



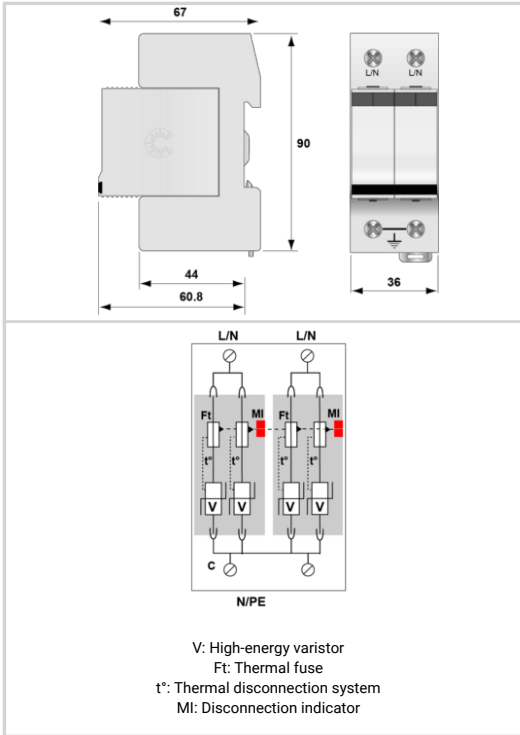
## Type 2 AC surge protector - Single-phase

# CITEL

## DS72R-120



- ↳ Re-inforced Type 2 AC Multipolar surge protector
- ↳ In: 30 kA
- ↳ I<sub>max</sub> total: 140 kA
- ↳ Pluggable module by phase
- ↳ Remote signaling option
- ↳ IEC 61643-11, EN 61643-11 compliance
- ↳ UL1449 ed.5 approved



Electrical Characteristics	
SPD type	2
Network	120 V single-phase
AC system	TN
Nominal line voltage	U <sub>n</sub> 120 Vac
Max. AC operating voltage	U <sub>c</sub> 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 <sub>pe</sub> < 2 mA
Follow current	I <sub>f</sub> None
Nominal discharge current 15 x 8/20 μs impulses	I <sub>n</sub> 30 kA
Max. discharge current max. withstand @ 8/20 μs by pole	I <sub>max</sub> 70 kA
Total Maximum discharge current max. total withstand @ 8/20 μs	I <sub>max</sub> Total 140 kA
Connection mode(s)	L/PE and N/PE
Protection mode(s)	Common mode
Protection level N/PE @ I <sub>n</sub> (8/20μs)	U <sub>p</sub> N/PE 1 kV
Protection level L/PE @ I <sub>n</sub> (8/20μs)	U <sub>p</sub> L/PE 1.8 kV
Protection level N/PE at 5 kA @ 5 kA (8/20μs)	U <sub>p</sub> -5kA 0.6 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20μs)	U <sub>p</sub> -5kA 0.6 kV
Admissible short-circuit current	I <sub>sc</sub> 25 000 A
Mechanical Characteristics	
Technology	MOV
SPD configuration	Single phase
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 <sub>u</sub> -40/+85°C
Protection rating	IP20
Failsafe mode	Disconnection from AC network
Disconnection indicator	2 mechanical indicators by pole
Spare module(s)	DSM70R-120
Remote signaling of disconnection	option DS72RS-120 : output on changeover contact
Dimensions	See diagram
Weight	0.242 kg
Disconnectors	
Thermal disconnector	Internal
Installation ground fault breaker	Type 'S' or delayed
Back-up protection device	100 A min. - 125 A max. - Fuses type gG
Standards	
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification	CSA / UL
Part number	
491601	

