SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182E-MATL: szss20@163.com

### **ET2 SERIES**

### **FEATURES**

- · Twin relay for motor and selenoid reversible control
- 50% less relay volume than conventional relay (EP2 Series)
- · 75% less relay space than conventional relay (EP2 Series)
- 70% less relay height than conventional relay (EP2 Sereis)
- 50% less relay weight than conventional relay (EP2 Sereis)
- · Contact switching current of 25A max.
- · High performance and productivity by unique symmetrical structure
- · Flux tight housing
- · Delivered in stick-tube for automatic insertion machine
- · Washable type available

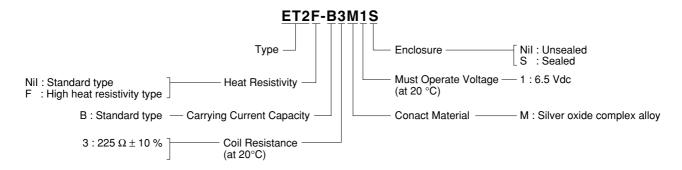


### PART NUMBERS AND COIL RATINGS

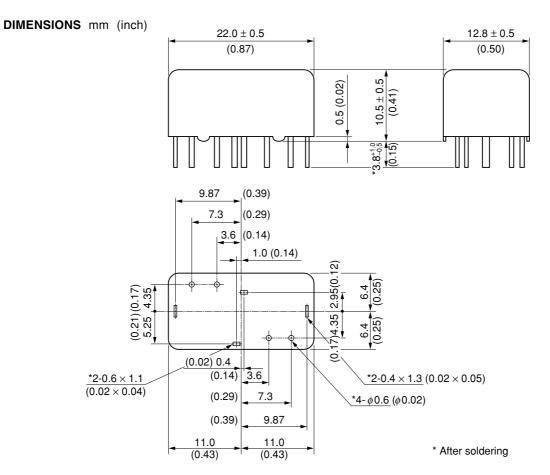
At 20°C (68°F)

ſ	Part Number	Nominal	Coil	Nominal	Must Operate	Must Release	Nominal
l		Voltage	Resistance	Current	Voltage	Voltage	Operate Power
		(Vdc)	(Ω±10%)	(mA)	(Vdc)	(Vdc)	(W)
Γ	ET2-B3M1S	12	225	53.3	6.5	0.9	0.64

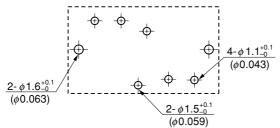
### PART NUMBER SYSTEM

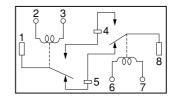


ILC/TOKIN AUTOMOTIVE RELAYS
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# PCB PAD LAYOUT and SCHEMATICS (bottom view) mm (inch)





## **SPECIFICATIONS**

At 20°C (68°F)

Items		Specification			
		ET2	ET2F		
Contact Form		1 form c × 2 [H Bridge Type]			
Contact Material		Silver oxide complex alloy			
Contact Resistance		4 m $\Omega$ typical (measured at 7 A) initial			
Contact Switching Voltage		16 Vdc max. 5 Vdc min.			
Contact Switching Current		25 A max. (at 16 Vdc)			
Contact Carrying Current		30 A (2 minutes max. 12 Vdc at 20°C)	35 A (2 minutes max. 12 Vdc at 20°C)		
		25 A (2 minutes max. 12 Vdc at 85°C)	30 A (2 minutes max. 12 Vdc at 85°C)		
			25 A (2 minutes max. 12 Vdc at 125°C)		
Operate Time		2.5 ms typical (at nominal voltage) initial			
Release Time		3.0 ms typical (at nominal voltage. with diode) initial			
Nominal Operate Power		640 mW			
Insulation Resistance		100 MΩ min. at 500 Vdc			
Breakdown Voltage		500 Vac min. for 1 minute			
Shock Resistance		98 m/s <sup>2</sup> min. [misoperating]			
Vibration Resistance		10 to 300 Hz, 43 m/s <sup>2</sup> min. [misoperating]			
Ambient Temperature		-40°C to +85°C (-40°F to +185°F)	-40°C to +125°C (-40°F to +257°F)		
Coil Temperature Rise		70°C/W (contact carrying current 0 A)			
Life Expectancy	Mechanical	$1 \times 10^6$ operations			
	Electrical	$1 \times 10^5$ operations (at 14 Vdc, Motor Loa	ad 20 A/3 A)		
Weight		Approx. 7.5 g			

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personal electronic equipment and industrial robots

Special: Transportation equipment (automobiles, trains, ships, etc.), traffic control systems,

anti-disaster systems, anti-crime systems, safety equipment and medical

equipment (not specifically designed for life support)

Specific: Aircrafts, aerospace equipment, submersible repeaters, nuclear reactor control

systems, life support systems or medical equipment for life support, etc.

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