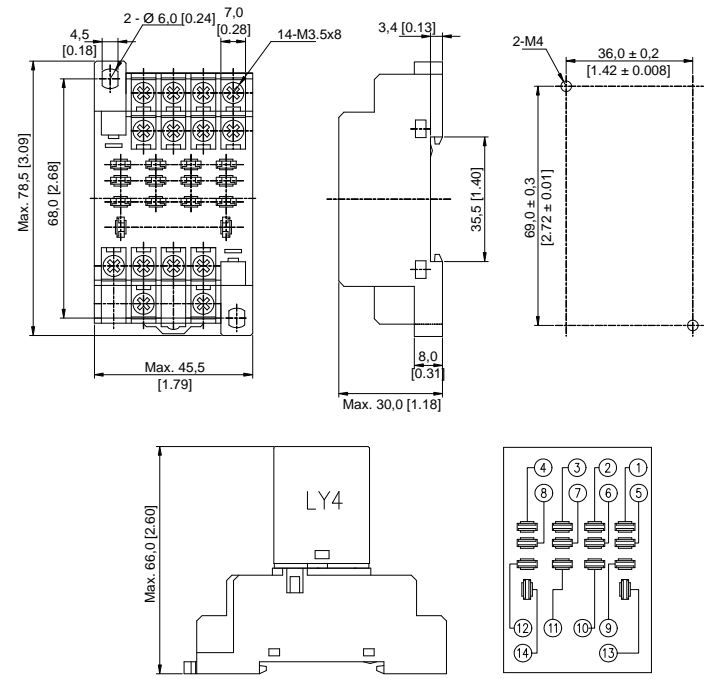


FIGURE 10. SZX-SLB-08

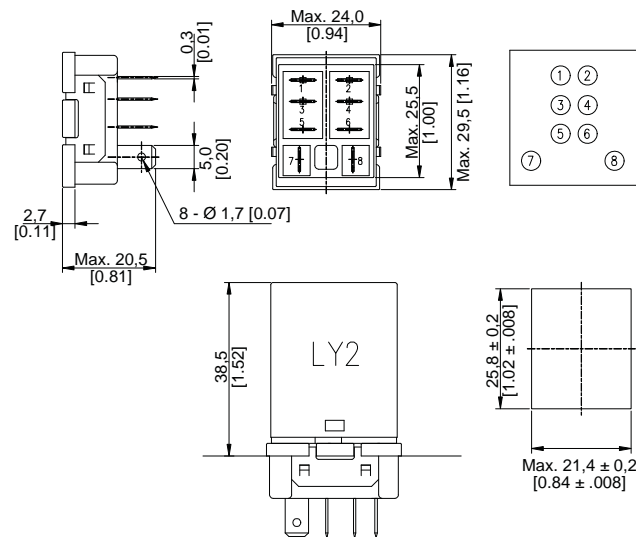
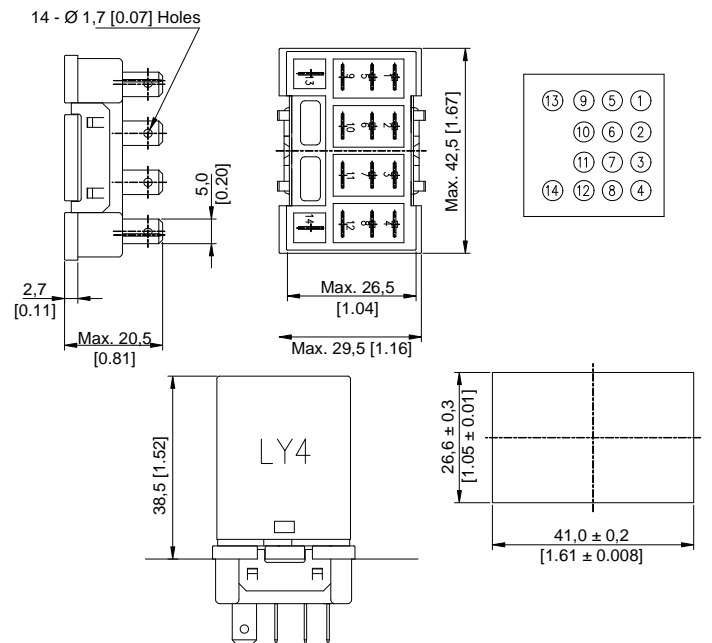


FIGURE 11. SZX-SLB-14



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FIGURE 12. SZX-SLB-08P

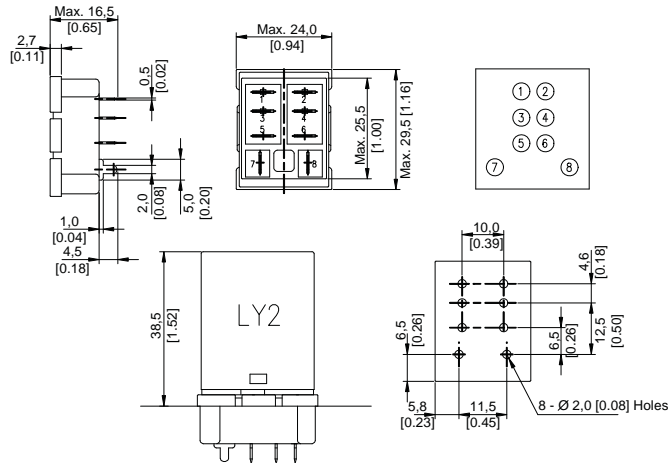
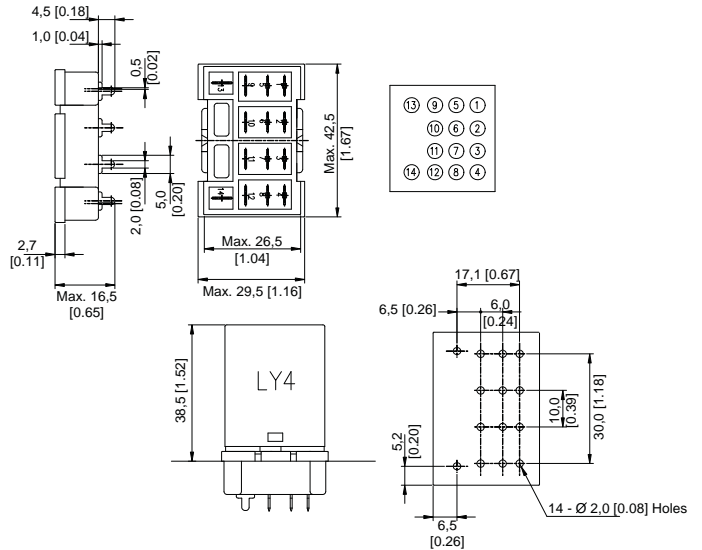


FIGURE 13. SZX-SLB-14P



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For application assistance, current specifications, or name of the nearest Authorized Distributor, contact a nearby sales office. Or call:

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