

## INDUSTRIAL RELAYS

UL & CUL File #E256619  
TUV File #R 50227685

### FEATURES

- Small size (18.4 x 15.7mm) with 10A switching capability for high density PCB Mounting.
- Surge voltage: 5000V (between coil and contact).

### TYPICAL APPLICATIONS

Home Appliances, Office Equipment, Audio Equipment, Air Conditioner, etc.

### ORDERING INFORMATION

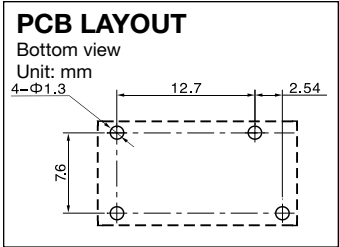
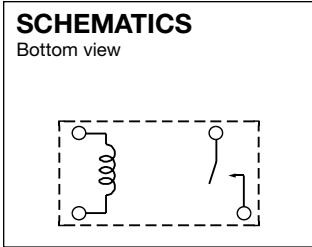
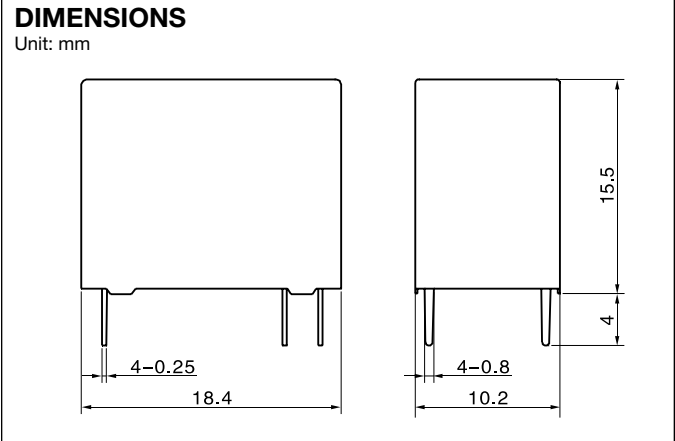
**RZ -S -1 12 D M H 1 -F -XX**  
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

- |  |  |
|--|--|
| <p>(1) <b>Type Designation</b><br/>RZ = RZ Series</p> <p>(2) <b>Protective Construction</b><br/>S = Flux proofed<br/>SH = Sealed type washable</p> <p>(3) <b>Number of Poles</b><br/>1 = 1 pole</p> <p>(4) <b>Coil Voltage (VDC)</b><br/>03, 05, 06, 09, 12, 18, 24</p> <p>(5) <b>Coil Power</b><br/>D = 0.45W</p> <p>(6) <b>Contact Form</b><br/>M = Form A</p> | <p>(7) <b>Load Capacity</b><br/>H = 10A</p> <p>(8) <b>Contact Material</b><br/>Nil = AgSnO2<br/>1 = AgCdO</p> <p>(9) <b>Insulation System</b><br/>Nil = Standard<br/>B = Class B <sup>(1)</sup><br/>F = Class F <sup>(2)</sup></p> <p>(10) <b>Special Parameter</b><br/>Nil = Standard type<br/>Letter or Number = Special Requirement</p> |
|--|--|

**Note 1:** Heat resistivity = -40°C to +130°C.  
**Note 2:** Heat resistivity = -40°C to +155°C.

### SAFETY APPROVAL RATINGS

Approval File Number	TUV R50182350	UL/CUL E256619	
RZ	10A 250VAC	<b>RZ-D</b>	<b>RZ-L</b>
		10A 125VAC/250VAC: Resistive 5A 277VAC: Resistive 10A 120VAC: Resistive 5A 250VAC: Resistive 5A 28VDC: Resistive 5A 250VAC: General Use 1.5A 250VAC: General Use 1/3HP 240VAC TV-5: 120VAC Pilot Duty: 240VA, 240VAC	3A 277VAC: Resistive 5A 120VAC: Resistive 3A 250VAC: Resistive 3A 28VDC: Resistive 3A 250VAC: General Use 1A 250VAC: General Use 1/4HP 240VAC TV-3: 120VAC Pilot Duty: 120VA, 240VAC



Unless otherwise specified:  
 If dimension < 1mm, tolerance: ± 0.2mm;  
 If dimension 1~5mm, tolerance: ± 0.3mm;  
 If dimension > 5mm, tolerance: ± 0.4mm.  
 Note: 1. Extended terminal dimension is dimension before soldering.  
 2. Tolerance of P.C.B. layout: ± 0.1mm.



## CHARACTERISTIC DATA

Contact Material	AgSnO2 (Silver Alloy)	
Initial contact resistance (@ 6VDC 1A)	50mΩ Max.	
Operate time (@ nominal voltage)	10msec. Max.	
Release Time (@ nominal voltage)	5msec. Max.	
Initial insulation resistance	1000M Ω Min. (DC500V)	
Initial dielectric strength	Between open contacts: AC1000V, 50/60Hz 1 Min.	
	Between coil and contact: AC4000V, 50/60Hz 1Min.	
Vibration Resistance	Functional	10 ~ 55Hz @ double amplitude of 1.5mm
	Destructive	10 ~ 55Hz @ double amplitude of 1.5mm
Shock Resistance	Functional	10G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (@10,800 ops./h)	10,000,000
	Electrical (@1,800 ops./h)	100,000
Ambient Temperature	-40°C to +105°C (no condensation)	
Unit Weight	Approximately 5.7g	

## CONTACT CAPACITY

Model	Nominal Switching Capacity (res. load)	Max. Switching Current	Max. Switching Voltage	Max. Switching Power
RZ-DM	10A 250VAC	10A	277VAC	2500VA

## COIL DATA (AT 20°C)

Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ± 10% (Ω)	Max. Allowable Voltage	Pick-up Voltage (Max.)	Drop-Out Voltage (VDC)	Nominal Operating Power
3	150.00	20	130% of Nominal Voltage	75% of Nominal Voltage	5% of Nominal Voltage	Approx. 0.45W
5	90.00	55				
6	75.00	80				
9	50.00	180				
12	37.50	320				
18	25.00	720				
24	18.75	1280				

**DATE CODE DEFINITION**

**R X X X**

- LOT NUMBER: Starts from A.
- Year: 0-9 indicates year 2010 to 2019.
- Month: 1 through 9 represents the first to the ninth month.
- RoHS

## CHARACTERISTIC CURVES

