

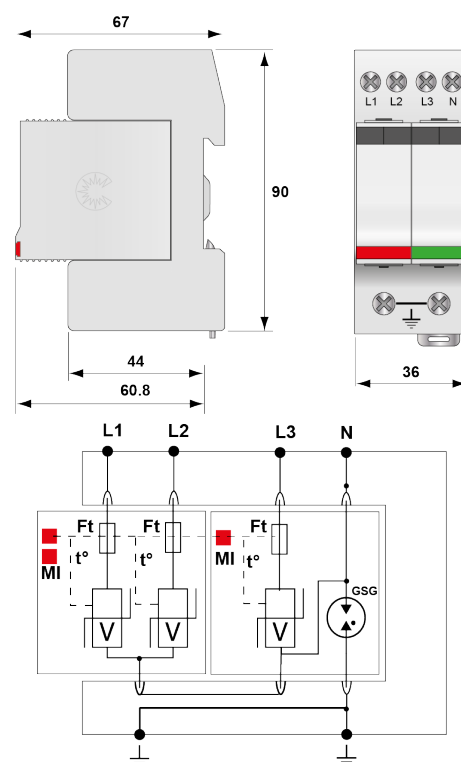


DS440-230/G



- Compact 3-Phase Type 2 surge protector
- I_n : 20 kA
- I_{max} : 40 kA
- Common/Differential mode
- Pluggable module
- Remote Signaling contact option
- EN 61643-11, CEI 61643-11, UL1449 ed.4 compliance

Electrical Characteristics		
SPD type <i>following IEC test</i>		2
Network		230/400 V 3-phase
AC system		TT-TN
Nominal line voltage	U_n	230 Vac
Max. AC operating voltage L-N	U_c	255 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. <i>without disconnection</i>	U_T	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn <i>without disconnection or with safety disconnection</i>	U_T	440 Vac disconnection
Temporary Over Voltage N/PE (TOV HT) <i>without disconnection or with safety disconnection</i>	U_T	1200 V/300A/200 ms withstand
Residual Current <i>Leakage current to Ground</i>	I_{pe}	None
Operating current <i>Continuous current at U_c</i>	I_c	0.5 mA
Follow current	I_f	None
Nominal discharge current <i>15 x 8/20 μs impulses</i>	I_n	20 kA
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	I_{max}	40 kA
Total Maximal discharge current <i>max. total withstand @ 8/20 μs</i>	I_{max} <i>Total</i>	40 kA
Admissible short-circuit current	I_{sccr}	10000 A
Connection mode(s)		L/N and N/PE
Protection mode(s)		Common/Differential mode
Protection level L/N <i>@ I_n (8/20μs)</i>	U_p L/N	1.25 kV
Protection level N/PE <i>@ I_n (8/20μs)</i>	U_p N/PE	1.5 kV
Protection level CM/DM <i>@ I_n (8/20μs)</i>	U_p mc/ md	1.5/1.25 kV
Residual voltage at 5 kA <i>@ 5 kA (8/20μs)</i>	U_p -5kA	1.5/0.9 kV



V: High-energy varistor
GSG: Specific Gas Tube
Ft: Thermal fuse
 t° : Thermal disconnection system
MI: Disconnection indicator

Mechanical Characteristics		
Technology		MOV
SPD configuration		3-phase+Neutral
Connection to Network		by screw terminals: 1.5-10mm ² (L/N) or 2.5-25mm ² (PE)
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN60715)
Housing material		Thermoplastic UL94-V0
Operating temperature		-40/+85°C
Protection rating		IP20
Failsafe behavior		Disconnection
Disconnection indicator		3 mechanical indicators
Spare module(s)		DSM440-230G and DSM440-230/GPE
Remote signaling of disconnection		Option DS440S-230/G : output on changeover contact
Dimensions		See diagram
Disconnectors		
Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Fuses		Fuses type gG - 50 A
Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 4ed.
Certification		EAC
Part Number		311722