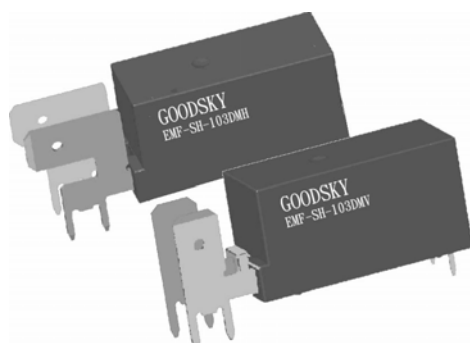




Main Feature

1. EMF Series Relays are designed for switching capacity by 16A to comply with industrial control system use.
2. Compatible fixed terminal to match corresponding power relay.
3. Simple magnetic circuit to meet low cost demand.
4. Standard type contact form SPST is available for customer's preference.
5. Operating ambient temperature range from -40°C to 105°C.

Contact Rating



Load Type	EMF (DM)	EMF (DB)
Rated Load (Resistive)	18A 250VAC	16A 250VAC
	18A 30VDC	16A 30VDC
Rated Carrying Current	18A	16A
Max. Allowable Voltage	AC 250V	AC 250V
	DC 30V	DC 30V
Max. Allowable Current	20A	20A
Max. Allowable Power Force	4000VA	4000VA
	480W	480W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	SPST

Application

Air Conditioning, Electric Heating, Microwave Ovens, Power Supplies...etc.

Performance (at Initial Value)

- Contact Resistance 100mΩ Max. @1A,6VDC
- Operate Time 12 mSec. Max.
- Release Time 8 mSec. Max.
- Dielectric Strength:
Between Coil & Contact 5,000VAC at 50/60 Hz
for one minute.
Between Contacts 1,000VAC at 50/60 Hz
for one minute.
- Insulation Resistance 100MΩ Min. at
500VDC.
- Max. On/Off Switching:
Electrical 6 Cycles per Minute.
Mechanical 120 Cycles per Minute.

- Temperature Range -40~105°C.
- Humidity Range 45~85% RH.
- Coil Temperature Rise 35°C Max.
- Vibration:
Endurance 10 to 55 Hz dual
amplitude width 1.5 mm
Error Operation 10 to 55 Hz dual
amplitude width 1.5mm.
- Shock:
Endurance 1,000 m/S² .
Error Operation 100 m/S² .
- Life Expectancy:
Electrical 10⁵ Operations at
Rated Resistive Load.
Mechanical 3x10⁷ Operations at
No Load condition.
- Weight About 14 g.

Safety Standard & Its File Number

- VDE 40009648

Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage(VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
EMF	3	133	22.5	Abt. 0.4	70% Maximum	5% Minimum	130%
	5	79	63				
	6	67	90				
	9	44	203				
	12	33	360				
	15	26	562				
	18	22	810				
	24	17	1,440				
	48	8	5,760				
	60	7	9,000				

Ordering Information

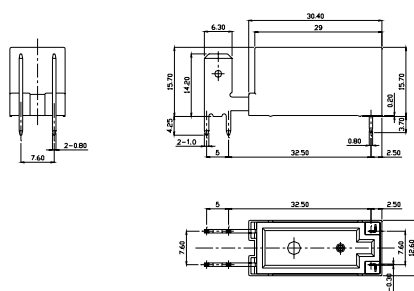
EMF	- SH -	1	03	D	M	H	
							Terminal Type:
							H : Horizontal Bring Terminal
							V : Vertical Bring Terminal
							Contact Form:
							M : One Form A
							B : One Form B
							Coil Type:
							D : Standard DC Coil
							Coil Voltage:
							03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V,
							15: 15, 18: 18V, 24: 24V, 48: 48V, 60: 60V
							Number of Pole:
							1: One Pole
							Type of Sealing:
							SS: RT II Flux Proofed Relays
							SH: RT III Wash Tight Relays
							Type:
							EMF

Classification

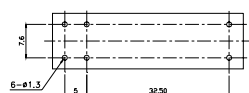
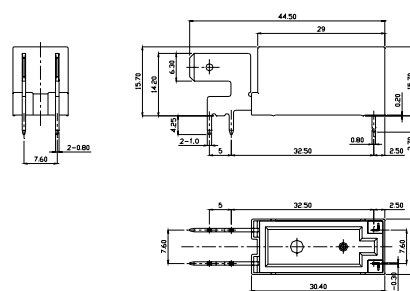
Model	EMF	
Coil Sensitivity	Standard DC Coil	
Contact Form	1A	1B
Flow Solder Type	EMF-SS-1□□DM□	EMF-SS-1□□DB□
Plastic Sealed Type	EMF-SH-1□□DM□	EMF-SH-1□□DB□

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

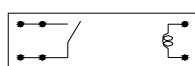
EMF-SS/SH-V



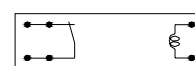
EMF-SS/SH-H



BOTTOM VIEW



(1A)



(1B)

BOTTOM VIEW