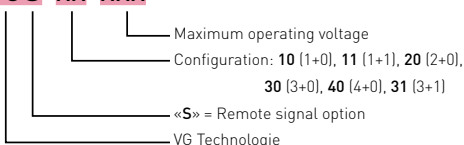


# DAC50VG SERIES

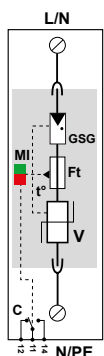
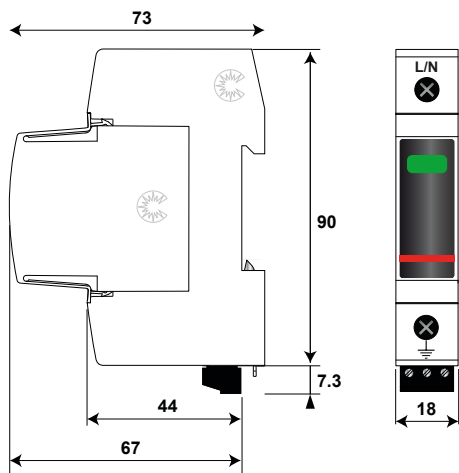


- VG Technology
- In : 20 kA / Imax : 50 kA
- No leakage current
- No follow current
- Optimized to TOV
- Remote signaling option
- IEC 61643-11, EN 61643-11 certified
- UL1449 ed.4 compliance

DAC50VGS-xx-xxx



## Characteristics



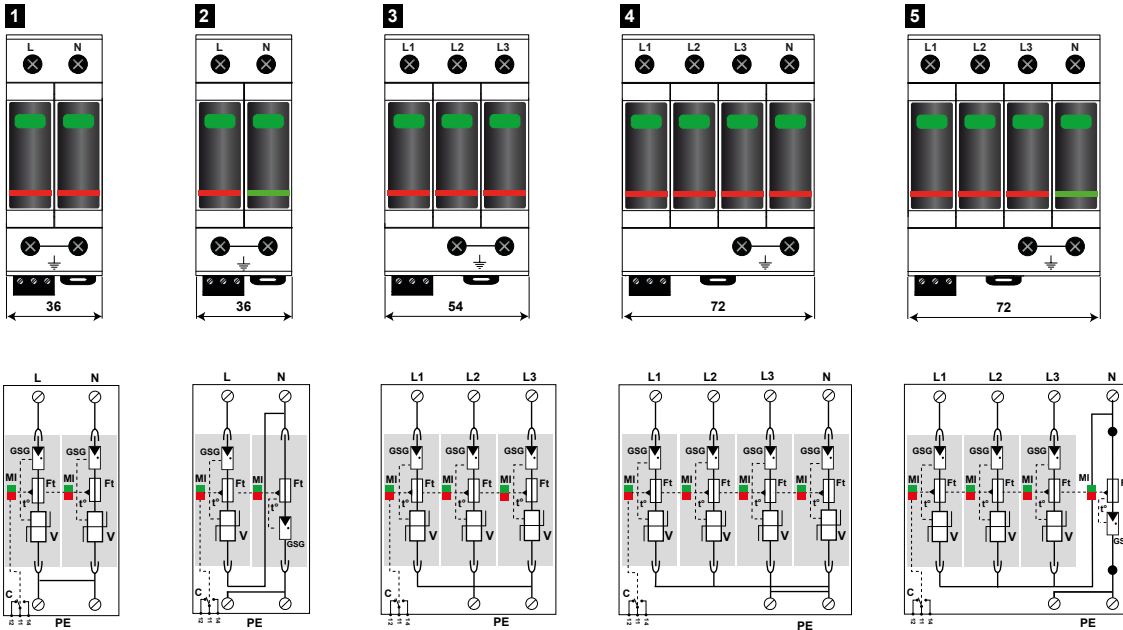
V: High energy varistor  
GSG: Specific Gas Tube  
MI: Disconnection indicator  
Ft: Thermal fuse  
t°: Thermal disconnection system  
C: Contact for remote signal

| CITEL Model  |        | DAC50VG-10-320   | DAC50VG-10-275        | DAC50VG-10-150        |
|--|--------|--|-----------------------|-----------------------|
| Description  |        | Type 2 AC surge protector - one-pole - pluggable                     |                       |                       |
| Maximum AC operating voltage                                     | Uc     | 320 Vac  | 275 Vac               | 150 Vac               |
| Temporary Over Voltage (TOV) Characteristic - 5 sec.             | UT     | 335 Vac withstand  | 335 Vac withstand     | 180 Vac withstand     |
| Temporary Over Voltage (N/PE TOV) Characteristic -120mn          | UT     | 440 Vac disconnection  | 440 Vac disconnection | 230 Vac disconnection |
| Residual current <i>Leakage current at Uc</i>                    | Ipe    | None   | None                  | None                  |
| Follow current   | If     | None   | None                  | None                  |
| Nominal discharge current <i>5 x 8/20 μs impulses</i>            | In     | 20 kA  | 20 kA                 | 20 kA                 |
| Maximum discharge current <i>max. withstand 10/350μs by pole</i> | Imax   | 50 kA  | 50 kA                 | 50 kA                 |
| Withstand on combination waveform - <i>Class III test</i>        | Uoc    | 6 kV   | 6 kV                  | 6 kV                  |
| Protection level <i>@ In (8/20μs) and 6 kV(1.2/50μs)</i>         | Up     | 1.5 kV   | 1.5 kV                | 1.5 kV                |
| Residual voltage <i>@ 5 kA (8/20μs)</i>                          | Up-5kA | 0.9 kV   | 0.7 kV                | 0.4 kV                |
| Admissible short-circuit current                                 | Iscrr  | 50 000 A   | 50 000 A              | 50 000 A              |
| <b>Associated disconnectors</b>                                  |        |  |                       |                       |
| Thermal disconnector   |        | internal   |                       |                       |
| Fuses  |        | 50 A min. - 160 A max. - gG Type                                     |                       |                       |
| Existing upstream ground fault breaker (if any)                  |        | Type "S" or delayed  |                       |                       |
| <b>Mechanical characteristics</b>                                |        |  |                       |                       |
| Dimensions   |        | see diagram - 1 TE (EN43880)   |                       |                       |
| Connection to Network  |        | By screw terminals: 2.5-25 mm <sup>2</sup> (35mm <sup>2</sup> rigid) |                       |                       |
| Failsafe mode  |        | Disconnection from AC network  |                       |                       |
| Disconnection indicator  |        | 1 mechanical indicator Green/Red                                     |                       |                       |
| Remote signaling of disconnection output on change over contact  |        | option   | option                | option                |
| Max. voltage/current for remote signaling                        |        | 250 V/0.5 A (AC) / 30 V/2 A (DC)                                     |                       |                       |
| Wiring for remote signaling                                      |        | max. 1.5 mm <sup>2</sup>   |                       |                       |
| Mounting   |        | Symmetrical rail 35 mm (EN60715)                                     |                       |                       |
| Operating temperature  |        | -40/+85°C  |                       |                       |
| Protection rating  |        | IP20   |                       |                       |
| Housing material   |        | Thermoplastic UL94-V0  |                       |                       |
| Spare unit   |        | MDAC50VG-320   | MDAC50VG-275          | MDAC50VG-150          |
| <b>Standards</b>   |        |  |                       |                       |
| Certification  |        | EN 61643-11 / IEC 61643-11   |                       |                       |
| Compliance   |        | UL1449 ed.4  |                       |                       |
| <b>Part number</b>   |        |  |                       |                       |
|  |        | 821130311  | 821130211             | 821130111             |





# DAC50VG-11, DAC50VG-20, DAC50VG-30, DAC50VG-31, DAC50VG-40



V: High energy varistor  
 GSG: Specific Gas Tube  
 MI: Disconnection indicator  
 Ft: Thermal fuse  
 t°: Thermal disconnection system  
 C: Contact for remote signal

| Model          | P/N       | Network             | AC system           | Protection mode | Up L/PE | Up L/N | Up N/PE | Dimension EN43880 | Diagram |
|----------------|-----------|---------------------|---------------------|-----------------|---------|--------|---------|-------------------|---------|
| DAC50VG-31-320 | 821130334 | 230/400 V 3-Phase+N | TT-TNS System (3+1) | L/N and N/PE    | -       | 1.5 kV | 1.5 kV  | 4 TE              | 5       |
| DAC50VG-31-275 | 821130234 | 230/400 V 3-Phase+N | TT-TNS System (3+1) | L/N and N/PE    | -       | 1.5 kV | 1.5 kV  | 4 TE              |         |
| DAC50VG-31-150 | 821130134 | 120/208 V 3-Phase+N | TT-TNS System (3+1) | L/N and N/PE    | -       | 1.5 kV | 1.5 kV  | 4 TE              |         |
| DAC50VG-40-320 | 821130314 | 230/400 V 3-Phase+N | TNS System (4+0)    | L/PE and N/PE   | 1.5 kV  | -      | 1.5 kV  | 4 TE              | 4       |
| DAC50VG-40-275 | 821130214 | 230/400 V 3-Phase+N | TNS System (4+0)    | L/PE and N/PE   | 1.5 kV  | -      | 1.5 kV  | 4 TE              |         |
| DAC50VG-40-150 | 821130114 | 120/208 V 3-Phase+N | TNS System (4+0)    | L/PE and N/PE   | 1.5 kV  | -      | 1.5 kV  | 4 TE              |         |
| DAC50VG-30-320 | 821130313 | 230/400 V 3-Phase   | TNC System (3+0)    | L/PE            | 1.5 kV  | -      | -       | 3 TE              | 3       |
| DAC50VG-30-275 | 821130213 | 230/400 V 3-Phase   | TNC System (3+0)    | L/PE            | 1.5 kV  | -      | -       | 3 TE              |         |
| DAC50VG-30-150 | 821130113 | 120/208 V 3-Phase   | TNC System (3+0)    | L/PE            | 1.5 kV  | -      | -       | 3 TE              |         |
| DAC50VG-11-320 | 821130332 | 230 V Single Phase  | TT-TN System (1+1)  | L/N and N/PE    | -       | 1.5 kV | 1.5 kV  | 2 TE              | 2       |
| DAC50VG-11-275 | 821130232 | 230 V Single Phase  | TT-TN System (1+1)  | L/N and N/PE    | -       | 1.5 kV | 1.5 kV  | 2 TE              |         |
| DAC50VG-11-150 | 821130132 | 120 V Single Phase  | TT-TN System (1+1)  | L/N and N/PE    | -       | 1.5 kV | 1.5 kV  | 2 TE              |         |
| DAC50VG-20-320 | 821130312 | 230 V Single Phase  | TN System (2+0)     | L/PE and N/PE   | 1.5 kV  | -      | 1.5 kV  | 2 TE              | 1       |
| DAC50VG-20-275 | 821130212 | 230 V Single Phase  | TN System (2+0)     | L/PE and N/PE   | 1.5 kV  | -      | 1.5 kV  | 2 TE              |         |
| DAC50VG-20-150 | 821130112 | 120 V Single Phase  | TN System (2+0)     | L/PE and N/PE   | 1.5 kV  | -      | 1.5 kV  | 2 TE              |         |