



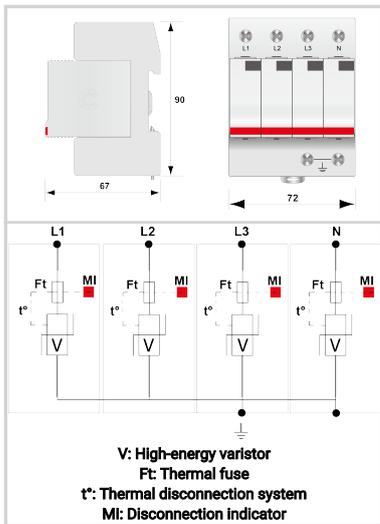
CITEL

Type 2 AC surge protector - 3-phase+N

DS44-690



- IEC Type 2 AC Multipolar surge protector / UL Type 1
- In : IEC 20 kA / UL 10 kA
- I_{max} total : 40 kA
- Pluggable module for each phase
- Remote signaling option
- EN 61643-11, IEC 61643-11 compliance
- UL1449 ed.5



Electrical Characteristics

SPD type	IEC	2
Network		400/690 V 3-phase+N
Max. AC operating voltage	U _c	760 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. <i>Without disconnection</i>	UT	1000 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn <i>Without disconnection or with safety disconnection</i>	UT	1325 Vac disconnection
Residual Current <i>Leakage current to Ground</i>	I _{pe}	< 1 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
Protection level N/PE <i>@ I_n (8/20μs)</i>	U _p N/PE	3.5 kV
Protection level L/PE <i>@ I_n (8/20μs)</i>	U _p L/PE	3.5 kV
Protection level N/PE at 5 kA <i>@ 5 kA (8/20μs)</i>	U _p -5kA	2.6 kV
Residual voltage L/PE at 5 kA <i>@ 5 kA (8/20μs)</i>	U _p -5kA	2.6 kV
Admissible short-circuit current	I _{sc}	25 000 A

UL Electrical Characteristics

UL Category		UL Listed Type 1
Maximum Continuous Operating Voltage(L-L/L-N)	MCOV	1500 V
Maximum Continuous Operating Voltage(L-G/N-G)	MCOV	750 V
Voltage Protection Level(L-L/L-N)	VPR	4000 V
Voltage Protection Level(L-G/N-G)	VPR	2000 V
Nominal discharge current	I _n	10 kA
Short-Circuit Current Rating	SCCR	100 kA

Mechanical Characteristics

Technology		MOV
SPD configuration		3-phase+Neutral
Connection to Network		By screw terminals: 2.5-25mm ² / by bus
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN 60715)
Housing material		Thermoplastic UL94 V-0
Operating temperature	T _u	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection from AC network
Disconnection indicator		1 mechanical indicator by pole
Spare module(s)		DSM40-690
Remote signaling of disconnection		option DS44S-690: output on changeover contact
Dimensions		See diagram
Weight		0.43 kg

Disconnectors

Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		Fuses type gG - 50 A

Standards

Standards compliance		IEC 61643-11 / EN 61643-11
Certification		UL listed / TUV Süd

Part number

461802

