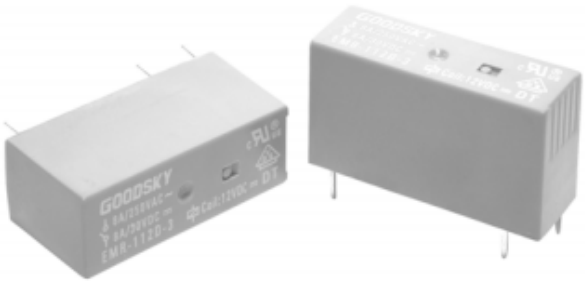
EMR



Main Feature

1. 1 C/O & 1 N/O Contact.
2. 4KV / 8 mm coil-contact.
3. Pinning: 3.2 and 5.0 mm.
4. Protection class II.
5. Especially suitable for resistive and inductive loads on N/O and N/C contacts.

Application

Heating control, interface technology, domestic appliances, and times, temperature control.

Contact Rating

- Nominal Load(Resistive Load Cos φ =1)
  - Contact Capacity ..... 8A at 250VAC.
    5A at 30 VDC.
  - Max. Allowable Current ..... 8A.
  - Max. Allowable Voltage ..... AC 380V, DC 120V.
  - Max. Allowable Power Force
  - EMR 2,000VA, 180W
  - Min. Switching Load ..... DC 5V, 10mA.
- Contact Material ..... Ag Alloy.
- Contact Form..... SPDT & SPST

Performance (at Initial Value)

- Contact Resistance ..... 100 mΩ Max.@1A,6VDC
- Operate Time..... 7 mSec. Max.
- Release Time ..... 3 mSec. Max.
- Dielectric Strength:
  - Between Coil & Contact ..... 4,000VAC at 50/60 Hz for one minute.
  - Between Contacts ..... 1,000VAC at 50/60 Hz for one minute.
- Surge Resistance..... 10,000V (between coil & Contact 1.2x50μSec.)
- Insulation Resistance ..... 1,000 MegaΩ Min. at 500VDC.
- Max. On/Off Switching:
  - Electrical..... 6 Ops per Minute
  - Mechanical ..... 600Ops per Minute.
- Temperature Range..... -40～85°C
- Humidity Range..... 45～85% RH.
- Coil Temperature Rise..... 40°C Max.
- Vibration :
  - Endurance ..... 10 to 55 Hz dual amplitude width 1.5mm.
  - Error Operation..... 10 to 55 Hz dual amplitude width 1.5mm.
- Shock:
  - Endurance ..... 1,000m/S^2 Min.
  - Error Operation..... 100 m/S^2 Min.
- Life Expectancy:
  - Mechanical ..... 10^7 Operations at No load condition.
  - Electrical..... 10^5 Operations at Rated Resistive Load.
- Weight ..... about 11.0 g.

Safety Standard & Its File Number

- C-UL ..... In Process
- VDE ..... In Process

Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
EMR	5	44.2	113	Abt. 0.22	EMR-D-3 80% Maximum EMR-DM-5 75% Maximum	5% Minimum	235%
	6	36.6	164				
	9	24.4	368				
	12	18.3	650				
	18	12.2	1,475				
	24	9.2	2,620				
	48	5.2	9,210				
	60	3.7	16,364				

Ordering Information

EMR - 1 12 D M - 3 G

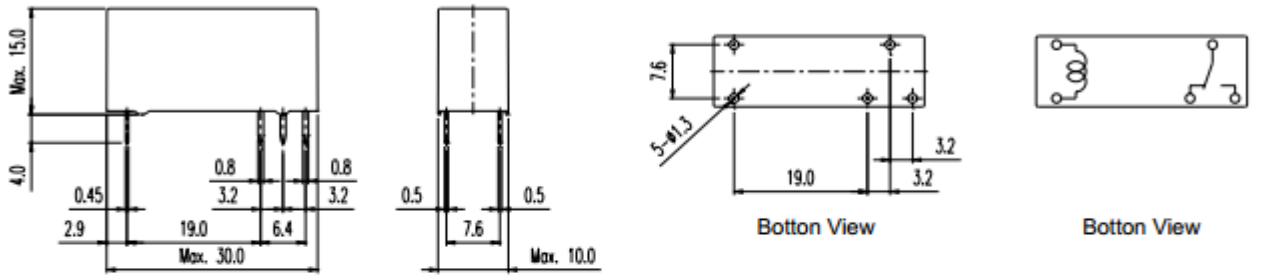
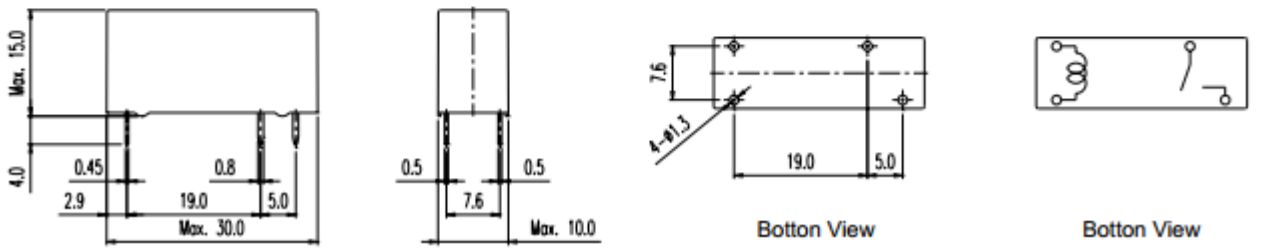
Contact Material:	**Nil**: AgNi **G**: AgNi, Gilded **O**: AgNi, Au Plated **N**: $AgSnO_2$ **S**: $AgSnO_2$, Gilded
Pinning Dimension:	**3**: Pinning 3.2mm **5**: Pinning 5.0mm
Contact Form:	**Nil**: One Form C **M**: One Form A
Coil Type:	**D**: Standard DC Coil
Coil Voltage:	**05**: 5V, **06**: 6V, **09**: 9V, **12**: 12V **18**: 18V, **24**: 24V, **48**: 48V, **60**: 60V
Number of Pole:	**1**: One Pole
Type:	**EMR**

Classification

Model	EMR	
Coil Sensitivity	Standard DC Coil	
Contact Form	1C	1A
Plastic Sealed Type	EMR - 1□□D - 3□	EMR - 1□□DM - 5□

Dimension

EMR-D-3



EMR-DM-5