



Type 2 AC surge protector - 3-phase+N

CITEL

DAC50S-40-530



- Type 2 AC surge protector
- In: 20 kA
- Imax: 50 kA
- Pluggable module for each phase
- Remote signaling
- UL1449 ed.5 certified
- EN 61643-11, IEC 61643-11 compliance



	Electrical Characteristics																																														
<p>V: High-energy varistor Ft: Thermal fuse C: Remote signal contact t*: Thermal disconnection system MI: Disconnection indicator</p>	<table border="1"> <tr><td>SPD type</td><td></td><td>2</td></tr> <tr><td>Network</td><td></td><td>480/830 V 3-phase+N</td></tr> <tr><td>AC system</td><td></td><td>TNS</td></tr> <tr><td>Max. AC operating voltage</td><td>Uc</td><td>530 Vac</td></tr> <tr><td>Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection</td><td>UT</td><td>700 Vac withstand</td></tr> <tr><td>Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection</td><td>UT</td><td>920 Vac disconnection</td></tr> <tr><td>Residual Current Leakage current to Ground</td><td>Ipe</td><td>< 1 mA</td></tr> <tr><td>Follow current</td><td>If</td><td>None</td></tr> <tr><td>Nominal discharge current 15 x 8/20 μs impulses</td><td>In</td><td>20 kA</td></tr> <tr><td>Max. discharge current max. withstand @ 8/20 μs by pole</td><td>Imax</td><td>50 kA</td></tr> <tr><td>Total Maximum discharge current max. total withstand @ 8/20 μs</td><td>Imax Total</td><td>200 kA</td></tr> <tr><td>Protection mode(s)</td><td></td><td>L/PE and N/PE</td></tr> <tr><td>Protection level N/PE @ In (8/20μs)</td><td>Up N/PE</td><td>2.4 kV</td></tr> <tr><td>Protection level L/PE @ In (8/20μs)</td><td>Up L/PE</td><td>2.4 kV</td></tr> <tr><td>Admissible short-circuit current</td><td>Iscrr</td><td>50 000 A</td></tr> </table>		SPD type		2	Network		480/830 V 3-phase+N	AC system		TNS	Max. AC operating voltage	Uc	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	Ipe	< 1 mA	Follow current	If	None	Nominal discharge current 15 x 8/20 μs impulses	In	20 kA	Max. discharge current max. withstand @ 8/20 μs by pole	Imax	50 kA	Total Maximum discharge current max. total withstand @ 8/20 μs	Imax Total	200 kA	Protection mode(s)		L/PE and N/PE	Protection level N/PE @ In (8/20μs)	Up N/PE	2.4 kV	Protection level L/PE @ In (8/20μs)	Up L/PE	2.4 kV	Admissible short-circuit current	Iscrr	50 000 A
SPD type		2																																													
Network		480/830 V 3-phase+N																																													
AC system		TNS																																													
Max. AC operating voltage	Uc	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	Ipe	< 1 mA																																													
Follow current	If	None																																													
Nominal discharge current 15 x 8/20 μs impulses	In	20 kA																																													
Max. discharge current max. withstand @ 8/20 μs by pole	Imax	50 kA																																													
Total Maximum discharge current max. total withstand @ 8/20 μs	Imax Total	200 kA																																													
Protection mode(s)		L/PE and N/PE																																													
Protection level N/PE @ In (8/20μs)	Up N/PE	2.4 kV																																													
Protection level L/PE @ In (8/20μs)	Up L/PE	2.4 kV																																													
Admissible short-circuit current	Iscrr	50 000 A																																													
Mechanical Characteristics																																															
<table border="1"> <tr><td>Technology</td><td></td><td>MOV</td></tr> <tr><td>SPD configuration</td><td></td><td>3-phase+Neutral</td></tr> <tr><td>Connection to Network</td><td></td><td>By screw terminals: 2.5-25mm²</td></tr> <tr><td>Format</td><td></td><td>Plug-in modular box</td></tr> <tr><td>Mounting</td><td></td><td>Symmetrical rail 35 mm (EN 60715)</td></tr> <tr><td>Housing material</td><td></td><td>Thermoplastic UL94 V-0</td></tr> <tr><td>Operating temperature</td><td>Tu</td><td>-40/+85°C</td></tr> <tr><td>Protection rating</td><td></td><td>IP20</td></tr> <tr><td>Failsafe mode</td><td></td><td>Disconnection from AC network</td></tr> <tr><td>Disconnection indicator</td><td></td><td>1 mechanical indicator by pole - Red/Green</td></tr> <tr><td>Spare module(s)</td><td></td><td>MDAC50-530</td></tr> <tr><td>Remote signaling of disconnection</td><td></td><td>output on changeover contact</td></tr> <tr><td>Wiring for remote signaling</td><td></td><td>1.5 mm² max.</td></tr> <tr><td>Max. Voltage/Current for remote signaling</td><td></td><td>250 V / 0.5 A (AC) / 30 V / 3 A (DC)</td></tr> <tr><td>Dimensions</td><td></td><td>See diagram - 4TE (EN43880)</td></tr> </table>			Technology		MOV	SPD configuration		3-phase+Neutral	Connection to Network		By screw terminals: 2.5-25mm ²	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)		MDAC50-530	Remote signaling of disconnection		output on changeover contact	Wiring for remote signaling		1.5 mm ² max.	Max. Voltage/Current for remote signaling		250 V / 0.5 A (AC) / 30 V / 3 A (DC)	Dimensions		See diagram - 4TE (EN43880)
Technology		MOV																																													
SPD configuration		3-phase+Neutral																																													
Connection to Network		By screw terminals: 2.5-25mm ²																																													
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)		MDAC50-530																																													
Remote signaling of disconnection		output on changeover contact																																													
Wiring for remote signaling		1.5 mm ² max.																																													
Max. Voltage/Current for remote signaling		250 V / 0.5 A (AC) / 30 V / 3 A (DC)																																													
Dimensions		See diagram - 4TE (EN43880)																																													
Disconnectors																																															
<table border="1"> <tr><td>Thermal disconnector</td><td></td><td>Internal</td></tr> <tr><td>Installation ground fault breaker</td><td></td><td>Type 'S' or delayed</td></tr> <tr><td>Back-up protection device</td><td></td><td>50 A min. - 125 A max. - Fuses Type gG</td></tr> </table>			Thermal disconnector		Internal	Installation ground fault breaker		Type 'S' or delayed	Back-up protection device		50 A min. - 125 A max. - Fuses Type gG																																				
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																																															
<table border="1"> <tr><td>Standards compliance</td><td></td><td>IEC 61643-11 / EN 61643-11 / UL1449 ed.5</td></tr> <tr><td>Certification</td><td></td><td>ÖVE / UL</td></tr> </table>			Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5	Certification		ÖVE / UL																																							
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5																																													
Certification		ÖVE / UL																																													
Part number																																															
821110524																																															

