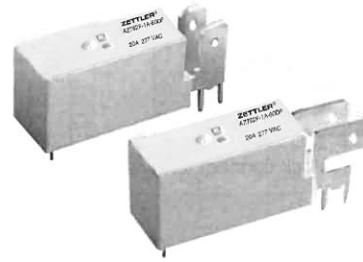


AZ762F

20 A SPST MINIATURE POWER RELAY WITH QUICK CONNECTS

FEATURES

- High temperature operation 125°C
- Dielectric strength 5000 Vrms
- 10 kV surge withstand
- 20 Amp switching
- Low profile Quick connects, Horizontal or Vertical
- Class F (155°C) standard
- Isolation spacing greater than 10 mm
- UL, CUR file E44211, VDE 40006031



CONTACTS

Arrangement	SPST (1 Form A, 1 Form B)
Ratings	Resistive load: Max. switched power: 600 W or 5540 VA Max. switched current: 20 A Max. switched voltage: 150* VDC or 440 VAC <small>*Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.</small>
Rated Load UL, CUR	20 A at 277 VAC general use, 100k cycles
VDE	18 A at 250 VAC, Res., 20k cycles (N.O.) 16 A at 250 VAC, Res., 80k cycles 12 A at 400 VAC, Res., 80k cycles
Material	Silver nickel, (gold plating available)
Resistance	< 50 milliohms initially (using 6 V 1 A method)

COIL

Power	
At Pickup Voltage (typical)	196 mW
Max. Continuous Dissipation	1.7 W at 20°C (68°F) ambient
Temperature Rise	26°C (47°F) at nominal coil voltage
Max. Temperature	155° (311°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 20 A 277 VAC general use
Operate Time (typical)	7 ms at nominal coil voltage
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 1000 Vrms between open contacts
Insulation Resistance	1000 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 -40°C (-40°F) to 125°C (257°F) -40°C (-40°F) to 155°C (311°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C., QC
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	14 grams

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.

AMERICAN ZETTLER, INC.

AZ762F

RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance	Vertical Quick Connects	Horizontal Quick Connects
5	3.5	10.2	62 ± 10%	AZ762FV-1AB-5DF	AZ762FH-1AB-5DF
6	4.2	12.3	90 ± 10%	AZ762FV-1AB-6DF	AZ762FH-1AB-6DF
9	6.3	18.5	200 ± 10%	AZ762FV-1AB-9DF	AZ762FH-1AB-9DF
12	8.4	24.7	360 ± 10%	AZ762FV-1AB-12DF	AZ762FH-1AB-12DF
24	16.8	49.4	1,440 ± 10%	AZ762FV-1AB-24DF	AZ762FH-1AB-24DF
48	33.6	98.0	5,760 ± 15%	AZ762FV-1AB-48DF	AZ762FH-1AB-48DF
60	42.0	112.9	7,500 ± 15%	AZ762FV-1AB-60DF	AZ762FH-1AB-60DF

*Substitute "-1BB" in place of "-1AB" for 1 Form B. For gold plated contacts change "DF" to "DAF".

MECHANICAL DATA

Outline Dimensions

Quick connect terminals vertical
Form A,B

Quick connect terminals horizontal
Form A,B

PC Board Layout

FORM A,B

Wiring Diagram

Form A

Form B

Dimensions in inch with millimeters in brackets below. Tolerance: ± .010"