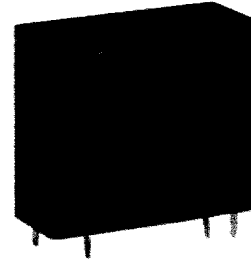


AZ 692

AZ 690 10 AMP MINIATURE POWER RELAY

Features

- ♦ Isolation Spacing Greater Than 8mm
- ♦ Dielectric Strength 4,000Vrms Coil to Contact
- ♦ 10 Amp Switching
- ♦ Single Pole – Forms A, B, C Available
- ♦ Life Expectancy to 30 Million Operations
- ♦ THINPAK Version Less Than 0.5" High
- ♦ SLIMPAK Version Saves Board Space
- ♦ Epoxy Sealed for Automatic Wave Soldering and Cleaning
- ♦ UL File E44211; CSA File LR85091; VDE 4120-4940-4002/A1
- ♦ Approvals/Standards Include UL, CSA, VDE, IEC, CEE & SEMKO



7
RELAYS

Specifications

Contacts

| | |
|--------------------|---|
| Arrangement | SPDT (1 Form C), SPST (1 Form A & 1 Form B) |
| Rating | Noninductive load Max switched power: 300W or 2,000VA Max switched current: 10A, 64A for 2msec Max switched voltage: 150VDC* or 380VAC |
| UL Rating | 10A @ 24VDC or 115VAC 1/4HP 120VAC Motor Load 10A @ 250VAC General Use |
| Material | Silver Cadmium Oxide |
| Resistance | 50 milliohms initially (at rated current) |

Coil

| | |
|--|---|
| Power at Pickup Voltage (typical) | Standard coil: 337mW Sensitive coil: 234mW |
| Max Continuous Dissipation | 1.9W @ 20C (68F) ambient 1.4W @ 40C (104F) ambient |
| Temperature Rise (at nominal voltage) | Standard: 40C (104F) Sensitive: 26C (79F) |
| Temperature | 110C (230F) Maximum |

General Data

| | |
|---|--|
| Life Expectancy | Minimum operations |
| Mechanical | 30,000,000 |
| Electrical | 100,000 @ 10A, 30VDC or 115VAC 200,000 @ 8A, 250VAC |
| Operate Time | 6ms at nominal voltage (typical) |
| Release Time (typical) | 2ms at nominal coil voltage with no coil suppression |
| Dielectric Strength (at sea level) | 4,000Vrms coil to contact 1,000Vrms between open contacts |
| Insulation Resistance | 10,000 megohms min @ 20C (68F), 500VDC, 50% RH |
| Dropout | > 10% of nominal coil voltage |
| Ambient Temp (operating) | At nominal coil voltage Standard: -55C (-67F) to 70C (158F) Sensitive: -55C (-67F) to 80C (176F) |
| (storage) | -55C (-67F) to 110C (230F) |
| Vibration | 0.062" DA @ 10-55 Hz |
| Shock | 20g |
| Enclosure | P.B.T. Polyester |
| Terminals | Tinned copper alloy, P.C. |
| Max Solder Temp | 270C (518F) |
| Max Solder Time | 5 seconds |
| Max Solvent Time | 80C (176F) |
| Immersion Time | 30 seconds maximum |
| Weight | 17 grams |

International Approvals

| | |
|--------------------|---|
| 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 |
| Sweden | SEMKO 43-9577/1-2 & SEMKO 43-9576/1-2 |
| Norway | NEMKO 85938/M 54234 T |
| Finland | SEIT 050471-01 |
| Switzerland | SEV D 3.31/88 |
| USA | UL File e44211 |
| Canada | CSA File LR85091 |

Notes

- 1 All values at 20C (68F) unless otherwise indicated
- 2 Relay may pull in with less 'Must Operate' value
- 3 Unsealed relays should not be dip cleaned
- 4 Specifications subject to change without notice

Relay Ordering Data

Standard Relays - 1 Form C (SPDT)

| Coil Specifications | | | | Single Pole 0.138 Spacing | |
|---------------------|--------------------|-----------------|------------------|---------------------------|----------------|
| Coil VDC nominal | Max VDC continuous | Coil Resistance | Must Operate VDC | ORDER NUMBER | |
| | | | | Unsealed | Sealed |
| 5 | 8 | 38 | 3.5 | AZ 692-125-2* | AZ 2692-125-2* |
| 6 | 10 | 58 | 4.2 | AZ 692-112-2 | AZ 2692-112-2 |
| 12 | 19 | 215 | 8.4 | AZ 692-08-2 | AZ 2692-08-2 |
| 24 | 35 | 740 | 16.8 | AZ 692-560-2 | AZ 2692-560-2 |
| 48 | 74 | 3,200 | 33.6 | AZ 692-04-2 | AZ 2692-04-2 |

Sensitive Relays - 1 Form C (SPDT)

| Coil Specifications | | | | Single Pole 0.138 Spacing | |
|---------------------|--------------------|-----------------|------------------|---------------------------|-----------------|
| Coil VDC nominal | Max VDC continuous | Coil Resistance | Must Operate VDC | ORDER NUMBER | |
| | | | | Unsealed | Sealed |
| 5 | 8 | 47 | 3.5 | AZ 692-118-52* | AZ 2692-118-52* |
| 6 | 10 | 80 | 4.2 | AZ 692-010-52 | AZ 2692-010-52 |
| 12 | 21 | 330 | 8.4 | AZ 692-071-52 | AZ 2692-071-52 |
| 24 | 41 | 1,200 | 16.8 | AZ 692-052-52 | AZ 2692-052-52 |
| 48 | 80 | 4,700 | 33.6 | AZ 692-518-52 | AZ 2692-518-52 |

Standard Relays - 1 Form C (SPDT)

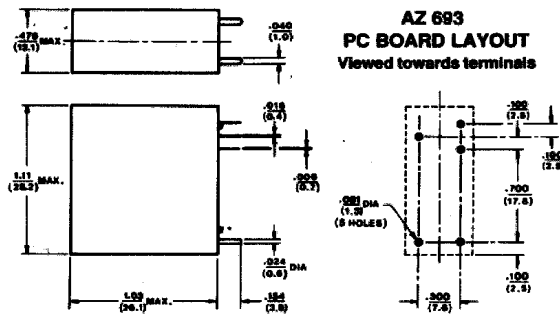
| Coil Specifications | | | | Single Pole 0.100 Spacing | |
|---------------------|--------------------|-----------------|------------------|---------------------------|----------------|
| Coil VDC nominal | Max VDC continuous | Coil Resistance | Must Operate VDC | ORDER NUMBER | |
| | | | | Unsealed | Sealed |
| 5 | 8 | 38 | 3.5 | AZ 693-125-2* | AZ 2693-125-2* |
| 6 | 10 | 58 | 4.2 | AZ 693-112-2 | AZ 2693-112-2 |
| 12 | 19 | 215 | 8.4 | AZ 693-08-2 | AZ 2693-08-2 |
| 24 | 35 | 740 | 16.8 | AZ 693-560-2 | AZ 2693-560-2 |
| 48 | 74 | 3,200 | 33.6 | AZ 693-04-2 | AZ 2693-04-2 |

Sensitive Relays - 1 Form C (SPDT)

| Coil Specifications | | | | Single Pole 0.100 Spacing | |
|---------------------|--------------------|-----------------|------------------|---------------------------|-----------------|
| Coil VDC nominal | Max VDC continuous | Coil Resistance | Must Operate VDC | ORDER NUMBER | |
| | | | | Unsealed | Sealed |
| 5 | 8 | 47 | 3.5 | AZ 693-118-52* | AZ 2693-118-52* |
| 6 | 10 | 80 | 4.2 | AZ 693-010-52 | AZ 2693-010-52 |
| 12 | 21 | 330 | 8.4 | AZ 693-071-52 | AZ 2693-071-52 |
| 24 | 41 | 1,200 | 16.8 | AZ 693-052-52 | AZ 2693-052-52 |
| 48 | 80 | 4,700 | 33.6 | AZ 693-518-52 | AZ 2693-518-52 |

*Substitute '4' or '64', '5' or '65' in place of '2' or '52' to indicate 1 Form A & 1 Form B respectively.

Mechanical Dimensions



*SEALED VERSION STAND OFF .025 (0.6)

Dimensions in inches with metric equivalents in parentheses. Tolerance is 0.010"