AZ756

20 AMP MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low cost
- 20 Amp switching — single pole contacts
- Isolation spacing greater than 8mm
- UL Class B insulation system standard Class F available
- UL, CUR file E43203, TÜV R50099406

CONTACTS

Arrangement	SPST - N.O.
Ratings	Resistive load: Max. switched power: 480 W or 4000 VA Max. switched current: 20 A Max. switched voltage: 150* VDC or 277 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load **UL, CUR**	20 A at 125 VAC Resistive, 100k cycles 16 A at 250 VAC Resistive, 100k cycles 16 A at 30 VDC Resistive, 100k cycles
TÜV	16 A at 250 VAC Resistive, 100k cycles 16 A at 30 VDC Resistive, 50k cycles
Material	Silver tin oxide
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	340 mW
Max. Continuous Dissipation	1.5 W at 20°C (68°F) ambient 1.1 W at 40°C (104°F) ambient
Temperature Rise	41°C (74°F) at nominal coil voltage
Temperature	Max. 130°C (266°F)

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^7 1 x 10^5 at 16 A 240 VAC Res.
Operate Time (typical)	20 ms at nominal coil voltage
Release Time (typical)	10 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 85°C (185°F) -40°C (-40°F) to 130°C (266°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C. and Quick Connects Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Weight	13 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.

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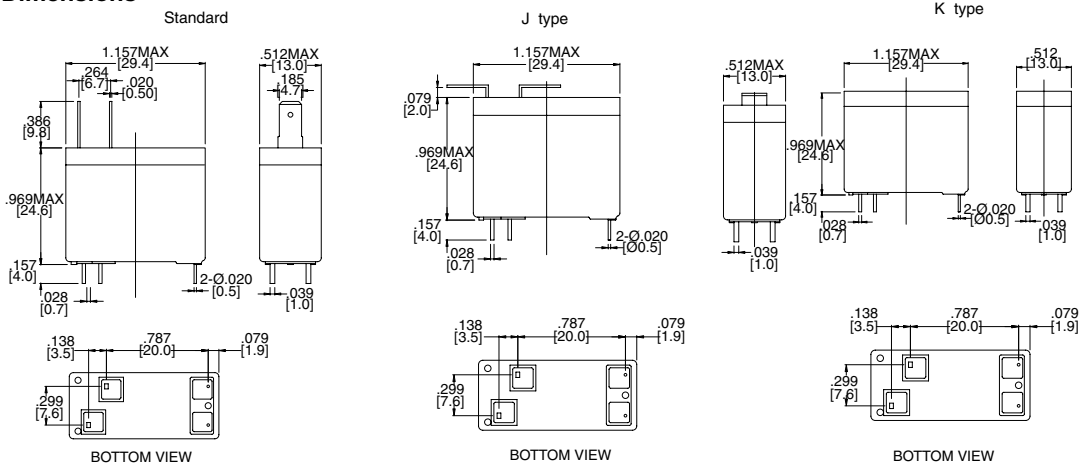
RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	Vertical QC	Horizontal QC	No QC
5	4.0	8.4	47	AZ756–1A–5D	AZ756–1A–5DJ	AZ756–1A–5DK
6	4.8	10.1	68	AZ756–1A–6D	AZ756–1A–6DJ	AZ756–1A–6DK
9	7.2	15.3	155	AZ756–1A–9D	AZ756–1A–9DJ	AZ756–1A–9DK
12	9.6	20.1	270	AZ756–1A–12D	AZ756–1A–12DJ	AZ756–1A–12DK
18	14.4	30.5	620	AZ756–1A–18D	AZ756–1A–18DJ	AZ756–1A–18DK
24	19.2	40.6	1100	AZ756–1A–24D	AZ756–1A–24DJ	AZ756–1A–24DK
48	38.4	81.2	4400	AZ756–1A–48D	AZ756–1A–48DJ	AZ756–1A–48DK

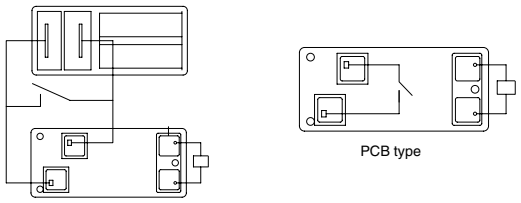
* Add suffix “F” for Class F.

MECHANICAL DATA

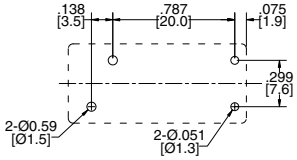
Outline Dimensions



Wiring Diagram



PC Board Layout



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

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