

5kW Rugged, Industrial Quality Transfer Switch with 8ms Transfer Time

TFS 5K Series

- High speed: 8ms transfer time
- Custom configurable even at low quantities
- Rugged, field-proven design
- Convection cooled
- Meets safety and EMI standards



The TFS 5K transfer switch is a 2U (3.5") x 19" rack-mount switch which is used in UPS applications to allow the load to be supplied either by the utility or a secondary AC source, such as an inverter. A specially designed AC-fail circuit detects the loss of utility power within a maximum of 3.5ms, and contact is activated in 4.5ms for a total switching time of 8ms. The unit switches both the phase and neutral poles and, therefore, provides galvanic isolation between the sources. The use of components with established reliability results in a high demonstrated MTBF. The TFS 5K is manufactured at our plant under strict quality control. Customized versions are also available.

SPECIFICATIONS

Input Voltage

115Vac (-115 version)
230Vac (-230 version)
±15%, 47-63Hz

Input Protection

Lower voltage than the specified minimum input will not damage the unit

Isolation

2250Vdc input to chassis

Standards

Designed to meet EN62368-1 and corresponding UL & CSA standards

EMI

EN55032 Class B

Transfer Time

8ms max.

Contact Breaking Capacity

60Arms @ 115Vac
30Arms @ 230Vac

Contact Making Capacity

200Arms @ 115Vac
100Arms @ 230Vac

Continuous Current Capacity

25Arms @ 115Vac
20Arms @ 230Vac

Operating Temperature Range

0°C to +50°C

Cooling

Natural air convection

Environmental Protection

Basic ruggedizing

MTBF

Min. 150,000 hours at 45°C
10,000 cycles for contractor

Indicators

LEDs to indicate whether the load is being supplied from the inverter input or the utility input
LED indicators also for the presence of the preferred and backup input source

Control Input

Source selector switch with positions:

- Auto Transfer
- Forced to back up power (Inverter and Battery Test)

Alarm Output

Preferred Input fail
Backup Input fail
Potential-free form C with acoustic indicator for both alarms
Phoenix connectors

Package/Dimensions (H x W x D)

2U (3.5") x 19" x 8" including terminals at rear
Mounting holes are clear

Weight

2.8kg (6lbs)

Connections

Input & output: Compression type terminal blocks (Phoenix G10/2)

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

ABSOPULSE power supplies are designed and built to customer requirements. The specifications on this data sheet are generic guidelines only and are subject to change.

OEM of industrial and railway quality DC-DC converters, AC-DC power supplies and battery chargers, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" and 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility.



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