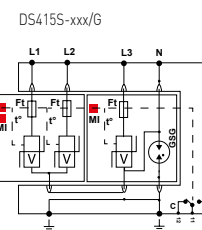
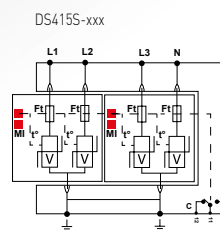
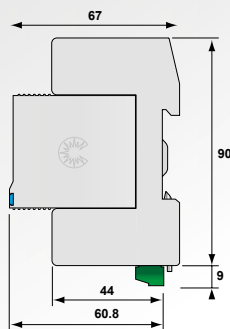


3-phase Type 2 (or 3) Surge Protector DS415 series

**Imax
15 kA**



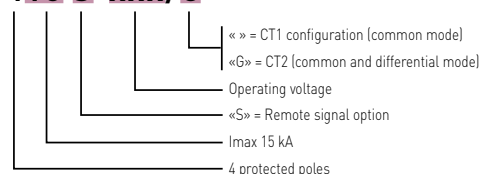
DS415-400



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

- **Compact 3-phase SPD**
- **In : 5 kA**
- **Imax : 15 kA**
- **Common/Differential mode**
- **Pluggable module**
- **Remote signaling contact (option)**
- **IEC 61643-11, EN 61643-11 and UL 1449 ed.4 compliance**

DS415 S-xxx/G



Characteristics

CITEL Model	DS415-400	DS415-230	DS415-230/G	DS415-120	DS415-120/G
Description	Compact 3-phase+N Type 2 surge protector - 230/400 V - Pluggable			Compact 3-phase+N Type 2 surge protector - 120 V - Pluggable	
Network	230/400 V 3-phase	230/400 V 3-phase	230/400 V 3-phase	120/208 V 3-phase	120/208 V 3-phase
Connection mode	L/N and N/PE	L/N and N/PE	L/N and N/PE	L/N 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 mn	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	-	230 V/300A/200 ms withstand
Residual current - Leakage current at Uc	Ipe < 1 mA	< 1 mA	None	< 1 mA	None
Follow current	If None	None	None	None	None
Nominal discharge current - 15 x 8/20 μs impulses	In 5 kA	5 kA	5 kA	5 kA	5 kA
Max. discharge current - max. withstand @ 8/20 μs by pole	Imax 15 kA	15 kA	15 kA	15 kA	15 kA
Withstand on overvoltages IEEE C62.41.1	Uoc 10 kV	10 kV	10 kV	10 kV	10 kV
Protection level CM/DM* @In @8/20μs and @ 6kV [1.2/50μs]	Up 1.3 kV	0.9 kV	1.5/0.9 kV	0.6 kV	1.5/0.6 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 - 20A**				
Installation ground fault breaker	Type "S" or delayed				
Mechanical characteristics					
Dimensions	see diagram				
Connection to Network	by screw terminals: 1.5-10mm ² (L/N) or 2.5-25mm ² (PE)				
Disconnection indicator	4 mechanical indicators	4 mechanical indicators	3 mechanical indicators	4 mechanical indicators	3 mechanical indicators
Remote signaling of disconnection	Option DS415S-400 : output on changeover contact	Option DS415S-230 : output on changeover contact	Option DS415S-230/G : output on changeover contact	Option DS415S-120 : output on changeover contact	Option DS415S-120/G : output on changeover contact
Spare unit	DSM415-400	DSM415-230	DSM415-230/G + DSM415-230/GPE	DSM415-120	DSM415-120/G + DSM415-120/GPE
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				
Certification	EAC				
Part number	451402	451702	451722	451602	451622

** : Rating in compliance with nominal discharge current. In order to increase service continuity, higher rating can be used. For further information, please consult product instructions.

*Note: MC = Common mode (L/PE or N/PE)/ MD = Differential mode (L/N)