Short Circuit Isolator
VF6003-00

Standard Features

- Can be placed at any location on SLC loop
- Checks the line for short circuit at power up; if the line is normal, the relay will be returned on. If a line short is detected, the relay remains open
- Indication of short circuit by a yellow LED

VF6003

Technical Specifications

Absolute Maximum Applied Voltage	S, SC 41 VDC	
Supply Voltage Nominal	S, SC 33 VDC	
Normal Current Consumption	270 µA	
Average Current Consumption (Short Circuit Condition)	10 mA	
Visual Indicator (Yellow Status LED)	**Normal Condition**	No indication
	Active (Short) Condition	On Steady
SLC Maximum Resistance	50 ohms	
Weight	1.4 oz	
Maximum Humidity	up to 90%, non-condensing	
UL Ambient Installation Temperature Range	32º F to 120º F	
Dimensions	4.2″ W x 4.7″ H x 1.4″ D	

Application

The VES VF6003 Short Circuit Isolator provides the capability of allowing NFPA SLC Style 7 installations.

Operation

Class A Configuration Wiring - The VF6003 short circuit isolator should be located between any devices on the SLC loop. In the event of a short on the SLC loop, the two adjacent isolators (closest isolators to the left and right of the shorted section) will activate and their respective LED indicators will be turned on. All devices between the active short circuit isolators will be dead. This will prevent an entire loop failure. Upon removal of the short condition, the VF6003 devices will automatically restore the entire loop to the normal operating state.

Class B Configuration Wiring - The VF6003 short circuit isolator should be located between any devices on the SLC loop. In the event of a short on the SLC loop, an isolator closest to the shorted section will activate and the LED will be turned on. All the devices beyond the shorted section will be disabled. Upon removal of the short condition, the VF6003 will automatically restore the entire loop to the normal operating state. **For the best performance, use class A configuration.**

FM APPROVED

UL

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