



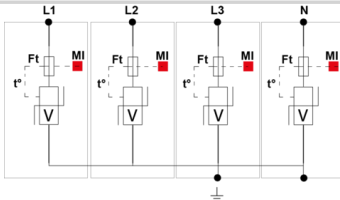
## Type 2 AC surge protector - 3-phase+N

# CITEL

## DS44-120



- ↳ Type 2 AC Multipolar surge protector
- ↳  $I_n$  : 20 kA
- ↳  $I_{max}$  total : 160 kA
- ↳ Pluggable module for each phase
- ↳ Remote signaling option
- ↳ NF EN 61643-11, IEC 61643-11 compliance
- ↳ UL1449 ed.5



V: High-energy varistor  
 Ft: Thermal fuse  
 t\*: Thermal disconnection system  
 MI: Disconnection indicator

Electrical Characteristics		
SPD type		2
Network		120/208 V 3-phase+N
AC system		TNS
Nominal line voltage	$U_n$	120 Vac
Max. AC operating voltage	$U_c$	150 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	UT	180 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	UT	230 Vac disconnection
Residual Current Leakage current to Ground	$I_{pe}$	< 1 mA
Follow current	$I_f$	None
Nominal discharge current 15 x 8/20 $\mu$ s impulses	$I_n$	20 kA
Max. discharge current max. withstand @ 8/20 $\mu$ s by pole	$I_{max}$	40 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	$I_{max}$ Total	160 kA
Connection mode(s)		L/PE and N/PE
Protection mode(s)		Common mode
Residual voltage at 5 kA @ 5 kA (8/20 $\mu$ s)	$U_{p-5kA}$	0.6 kV
Protection level N/PE @ $I_n$ (8/20 $\mu$ s)	$U_{p N/PE}$	0.9 kV
Protection level L/PE @ $I_n$ (8/20 $\mu$ s)	$U_{p L/PE}$	1.2 kV
Admissible short-circuit current	$I_{sc}$	25 000 A
Mechanical Characteristics		
Technology		MOV
SPD configuration		3-phase+Neutral
Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup> / 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)		DSM40-120
Remote signaling of disconnection		option DS44S-120 : output on changeover contact
Dimensions		See diagram
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 / UL1449 ed.5
Certification		CSA / UL
Part number		
<b>461602</b>		

