

# AC Surge Protective Device FLP12,5VG-xxx/1(S)

Class I • Class II • Class III • Type 1 • Type 2 • Type 3



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:  $I_{imp} = 12.5 \text{ kA (10/350 } \mu\text{s)}$   
 $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$   
 $U_{oc} = 6 \text{ kV (1.2/50 } \mu\text{s)}$   
 IEC/EN Category: Class I+II+III / Type 1+2+3  
 Protective Elements: High Energy MOV and GDT  
 Housing: Pluggable Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012

## Technical Data

FLP12,5VG-xxx/1(S)		150	275	320
<b>IEC Electrical</b>				
Nominal AC Voltage (50/60 Hz)	$U_o / U_n$	120 V	230 V	230 V
Maximum Continuous Operating Voltage (AC)	$U_c$	150 V	275 V	320 V
Nominal Discharge Current (8/20 $\mu\text{s}$ )	$I_n$		20 kA	
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$		50 kA	
Impulse Discharge Current (10/350 $\mu\text{s}$ )	$I_{imp}$		12.5 kA	
Open Circuit Voltage (1.2/50 $\mu\text{s}$ )	$U_{oc}$		6 kV	
Specific Energy	W/R		40 kJ/ $\Omega$	
Charge	Q		6.25 As	
Voltage Protection Level	$U_p$		1.5 kV	
Follow Current	$I_f$		none	
Residual Current at $U_c$	$I_{PE}$		none	
Response Time	$t_A$		< 25 ns / < 100 ns	
Max. Backup Fuse			160 A gL / gG	
Short-Circuit Current Rating (AC)	$I_{SCCR}$		50 kA	
TOV Withstand 5 s	$U_T$	180 V	335 V	335 V
TOV 120 min	$U_T$	230 V	440 V	440 V
	mode		Safe Fail	
Number of Ports			1	
<b>Mechanical &amp; Environmental</b>				
Operating Temperature Range	$T_a$	-40 °F to +158 °F [-40 °C to +70 °C]		
Permissible Operating Humidity	RH	5% to 95%		
Atmospheric Pressure and Altitude		80 kPa to 106 kPa / -500 m to 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 <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (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		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 <sup>2</sup> (Solid)		
<b>Order Information</b>				
Ordering Code		150	275	320
FLP12,5VG-xxx/1		1215015	1227515	1232015
FLP12,5VG-xxx/1S (with remote contacts)		1215016	1227516	1232016
FLP12,5VG-xxx/0 (spare modules)		1215002	1227502	1232002

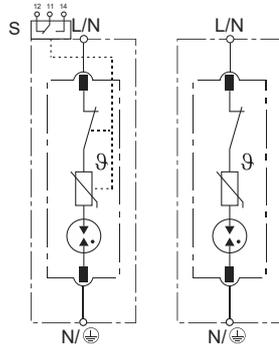


## FLP12,5VG-xxx/1(S)

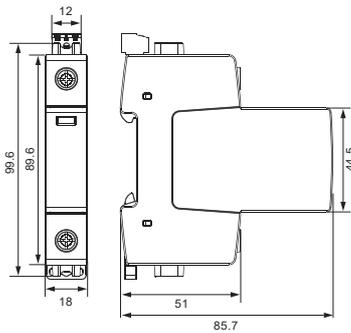
### Internal Configuration

#### Legend

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



### Dimensions & Packaging

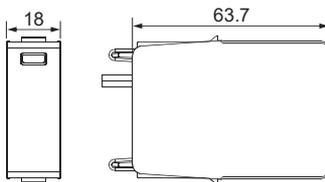


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#### Complete Unit

FLP12,5VG-xxx/1(S)	150	275	320
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	64 Units		

### Spare Plug

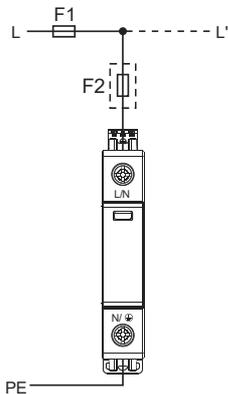


#### Single Unit

FLP12,5VG-xxx/0	150	275	320
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	120 Units		

### Connection Diagram

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



# AC Surge Protective Device FLP12,5VG-xxx/2(S)

Class I • Class II • Class III • Type 1 • Type 2 • Type 3



Location of Use: Main Distribution Boards  
 Network Systems: TN-S  
 Mode of Protection: L-PE, N-PE  
 Surge Ratings:  $I_{imp} = 12.5 \text{ kA (10/350 } \mu\text{s)}$   
 $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$   
 $U_{oc} = 6 \text{ kV (1.2/50 } \mu\text{s)}$   
 IEC/EN Category: Class I+II+III / Type 1+2+3  
 Protective Elements: High Energy MOV and GDT  
 Housing: Pluggable Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012

## Technical Data

FLP12,5VG-xxx/2(S)		150	275	320
<b>IEC Electrical</b>				
Nominal AC Voltage (50/60 Hz)	$U_o / U_n$	120 V	230 V	230 V
Maximum Continuous Operating Voltage (AC)	$U_c$	150 V	275 V	320 V
Nominal Discharge Current (8/20 $\mu\text{s}$ )	$I_n$		20 kA	
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$		50 kA	
Impulse Discharge Current (10/350 $\mu\text{s}$ )	$I_{imp}$		12.5 kA	
Open Circuit Voltage (1.2/50 $\mu\text{s}$ )	$U_{oc}$		6 kV	
Specific Energy	W/R		40 kJ/ $\Omega$	
Charge	Q		6.25 As	
Voltage Protection Level	$U_p$		1.5 kV	
Follow Current	$I_f$		none	
Residual Current at $U_c$	$I_{PE}$		none	
Response Time	$t_A$		< 25 ns / < 100 ns	
Max. Backup Fuse			160 A gL / gG	
Short-Circuit Current Rating (AC)	$I_{SCCR}$		50 kA	
TOV Withstand 5 s	$U_T$	180 V	335 V	335 V
TOV 120 min	$U_T$	230 V	440 V	440 V
	mode		Safe Fail	
Number of Ports			1	
<b>Mechanical &amp; Environmental</b>				
Operating Temperature Range	$T_a$	-40 °F to +158 °F [-40 °C to +70 °C]		
Permissible Operating Humidity	RH	5% to 95%		
Atmospheric Pressure and Altitude		80 kPa to 106 kPa / -500 m to 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 <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (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		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 <sup>2</sup> (Solid)		
<b>Order Information</b>				
Ordering Code		150	275	320
FLP12,5VG-xxx/2		1215025	1227525	1232025
FLP12,5VG-xxx/2S (with remote contacts)		1215026	1227526	1232026
FLP12,5VG-xxx/0 (spare modules)		1215002	1227502	1232002

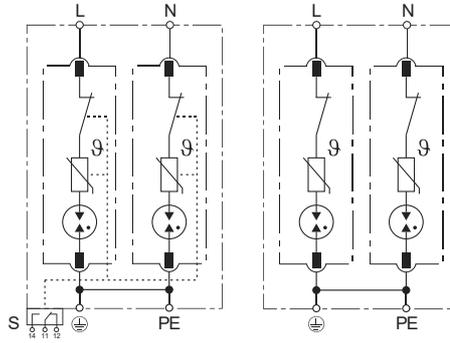


# FLP12,5VG-xxx/2(S)

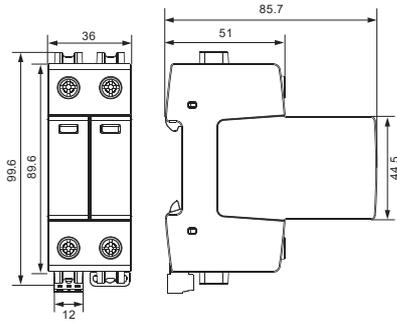
## Internal Configuration

### Legend

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



## Dimensions & Packaging

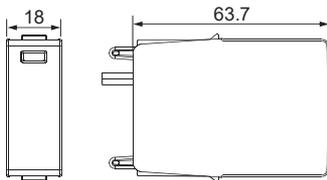


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### Complete Unit

FLP12,5VG-xxx/2(S)	150	275	320
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	28 Units		

## Spare Plug

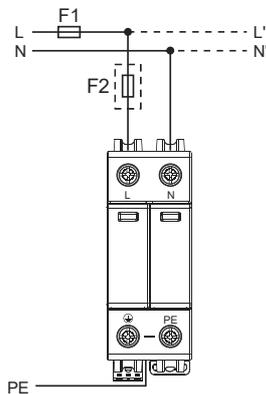


### Single Unit

FLP12,5VG-xxx/0	150	275	320
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	120 Units		

## Connection Diagram

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



# AC Surge Protective Device FLP12,5VG-xxx/3(S)

Class I • Class II • Class III • Type 1 • Type 2 • Type 3



Location of Use: Main Distribution Boards  
 Network Systems: TN-C  
 Mode of Protection: L-PEN  
 Surge Ratings:  $I_{imp} = 12.5 \text{ kA (10/350 } \mu\text{s)}$   
 $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$   
 $U_{oc} = 6 \text{ kV (1.2/50 } \mu\text{s)}$   
 IEC/EN Category: Class I+II+III / Type 1+2+3  
 Protective Elements: High Energy MOV and GDT  
 Housing: Pluggable Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012

## Technical Data

FLP12,5VG-xxx/3(S)		150	275	320
<b>IEC Electrical</b>				
Nominal AC Voltage (50/60 Hz)	$U_o / U_n$	120 V	230 V	230 V
Maximum Continuous Operating Voltage (AC)	$U_c$	150 V	275 V	320 V
Nominal Discharge Current (8/20 $\mu\text{s}$ )	$I_n$		20 kA	
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$		50 kA	
Impulse Discharge Current (10/350 $\mu\text{s}$ )	$I_{imp}$		12.5 kA	
Open Circuit Voltage (1.2/50 $\mu\text{s}$ )	$U_{oc}$		6 kV	
Specific Energy	W/R		40 kJ/ $\Omega$	
Charge	Q		6.25 As	
Voltage Protection Level	$U_p$		1.5 kV	
Follow Current	$I_f$		none	
Residual Current at $U_c$	$I_{PE}$		none	
Response Time	$t_A$		< 25 ns / < 100 ns	
Max. Backup Fuse			160 A gL / gG	
Short-Circuit Current Rating (AC)	$I_{SCCR}$		50 kA	
TOV Withstand 5 s	$U_T$	180 V	335 V	335 V
TOV 120 min	$U_T$	230 V	440 V	440 V
	mode		Safe Fail	
Number of Ports			1	
<b>Mechanical &amp; Environmental</b>				
Operating Temperature Range	$T_a$	-40 °F to +158 °F [-40 °C to +70 °C]		
Permissible Operating Humidity	RH	5% to 95%		
Atmospheric Pressure and Altitude		80 kPa to 106 kPa / -500 m to 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 <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (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		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 <sup>2</sup> (Solid)		
<b>Order Information</b>				
Ordering Code		150	275	320
FLP12,5VG-xxx/3		1215035	1227535	1232035
FLP12,5VG-xxx/3S (with remote contacts)		1215036	1227536	1232036
FLP12,5VG-xxx/0 (spare modules)		1215002	1227502	1232002

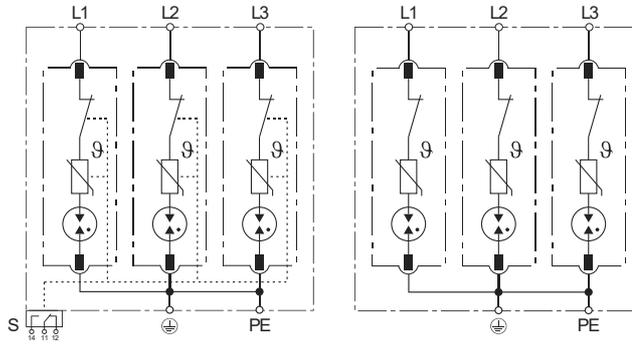


# FLP12,5VG-xxx/3(S)

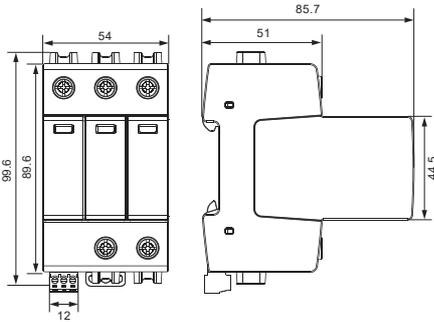
## Internal Configuration

### Legend

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



## Dimensions & Packaging

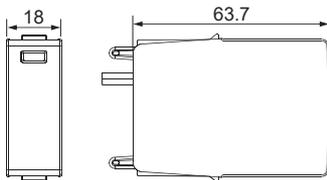


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### Complete Unit

FLP12,5VG-xxx/3(S)	150	275	320
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	20 Units		

## Spare Plug

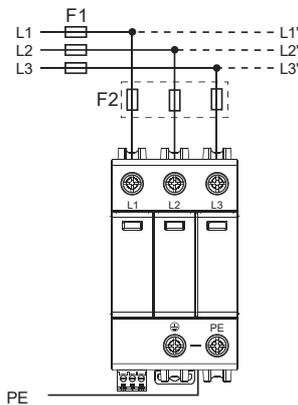


### Single Unit

FLP12,5VG-xxx/0	150	275	320
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	120 Units		

## Connection Diagram

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



# AC Surge Protective Device FLP12,5VG-xxx/4(S)

Class I • Class II • Class III • Type 1 • Type 2 • Type 3



Location of Use: Main Distribution Boards  
 Network Systems: TN-S  
 Mode of Protection: L-PE, N-PE  
 Surge Ratings:  $I_{imp} = 12.5 \text{ kA (10/350 } \mu\text{s)}$   
 $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$   
 $U_{oc} = 6 \text{ kV (1.2/50 } \mu\text{s)}$   
 IEC/EN Category: Class I+II+III / Type 1+2+3  
 Protective Elements: High Energy MOV and GDT  
 Housing: Pluggable Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012

## Technical Data

FLP12,5VG-xxx/4(S)		150	275	320
<b>IEC Electrical</b>				
Nominal AC Voltage (50/60 Hz)	$U_o / U_n$	120 V	230 V	230 V
Maximum Continuous Operating Voltage (AC)	$U_c$	150 V	275 V	320 V
Nominal Discharge Current (8/20 $\mu\text{s}$ )	$I_n$		20 kA	
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$		50 kA	
Impulse Discharge Current (10/350 $\mu\text{s}$ )	$I_{imp}$		12.5 kA	
Open Circuit Voltage (1.2/50 $\mu\text{s}$ )	$U_{oc}$		6 kV	
Specific Energy	W/R		40 kJ/ $\Omega$	
Charge	Q		6.25 As	
Voltage Protection Level	$U_p$		1.5 kV	
Follow Current	$I_f$		none	
Residual Current at $U_c$	$I_{PE}$		none	
Response Time	$t_A$		< 25 ns / < 100 ns	
Max. Backup Fuse			160 A gL / gG	
Short-Circuit Current Rating (AC)	$I_{SCCR}$		50 kA	
TOV Withstand 5 s	$U_T$	180 V	335 V	335 V
TOV 120 min	$U_T$	230 V	440 V	440 V
	mode		Safe Fail	
Number of Ports			1	
<b>Mechanical &amp; Environmental</b>				
Operating Temperature Range	$T_a$	-40 °F to +158 °F [-40 °C to +70 °C]		
Permissible Operating Humidity	RH	5% to 95%		
Atmospheric Pressure and Altitude		80 kPa to 106 kPa / -500 m to 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 <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (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		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 <sup>2</sup> (Solid)		
<b>Order Information</b>				
Ordering Code		150	275	320
FLP12,5VG-xxx/4		1215045	1227545	1232045
FLP12,5VG-xxx/4S (with remote contacts)		1215046	1227546	1232046
FLP12,5VG-xxx/0 (spare modules)		1215002	1227502	1232002

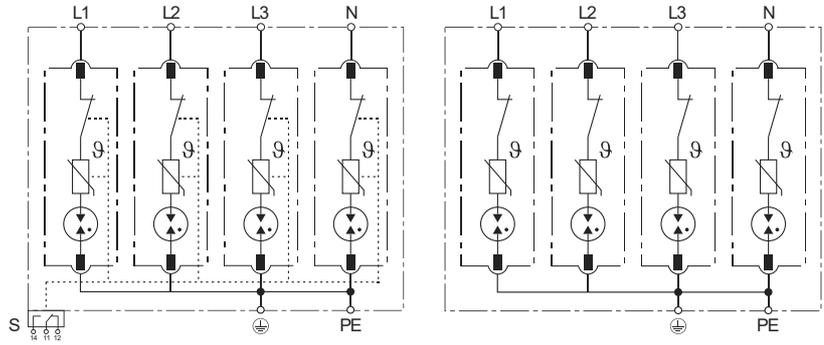


# FLP12,5VG-xxx/4(S)

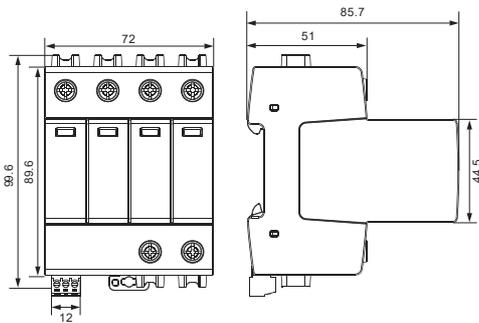
## Internal Configuration

### Legend

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



## Dimensions & Packaging

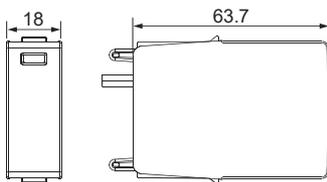


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### Complete Unit

FLP12,5VG-xxx/4(S)	150	275	320
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	16 Units		

## Spare Plug

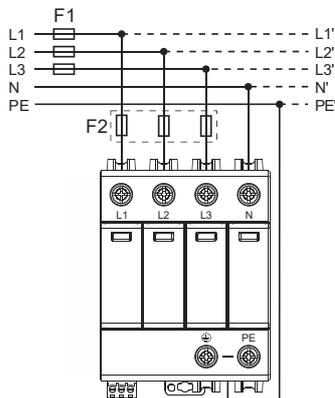


### Single Unit

FLP12,5VG-xxx/0	150	275	320
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	120 Units		

## Connection Diagram

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



# AC Surge Protective Device FLP12,5VG-xxx/1(S)+1

Class I • Class II • Class III • Type 1 • Type 2 • Type 3



Location of Use: Main Distribution Boards  
 Network Systems: TT, TN-S  
 Mode of Protection: L-N, N-PE  
 Surge Ratings:  $I_{imp} = 12.5 \text{ kA} / 25 \text{ kA} (10/350 \mu\text{s})$   
 $I_n = 20 \text{ kA} (8/20 \mu\text{s})$   
 $U_{oc} = 6 \text{ kV} (1.2/50 \mu\text{s})$   
 IEC/EN Category: Class I+II+III / Type 1+2+3  
 Protective Elements: High Energy MOV and GDT  
 Housing: Pluggable Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012

## Technical Data

### FLP12,5VG-xxx/1(S)+1

		150	275	320
<b>IEC Electrical</b>				
Nominal AC Voltage (50/60 Hz)	$U_o / U_n$	120 V	230 V	230 V
Maximum Continuous Operating Voltage	(L-N) $U_c$	150 V	275 V	320 V
	(N-PE) $U_c$		255 V	
Nominal Discharge Current (8/20 $\mu\text{s}$ )	(L-N) / (N-PE) $I_n$		20 kA / 25 kA	
Maximum Discharge Current (8/20 $\mu\text{s}$ )	(L-N) / (N-PE) $I_{max}$		50 kA / 50 kA	
Impulse Discharge Current (10/350 $\mu\text{s}$ )	(L-N) / (N-PE) $I_{imp}$		12.5 kA / 25 kA	
Open Circuit Voltage (1.2/50 $\mu\text{s}$ )	$U_{oc}$		6 kV	
Specific Energy	(L-N) / (N-PE) W/R		40 kJ/ $\Omega$ / 156 kJ/ $\Omega$	
Charge	(L-N) / (N-PE) Q		6.25 As / 12.5 As	
Voltage Protection Level	(L-N) / (N-PE) $U_p$		1.5 kV / 1.5 kV	
Follow Current	$I_f$		none	
Residual Current at $U_c$	$I_{PE}$		none	
Response Time	(L-N) / (N-PE) $t_A$		< 25 ns / < 100 ns	
Max. Backup Fuse			160 A gL / gG	
Short-Circuit Current Rating (AC)	(L-N) $I_{SCCR}$		50 kA	
TOV Withstand 5 s	(L-N) $U_T$	180 V	335 V	335 V
TOV 120 min	(L-N) $U_T$	230 V	440 V	440 V
	mode		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% to 95%		
Atmospheric Pressure and Altitude		80 kPa to 106 kPa / -500 m to 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 <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (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		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 <sup>2</sup> (Solid)		

### Order Information

	150	275	320
Ordering Code			
FLP12,5VG-xxx/1+1	1215017	1227517	1232017
FLP12,5VG-xxx/1S+1 (with remote contacts)	1215018	1227518	1232018
FLP12,5VG-xxx/0 (spare modules)	1215002	1227502	1232002
FLP25VG-255/0 (spare modules)	2525503	2525503	2525503

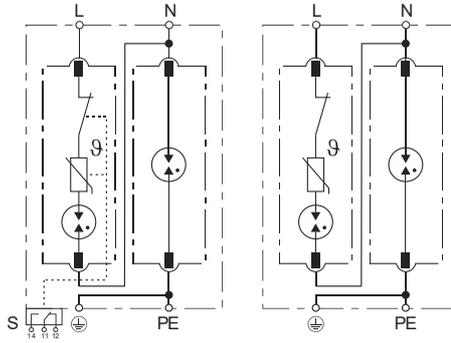


## FLP12,5VG-xxx/1(S)+1

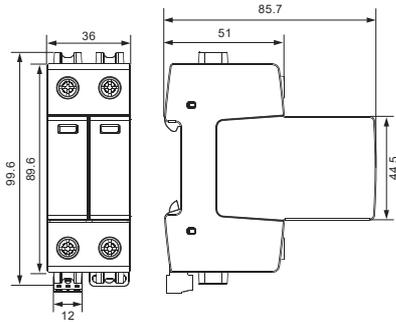
### Internal Configuration

#### Legend

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



### Dimensions & Packaging

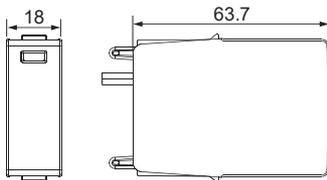


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#### Complete Unit

FLP12,5VG-xxx/1(S)+1	150	275	320
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	28 Units		

### Spare Plug

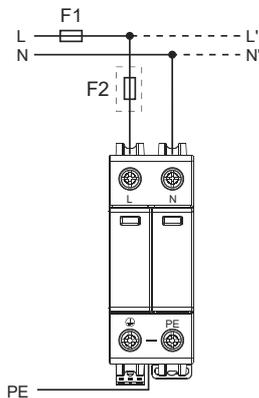


#### Single Unit

FLP12,5VG-xxx/0	150	275	320
FLP25VG-255/0	255		
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	120 Units		

### Connection Diagram

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



# AC Surge Protective Device FLP12,5VG-xxx/3(S)+1

Class I • Class II • Class III • Type 1 • Type 2 • Type 3



Location of Use: Main Distribution Boards  
 Network Systems: TT, TN-S  
 Mode of Protection: L-N, N-PE  
 Surge Ratings:  $I_{imp} = 12.5 \text{ kA} / 50 \text{ kA} (10/350 \mu\text{s})$   
 $I_n = 20 \text{ kA} (8/20 \mu\text{s})$   
 $U_{oc} = 6 \text{ kV} (1.2/50 \mu\text{s})$   
 IEC/EN Category: Class I+II+III / Type 1+2+3  
 Protective Elements: High Energy MOV and GDT  
 Housing: Pluggable Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012

## Technical Data

FLP12,5VG-xxx/3(S)+1		150	275	320
<b>IEC Electrical</b>				
Nominal AC Voltage (50/60 Hz)	$U_o / U_n$	120 V	230 V	230 V
Maximum Continuous Operating Voltage	(L-N) $U_c$	150 V	275 V	320 V
	(N-PE) $U_c$		255 V	
Nominal Discharge Current (8/20 $\mu\text{s}$ )	(L-N) / (N-PE) $I_n$		20 kA / 50 kA	
Maximum Discharge Current (8/20 $\mu\text{s}$ )	(L-N) / (N-PE) $I_{max}$		50 kA / 100 kA	
Impulse Discharge Current (10/350 $\mu\text{s}$ )	(L-N) / (N-PE) $I_{imp}$		12.5 kA / 50 kA	
Open Circuit Voltage (1.2/50 $\mu\text{s}$ )	$U_{oc}$		6 kV	
Specific Energy	(L-N) / (N-PE) W/R		40 kJ/ $\Omega$ / 625 kJ/ $\Omega$	
Charge	(L-N) / (N-PE) Q		6.25 As / 25 As	
Voltage Protection Level	(L-N) / (N-PE) $U_p$		1.5 kV / 1.5 kV	
Follow Current	$I_f$		none	
Residual Current at $U_c$	$I_{PE}$		none	
Response Time	(L-N) / (N-PE) $t_A$		< 25 ns / < 100 ns	
Max. Backup Fuse			160 A gL / gG	
Short-Circuit Current Rating (AC)	(L-N) $I_{SCCR}$		50 kA	
TOV Withstand 5 s	(L-N) $U_T$	180 V	335 V	335 V
TOV 120 min	(L-N) $U_T$	230 V	440 V	440 V
	mode		Safe Fail	
TOV Withstand 200 ms	(N-PE) $U_T$		1200 V	
Number of Ports			1	
<b>Mechanical &amp; Environmental</b>				
Operating Temperature Range	$T_a$	-40 °F to +158 °F [-40 °C to +70 °C]		
Permissible Operating Humidity	RH	5% to 95%		
Atmospheric Pressure and Altitude		80 kPa to 106 kPa / -500 m to 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 <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (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		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 <sup>2</sup> (Solid)		
<b>Order Information</b>				
Ordering Code		150	275	320
FLP12,5VG-xxx/3+1		1215037	1227537	1232037
FLP12,5VG-xxx/3S+1 (with remote contacts)		1215038	1227538	1232038
FLP12,5VG-xxx/0 (spare modules)		1215002	1227502	1232002
FLP50VG-255/0 (spare modules)		5025502	5025502	5025502

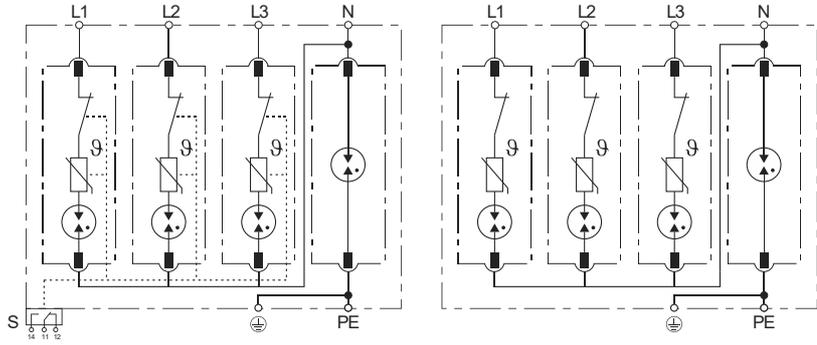


# FLP12,5VG-xxx/3(S)+1

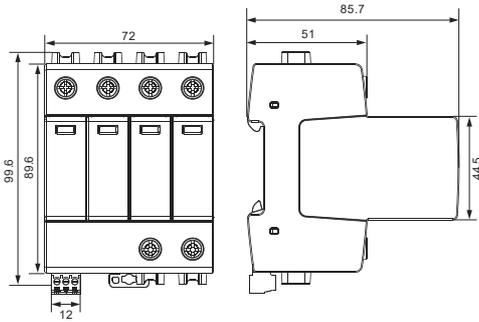
## Internal Configuration

### Legend

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



## Dimensions & Packaging

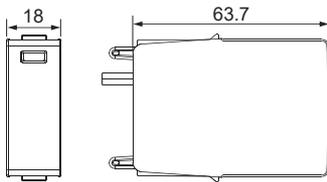


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### Complete Unit

FLP12,5VG-xxx/3(S)+1	150	275	320
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	16 Units		

## Spare Plug



### Single Unit

FLP12,5VG-xxx/0	150	275	320
FLP50VG-255/0	255		
DIN 43880 Dimension	1 CTN		
Packaging Dimensions (H x W x L)	[210 × 220 × 330 mm]		
Standard Order Quantity	120 Units		

## Connection Diagram

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

