

1-phase Type 2 AC power Surge Protector

DS240



The DS240 Type 2 surge protectors are compact devices designed to protect single phase networks at the main switchboard. They provide a common mode protection.

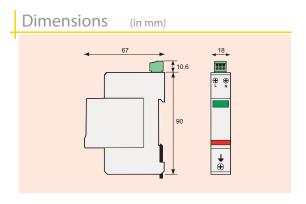
DS240 are available for 230V or 120V AC network and the different distribution systems (TN, TT, IT).

This SPD is based on high energy varistor equipped with thermal disconnectors and failure indicator, to comply with standards. Version with a remote signaling for disconnection indication is also available (DS240S).

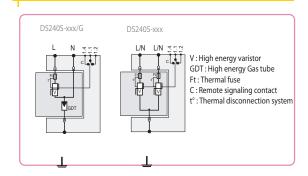
The DS240 is DIN rail compatible and is built with a plug-in module and a fixed base, which allows an easy and fast maintenance. Surge protection of 3-Phase AC network is also possible by association of two DS240s (L1 and L2 connected on the first one, L3 and N connected on the second one, and earthing interconnection of both SPDs).

- Compact single-phase Type 2 SPD
- Discharge currents: In: 20 kA / Imax: 40 kA
- Common/Differential mode
- Pluggable module
- Remote signaling contact (option)
- Complies with EN 61643-11 and IEC 61643-1

Part number		Neutral	Protection mode		aling	
available	Network	configuration	common	differential	Remote signaling	
DS240-230/G	230 V Single phase	TT-TN	•	•		
DS240S-230/G	230 V Single phase	TT-TN	•			
DS240-400	230 V Single phase	IT	•			
DS240S-400	230 V Single phase	IT	•		•	
DS240-230	230 V Single phase	TN	•			
DS240S-230	230 V Single phase	TN	•		•	
DS240-120/G	120 V Single phase	TT-TN	•	•		
DS240S-120/G	120 V Single phase	TT-TN	•			
DS240-120	120 V Single phase	TT-TN	•			
DS240S-120	120 V Single phase	TT-TN	•		•	



Electrical diagram



Characteristics

	Characte	.115(1	C3				
	CITEL part number			DS240-400	DS240-230/G	DS240-120/G	
	Single-phase network			230 V	230 V	120 V	
	Neutral configuration	n		TT-TN-IT	TN	TN	
	Max. operating volt	age	Uc	400 Vac	255 Vac	150 Vac	
	Temporary overvoltage withstand U _T Operating current Ic Leakage current at Uc			400 Vac	255 Vac	150 Vac	
				< 1 mA	< 1 mA	< 1 mA	
	Protection mode(s))		MC(2)	MC/MD (2)	MC/MD (2)	
	Nominal discharge cu 15 x 8/20 µs impulsi		ln	20 kA	20 kA	20 kA	
	Maximum discharge max. withstand 8/20		lmax	40 kA	40 kA	40 kA	
	Protection level (at	ln)	Up	1.8 kV	1.5/1.25 kV (2)	1.5/0.9 kV (2)	
	Residual voltage at 5	5 k		1.3 kV	0.9 kV	0.6 kV	
	Admissible short-circ	uit curren	t	10000 A	10000 A	10000 A	
	Associated disconnection devices Thermal disconnector Fuses Installation ground fault breaker Mechanical characteristics Dimensions Connection Disconnection indicator Remote signaling of disconnection						
				internal			
				Fuses type gG - 50 A max. (see Note 1)			
				Type «S» or delayed			
				see diagram			
				by screw terminals: 1,5-10 mm ² (L/N) or 2,5-25 mm ² (PE)			
				2 mechanical indicators			
				Option DS240S - output on changeover contact			
	Mounting			symmetrical rail 35 mm			
	Operating temperature			-40/+85 °C			
	Protection class			IP20			
				Thermoplastic UL94-V0			
				Parafoudre Basse Tension - Essais Classe II			
	IEC 61643-1 International			Low Voltage SPD - Test Class II			
	· · · · · · · · · · · · · · · · · · ·			Low Voltage SPD - Test Class II			
				Low Voltage TVSS			

CITEL INC | 11381 Interchange Circle South | Miramar, FL 33025 USA Toll Free: 800.248.3548 | Tel: 954.430.6310 | Fax: 954.430.7785 | www.citel.us | sales@citel.us