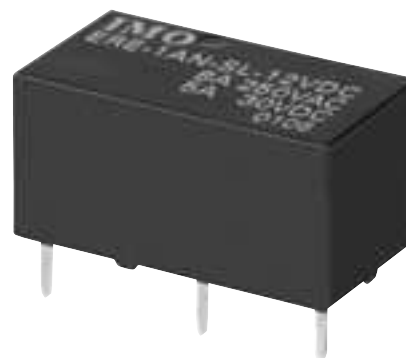


Subminiature Intermediate Power Relay ERE



- Latching types available
- High sensitivity
- High switching capacity
1A: 8A 250VAC; 2A, 1X(1A + 1B): 5A 250VAC
- 1 Form A, 2 Form A and 1X(1A+1B) contact arrangement
- RoHS compliant
- Outline Dimensions: 20.2 x 11.0 x 10.4mm



Options and ordering codes

ERE		TN - 1A		N - S		L - 24VDC	
Coil Type						Coil Voltage	
Non-Latching	NIL					L	RoHS Compliant
Single Coil Latching	SN						
Double Coil Latching	TN						
		Contact Arrangement		Sealing			
		SPNO	1A	S	Sealed		
		DPNO	2A	F	Flux Tight		
		1XN/O, 1XN/C	1X	Contact Material			
				N	AgNi		
				N1	AgNi + Au plated		

Contact Data

Contact arrangement	1A,	2A, 1X(1A+1B)
Initial material	AgNi:	50mΩ (at 1A 6VDC)
resistance Max.	AgNi + Au:	30mΩ (at 1A 6VDC)
Contact material	AgNi, AgNi + Au plated	
Contact Rating	8A 250VAC 5A 30VDC	5A 250VAC 5A 30VDC
Max. switching voltage	380VAC / 125VDC	
Max. switching current	8A	5A
Max. switching power	2000VA/150W	1250VA/150W
Mechanical Life	1x10 ⁷ OPS	
Electrical Life	1X10 ⁵ OPS	

Coil Data

Single side stable (300mW) at 20°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance ± 10% Ω	Max.allowable Voltage VDC (at 70°C)
3	2.4	0.3	30 ± 10%	3.9
5	4.0	0.5	83 ± 10%	6.5
6	4.8	0.6	120 ± 10%	7.8
9	7.2	0.9	270 ± 10%	11.7
12	9.6	1.2	480 ± 10%	15.6
24	19.2	2.4	1920 ± 10%	31.2

Characteristics

Initial Insulation Resistance		1000MΩ (at 500VDC)
Dielectric Strength	Between coil & contact	3000VAC 1min.
	Between open contacts	1000VAC 1min.
	Between contacts sets	2000VAC 1min.
Operate time (at nomi. Volt)	Max. 10ms	
Release time (at nomi. Volt)	Max. 5ms	
Set time (latching)	Max. 10ms	
Reset time (latching)	Max. 10ms	
Shock resistance	Functional	196m/s ² (20g)
	Destructive	980m/s ² (100g)
Vibration resistance		10 to 55Hz 2.0mm
Humidity		5 to 85% RH
Ambient temperature		-40°C to +70°C
Termination		PCB
Unit Weight		Approx 4.7g
Construction		Sealed IP67, Flux proof

Coil

Coil power	Single side stable	300mW
	1 coil latching	150mW
	2 coils latching	300mW

Subminiature Intermediate Power Relay ERE



1 coil latching (150mW) at 20°C

Nominal Voltage VDC	Set/Reset Voltage VDC	Coil Resistance $\pm 10\% \Omega$	Max. allowable Voltage VDC (at 70°C)
3	2.4	$60 \pm 10\%$	3.9
5	4.0	$167 \pm 10\%$	6.5
6	4.8	$240 \pm 10\%$	7.8
9	7.2	$540 \pm 10\%$	11.7
12	9.6	$960 \pm 10\%$	15.6
24	19.2	$3840 \pm 10\%$	31.2

2 coils latching (300mW) at 20°C

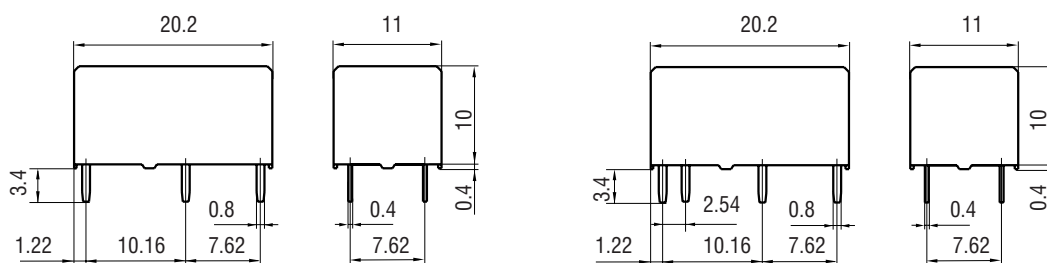
Nominal Voltage VDC	Set/Reset Voltage VDC	Coil Resistance $\pm 10\% \Omega$	Max. allowable Voltage VDC (at 70°C)
3	2.4	$30 \pm 10\%$	3.9
5	4.0	$83 \pm 10\%$	6.5
6	4.8	$120 \pm 10\%$	7.8
9	7.2	$270 \pm 10\%$	11.7
12	9.6	$480 \pm 10\%$	15.6
24	19.2	$1920 \pm 10\%$	31.2

Safety Approval Ratings

UL/CUR	1 Form A	8A 250VAC 5A 30VDC 1/6HP 250VAC
	2 Form A	5A 250VAC 5A 30VDC 1/10HP 250VAC
	1A + 1B:	5A 250VAC 5A 30VDC 1/6HP 250VAC

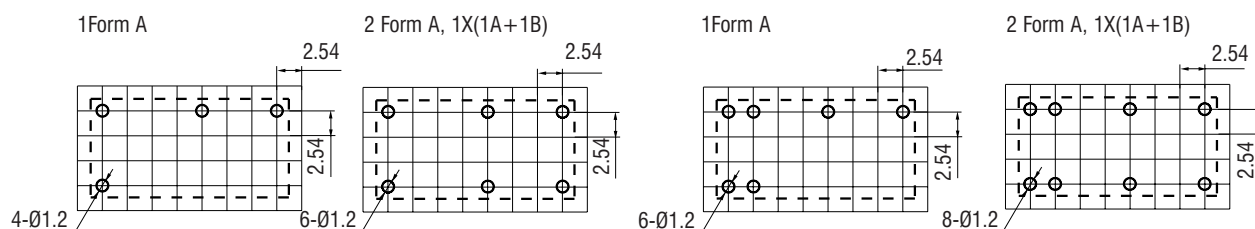
Outline dimensions (mm)

Wiring diagram and PC Board layout

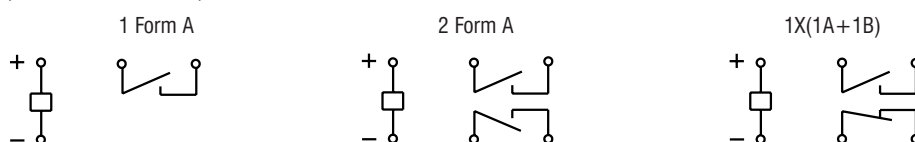


Single side stable & 1 coil latching

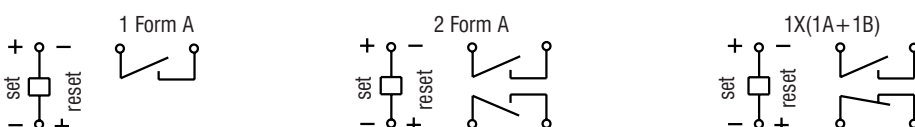
2 coils latching



Single side stable (De-energised condition)



1 coil latching (Reset condition)



2 coils latching (Reset condition)

