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AC Surge Protection Device

EAP SERIES AC SPD T1+T2 $I_{max}:100kA$

Leading Manufacturer Protects Solar Power Safety

Rev2.0 2022/09/09



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Product Application

EAP Series Surge Protection Device was designed and manufactured, complying standard GB/T18802.1 IEC/EN 61643-11 , Rated voltage 275V~、 320V~、 385V~、 440V~,Maximum discharge current 50kA,High Energy Varistor, high effective for lightning protection.

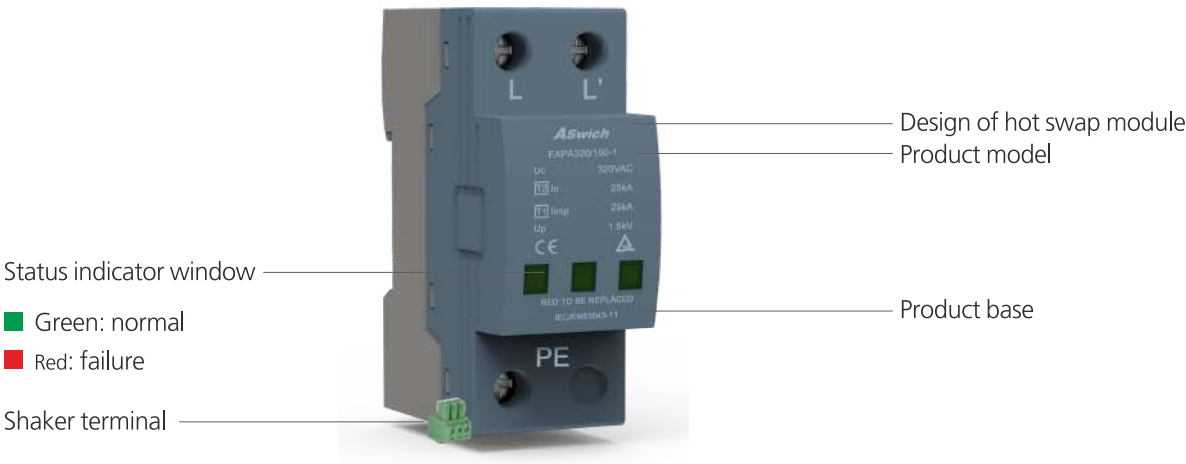
Product Benefits

- Prewired Modular Complete Unit, Consisting of A Base Part and Plug-in Protection Modules.
- Plug-in Protection Module, Easily Installation and Maintenance.
- High Energy Varistor, Response Time Less Than 25 Nanosecond
- Optional Remote Signalling Contact(FM) for Monitoring Device (Floating Changeover Contact)

Select Code

E	A	P	A320	/	□	-	□	□
1	2	3	4		5		6	7
Code	Name	Description						
1	Aswisch brand	E						
2	AC	A						
3	Product Code	P: Surge Protector						
4	Voltage	A275:275V A320:320V A385:385V A440:440V						
5	I _{max}	100:100kA						
6	Pole	1:1P 2:2P 3:3P 4:4P 5:1+NPE 6:3+NPE						
7	Remote signal	R: with RC Nil: with out RC						

Appearance Introduction



EAP SERIES AC SPD T1+T2 I_{max}:100kA

Technical Data



Product model					
IEC Electrical					
Nominal AC Voltage (50/60Hz)	U _o /U _n	230V			
Maximum Continuous Operating Voltage (AC)	U _c	275V	320V	385V	440V
Nominal Discharge Current (8/20 μs)	I _n	25kA	25kA	25kA	25kA
Maximum Discharge Current (8/20 μs)	I _{max}	100kA	100kA	100kA	100kA
Impulse Discharge Current (10/350 μs)	I _{Imp}	25kA			
Voltage Protection Level	U _p	< 1500V	< 1500V	< 1800V	< 2000V
Response Time	t _A	< 25ns			
Back-Up Fuse (max)		315A gL			
Short-Circuit Current Rating (AC)	I _{SCCR}	25kA / 50kA			
TOV Withstand 5s	U _T	335V			
	U _T	440V			
TOV 120min	Mode	Safe Fail			
Number of Ports		1			
UL Electrical					
Maximum Continuous Operating Voltage (AC)	MCOV	275V	320V	385V	440V
Voltage Protection Rating	VPR	900V	1000V	1200V	1200V
Nominal Discharge Current (8/20 μs)	I _n	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	I _{SCCR}	150kA	150kA	150kA	200kA
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 / -500m ... 2000m			
Terminal Screw Torque	M _{max}	39.9 lbf·in [2.0~2.5 N·m]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)			
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)			
Mounting		35mm 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: failure			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC:250V / 0.5A; DC:250V / 0.1A; 125V / 0.2A; 75V / 0.5A			
RC Conductor Cross Section (max)		16AWG (Solid) / 1.5mm ² (Solid)			

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Technical Data

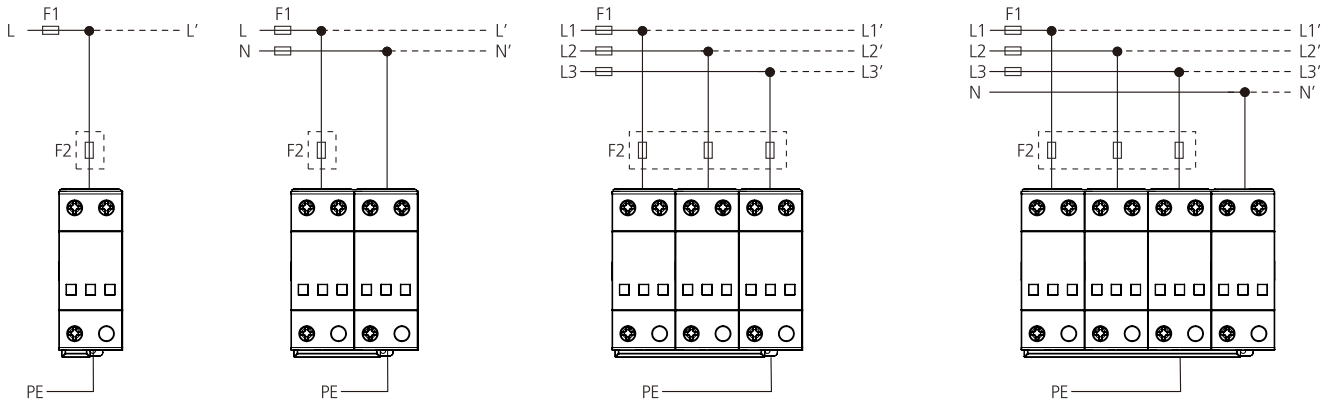


275 320 385 440

IEC Electrical							
Nominal AC Voltage (50/60Hz)			230V	230V	230V	400V	
Maximum Continuous Operating Voltage	(L-N)	U _c	275V	320V	385V	440V	
	(N-PE)	U _c	255V	255V	255V	255V	
Nominal Discharge Current (8/20 μs)	(L-N) / (N-PE)	I _n	25kA / 50kA / 100kA				
Maximum Discharge Current (8/20 μs)	(L-N) / (N-PE)	I _{max}	100kA				
Impulse Discharge Current (10/350 μs)	(L-N) / (N-PE)	I _{Imp}	25kA / 50kA / 100kA				
Total Discharge Current (10/350 μs)		I _{total}	100kA				
Specific Energy	(L-N) / (N-PE)	W/R	156kJ / Ω / 2.5 M kJ / Ω				
Charge	(L-N) / (N-PE)	Q	12.5As / 50AS				
Voltage Protection Level	(L-N) / (N-PE)	U _p	1500V / 1500V	1500V / 1500V	1800V / 1500V	2000V / 1500V	
Follow Current Interrupt Rating	(N-PE)	I _{fi}	100A _{RMS}				
Response Time	(L-N) / (N-PE)	t _A	< 25ns / < 100ns				
Back-Up Fuse (max)			315A gL / gG				
Short-Circuit Current Rating (AC)	(L-N)	I _{SCCR}	50kA				
TOV Withstand 5s	(L-N)	U _T	180V	335V	335V	335V	
TOV 120min	(L-N)	U _T	230V	440V	440V	440V	
Tov Withstand 200ms	(N-PE)	U _T	1200V				
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 / -500m ... 2000m				
Terminal Screw Torque		M _{max}	26.5 lbf·in [3.0 N·m]				
Conductor Cross Section (max)			2 AWG (Solid, Stranded) / 4 AWG (Flexible)				
			35mm ² (Solid, Stranded) / 25mm ² (Flexible)				
Mounting			35mm 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:250V / 0.5A; DC:250V / 0.1A; 125V / 0.2A; 75V / 0.5A				
RC Conductor Cross Section (max)			16AWG (Solid) / 1.5mm ² (Solid)				
Order Information							
Order Code			275	320	385		
EAPAXXX/100-6			2527533	2532033	2538533		
EAPAXXX/100-6R (with remote contacts)			2527534	2532034	2538534		

EAP SERIES AC SPD T1+T2 I_{max}:100kA

Wiring Method



Schematic Diagram

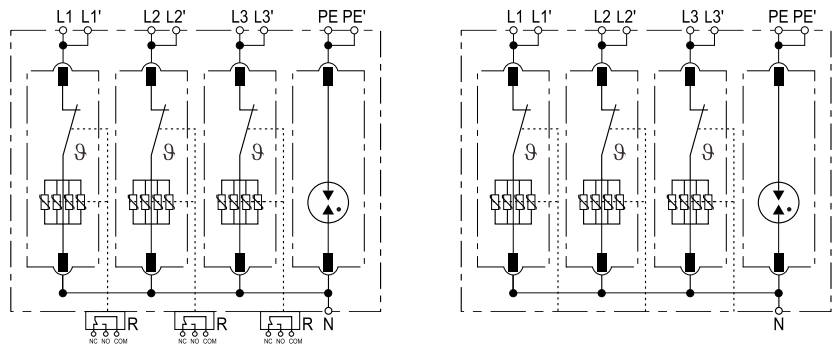
Legend

L/L' Line

N Neutral

PE/PE' Protective Earth

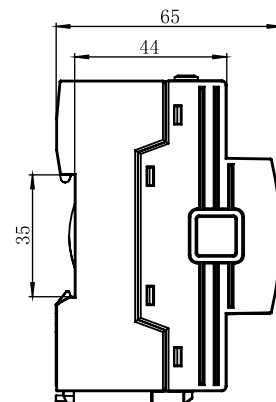
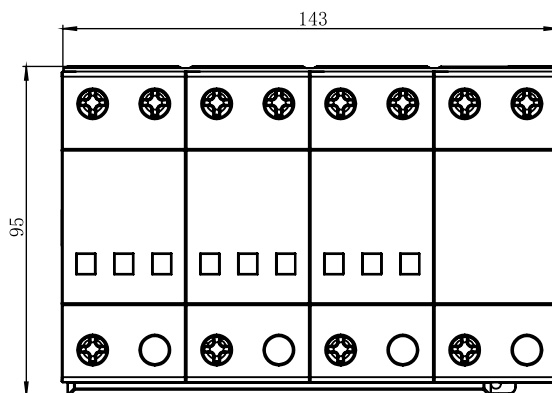
S Signalling Contacts Optional



Dimensions(mm)

Dimensions & Packaging

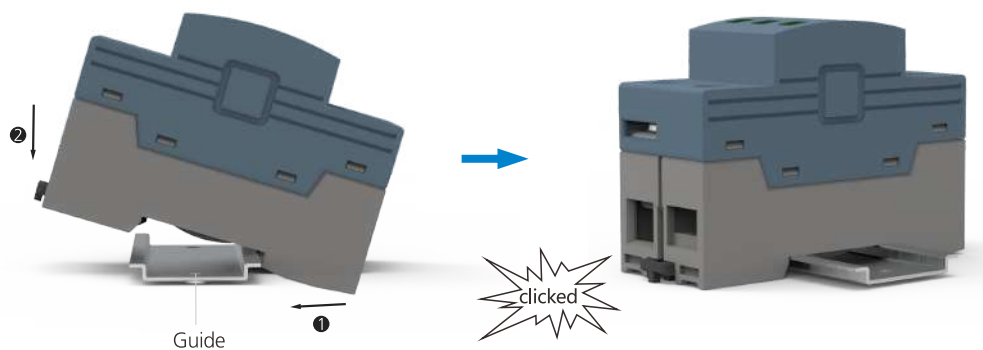
EAPAXXX/100-6R (with remote contacts)	150	275	320	385	440
Single Unit DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H × W × L)	[65 × 95 × 143mm]				
Minimum Order Quantity	12 Units				



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Installation



Disassembly

