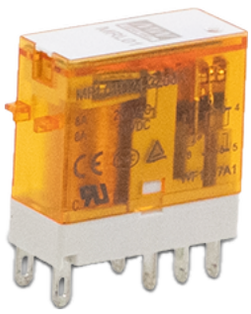
Miniature Intermediate Power Relay

MRL01D24-2Z08A



Features

- High capacity 2 pole:8A
- 2 pole configurations
- 5kV dielectric strength(between coil and contacts)
- Sockets available
- 1year warranty

Applications

- Industrial Automation
- PLC Control Systems
- Power Supply Control and Protection

Model Encoding

MRL01 D 24 – 2Z 08A

- 08A: Rated Current (8A)
- 2Z: Contact arrangement (2 Form C)
- 24: Coil voltage (24V)
- D: Coil voltage form (D : DC)
- MRL01: Type

Miniature Intermediate Power Relay

MRL01D24-2Z08A

SPECIFICATION

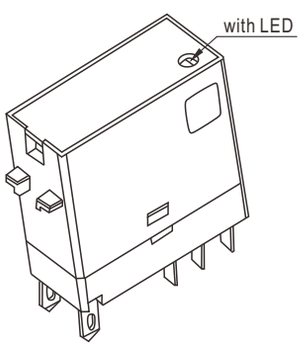
CONTACT DATA			
CONTACT ARRANGEMENT			2Z
CONTACT RESISTANCE		Note.1	100mΩ (1A 6VDC)
CONTACT MATERIAL			AgSnO2 Alloy
CONTACT RATING(Res. load)			2Z:8A 250VAC/30VDC
MAX.SWITCHING VOLTAGE			250VAC/30VDC
MAX.SWITCHING CURRENT			2Z:10A
MAX.SWITCHING POWER			2Z:2500VA/300W
MECHANICAL ENDURANCE			AC : 3 x 10^7 OPS, DC : 5 x 10^7 OPS
ELECTRICAL ENDURANCE			1 x 10^5OPS (2Z : 8A 250VAC/30VDC, Resistive load, Room temp, 1s on 9s off, NO or NC)
CHARACTERISTICS			
INSULATION RESISTANCE			1000MΩ (at 500VDC)
DIELECTRIC STRENGTH	**BETWEEN COIL & CONTACTS**		5000VAC 1min
	BETWEEN OPEN CONTACTS		1000VAC 1min
	BETWEEN CONTACT SETS		3000VAC 1min
OPERATE TIME (at nomi. volt.)			15ms max
RELEASE TIME (at nomi. volt.)			20ms max. (AC : With diode or RC circuit), DC : 10ms max
SHOCK RESISTANCE	**FUNCTIONAL**		98m/s^2
	DESTRUCTIVE		980m/s^2
VIBRATION RESISTANCE			10Hz ~ 55Hz 1.5mm DA
HUMIDITY			5% ~ 85% RH
AMBIENT TEMPERATURE			-40℃ ~ 70℃
TERMINATION			Plug-in
UNIT WEIGHT			Approx. 23.5g(button type), Approx.22g (without button type)
CONSTRUCTION			Dust protected
COIL			
COIL POWER			DC : 0.53W ； AC : 0.9VA
COIL DATA at 23 ℃			
NOMINAL VOLTAGE VDC			24
PICK-UP VOLTAGE VDC			16.8
DROP-OUT VOLTAGE VDC			2.4
MAX. ALLOWABLE VOLTAGE VDC			26.4
COIL RESISTANCE Ω			1080 x (1±10%)
SAFETY APPROVAL RATINGS			
UL/CUL	**2Z**	Note.2	8A 250VAC/30VDC Resistive load 70℃, 10A 250VAC/30VDC Resistive load 70℃
TUV	**2Z**	Note.2	8A 250VAC/30VDC Resistive load 70℃, 10A 250VAC/30VDC Resistive load 70℃

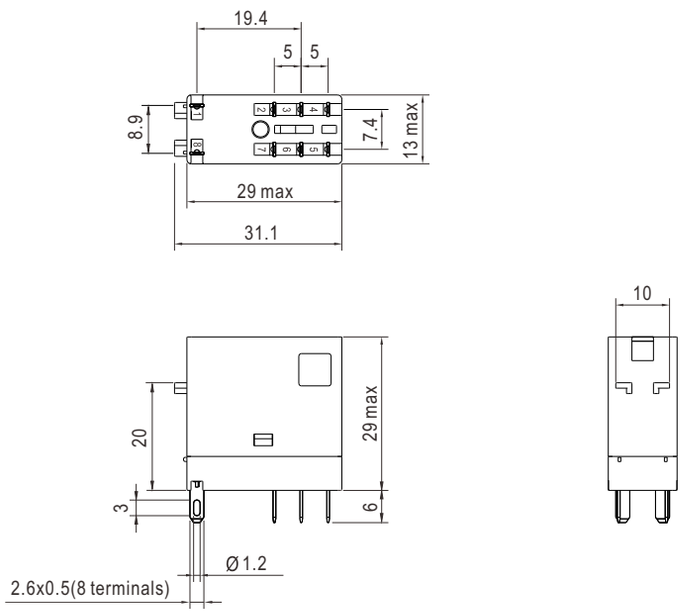
NOTE

1.The data shown above are initial values.
2.Only some typical ratings are listed above. If more details are required, please contact us.
※ Product Liability Disclaimer：For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

■ OUTLINE DIMENSIONS

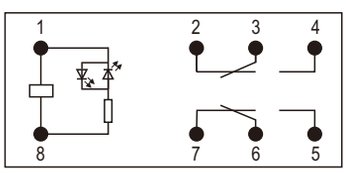
- All dimensions in mm
- In case of no tolerance shown in outline dimension:
  outline dimension ≤1mm,tolerance should be ± 0.2mm
  outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm
  outline dimension >5mm, tolerance should be ±0.4mm
- The tolerance without indicating for PCB layout is always ±0.1mm.





■ WIRING DIAGRAM AND PC BOARD LAYOUT

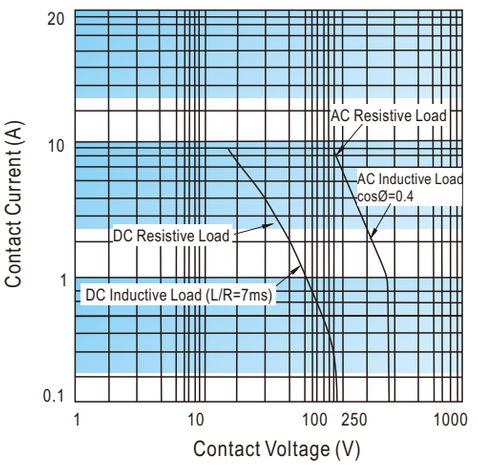
- MRL01D24-2Z08A(with LED)



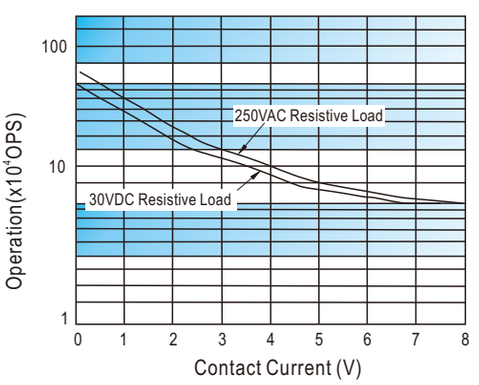
Bottom view

■ CHARACTERISTIC CURVES

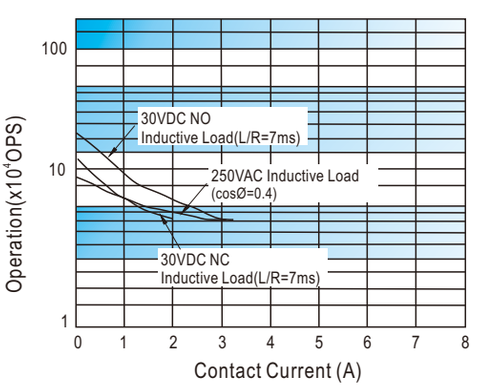
MAXIMUM SWITCHING POWER



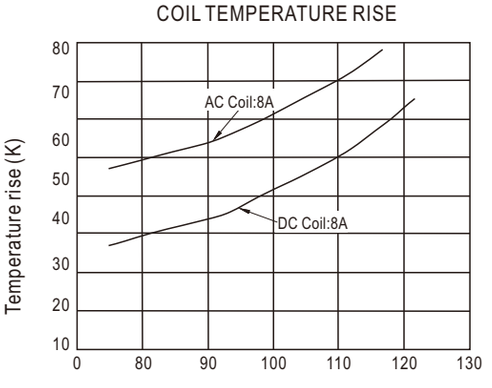
ENDURANCE CURVE



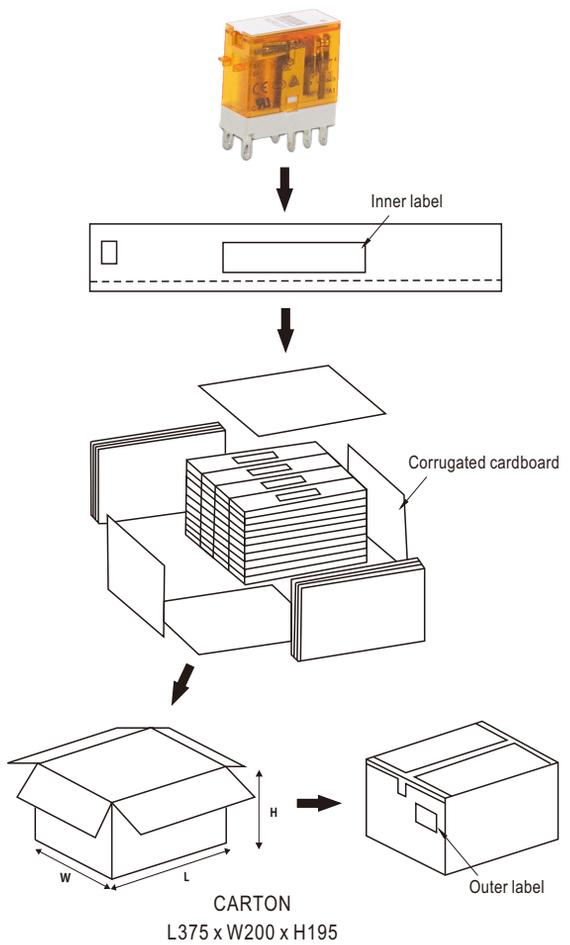
ENDURANCE CURVE



COIL TEMPERATURE RISE



■ Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm  CARTON L375 x W200 x H195	10	270g	400	10.8Kg