

Quick Installation Overview:

1. Ensure that power is removed from the area and the circuits to be connected.
2. Install earth leakage protection (RCD) if appropriate or where required by national codes and authorities having jurisdiction. When connecting surge protection L-G it is preferable to install the device before the RCD to avoid nuisance tripping which may occur when the SPD operates.
3. The FDS Series is designed to clip to 35mm (top hat) DIN rails (standard EN50022) set in the horizontal position with the securing clips towards the bottom of the rail.
4. Connect wiring to the primary terminals indicated. The interconnecting wire be as short as possible - not exceeding 12". Terminals will allow connection of 25mm² (#2AWG) solid. The wire insulation should be stripped back 5/16".
5. When connecting the FDS on the input side of the distribution panel wiring, it is usual to wire the FDS L-N (L1, L2, L3 to N on 3 phase systems). When connecting the FDS to the output side of the panel wiring, it is usual to wire L-PE/ PEN.
6. Connect alarm terminals if remote monitoring is required.
7. Apply power and observe correct operation of the SPD and status indication is not tripped.

* Installations should only be done by qualified personnel


DANGER

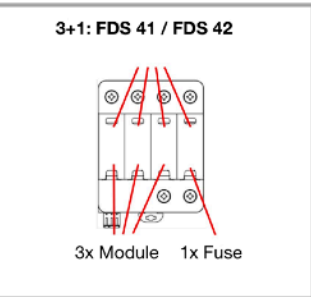
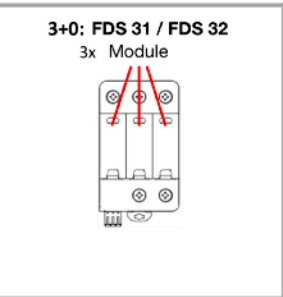
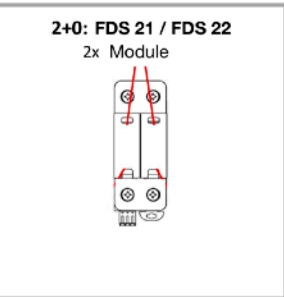
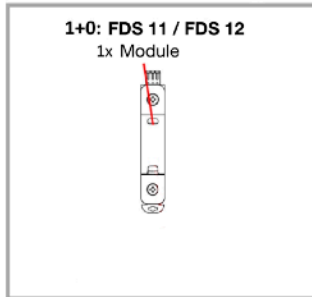
1. Electrical Shock or Burn Hazard. Failure to lockout electrical power during installation or maintenance can result in Fatal Electrocution, Severe Burns, or other Injuries.
2. Prior to installation, ensure the product is of the correct voltage, current, phasing, and frequency for the intended power distribution system.
3. This unit must be installed on the load side of the main over-current protection.
4. Diagrams are for reference only. Schematics are representative of typical applications and are only to be used for reference.



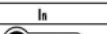
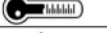




CAUTION

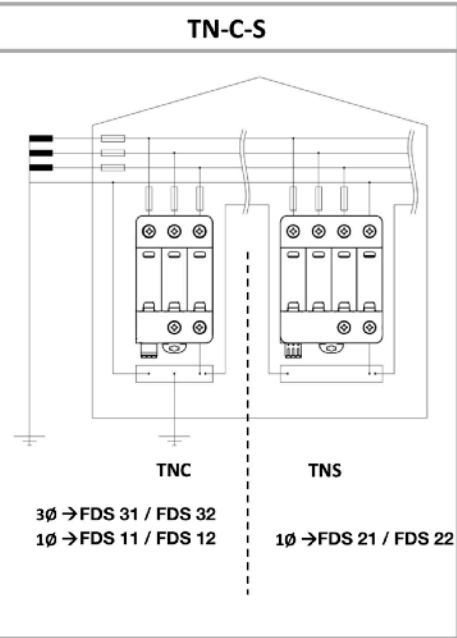
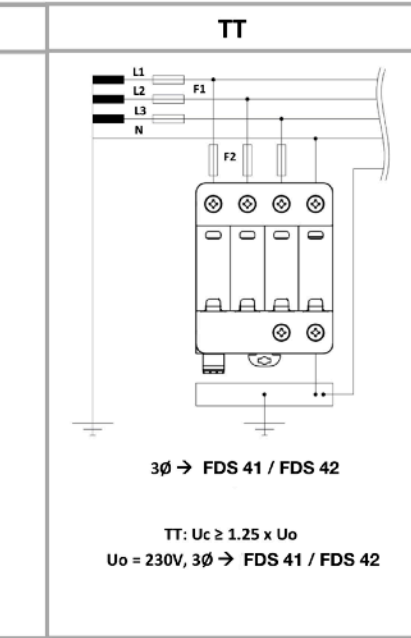
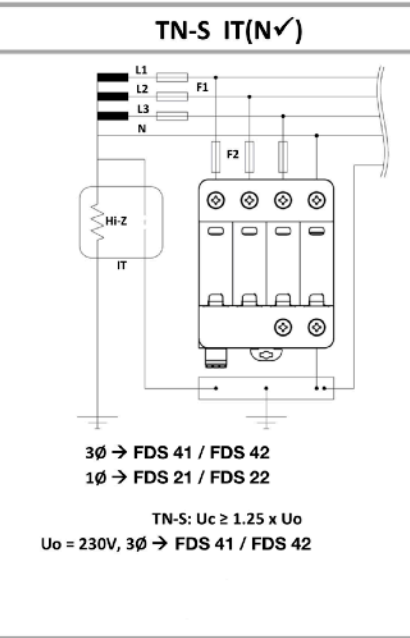
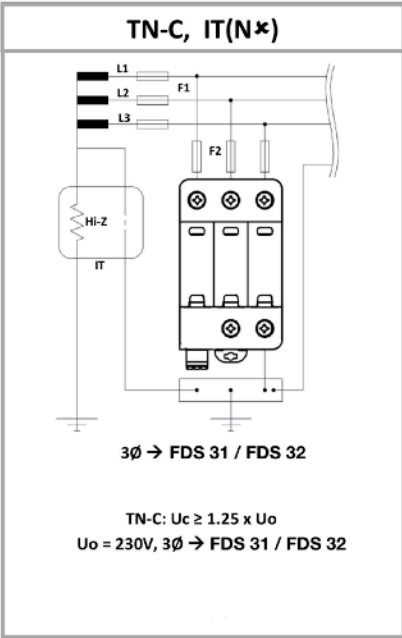
1. The ground (earth) terminal must be connected to a low impedance earth (< 10 ohms) for correct operation.
2. Ungrounded power systems are inherently unstable and can produce excessively high line-to-ground voltages during certain fault conditions. During these fault conditions any electrical equipment, including an SPD, may be subjected to voltages which exceed their designed ratings. This information is being provided to the user so that an informed decision can be made before installing any electrical equipment on an ungrounded power system.

Installation Instructions

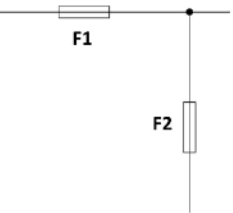
FDS	xxx	mm	Dry Contact
	Uc (V)	10 = 1+0	
	75	20 = 2+0	
	150	30 = 3+0	
	300	40 = 4+0	
	350	11 = 1+1	
	480	31 = 3+1	
	550		
	880		



IEC 61643-11	
	Class II
	$\leq 315A\ gG$ ($I_{SCCR} \leq 25\ kA$) $\leq 250A\ gG$ ($I_{SCCR} \leq 50\ kA$)
	100 Amax
	-40 °C to +70 °C -40 °F to +158 °F
	5%...95%
	$\leq 2000\ m$ $\leq 6562\ ft$
	20
	Indoor



IEC/EN



$I_{SCCR} \leq 25\ kA$	$I_{SCCR} \leq 50\ kA$
F1 $\leq 315A\ gG$	F1 $\leq 250A\ gG$
F2	F2
F1 > 315A gG ↓ F2 = 125A gG	F1 > 250A gG ↓ F2 = 125A gG

