

Specifications for DPI Line Filter

DPI Line Filter

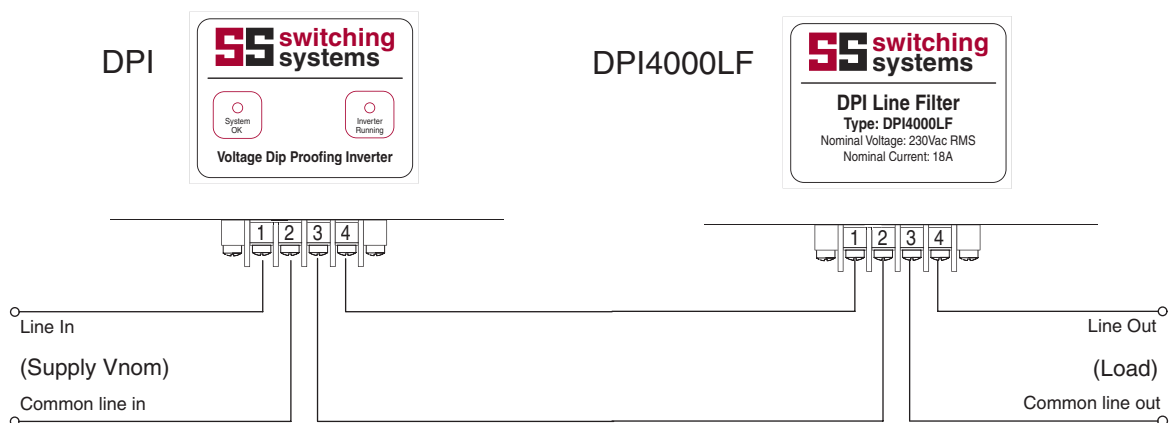
Description

The 4000LF is designed to limit voltage and current transients and introduce corrective impedance between the DPI and supported load. If a short circuit should occur on a control circuit branch then, depending on the source impedance the control voltage may drop to a level where the DPI inverter is activated. The branch fuse can clear the fault in 3ms under normal circumstances. However the DPI will activate before the fuse has time to rupture. The DPI output current will rise to 28 amps and then DPI current limit will switch off the output voltage for the remainder of the half cycle. This process will repeat so long as there is a short circuit. The DPI current limit prevents the fuse or c/b from opening the circuit quickly and the control voltage sags to the point where other branch circuits are affected and contactors drop out. The 4000LF overcomes this problem by introducing impedance between the DPI and the load. This ensures that if there is a short circuit the voltage drops across the filter and not the source so the DPI is not activated. This allows the branch fuse to rupture normally in 3ms. As a result only the faulty branch is disconnected and the other branch circuits remain active.

Specifications

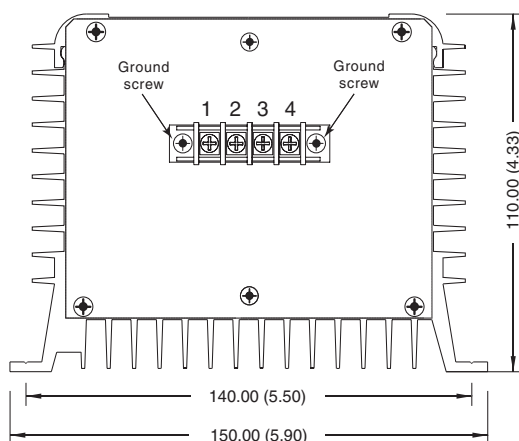
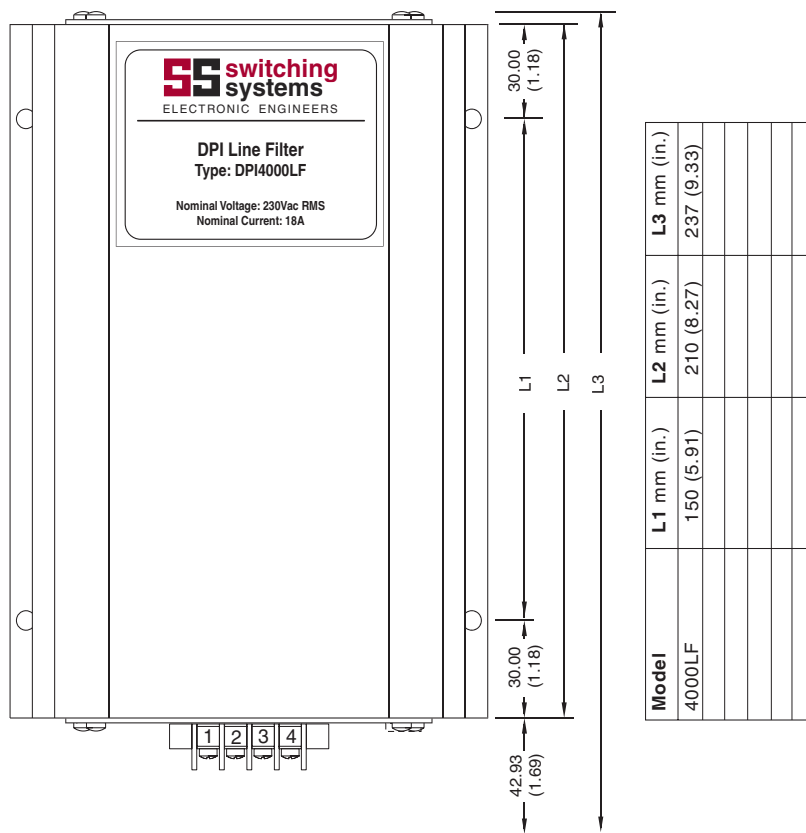
MODEL	4000LF
ELECTRICAL	
Maximum current:	18A
Maximum input voltage:	230Vac
TEMPERATURE	
Maximum working temperature:	45°C (113°F)
HOUSING	
Construction:	Extruded Aluminum
Height:	262mm (7.95in)
Width:	150mm (5.9in)
Depth:	141mm (5.55in)
Mass:	4.35kg (9.6lbs)

Connection diagram



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Mechanical outline



Note 1:
Dimension units.
Without brackets are in mm.
With brackets are in inches.
Note 2:
Terminal #1 - Line in (Output from DPI-T4)
Terminal #2 - Common line / Neutral in
Terminal #3 - Common line / Neutral out
Terminal #4 - Line out (Load)

Ordering

Stock No:
5003-045

Description
DPI Line Filter 230V 18A

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