



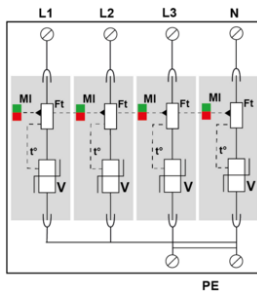
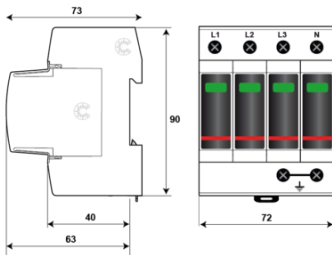
## Type 2 AC surge protector - 3-phase+N

# CITEL

### DAC50-40-530



- ▶ Type 2 AC surge protector
- ▶ In: 20 kA
- ▶ I<sub>max</sub>: 50 kA
- ▶ Pluggable module for each phase
- ▶ Remote signaling option
- ▶ EN 61643-11, IEC 61643-11 and UL1449 ed.5 certified



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

#### Electrical Characteristics

SPD type	IEC	2
Network		480/830 V 3-phase+N
AC system		TNS
Max. AC operating voltage	U <sub>c</sub>	530 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	UT	700 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	UT	920 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>	50 kA
Total Maximum discharge current max. total withstand @ 8/20 μs	I <sub>max</sub> Total	200 kA
Protection mode(s)		L/PE and N/PE
Protection level N/PE @ I <sub>n</sub> (8/20μs)	U <sub>p</sub> N/PE	2.4 kV
Protection level L/PE @ I <sub>n</sub> (8/20μs)	U <sub>p</sub> L/PE	2.4 kV
Protection level N/PE at 5 kA @ 5 kA (8/20μs)	U <sub>p</sub> -5kA	2 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20μs)	U <sub>p</sub> -5kA	2 kV
Admissible short-circuit current	I <sub>sc</sub>	50 000 A

#### UL Electrical Characteristics

UL Category		UL Recognized Type 4CA
Maximum Continuous Operating Voltage(L-L/L-N)	MCOV	1060 V
Maximum Continuous Operating Voltage(L-G/N-G)	MCOV	530 V
Maximum Limiting Voltage(L-L/L-N)	MLV	5170 V
Maximum Limiting Voltage(L-G/N-G)	MLV	3120 V
Nominal discharge current	I <sub>n</sub>	20 kA

#### Mechanical Characteristics

Technology		MOV
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	T <sub>u</sub>	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection from AC network
Disconnection indicator		1 mechanical indicator by pole - Red/Green
Spare module(s)		MDAC50-530
Remote signaling of disconnection		option DAC50S-40-530 : output on changeover contact
Dimensions		See diagram - 4TE (EN43880)
Weight		0.446 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		ÖVE / UL

#### Part number

821110514

