

AC-FAIL DETECTION CIRCUIT

ACF 2624



- Stand-alone design
- Analog circuitry
- High quality and reliability
- Made in North America

The ACF 2624 detects AC-line failure within 4ms-6ms typical and 8msec maximum, a speed critical for minimizing required power supply hold-up time. This stand-alone circuit is suitable for AC-line monitoring and may be designed into electrical systems for a diverse range of applications. The ACF 2624 features a built-in auto-ranging circuit which enables operation for 120Vac or 240Vac. The unit has a fail-open alarm output. This alarm output is TTL compatible. The TTL level can however be overridden and increased up to 28V, by external pull-up resistors. Various mounting options are available, including DIN-rail mount and chassis-mount. These compact modules measure 2.7" x 2.3" x 2".

SPECIFICATIONS

Input Voltage

115Vac or 230Vac
47-63Hz

Isolation

2250Vdc input to chassis
4300Vdc input to output
8mm spacing
500Vdc output to chassis

Standards

Designed to meet EN62368-1
and related standards

EMI

Unit does not generate any EMI

Detection Time

4-6 ms typical
8 ms max

Alarm Output

Fail open
Sink and source capacity:
1 TTL load

Operating Temperature Range

-20 to 50 °C

Storage Temperature

-40 to 85 °C

Environmental Protection

Basic ruggedizing
Conformal coating

Humidity

5-95% non-condensing

MTBF

150,000 hours at 45 °C

Indicators

None

Dimensions

2.7" x 2.3" x 2"
68.6 mm x 58.4 mm x 50.8 mm
including terminal block

Input/Output Connections

6-pole barrier-type terminal block
with 3/8" spacing

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.



ABSOPULSE ELECTRONICS LTD

110 Walgreen Road, Ottawa, Ontario | K0A 1L0 | CANADA
Tel: +1-613-836-3511 | Fax: +1-613-836-7488

<https://absopulse.com/contact> | <https://www.absopulse.com>