

OPERATION

With nominal 3-phase line voltage applied, a flashing green NORMAL LED gives positive indication of a **good fuse** and integrity of the wire connection to each side of the fuse.¹

A flashing red FAULT LED gives positive indication of an unconnected or **open fuse**, or a BFA wiring fault that needs corrected such as a lost connection to either side of the fuse or mismatched line and load wires.²

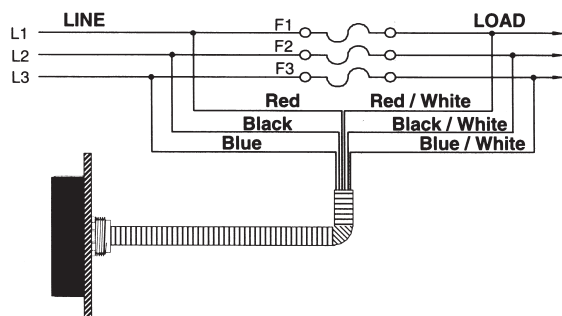
When phase loss occurs, both FAULT and NORMAL LEDS will extinguish.³ The BFA will continue to indicate the status of the fuse during a phase loss if a regenerated voltage is produced on the open phase from a rotating motor.⁴

1 2 3 4 BFA-SERIES Troubleshooting Guide

SPECIFICATIONS

NOMINAL VOLTAGE	208-600 VAC, $\pm 10\%$, Phase-to-Phase, 50/60 Hz	
MAX. CONTINUOUS VOLTAGE	660 VAC, Phase-to-Phase	
REV. CONNECTION PROTECTED	Yes	
DETECTION THRESHOLD	10-15 VAC Across Open Fuse	
MAXIMUM DETECTOR LEAKAGE CURRENT	0.5 mA @ 600 VAC (Approx.)	
FRESNEL LENS INDICATORS	Normal	(3) Green LEDs, 2 Flashes/Sec
	Fault	(3) Red LEDs, 2 Flashes/Sec
MAXIMUM RATED VOLTAGE	750 VAC/1000 VDC (LINE-TO-LINE or LINE-TO-GND)	
DETECTION THRESHOLDS	29 VAC 3-Phase, 40 VAC SINGLE-Phase, 27 VDC (TYP CUTOFF)	
POWER REQUIRED	2.5 VA @ 208 VAC, and 5.5 VA @ 480 VAC	
TEMPERATURE	Operate	32° to 131°F (0° to +55°C)
	Storage	-40° to 185°F (-40° to +85°C)
ENCLOSURE	94V-0 Flame Retardant Black ABS Plastic, Panel Mount with 1/2" Plastic Electrical Conduit Adapter; Encapsulated for Environmental Protection.	
TERMINATIONS	(6) 2', 18 AWG, 600V, 105°C PVC Stranded Wire w/Wire Pin Terminations, Jacketed with 18" Slit Nylon Corrugated Tubing, .556" OD	
WEIGHT	NET: 3.52 oz	Shipping: 5.12 oz

WIRING



CAUS
E55826

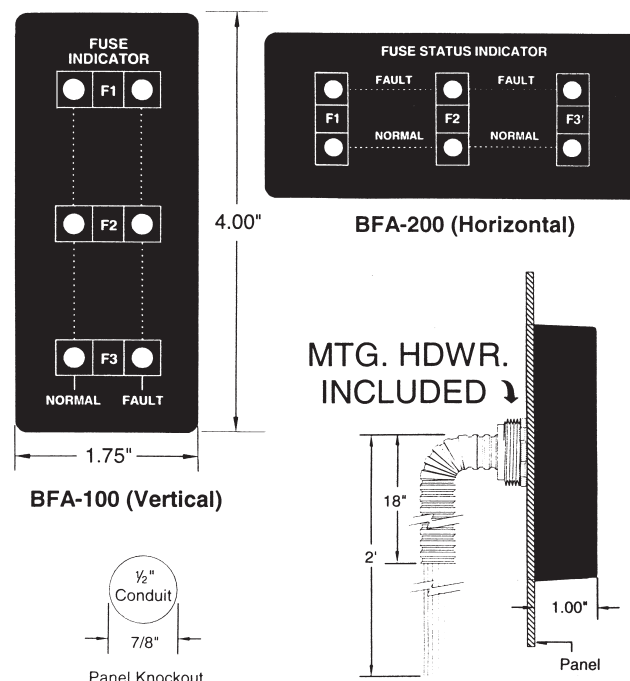
Fuse Status Indicator

- Shows Normal and Open Fuse
- Mounts External to Panel
- View Status from a Distance
- For All Fuses UL Class H, J, K, R, RK
- Reports Connection Integrity
- Vertical or Horizontal Mount
- Universal Input 208-600 VAC

ORDERING INFORMATION



MODEL NUMBER	DESCRIPTION
BFA-100	Vertical Mount
BFA-200	Horizontal Mount

DIMENSIONS (INCHES)





BFA-SERIES 3 PHASE FUSE STATUS INDICATOR TROUBLESHOOTING GUIDE

1.

FLASHING	OFF
	
(GREEN)	(RED)



 - A. Normal, fuse good, electrical contact across fuse

2.

OFF	FLASHING
	
(GREEN)	(RED)



 - A. Unconnected or blown fuse
 - B. Bad Connection Load Side (white stripe wire)
 - C. Both of the above

3.

OFF	OFF
	
(GREEN)	(RED)



 - A. Phase voltage loss with no motor regeneration
 - B. The above accompanied with an unconnected or blown fuse

4.

OFF	FLASHING DIMLY
	
(GREEN)	(RED)



 - A. Bad Connection Line Side (solid color wire)
 - B. The above accompanied with an unconnected or blown fuse
 - C. Phase Voltage loss with motor regeneration accompanied with an unconnected or blown fuse

5.

OFF	FLASHING
	
(GREEN)	(RED)

 - A. (2) Unconnected or blown fuses
 - B. Corresponding wires interchanged between solid colors or white stripe colors
 - C. 1 or 2 unconnected or blown fuses and B

6.

OFF	FLASHING
	
(GREEN)	(RED)

 - A. (3) Unconnected or blown fuses
 - B. Line Side connections do not correspond to Load Side connections
 - C. 1 or more unconnected or blown fuses and B

CAUTION: The BFA should not be confused with ATC Diversified Electronics 3-Phase Voltage Detectors. The BFA is designed to detect blown fuses and not voltage potentials from Phase-to-Ground or Phase-to-Phase in the 40 VAC range and up. It should be understood that dangerous voltage potentials can still exist within the panel even though the BFA has no LEDs flashing.