AZ692/AZ693

10 AMP MINIATURE POWER RELAY

FEATURES

- Isolation spacing greater than 8 mm
- Dielectric strength 4000 Vrms coil to contact
- Approvals/Standards include UL, VDE, IEC
- Single pole — Forms A, B, C available
- 10 Amp switching
- Life expectancy to 30 million operations
- Epoxy sealed version for automatic wave soldering and cleaning
- UL, CUR file E44211; VDE 40018299

CONTACTS

Arrangement	SPDT (1 Form C) SPST (1 Form A and 1 Form B)
Ratings	Resistive load: Max. switched power: 300 W or 2500 VA Max. switched current: 10 A; 64 A for 2 ms Max. switched voltage: 150* VDC or 380 VAC **UL Rating** 10 A at 24 VDC or 115 VAC 1/4 HP 120 VAC motor load 10 A at 250 VAC B 300 pilot duty * If switching voltage is greater than 30 VDC, 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: 234 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: 26°C (47°F) at nominal coil voltage
Temperature	Max. 110°C (230°F)

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 30 million operations 1 x 10^5 at 10 A, 30 VDC or 115 VAC 2 x 10^5 at 8 A, 250 VAC
Operate Time (typical)	6 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 coil 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** **Storage**	At nominal coil voltage Standard: -55°C (-67°F) to 70°C (158°F) Sensitive: -55°C (-67°F) to 80°C (176°F) 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	17 grams

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.

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AZ692/AZ693

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

RELAY ORDERING DATA: Single Pole .138 Spacing

STANDARD RELAYS: 1 Form C (SPDT)

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	Unsealed	Sealed
5	8	38	3.5	AZ692–125–2	AZ2692–125–2
6	10	58	4.2	AZ692–112–2	AZ2692–112–2
12	19	215	8.4	AZ692–08–2	AZ2692–08–2
24	35	740	16.8	AZ692–560–2	AZ2692–560–2
48	74	3,200	33.6	AZ692–04–2	AZ2692–04–2

SENSITIVE RELAYS: 1 Form C (SPDT)

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	Unsealed	Sealed
5	8	47	3.5	AZ692–118–52	AZ2692–118–52
6	10	80	4.2	AZ692–010–52	AZ2692–010–52
12	21	330	8.4	AZ692–071–52	AZ2692–071–52
24	41	1,200	16.8	AZ692–052–52	AZ2692–052–52
48	80	4,700	33.6	AZ692–518–52	AZ2692–518–52

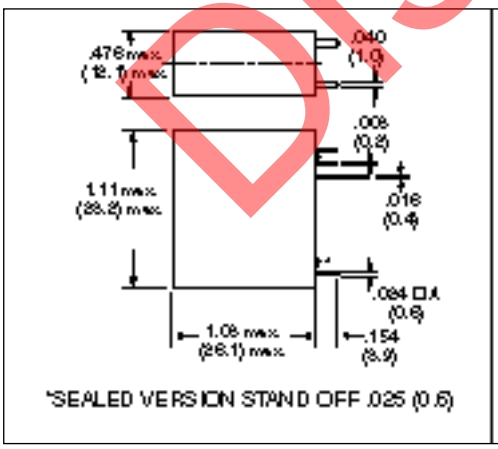
*Substitute “4 or 54,” “6 or 56” in place of “2 or 52” to indicate 1 Form A and 1 Form B respectively.

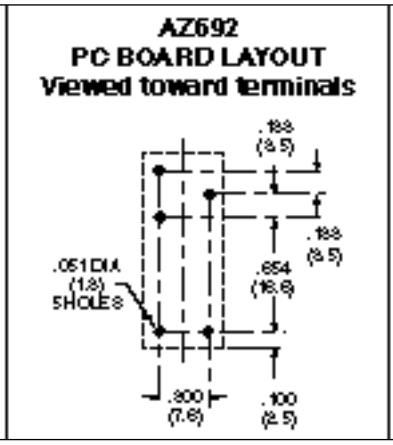
HARDWARE ORDERING DATA — AZ692†

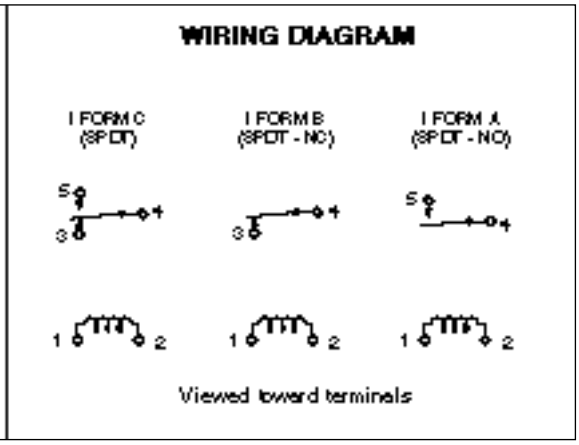
DESCRIPTION	ORDER NUMBER	DESCRIPTION	ORDER NUMBER
Socket	ST482–U1	Retainer	ST482–2

† See following pages for diagram

MECHANICAL DATA







Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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AZ692/AZ693

RELAY ORDERING DATA: Single Pole .100 Spacing

STANDARD RELAYS: 1 Form C (SPDT)					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	Unsealed	Sealed
5	8	38	3.5	AZ693–125–2	AZ2693–125–2
6	10	58	4.2	AZ693–112–2	AZ2693–112–2
12	19	215	8.4	AZ693–08–2	AZ2693–08–2
24	35	740	16.8	AZ693–560–2	AZ2693–560–2
48	74	3,200	33.6	AZ693–04–2	AZ2693–04–2

SENSITIVE RELAYS: 1 Form C (SPDT)					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	Unsealed	Sealed
5	8	47	3.5	AZ693–118–52	AZ2693–118–52
6	10	80	4.2	AZ693–010–52	AZ2693–010–52
12	21	330	8.4	AZ693–071–52	AZ2693–071–52
24	41	1,200	16.8	AZ693–052–52	AZ2693–052–52
48	80	4,700	33.6	AZ693–518–52	AZ2693–518–52

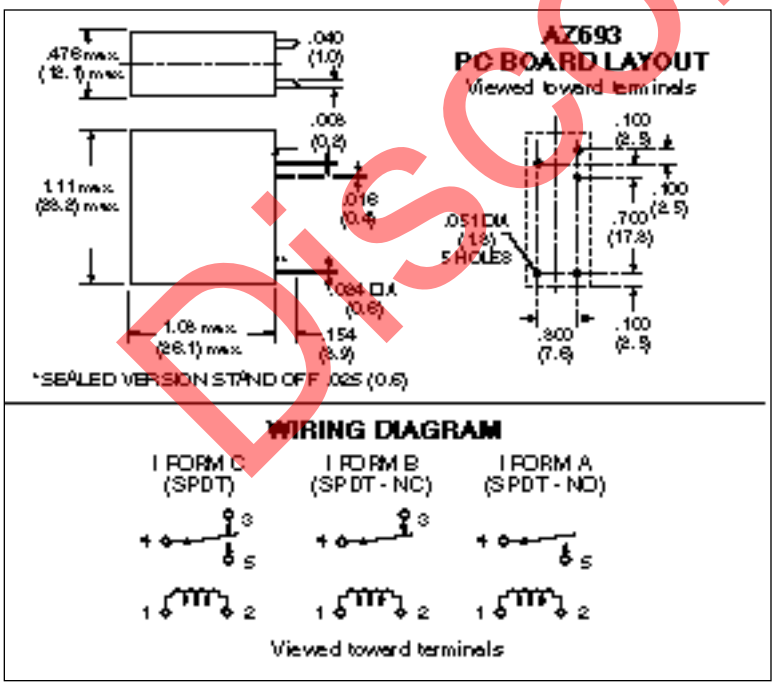
*Substitute “4 or 54,” “6 or 56” in place of “2 or 52” to indicate 1 Form A and 1 Form B respectively.

HARDWARE ORDERING DATA — AZ693†

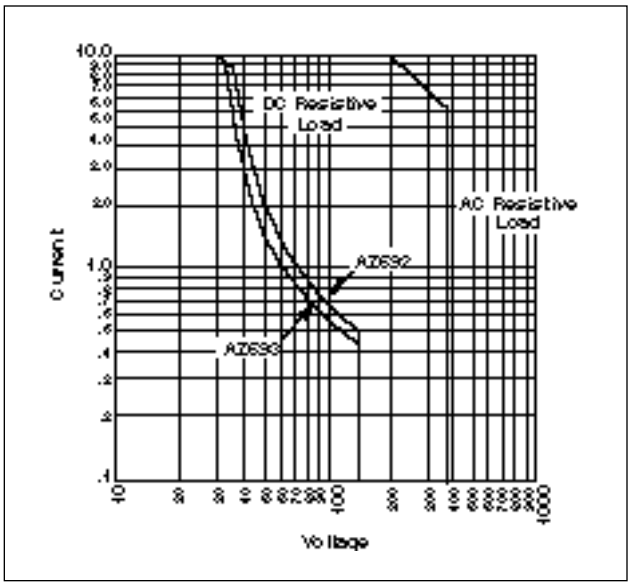
DESCRIPTION	ORDER NUMBER	DESCRIPTION	ORDER NUMBER
Socket	ST483–U1	Retainer	ST482–2

† See following pages for diagram

MECHANICAL DATA



MAXIMUM SWITCHING CAPACITY



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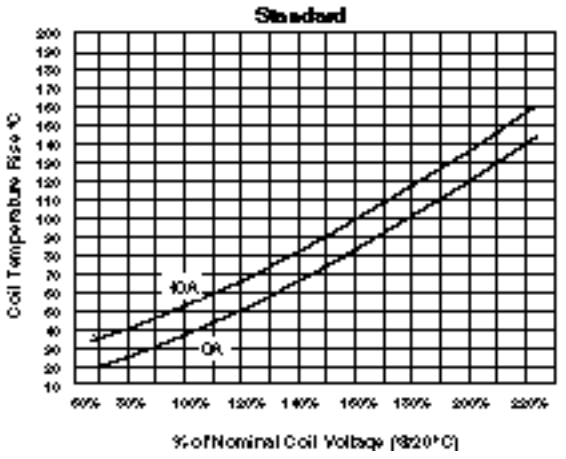
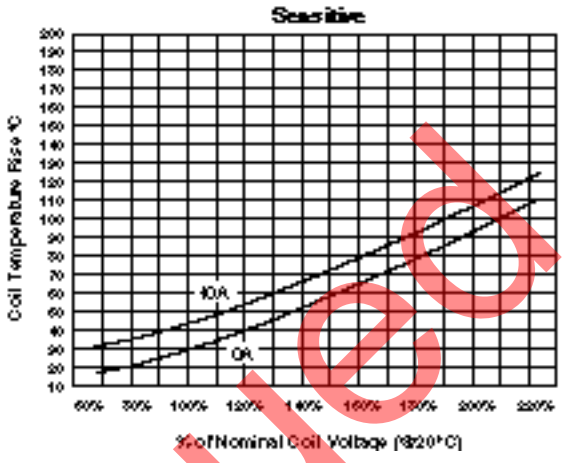
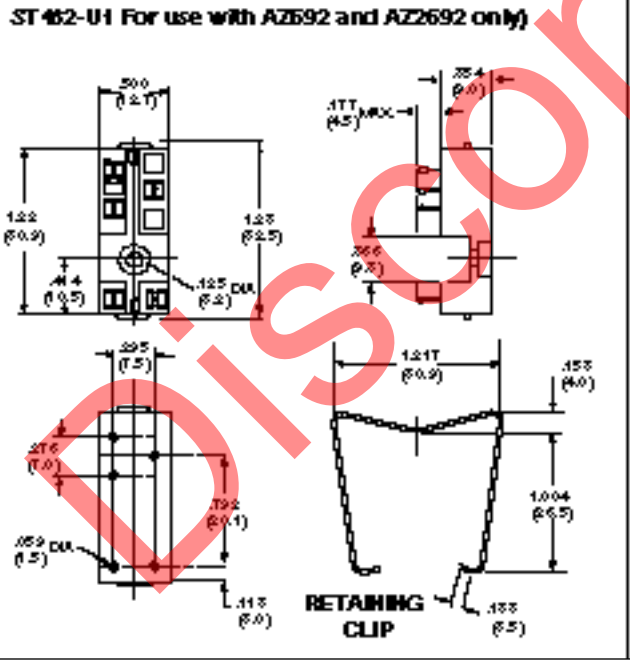
AZ692/AZ693

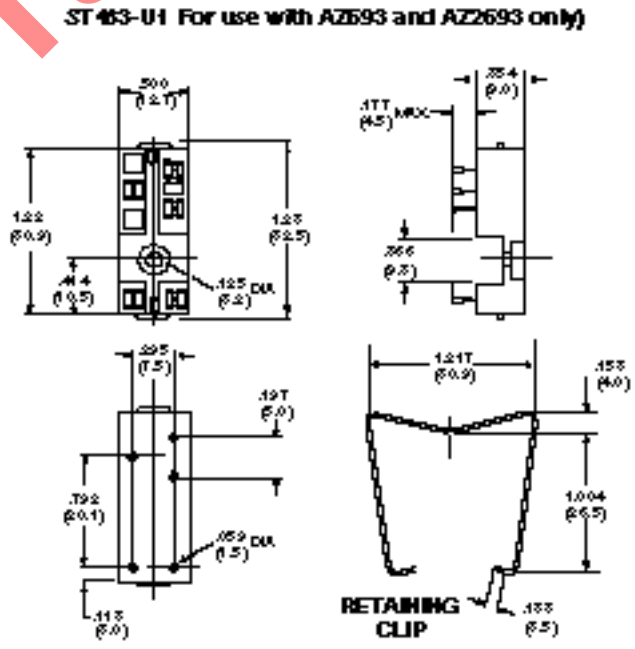
Coil Temperature Rise





HARDWARE SPECIFICATIONS





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