

FTR-K3 Series Relay

20 Amp PCB Mount



new

Features

- 1 Form A (SPST-NO) contact
- Heavy duty 20A power relay for compressor loads and inverter loads
- High sensitivity in small package - Nominal power 780mW
- High insulation with reinforced insulation system (between coil and contact)
 - Clearance distance 8mm, Creepage distance 9.5mm
 - Dielectric strength 5,000 VAC
 - Surge strength 8,500 V
- Operating temp of 40°C to 60°C
- Dimensions 30.1 x 15.7 x 23.3 mm
- Mechanical life rated at 2 million operations and an electrical life of 100,000 operations at rated load (20A, 250VAC)
- Plastic materials
 - UL94 flame class V-0
 - CTI > 250 (UL CTI level class 2)
- Contains no lead and features cadmium-free contacts
- UL, CSA, VDE, CQC approvals
- RoHS Compliant since production

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Ordering Information : FTR-K3 J B 012 W
(a) (b) (c) (d) (e)

- (a) Series Name : FTR-K3
- (b) Contact Arrangement : A : PCB Terminal
J : Tab Terminal (#250) + PCB Terminal
- (c) Coil Type : B : Standard type (780mW)
- (d) Coil Number : Coil Nominal Voltage
- (e) Contact Material : W : AgSnO₂

Coil Data Chart

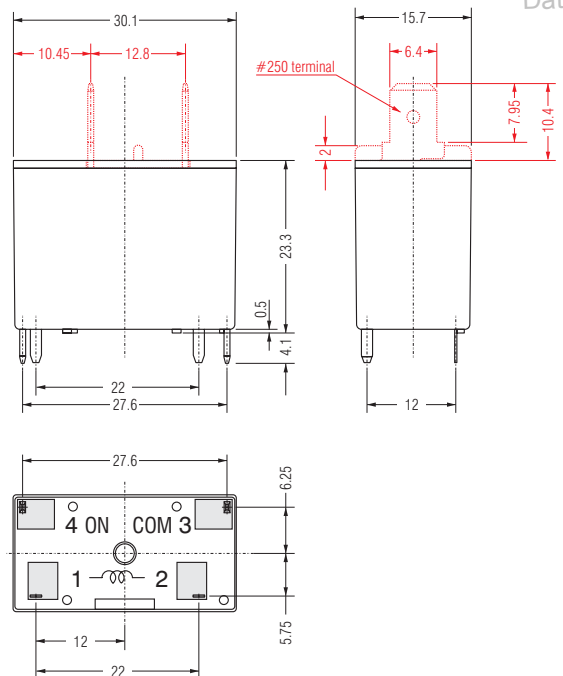
Model	Nominal Voltage	Coil Resistance (±10%)	Operate Voltage	Release Voltage	Nominal Power (±10%)
FTR-K3()B005W	5 VDC	32	3.5 VDC	0.5 VDC	780 mW
FTR-K3()B006W	6 VDC	46	4.2 VDC	0.6 VDC	780 mW
FTR-K3()B009W	9 VDC	105	6.3 VDC	0.9 VDC	780 mW
FTR-K3()B012W	12 VDC	185	8.4 VDC	1.2 VDC	780 mW
FTR-K3()B018W	18 VDC	415	12.6 VDC	1.8 VDC	780 mW
FTR-K3()B024W	24 VDC	740	16.8 VDC	2.4 VDC	780 mW
FTR-K3()B048W	48 VDC	2955	33.6 VDC	4.8 VDC	780 mW

All values in the table are measured at 20°C

- Contact Arrangement : 1 Form A
- Material : AgSnO₂ (silver alloy)
- Resistance (initial) : Max. 100 mΩ (at 1A 6VDC)
- Rating : 20A 250VAC
- Max. Carrying Current : 25A
- Max. Switching Power : 6250VA
- Max. Switching Voltage : 250VAC
- Min. Switching Load : 100mA 5VDC (Reference)
- Max. Switching Current : 25A
- Coil Operating Temp. : -40°C to 60°C (no frost)
- Operating Time : Max. 20ms (at nominal voltage, without bounce)
- Release Time : Max. 10ms (at nominal voltage, without bounce)
- Insulation Resistance : Min. 1000MΩ at 500VDC
- Dielectric Strength : 1000VAC, 1 min (B/T contacts)
5000VAC, 1 min (B/T coil and contacts)
- Mechanical Life : 20 x 10⁶ operations min.
- Elec. Resistive Load : 100 x 10³ operations min.
- Elec. Motor Load : 200 x 10³ operations min.
- Elec. inverter Load : 30 x 10³ operations min.
- Vibration Resistance : 10 to 55 Hz at double amplitude of 1.5mm
- Shock Resistance : Min. 200m/s² (11 ± 1ms)
Min. 1000m/s² (6 ± 1ms)
- Weight : ± 25g

Dimensions

Tab terminal & PCB mounting type



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Designers' Choice