

MINIATURE POWER RELAY

FEATURES

- Dielectric strength 4000 Vrms coil to contact
- Isolation spacing greater than 8 mm
- Approvals/Standards include: UL, VDE, IEC, SEMKO, CEE
- Double pole — Forms A, B, C, available
- 10 Amp switching
- SLIMPAK™ version saves board space
- Epoxy sealed version for automatic wave soldering and cleaning
- UL, CUR file E44211; VDE 4120–4940–4002/A1



CONTACTS

Arrangement	DPDT (2 Form C)
Ratings	Resistive load: Max. switched power: 300 W or 2770 VA Max. switched current: 10 A, 51 A for 2 ms Max. switched voltage: 150* VDC or 400 VAC UL Rating: 10 A at 30 VDC or 277 VAC 1/8 HP 120 VAC motor load *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Material	Silver cadmium oxide
Resistance	< 30 milliohms initially (at rated current, voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	Standard coil: 337 mW Sensitive coil: 250 mW
Max. Continuous Dissipation	1.9 W at 20°C (68°F) ambient 1.4 W at 40°C (104°F) ambient
Temperature Rise	Standard: 40°C (72°F) at nominal coil voltage Sensitive: 32°C (58°F) at nominal coil voltage
Temperature	Max. 110°C (230°F)

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Unsealed relays should not be dip cleaned.
4. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy	Minimum operations
Mechanical	30 million
Electrical	1 x 10 ⁵ at 10 A 30 VDC 1 x 10 ⁵ at 10 A 115 VAC
Operate Time (typical)	7 ms at nominal coil voltage
Release Time (typical)	2 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	4000 Vrms contacts to coil 2500 Vrms contact to contact 1000 Vrms between open contacts
Insulation Resistance	10,000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage Standard: -55°C (-67°F) to 70°C (158°F) Sensitive: -55°C (-67°F) to 80°C (176°F)
Storage	Both: -55°C (-67°F) to 110°C (230°F)
Vibration	0.062" DA at 10–55 Hz
Shock	20 g
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	20 grams



RELAY ORDERING DATA

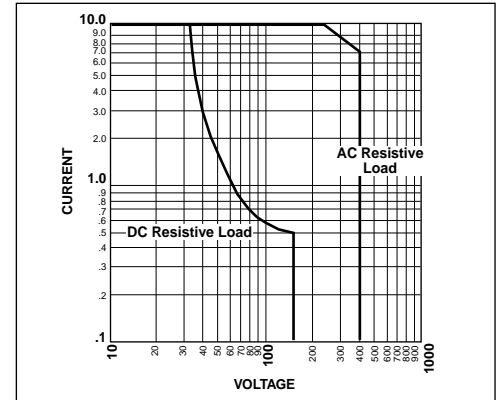
STANDARD RELAYS: 2 Form C (DPDT) Contacts					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC		
5	8	38	3.5	AZ732-125-2	AZ2732-125-2
6	10	58	4.2	AZ732-112-2	AZ2732-112-2
12	19	215	8.4	AZ732-08-2	AZ2732-08-2
24	35	740	16.8	AZ732-560-2	AZ2732-560-2
48	74	3,200	33.6	AZ732-04-2	AZ2732-04-2
SENSITIVE RELAYS: 2 Form C (DPDT) Contacts					
5	9	47	3.5	AZ732-118-52	AZ2732-118-52
6	11	70	4.2	AZ732-509-52	AZ2732-509-52
12	21	270	8.4	AZ732-521-52	AZ2732-521-52
24	43	1,100	16.8	AZ732-053-52	AZ2732-053-52
48	86	4,400	33.6	AZ732-510-52	AZ2732-510-52

* Substitute "4 or 54," "6 or 56" in place of "2 or 52" to indicate 2 Form A and 2 Form B respectively.

HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER
Socket	ST484-U1
Retaining Clip	ST482-2

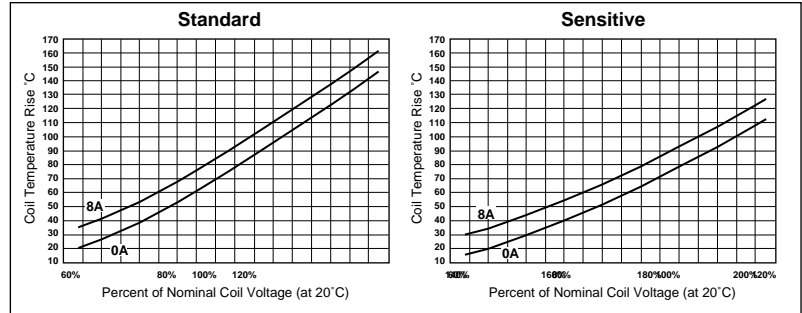
Maximum Switching Capacity



INTERNATIONAL APPROVALS

Passed International Electrical Code IEC 380	
Germany	VDE 0860/8.81 paragraphs 10, 14 VDE 0806/8.81 paragraphs 7, 11, 15, 16, 29 VDE 0631/9.77 paragraphs 9, 12, 14 VDE 0730/T.1/3.72 paragraph 22 VDE 0435/9.72 (with production monitoring)
U.S.A.	UL File E44211

Coil Temperature Rise



MECHANICAL DATA

* SEALED VERSION STAND OFF .025 (0.6)

PC BOARD LAYOUT

Viewed toward terminals

HARDWARE

WIRING DIAGRAMS

2 FORM C (DPDT)

2 FORM B (DPST-NC)

2 FORM A (DPST-NO)

Viewed toward terminals

PC BOARD LAYOUT

Viewed toward terminals

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



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