

AC Surge Protective Device

FLP7-xxx/1(S)

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE (only TN-S), L-PEN, L-N
 Surge Ratings: $I_{imp} = 7 \text{ kA (10/350 } \mu\text{s)}$
 $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

FLP7-xxx/1(S)		75	150	275	320	385	440
IEC Electrical							
Nominal AC Voltage (50/60Hz)	U_o/U_n	60 V	120 V	230 V	230 V	230 V	400 V
Maximum Continuous Operating Voltage (AC)	U_c	75 V	150 V	275 V	320 V	385 V	440 V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	7 kA	7 kA	7 kA	7 kA	7 kA	7 kA
Specific Energy	W/R	12 kJ/ Ω	12 kJ/ Ω	12 kJ/ Ω	12 kJ/ Ω	10 kJ/ Ω	10 kJ/ Ω
Charge	Q	3.5 As	3.5 As	3.5 As	3.5 As	2.5 As	2.5 As
Voltage Protection Level	U_p	400 V	1000 V	1500 V	1600 V	1800 V	2000 V
Residual Current at U_c	I_{PE}	< 0.5 mA					
Response Time	t_A	< 25 ns					
Back-Up Fuse (max)		160 A gL / gG					
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA					
TOV Withstand 5s	U_T	114 V	180 V	335 V	335 V	335 V	580 V
TOV 120min	U_T	114 V	230 V	440 V	440 V	440 V	765 V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
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		80k Pa ... 106k Pa / -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		IP 20 (built-in)					
Housing Material		Thermoplastic: Extinguishing Degree UL 94V-0					
Thermal Protection		Yes					
Operating State / Fault Indication		Green 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

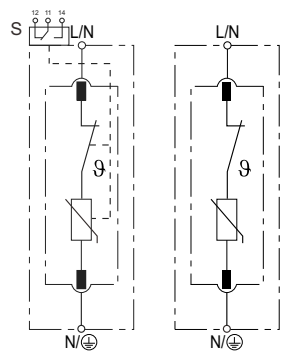
Ordering Code	75	150	275	320	385	440
FLP7-xxx/1	0707511	0715011	0727511	0732011	0738511	0744011
FLP7-xxx/1S (with remote contacts)	0707512	0715012	0727512	0732012	0738512	0744012
FLP7-xxx/0 (spare modules)	0707501	0715001	0727501	0732001	0738501	0744001



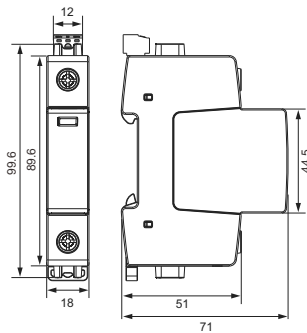
FLP7-xxx/1(S)

Internal Configuration

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



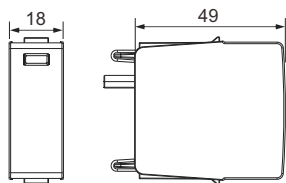
Dimensions & Packaging



[mm]

Complete Unit						
FLP7-xxx/1(S)	75	150	275	320	385	440
DIN 43880 Dimension	1 CTN					
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]					
Standard Order Quantity	96 Units					

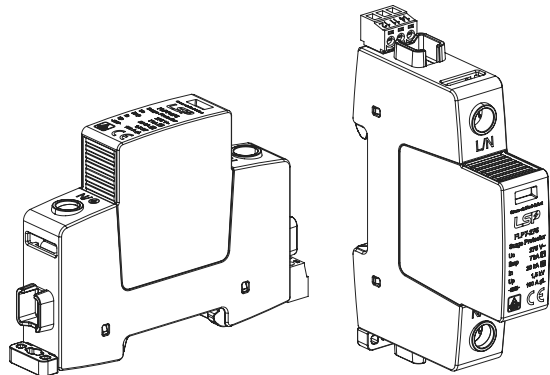
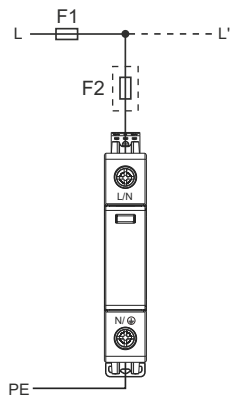
Spare Plug



Single Unit						
FLP7-xxx/0	75	150	275	320	385	440
DIN 43880 Dimension	1 CTN					
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]					
Standard Order Quantity	120 Units					

Connection Diagram

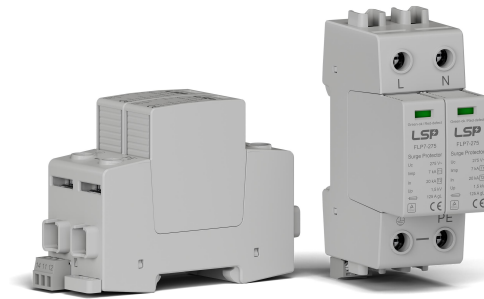
TN-S, TN-C, TT (Single-phase, 1+0)



AC Surge Protective Device

FLP7-xxx/2(S)

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 7 \text{ kA (10/350 } \mu\text{s)}$
 $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

FLP7-xxx/2(S)		75	150	275	320	385	440
IEC Electrical							
Nominal AC Voltage (50/60Hz)	U_o/U_n	60 V	120 V	230 V	230 V	230 V	400 V
Maximum Continuous Operating Voltage (AC)	U_c	75 V	150 V	275 V	320 V	385 V	440 V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	7 kA	7 kA	7 kA	7 kA	7 kA	7 kA
Specific Energy	W/R	12 kJ/ Ω	12 kJ/ Ω	12 kJ/ Ω	12 kJ/ Ω	10 kJ/ Ω	10 kJ/ Ω
Charge	Q	3.5 As	3.5 As	3.5 As	3.5 As	2.5 As	2.5 As
Voltage Protection Level	U_p	400 V	1000 V	1500 V	1600 V	1800 V	2000 V
Residual Current at U_c	I_{PE}	< 0.5 mA					
Response Time	t_A	< 25 ns					
Back-Up Fuse (max)		160 A gL / gG					
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA					
TOV Withstand 5s	U_T	114 V	180 V	335 V	335 V	335 V	580 V
TOV 120min	U_T	114 V	230 V	440 V	440 V	440 V	765 V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
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		80k Pa ... 106k Pa / -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		IP 20 (built-in)					
Housing Material		Thermoplastic: Extinguishing Degree UL 94V-0					
Thermal Protection		Yes					
Operating State / Fault Indication		Green 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

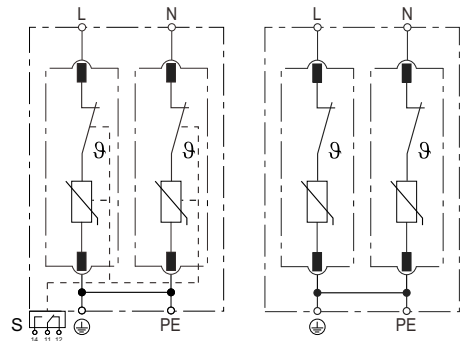
Ordering Code	75	150	275	320	385	440
FLP7-xxx/2	0707521	0715021	0727521	0732021	0738521	0744021
FLP7-xxx/2S (with remote contacts)	0707522	0715022	0727522	0732022	0738522	0744022
FLP7-xxx/0 (spare modules)	0707501	0715001	0727501	0732001	0738501	0744001



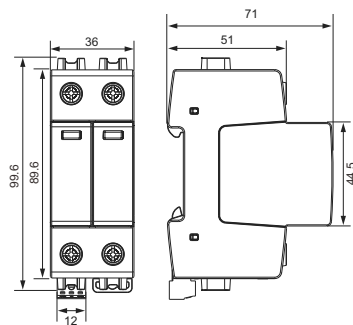
FLP7-xxx/2(S)

Internal Configuration

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



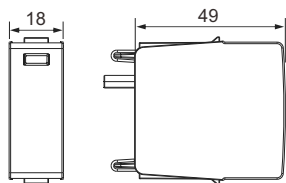
Dimensions & Packaging



[mm]

Complete Unit						
FLP7-xxx/2(S)	75	150	275	320	385	440
DIN 43880 Dimension	1 CTN					
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]					
Standard Order Quantity	48 Units					

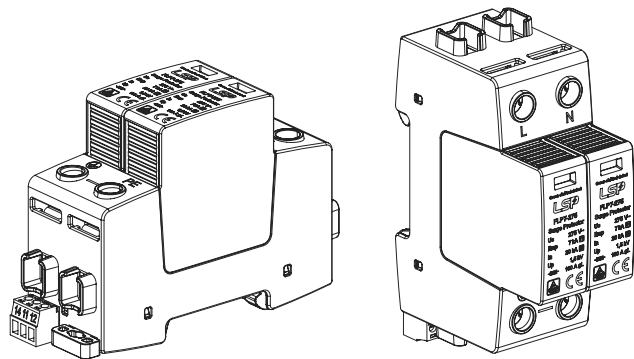
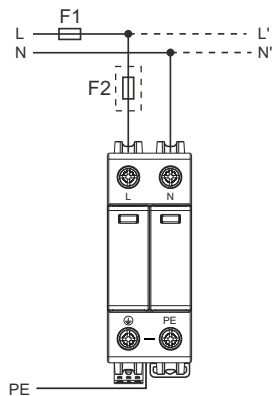
Spare Plug



Single Unit						
FLP7-xxx/0	75	150	275	320	385	440
DIN 43880 Dimension	1 CTN					
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]					
Standard Order Quantity	120 Units					

Connection Diagram

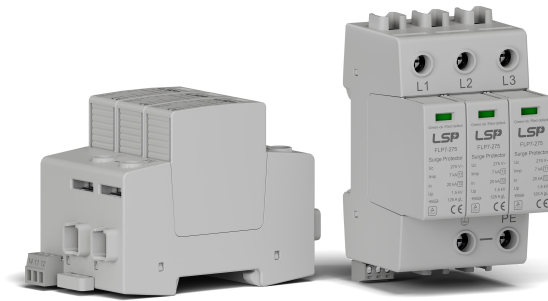
TN-S (Single-phase, 2+0)



AC Surge Protective Device

FLP7-xxx/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: $I_{imp} = 7 \text{ kA (10/350 } \mu\text{s)}$
 $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

FLP7-xxx/3(S)		150	275	320	385	440
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U_o/U_n	120 V	230 V	230 V	230 V	400 V
Maximum Continuous Operating Voltage (AC)	U_c	150 V	275 V	320 V	385 V	440 V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	7 kA	7 kA	7 kA	7 kA	7 kA
Specific Energy	W/R	12 kJ/ Ω	12 kJ/ Ω	12 kJ/ Ω	10 kJ/ Ω	10 kJ/ Ω
Charge	Q	3.5 As	3.5 As	3.5 As	2.5 As	2.5 As
Voltage Protection Level	U_p	1000 V	1500 V	1600 V	1800 V	2000 V
Residual Current at U_c	I_{PE}			< 0.5 mA		
Response Time	t_A			< 25 ns		
Back-Up Fuse (max)				160 A gL / gG		
Short-Circuit Current Rating (AC)	I_{SCCR}			25 kA		
TOV Withstand 5s	U_T	180 V	335 V	335 V	335 V	580 V
TOV 120min	U_T	230 V	440 V	440 V	440 V	765 V
	mode	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
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		80k Pa ... 106k Pa / -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		IP 20 (built-in)				
Housing Material		Thermoplastic: Extinguishing Degree UL 94V-0				
Thermal Protection		Yes				
Operating State / Fault Indication		Green 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

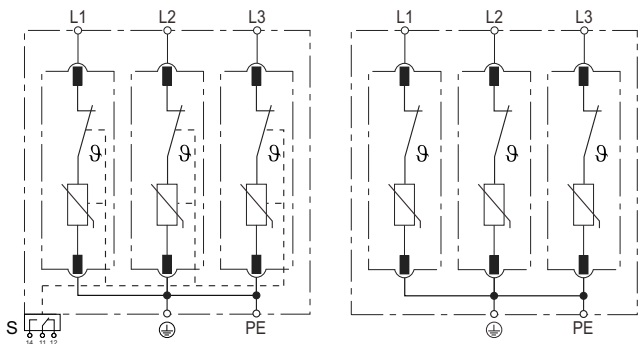
Ordering Code	150	275	320	385	440
FLP7-xxx/3	0715031	0727531	0732031	0738531	0744031
FLP7-xxx/3S (with remote contacts)	0715032	0727532	0732032	0738532	0744032
FLP7-xxx/0 (spare modules)	0715001	0727501	0732001	0738501	0744001



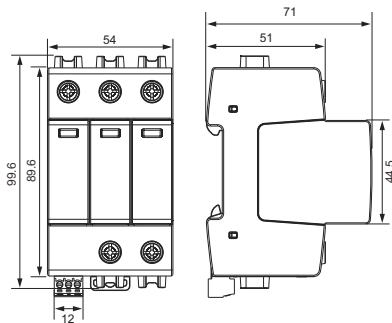
FLP7-xxx/3(S)

Internal Configuration

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

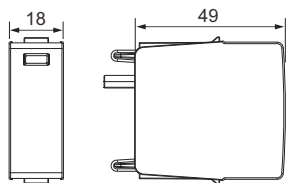


Dimensions & Packaging



Complete Unit					
FLP7-xxx/3(S)	150	275	320	385	440
DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]				
Standard Order Quantity	30 Units				

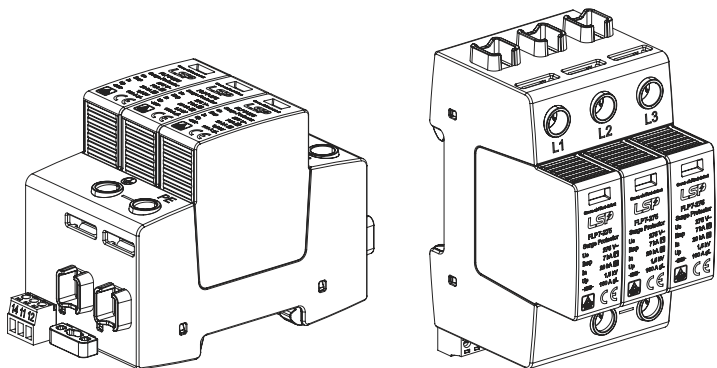
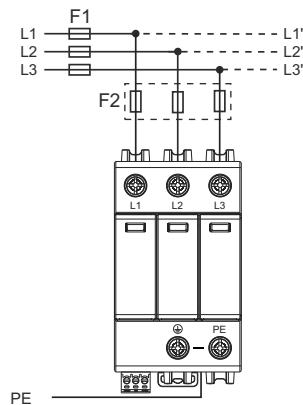
Spare Plug



Single Unit					
FLP7-xxx/0	150	275	320	385	440
DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]				
Standard Order Quantity	120 Units				

Connection Diagram

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



AC Surge Protective Device

FLP7-xxx/4(S)

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards

Network Systems: TN-S

Mode of Protection: L-PE, N-PE

Surge Ratings: $I_{imp} = 7 \text{ kA (10/350 } \mu\text{s)}$

$I_n = 20 \text{ kA (8/20 } \mu\text{s)}$

IEC/EN Category: Class I+II / Type 1+2

Protective Elements: High Energy MOV

Housing: Pluggable Design

Compliance: IEC 61643-11:2011

EN 61643-11:2012

Technical Data

FLP7-xxx/4(S)		150	275	320	385	440
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U_o/U_n	120 V	230 V	230 V	230 V	400 V
Maximum Continuous Operating Voltage (AC)	U_c	150 V	275 V	320 V	385 V	440 V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	7 kA	7 kA	7 kA	7 kA	7 kA
Specific Energy	W/R	12 kJ/ Ω	12 kJ/ Ω	12 kJ/ Ω	10 kJ/ Ω	10 kJ/ Ω
Charge	Q	3.5 As	3.5 As	3.5 As	2.5 As	2.5 As
Voltage Protection Level	U_p	1000 V	1500 V	1600 V	1800 V	2000 V
Residual Current at U_c	I_{PE}			< 0.5 mA		
Response Time	t_A			< 25 ns		
Back-Up Fuse (max)				160 A gL / gG		
Short-Circuit Current Rating (AC)	I_{SCCR}			25 kA		
TOV Withstand 5s	U_T	180 V	335 V	335 V	335 V	580 V
TOV 120min	U_T	230 V	440 V	440 V	440 V	765 V
	mode	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
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		80k Pa ... 106k Pa / -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		IP 20 (built-in)				
Housing Material		Thermoplastic: Extinguishing Degree UL 94V-0				
Thermal Protection		Yes				
Operating State / Fault Indication		Green 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

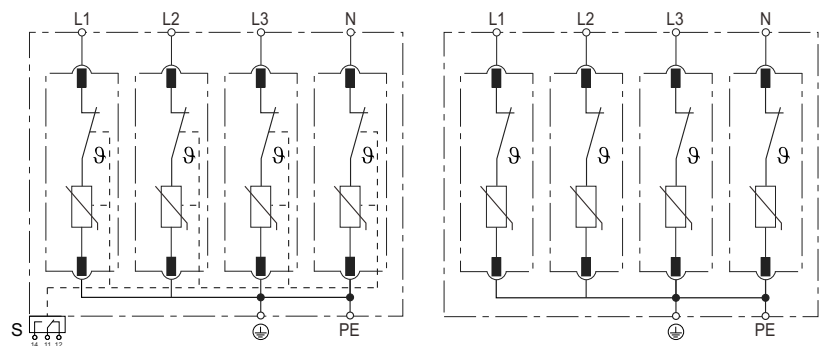
Ordering Code	150	275	320	385	440
FLP7-xxx/4	0715041	0727541	0732041	0738541	0744041
FLP7-xxx/4S (with remote contacts)	0715042	0727542	0732042	0738542	0744042
FLP7-xxx/0 (spare modules)	0715001	0727501	0732001	0738501	0744001



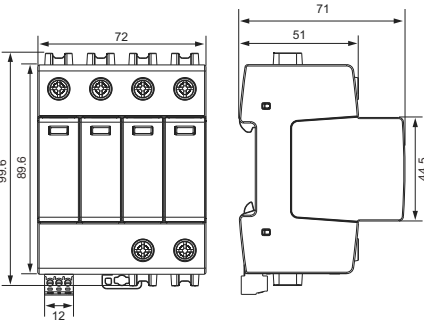
FLP7-xxx/4(S)

Internal Configuration

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



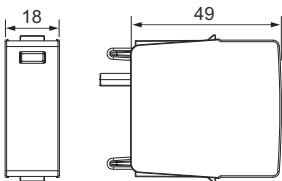
Dimensions & Packaging



[mm]

Complete Unit					
FLP7-xxx/4(S)	150	275	320	385	440
DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]				
Standard Order Quantity	24 Units				

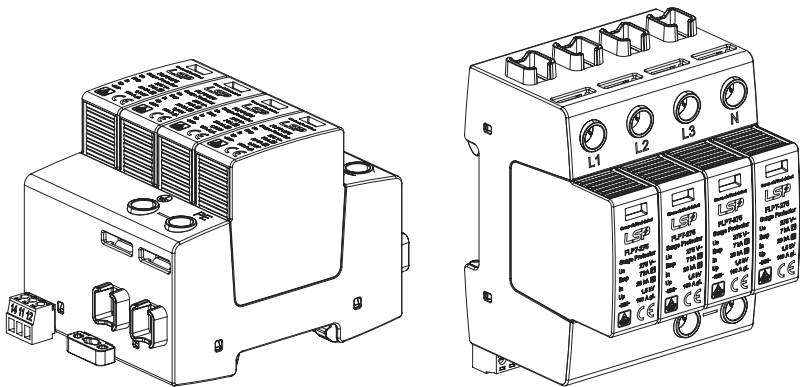
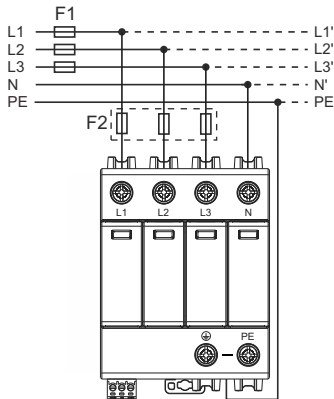
Spare Plug



Single Unit					
FLP7-xxx/0	150	275	320	385	440
DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]				
Standard Order Quantity	120 Units				

Connection Diagram

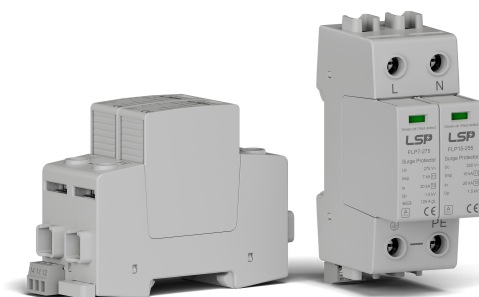
TN-S (Three-phase, 4+0)



AC Surge Protective Device

FLP7-xxx/1(S)+1

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 7 \text{ kA} / 15 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 20 \text{ kA} (8/20 \mu\text{s})$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: High Energy MOV and GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

FLP7-xxx/1(S)+1	75	150	275	320	385	440
IEC Electrical						
Nominal AC Voltage (50/60Hz)	60 V	120 V	230 V	230 V	230 V	400 V
Maximum Continuous Operating Voltage	(L - N) U_c 75 V	150 V	275 V	320 V	385 V	440 V
	(N - PE) U_c		255 V			
Nominal Discharge Current (8/20 μs)	(L - N) / (N - PE) I_n		20 kA / 20 kA			
Maximum Discharge Current (8/20 μs)	(L - N) / (N - PE) I_{max}		50 kA / 50 kA			
Impulse Discharge Current (10/350 μs)	(L - N) / (N - PE) I_{imp}		7 kA / 15 kA			
Specific Energy	(L - N) / (N - PE) W/R		12 kJ/ Ω / 46 kJ/ Ω			
Charge	(L - N) / (N - PE) Q		3.5 As / 7.5 As			
Voltage Protection Level	(L - N) / (N - PE) U_p	0.7 kV / 1.5 kV	1.0 kV / 1.5 kV	1.5 kV / 1.5 kV	1.6 kV / 1.5 kV	1.8 kV / 1.5 kV
Follow Current Interrupt Rating	(N - PE) I_{fi}		100A _{RMS}			
Residual Current at U_c	I_{PE}		none			
Response Time	(L - N) / (N - PE) t_A		< 25 ns / < 100 ns			
Back-Up Fuse (max)			160 A gL / gG			
Short-Circuit Current Rating (AC)	(L - N) I_{SCCR}		25 kA			
TOV Withstand 5s	(L - N) U_T	114 V	180 V	335 V	335 V	580 V
TOV 120 min	(L - N) U_T	114 V	230 V	440 V	440 V	765 V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
TOV Withstand 200 ms	(N - PE) U_T		1200 V			
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		80k Pa ... 106k Pa / -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		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green 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

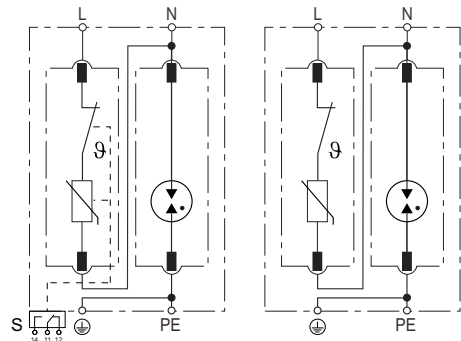
Ordering Code	75	150	275	320	385	440
FLP7-xxx/1+1	0707513	0715013	0727513	0732013	0738513	0744013
FLP7-xxx/1S+1 (with remote contacts)	0707514	0715014	0727514	0732014	0738514	0744014
FLP7-xxx/0 (spare modules)	0707501	0715001	0727501	0732001	0738501	0744001
FLP15-255/0 (spare modules)	1525501	1525501	1525501	1525501	1525501	1525501



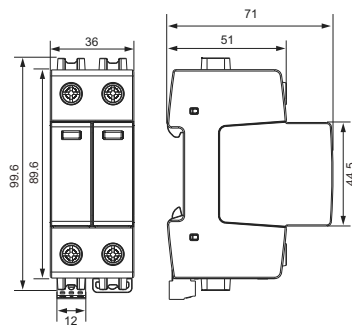
FLP7-xxx/1(S)+1

Internal Configuration

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



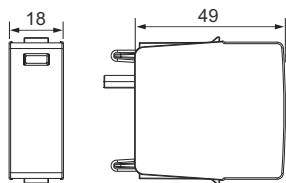
Dimensions & Packaging



[mm]

Complete Unit						
FLP7-xxx/1(S)+1	75	150	275	320	385	440
DIN 43880 Dimension	1 CTN					
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]					
Standard Order Quantity	48 Units					

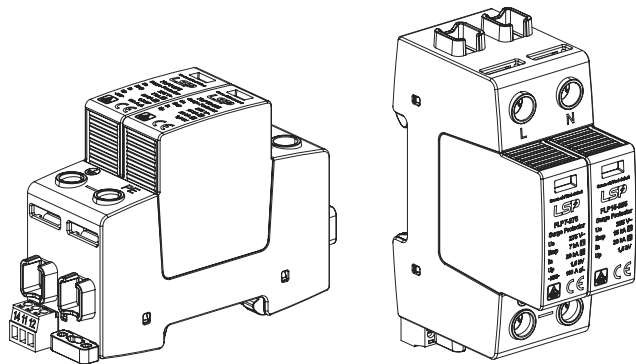
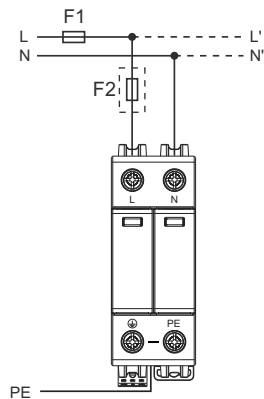
Spare Plug



Single Unit						
FLP7-xxx/0	75	150	275	320	385	440
FLP15-255/0	255					
DIN 43880 Dimension	1 CTN					
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]					
Standard Order Quantity	120 Units					

Connection Diagram

TN-S,TT (Single-phase, 1+1)



AC Surge Protective Device

FLP7-xxx/3(S)+1

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards

Network Systems: TT, TN-S

Mode of Protection: L-N, N-PE

Surge Ratings: $I_{imp} = 7 \text{ kA} / 25 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 20 \text{ kA} (8/20 \mu\text{s})$

IEC/EN Category: Class I+II / Type 1+2

Protective Elements: High Energy MOV and GDT

Housing: Pluggable Design

Compliance: IEC 61643-11:2011

EN 61643-11:2012

Technical Data

FLP7-xxx/3(S)+1	150	275	320	385	440
IEC Electrical					
Nominal AC Voltage (50/60Hz)	120 V	230 V	230 V	230 V	400 V
Maximum Continuous Operating Voltage	(L - N) U_c 150 V	275 V	320 V	385 V	440 V
	(N - PE) U_c		255 V		
Nominal Discharge Current (8/20 μs)	(L - N) / (N - PE) I_n		20 kA / 20 kA		
Maximum Discharge Current (8/20 μs)	(L - N) / (N - PE) I_{max}		50 kA / 50 kA		
Impulse Discharge Current (10/350 μs)	(L - N) / (N - PE) I_{imp}		7 kA / 25 kA		
Specific Energy	(L - N) / (N - PE) W/R		12 kJ/ Ω / 156 kJ/ Ω		
Charge	(L - N) / (N - PE) Q		3.5 As / 12.5 As		
Voltage Protection Level	(L - N) / (N - PE) U_p 1.0 kV / 1.5 kV	1.5 kV / 1.5 kV	1.6 kV / 1.5 kV	1.8 kV / 1.5 kV	2.0 kV / 1.5 kV
Follow Current Interrupt Rating	(N - PE) I_{fi}		100A _{RMS}		
Response Time	(L - N) / (N - PE) t_A		< 25 ns / < 100 ns		
Back-Up Fuse (max)			160 A gL / gG		
Short-Circuit Current Rating (AC)	(L - N) I_{SCCR}		25 kA		
TOV Withstand 5s	(L - N) U_T 180 V	335 V	335 V	335 V	580 V
TOV 120min	(L - N) U_T 230 V	440 V	440 V	440 V	765 V
	mode Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
TOV Withstand 200ms	(N - PE) U_T		1200 V		
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		80k Pa ... 106k Pa / -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		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green 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

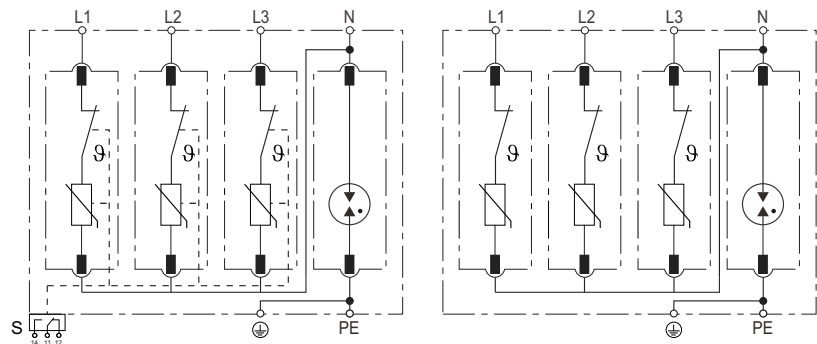
Ordering Code	150	275	320	385	440
FLP7-xxx/3+1	0715033	0727533	0732033	0738533	0744033
FLP7-xxx/3S+1 (with remote contacts)	0715034	0727534	0732034	0738534	0744034
FLP7-xxx/0 (spare modules)	0715001	0727501	0732001	0738501	0744001
FLP25-255/0 (spare modules)	2525501	2525501	2525501	2525501	2525501



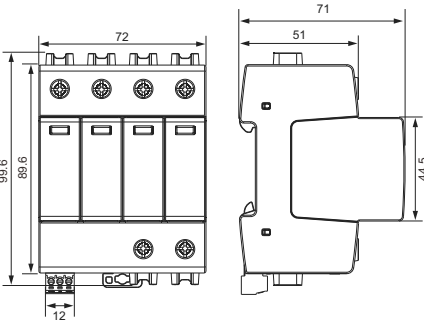
FLP7-xxx/3(S)+1

Internal Configuration

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

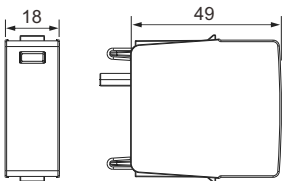


Dimensions & Packaging



Complete Unit					
FLP7-xxx/3(S)+1	150	275	320	385	440
DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]				
Standard Order Quantity	24 Units				

Spare Plug



Single Unit					
FLP7-xxx/0	150	275	320	385	440
FLP25-255/0	255				
DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]				
Standard Order Quantity	120 Units				

Connection Diagram

TN-S, TT (Three-phase, 3+1)

