10 AMP MINIATURE POWER RELAY

FEATURES

- 10 Amp switching capability
- 4 kV dielectric strength
- Epoxy sealed version available
- UL, CUR file E44211
- VDE file 134326



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)			
Ratings	Resistive load:			
	Max. switched power: 150 W or 1250 VA (N.O.) 90 W or 750 VA (N.C.)			
	Max. switched current: 10 A (N.O.), 3 A (N.C.) Max. switched voltage: 150 VDC* or 400 VAC			
	* Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.			
Rated Load UL, CUR	10 A at 125 VAC general use, 100K cycles [1] [2]			
(N.O.)	10 A at 277 VAC cos phi 0.4, 10K cycles [1] [2] 5 A at 250 VAC general use, 100K cycles [1] [2] 5 A at 30 VDC [1] [2]			
	¹ / ₁₀ HP at 125 VAC, 100K cycles [1] [2] ¹ / ₆ HP at 250 VAC, 100K cycles [1] [2]			
UL, CUR (N.C.)	3 A at 250 VAC general use, 100 K cycles [1] [2] 3 A at 30 VDC resistive, 100K cycles [1] [2]			
VDE	Form A N.O.: 5 A 250 VAC [1] [2] Form C N.O.: 5 A 250 VAC [1] [2] Form C N.C.: 3 A 250 VAC [1] [2]			
Material	Silver cadmium oxide [1] or silver nickel [2]. Gold plating available.			
Resistance	<100 milliohms initially			

COIL

Power At Pickup Voltage (typical) Max. Continuous Dissipation Temperature Rise	253 mW (Standard Coil) 113 mW (Sensitive Coil) 1.1 W at 20°C (68°F) 40°C (72°F) standard coil 20°C (36°F) sensitive coil
Temperature	Max. 105°C (221°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 10 A 250 VAC Res.		
Operate Time (max.)	8 ms at nominal coil voltage		
Release Time (max.)	5 ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	1000 Vrms contact to contact 4000 Vrms contact to coil		
Insulation Resistance	1 x 109 ohms minimum at 500 VDC		
Dropout	Greater than 5% of nominal coil voltage		
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) standard -40°C (-40°F) to 85°C (185°F) sensitive		
Storage	-40°C (-40°F) to 105°C (221°F)		
Vibration	0.062" (1.5 mm) DA at 10-55 Hz		
Shock			
Operating	10 g for 11 ms 1/2 sine pulse		
Mechanical	(no contact opening >100 usec) 100 g for 11 ms 1/2 sine pulse		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy, P.C.		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Max. Solvent Temp.	80°C (176°F)		
Max. Immersion Time	30 seconds		
Weight	7 grams		
Packing unit in pcs	100 per styropor tray / 1000 per carton box		

NOTES

- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Specifications subject to change without notice.

ZETTLER electronics GmbH

RELAY ORDERING DATA

COIL SPECIFICATI				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER*
3	2.3	4.7	20	AZ940-1C-3D
5	3.8	7.7	55	AZ940-1C-5D
6	4.5	9.4	80	AZ940-1C-6D
9	6.8	14.0	180	AZ940-1C-9D
12	9.0	18.7	320	AZ940-1C-12D
18	13.5	28.1	720	AZ940-1C-18D
24	18.0	37.5	1,280	AZ940-1C-24D

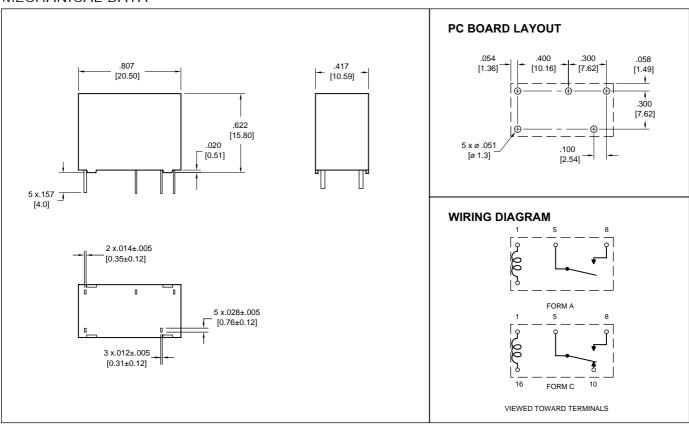
^{*} Substitute "1A" for "1C" to indicate 1 Form A contacts. Add suffix "B" to "1A" or "1C" for silver nickel contacts. Add suffix "E" at the end of order number for sealed version. Add suffix "G" for gold plated contacts.

COIL SPECIFICAT				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER**
3	2.3	7.0	45	AZ940-1A-3DS
5	3.8	11.7	125	AZ940-1A-5DS
6	4.5	14.0	180	AZ940-1A-6DS
9	6.8	20.9	400	AZ940-1A-9DS
12	9.0	28.1	720	AZ940-1A-12DS
18	13.5	41.9	1,600	AZ940-1A-18DS
24	18.0	55.5	2,800	AZ940-1A-24DS

^{**} Add suffix "B" to "1A" for silver nickel contacts.

Add suffix "E" at the end of order number for sealed version. Add suffix "G" for gold plated contacts.

MECHANICAL DATA



Tel. +49 89 800 97 0

Fax +49 89 800 97 200

Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

ZETTLER electronics GmbH