

Wind Turbines Surge Protector

FLP25-760/3(S)

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L-PEN
 Surge Ratings: $I_{imp} = 25 \text{ kA}$ (10/350 μs)
 $I_n = 35 \text{ kA}$ (8/20 μs)
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: High Energy MOV
 Housing: Monoblock Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

FLP25-760/3(S)

IEC Electrical

Nominal AC Voltage (50/60 Hz)	U_o / U_n	690 V
Maximum Continuous Operating Voltage (AC)	U_c	760 V
Nominal Discharge Current (8/20 μs)	I_n	35 kA
Maximum Discharge Current (8/20 μs)	I_{max}	70 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	25 kA
Specific Energy	W/R	156 kJ/Q
Residual Voltage [25kA (8/20 μs)]	U_p	2.5 kV
Residual Voltage [5kA (8/20 μs)]	U_p	1.6 kV
Response Time	t_A	< 25 ns
Max. Backup Fuse		315 A gL / gG
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA
TOV Withstand 5 s	U_T	1000 Vac withstand
TOV 120 min	U_T	1325 Vac disconnection
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +158 °F [-40 °C to +70 °C]
Permissible Operating Humidity	RH	5%...95%
Atmospheric Pressure and Altitude		80 kPa ... 106 kPa / -500 m ... 2000 m
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]
Conductor Cross Section (max.)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		White ok / Red defect
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250 V / 0.5 A; DC: 250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A
RC Conductor Cross Section (max.)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

Ordering Code	760
FLP25-760/3	2576030
FLP25-760/3S	2576031

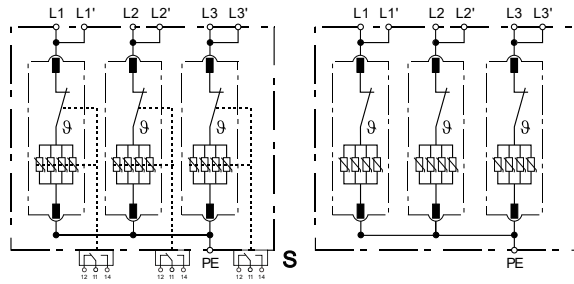


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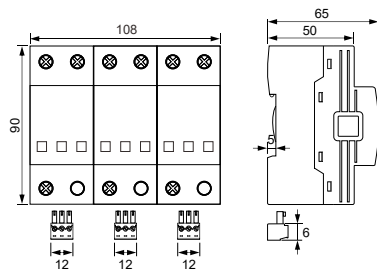
Internal Configuration

Legend

- L Line Conductor Terminal
- N Neutral Conductor Terminal
- ⊕ PE/G Conductor Terminal
- S Signalling Contacts Optional



Dimensions & Packaging



[mm]

Complete Unit

FLP25-760/3(S)

DIN 43880 Dimension

1 CTN

Packaging Dimensions (H x W x L)

[240 × 220 × 330 mm]

Standard Order Quantity

16 Units

Connection Diagram

TN-C (Three-phase, 3+0)

