



## Type 1+2+3 AC surge protector - Single phase

# CITEL

## DS252VG-300/G



- Type 1+2+3 unipolar surge protector
- 25 kA on 10/350µs impulse
- Low voltage Up
- Internal disconnection, status indicator and remote signaling
- Optimized to TOV
- IEC 61643-11 and UL1449 ed.5 compliance



	<b>Electrical Characteristics</b>																																																																												
<p>V: High-energy varistor  GSG: Specific gas tube  Ft: Thermal fuse  C: Remote signaling contact  t*: Thermal disconnection system  MI: Disconnection indicator</p>	<table border="1"> <tr> <td>SPD type</td> <td>IEC</td> <td>1+2+3</td> </tr> <tr> <td>Network</td> <td></td> <td>230 V single-phase</td> </tr> <tr> <td>AC system</td> <td></td> <td>TT-TN</td> </tr> <tr> <td>Nominal line voltage</td> <td>Un</td> <td>230 Vac</td> </tr> <tr> <td>Max. AC operating voltage</td> <td>Uc</td> <td>255 Vac</td> </tr> <tr> <td>Max. load current <i>if series connection</i></td> <td>IL</td> <td>100 A</td> </tr> <tr> <td>Temporary Over Voltage (TOV) Characteristics - 5 sec. <i>Without disconnection</i></td> <td>UT</td> <td>335 Vac withstand</td> </tr> <tr> <td>Temporary Over Voltage (TOV) Characteristics - 120 mn <i>Without disconnection or with safety disconnection</i></td> <td>UT</td> <td>440 Vac withstand</td> </tr> <tr> <td>Temporary Over Voltage N/PE (TOV HT) <i>Without disconnection or with safety disconnection</i></td> <td>UT</td> <td>1200 V/300A/200 ms withstand</td> </tr> <tr> <td>Residual Current <i>Leakage current to Ground</i></td> <td>Ipe</td> <td>None</td> </tr> <tr> <td>Follow current</td> <td>If</td> <td>None</td> </tr> <tr> <td>Nominal discharge current <i>15 x 8/20 µs impulses</i></td> <td>In</td> <td>30 kA</td> </tr> <tr> <td>Max. discharge current <i>max. withstand @ 8/20 µs by pole</i></td> <td>Imax</td> <td>70 kA</td> </tr> <tr> <td>Total Maximum discharge current <i>max. total withstand @ 8/20 µs</i></td> <td>Imax Total</td> <td>150 kA</td> </tr> <tr> <td>Impulse current by pole <i>max. withstand 10/350µs by pole</i></td> <td>Iimp</td> <td>25 kA</td> </tr> <tr> <td>Total lightning current <i>max. total withstand @ 10/350µs</i></td> <td>Itotal</td> <td>50 kA</td> </tr> <tr> <td>Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50µs - 8/20µs</i></td> <td>Uoc</td> <td>20 kV</td> </tr> <tr> <td>Withstand on overvoltages IEEE C62.41.1</td> <td></td> <td>20 kV</td> </tr> <tr> <td>Specific energy by pole <i>max. withstand 10/350 µs</i></td> <td>W/R</td> <td>156 kJ/ohm</td> </tr> <tr> <td>Connection mode(s)</td> <td></td> <td>L/N and N/PE</td> </tr> <tr> <td>Protection mode(s)</td> <td></td> <td>Common/Differential mode</td> </tr> <tr> <td>Residual voltage <i>@ In (8/20 µs)</i></td> <td>Up-in</td> <td>1.1 kV</td> </tr> <tr> <td>Protection level L/N <i>@ In (8/20µs)</i></td> <td>Up L/N</td> <td>1.5 kV</td> </tr> <tr> <td>Protection level N/PE <i>@ In (8/20µs)</i></td> <td>Up N/PE</td> <td>1.5 kV</td> </tr> <tr> <td>Admissible short-circuit current</td> <td>Iscrr</td> <td>50 000 A</td> </tr> </table>		SPD type	IEC	1+2+3	Network		230 V single-phase	AC system		TT-TN	Nominal line voltage	Un	230 Vac	Max. AC operating voltage	Uc	255 Vac	Max. load current <i>if series connection</i>	IL	100 A	Temporary Over Voltage (TOV) Characteristics - 5 sec. <i>Without disconnection</i>	UT	335 Vac withstand	Temporary Over Voltage (TOV) Characteristics - 120 mn <i>Without disconnection or with safety disconnection</i>	UT	440 Vac withstand	Temporary Over Voltage N/PE (TOV HT) <i>Without disconnection or with safety disconnection</i>	UT	1200 V/300A/200 ms withstand	Residual Current <i>Leakage current to Ground</i>	Ipe	None	Follow current	If	None	Nominal discharge current <i>15 x 8/20 µs impulses</i>	In	30 kA	Max. discharge current <i>max. withstand @ 8/20 µs by pole</i>	Imax	70 kA	Total Maximum discharge current <i>max. total withstand @ 8/20 µs</i>	Imax Total	150 kA	Impulse current by pole <i>max. withstand 10/350µs by pole</i>	Iimp	25 kA	Total lightning current <i>max. total withstand @ 10/350µs</i>	Itotal	50 kA	Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50µs - 8/20µs</i>	Uoc	20 kV	Withstand on overvoltages IEEE C62.41.1		20 kV	Specific energy by pole <i>max. withstand 10/350 µs</i>	W/R	156 kJ/ohm	Connection mode(s)		L/N and N/PE	Protection mode(s)		Common/Differential mode	Residual voltage <i>@ In (8/20 µs)</i>	Up-in	1.1 kV	Protection level L/N <i>@ In (8/20µs)</i>	Up L/N	1.5 kV	Protection level N/PE <i>@ In (8/20µs)</i>	Up N/PE	1.5 kV	Admissible short-circuit current	Iscrr	50 000 A
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**DS252VG-300/G**

Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification	UL Recognized
Part number	
3403	

# Mouser Electronics

Authorized Distributor

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