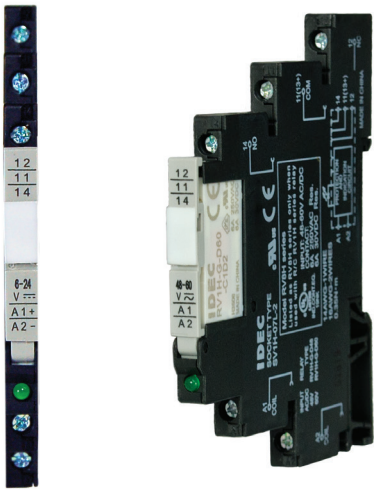
Higher Dropout Voltage RV8H Interface Relay

RV8 Series 6mm Width

Electromechanical (screw terminal)



Part Number	Poles
RV8H-L-AD110-HD	SPDT

SPECIFICATIONS

Models		Electromechanical
Ratings		UL/c-UL Listed CE
Number of Poles		1 pole
Contact Configuration		1 form C (SPDT)
Contact Material		AgNi (Au plating)
Degree of Protection		IP20
Dielectric Strength	Between Contact and Coil	4,000V AC for 1 min
	Between Pole	1,000V AC for 1 min
Vibration Resistance	Operating Extremes	Frequency 10 to 55Hz, Amplitude 0.5mm
	Damage Limits	Amplitude 0.5mm (NO Contact) Amplitude 0.2mm (NC Contact) Amplitude 0.2mm
Shock Resistance	Operating Extremes	NO: 49m/s² (5G) NC: 29.4m/s² (3G)
	Damage Limits	980m/s² (100G)
Mechanical Life (without load)		Over 10,000,000 operations (operation frequency 18,000 operations per hour)
Operating Temperature		-40 to +55°C
Operating Humidity		5 to 85% (without condensation)
Weight (approx.)		30g (RV8H-L)s

PRODUCT DESCRIPTION

IDEC 6mm interface relays now available with a 110-125VAC coil that has a 44VAC dropout voltage and leakage current suppression circuit. The RV8 series Interface relays are ideal for PLC and electronic systems, industrial automation, panel builders, assembly machine applications and other applications that require a high switching capability in a compact space.

KEY FEATURES

- Gold-plated contacts
- Pre-assembled relay and DIN mount socket
- Universal screw terminals (flat and phillips)
- Universal AC/DC socket with built-in surge suppression and green LED
- 6A contact rating
- Lever for easy locking and removal of relay
- Operating temperature of -40°C to +55°C No Freezing
- RoHS compliant

CE c UL us
(when using combination of RV relay and SV socket)

RATINGS

6mm Electromechanical Coil Ratings

Rated Voltage		Rated Current ±15% (mA)*	Circuit AC Resistance ±15% (Ω)*	Circuit DC Resistance ±15% (Ω)*	Operating Characteristics			Power Consumption (W)
					Pickup Voltage	Dropout Voltage	Maximum Allowable Voltage	
AC/DC	110V - 125V	3.4 - 3.9	18333 - 27500	18333 - 27500	90% max	44VAC	110%	0.6W

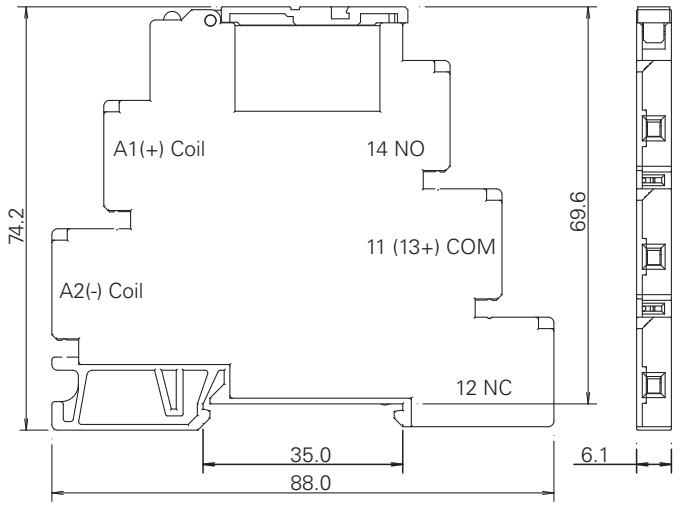
6mm Electromechanical Contact Ratings

Allowable Contact Power	Resistive Load	1500VA, 180W DC
Rated Load	Resistive Load	250V AC 6A, 30V DC 6A
Allowable Switching Current		6A
Allowable Switching Voltage		400V AC, 125V DC
Allowable Switching Power		1500VA, 180W DC
Minimum Applicable Load		6V DC/10mA

DIMENSIONS (mm)

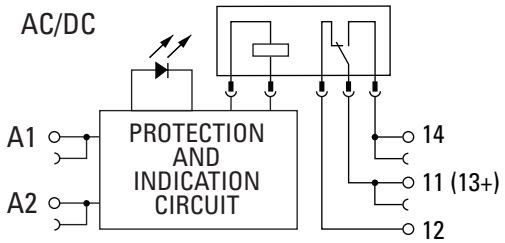
Electromagnetic Relays

RV8H-L Screw Terminal 6mm



INTERNAL CONNECTIONS

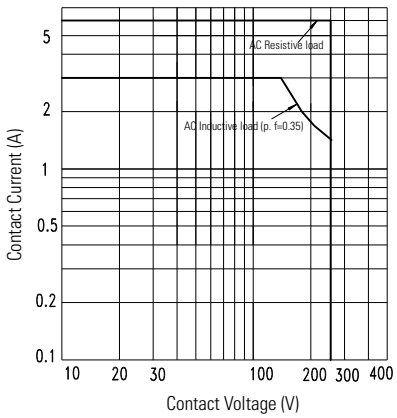
6mm Electromechanical Relay



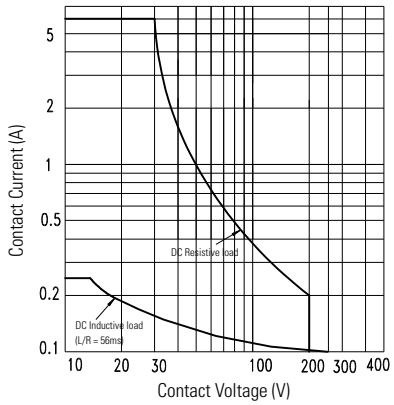
CHARACTERISTICS

RV1H Replacement Electromechanical Relay 6mm

Maximum Switching Power AC

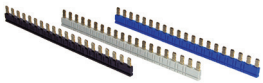
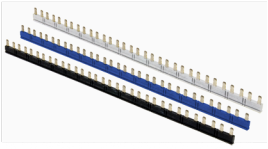


Maximum Switching Power DC



ACCESSORIES

Jumpers, Spacer, and Screwdriver

Item	Color	Part Number
Jumper (20 combs) Note 1, 2, 4 	Black	SV9Z-J20B
	Gray	SV9Z-J20W
	Blue	SV9Z-J20S
Jumper for 14mm Relays (32 combs, with 2-combs per relays, or 16 discrete relays.) Note 1, 2, 4 	Black	SV9Z-J232B
	Gray	SV9Z-J232W
	Blue	SV9Z-J232S
Spacer (circuit separator) Note 3, 4 	-	SV9Z-SA2W

1. Jumper combs come with 20 points, if shorter lengths are needed simply cut off the excess points.
2. Ensure that the total current to the jumper does not exceed the overall rated current (Rated current: 6A).
3. Width of spacer: 2mm
4. When using a cut jumper, please use a spacer on the cut side. For additional information see instruction sheet.

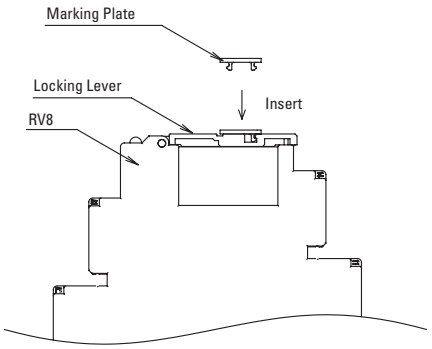
Marking Plates (Blank and Pre-marked)



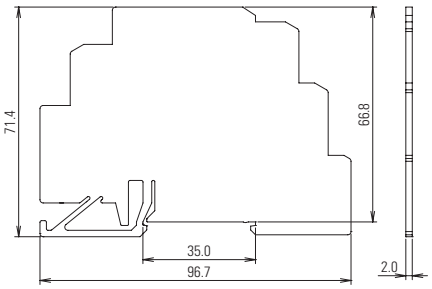
Item	Part Number	Engraving
	SV9Z-PW10	blank
	SV9Z-PW10-①1-10	1-10
	SV9Z-PW10-①11-20	11-20
	SV9Z-PW10-①21-30	21-30
	SV9Z-PW10-①31-40	31-40
	SV9Z-PW10-①41-50	41-50
	SV9Z-PW10-①51-60	51-60
	SV9Z-PW10-①61-70	61-70
	SV9Z-PW10-①71-80	71-80
	SV9Z-PW10-①81-90	81-90
	SV9Z-PW10-①91-100	91-100
	SV9Z-PW10-①A-J	A-J
	SV9Z-PW10-①K-T	K-T
	SV9Z-PW10-①U-Z	U-Z
	SV9Z-PW10-①GROUND	⏚
	SV9Z-PW10-①AC	⏦

1. In place of ① insert orientation code: V=Vertical, H=Horizontal
2. Each unit has 10 pieces (marking plates).

Marking Plate Placement

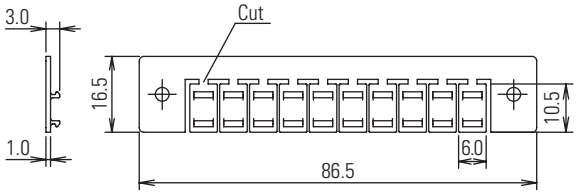


SV9Z-SA2W Spacer



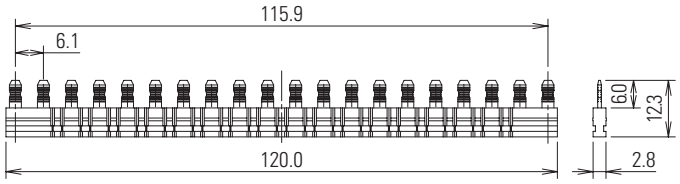
Dimensions (mm)

SV9Z-PW10* Marking Plate



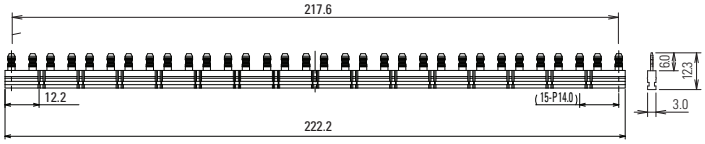
*Available blank or pre-marked.

SV9Z-J20* Jumper



*Available in black, gray and blue.

SV9Z-J232* Jumper



*Available in black, gray and blue.

Note: Drawings are not to scale

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