



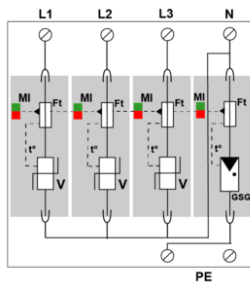
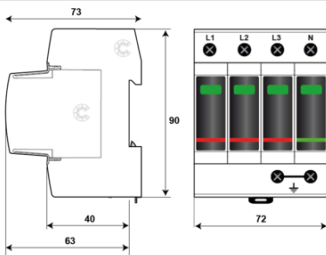
## Type 2 AC surge protector - 3-phase+N

# CITEL

## DAC50-31-440



- Type 2 AC multipolar surge protector
- $I_n$  : 20 kA
- $I_{max}$  : 50 kA
- Pluggable module for each phase
- Remote signaling option
- EN 61643-11, IEC 61643-11 compliance
- UL1449 ed.5 certified



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

### Electrical Characteristics

SPD type	IEC	2
Network		230/400 V 3-phase+N
AC system		IT
Max. AC operating voltage	Uc	580 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	770 Vac disconnection
Temporary Over Voltage N/PE (TOV HT) Without disconnection or with safety disconnection	UT	1200 V/300A/200 ms withstand
Residual Current Leakage current to Ground	Ipe	None
Follow current	If	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	$I_{max}$	50 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	$I_{max}$ Total	50 kA
Protection mode(s)		L/N and N/PE
Protection level @ $I_n$ (8/20 $\mu$ s) and @ 6 kV (1,2/50 $\mu$ s)	Up L/N	2 kV
Protection level N/PE @ $I_n$ (8/20 $\mu$ s) and @ 6 kV (1,2/50 $\mu$ s)	Up N/PE	1.5 kV
Admissible short-circuit current	Iscrr	50 000 A

### Mechanical Characteristics

Technology		MOV+GDT
SPD configuration		3-phase+Neutral
Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup> (35mm <sup>2</sup> rigid)
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN 60715)
Housing material		Thermoplastic UL94 V-0
Operating temperature	Tu	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection from AC network
Disconnection indicator		1 mechanical indicator by pole - Red/Green
Spare module(s)		MDAC50-440+MDACG-440
Remote signaling of disconnection		option DAC50S-31-440: output on changeover contact
Wiring for remote signaling		1.5 mm <sup>2</sup> max.
Max. Voltage/Current for remote signaling		250 V / 0.5 A (AC) / 30 V / 3 A (DC)
Dimensions		See diagram - 4TE (EN43880)
Weight		0.376 kg

### Disconnectors

Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		50 A min. - 125 A max. - Fuses Type gG

### Standards

Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification		UL

### Part number

**821110434**

