



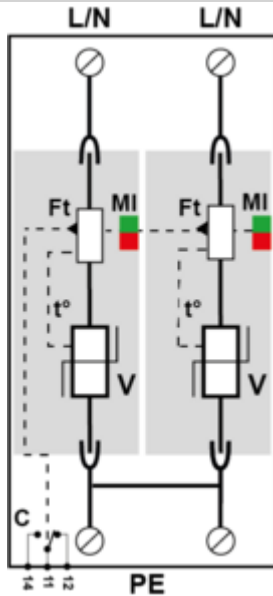
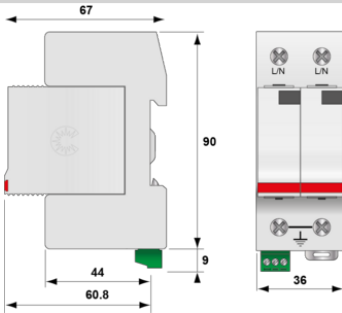
## Type 2 AC surge protector - Single-phase

# CITEL

## DS42S-230



- ↳ Discover our latest innovation : the [DAC50S-20-275](#)
- ↳ Type 2 AC Multipolar surge protector
- ↳ In: 20 kA
- ↳ I<sub>max</sub> total: 80 kA
- ↳ Pluggable module for each phase
- ↳ Remote signaling
- ↳ EN 61643-11, IEC 61643-11, UL1449 ed.5



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

Electrical Characteristics	
SPD type	2
Network	230 V single-phase
AC system	TN
Nominal line voltage	Un 230 Vac
Max. AC operating voltage	Uc 255 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	UT 335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	UT 440 Vac disconnection
Residual Current Leakage current to Ground	I <sub>pe</sub> < 1 mA
Follow current	I <sub>f</sub> None
Nominal discharge current 15 x 8/20 μs impulses	I <sub>n</sub> 20 kA
Max. discharge current max. withstand @ 8/20 μs by pole	I <sub>max</sub> 40 kA
Total Maximum discharge current max. total withstand @ 8/20 μs	I <sub>max</sub> Total 80 kA
Connection mode(s)	L/PE and N/PE
Protection mode(s)	Common mode
Residual voltage at 5 kA @ 5 kA (8/20 μs)	U <sub>p-5kA</sub> 0.9 kV
Protection level N/PE @ I <sub>n</sub> (8/20 μs)	U <sub>p N/PE</sub> 1.25 kV
Protection level L/PE @ I <sub>n</sub> (8/20 μs)	U <sub>p L/PE</sub> 1.25 kV
Admissible short-circuit current	I <sub>scrr</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	1 mechanical indicator by pole
Spare module(s)	DSM40-230
Remote signaling of disconnection	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 Listed
Part number	
461521	

