

1-phase Type 2 Surge Protector DS240 series

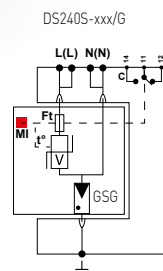
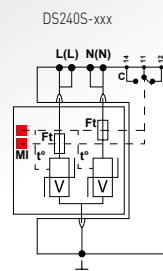
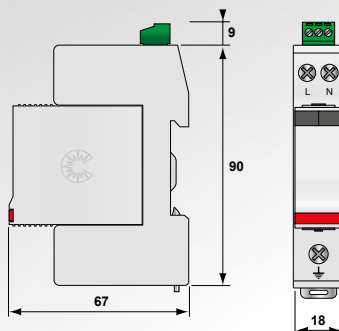


CITEL

**I_{max}
40 kA**



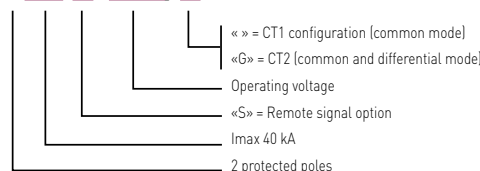
DS240-400



V : High energy varistor
Ft : Thermal fuse
MI : Remote signaling contact
t° : Thermal disconnection system
GSG : Specific gas tube
MI : Disconnection indicator

- Compact single-phase Type 2
- In : 20 kA
- I_{max} : 40 kA
- Common/Differential mode
- Pluggable module
- Remote signaling contact (option)
- Complies with EN 61643-11 and IEC 61643-11
- UL1449 ed.4

DS240 S-xxx/G



Characteristics

CITEL Model		DS240-400	DS240-230	DS240-230/G	DS240-120	DS240-120/G
Description		Compact 1-phase Type 2 Surge Protector - 230 V - Pluggable			Compact 1-phase Type 2 Surge Protector - 120 V - Pluggable	
Network		230 V single phase	230 V single phase	230 V single phase	120 V single phase	120 V single phase
Connection mode		L/PE and N/PE	L/PE and N/PE	L/N and N/PE	L/PE and N/PE	L/N and N/PE
AC system		IT	TN	TT-TN	TN	TT-TN
Max. AC operating voltage	Uc	440 Vac	255 Vac	255 Vac	150 Vac	150 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec.	UT	580 Vac withstand	335 Vac withstand	335 Vac withstand	180 Vac withstand	180 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 ms	UT	770 Vac disconnection	440 Vac disconnection	440 Vac disconnection	230 Vac disconnection	230 Vac disconnection
Temporary Over Voltage N/PE (TOV HT)	UT	-	-	1200 V/300A/200 ms withstand	-	1200 V/300A/200 ms withstand
Residual current - Leakage current at Uc	Ipe	< 1 mA	< 1 mA	None	< 1 mA	None
Max. Load current (if connection serie)	IL	20 A	20 A	20 A	20 A	20 A
Follow current	If	None	None	None	None	None
Nominal discharge current - 15 x 8/20 μs impulses	In	20 kA	20 kA	20 kA	20 kA	20 kA
Max. discharge current - max. withstand @ 8/20 μs by pole	Imax	40 kA	40 kA	40 kA	40 kA	40 kA
Protection level CM/DM @In (8/20μs) and @ 6kV (1.2/50μs)	Up	1.8 kV	1.25 kV	1.5/1.25 kV	0.9 kV	1.5/0.9 kV
Admissible short-circuit current	Iscrr	10000 A	10000 A	10000 A	10000 A	10000 A
Associated disconnectors						
Thermal disconnector		internal				
Fuses		Fuses Type gG - 50 A*				
Installation ground fault breaker		Type "S" or delayed				
Mechanical characteristics						
Dimensions		see diagram				
Connection to Network		by screw terminals: 1.5-10mm² (L/N) or 2.5-25mm² (PE)				
Disconnection indicator		2 mechanical indicators	2 mechanical indicators	1 mechanical indicator	2 mechanical indicators	1 mechanical indicator
Remote signaling of disconnection		Option DS240S-400 : output on changeover contact	Option DS240S-230 : output on changeover contact	Option DS240S-230/G : output on changeover contact	Option DS240S-120 : output on changeover contact	Option DS240S-120/G : output on changeover contact
Spare unit		DSM240-400	DSM240-230	DSM240-230/G	DSM240-120	DSM240-120/G
Mounting		Symmetrical rail 35 mm (EN60715)				
Operating temperature		-40/+85°C				
Protection rating		IP20				
Housing material		Thermoplastic UL94-V0				
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.4/EN 50539-11				
Certification		UL / CSA /EAC	UL / CSA /EAC	UL / CSA /EAC / TUV SUD	UL / CSA /EAC	UL / CSA /EAC
Part number		311401	311701	311721	311601	311621

*Note: Rating in compliance with NF C15-100 art. 534.1.5.3. An order to increase service continuity, higher rating can be used. For further information, please consult product instructions.

**Note: CM = Common mode (L/PE or N/PE)/ DM = Differential mode (L/N)

