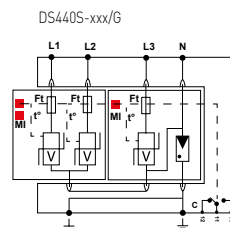
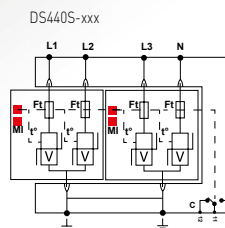
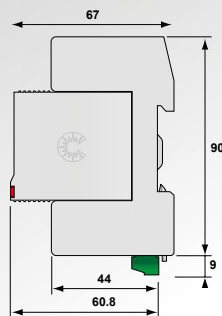
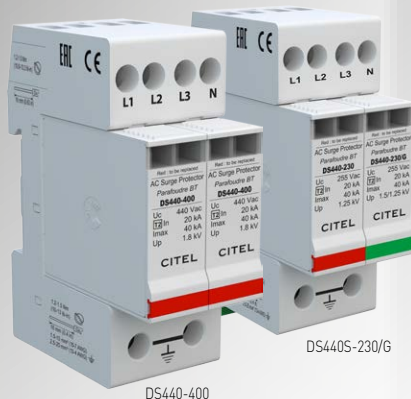


3-phase Type 2 Surge Protector DS440 series



CITEL

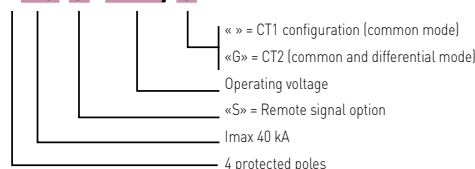
**I_{max}
40 kA**



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

- Compact 3-phase Type 2
- I_n : 20 kA
- I_{max} : 40 kA
- Common/Differential mode
- Pluggable module
- Remote signaling contact (option)
- Complies with EN 61643-11, IEC 61643-11 and UL1449 ed.4

DS440 S-xxx/G



Characteristics

CITEL Model		DS440-400	DS440-230	DS440-230/G	DS440-120	DS440-120/G
Description		Compact 3-phase+N Type 2 surge protector - 230/400 V - Pluggable			Compact 3-phase+N Type 2 surge protector - 120/208 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/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 - 120mn	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
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		4 mechanical indicators	4 mechanical indicators	3 mechanical indicators	4 mechanical indicators	3 mechanical indicators
Remote signaling of disconnection		Option DS440S-400 : output on changeover contact	Option DS440S-230 : output on changeover contact	Option DS440S-230/G : output on changeover contact	Option DS440S-120 : output on changeover contact	Option DS440S-120/G : output on changeover contact
Spare unit		DSM440-400	DSM440-230	DSM440-230/G and DSM440-230/GPE	DSM440-120	DSM440-120/G and DSM440-120/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		311402	311702	311722	311602	3116225

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

