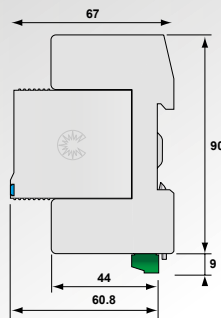


## 3-phase Type 2 (or 3) Surge Protector DS415 series

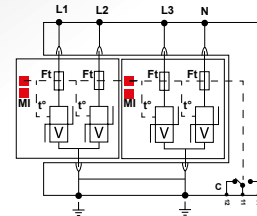


CITEL

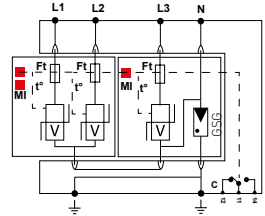
**Imax  
15 kA**



DS415S-xxx



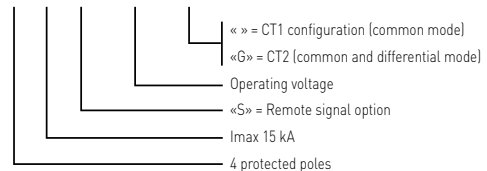
DS415S-xxx/G



V : High energy varistor  
Ft : Thermal fuse  
C : Remote signaling contact  
t° : Thermal disconnection system  
GSG : Specific gas tube  
MI : Disconnection indicator

- Compact 3-phase SPD
- In : 5 kA
- Imax : 15 kA
- Common/Differential mode
- Pluggable module
- Remote signaling contact (option)
- IEC 61643-11, EN 61643-11 and UL 1449 ed.4 compliance

### DS415 S-xxx/G



## Characteristics

| CITEL Model                                              |       | DS415-400                                                        | DS415-230                                           | DS415-230/G                                           | DS415-120                                                    | DS415-120/G                                           |
|----------------------------------------------------------|-------|------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|
| Description                                              |       | Compact 3-phase+N Type 2 surge protector - 230/400 V - Pluggable |                                                     |                                                       | Compact 3-phase+N Type 2 surge protector - 120 V - Pluggable |                                                       |
| Network                                                  |       | 230/400 V 3-phase                                                | 230/400 V 3-phase                                   | 230/400 V 3-phase                                     | 120/208 V 3-phase                                            | 120/208 V 3-phase                                     |
| Connection mode                                          |       | L/N and N/PE                                                     | L/N and N/PE                                        | L/N and N/PE                                          | L/N and N/PE                                                 | L/N and N/PE                                          |
| AC system                                                |       | IT                                                               | TN                                                  | TT-TN                                                 | TN                                                           | TT-TN                                                 |
| Max. AC operating voltage                                | Uc    | 440 Vac                                                          | 255 Vac                                             | 255 Vac                                               | 150 Vac                                                      | 150 Vac                                               |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.    | UT    | 580 Vac withstand                                                | 335 Vac withstand                                   | 335 Vac withstand                                     | 180 Vac withstand                                            | 180 Vac withstand                                     |
| Temporary Over Voltage (TOV) Characteristics - 120 mn    | UT    | 770 Vac disconnection                                            | 440 Vac disconnection                               | 440 Vac disconnection                                 | 230 Vac disconnection                                        | 230 Vac disconnection                                 |
| Temporary Over Voltage N/PE (TOV HT)                     | UT    | -                                                                | -                                                   | 1200 V/300A/200 ms withstand                          | -                                                            | 1200 V/300A/200 ms withstand                          |
| Residual current - Leakage current at Uc                 | Ipe   | < 1 mA                                                           | < 1 mA                                              | None                                                  | < 1 mA                                                       | None                                                  |
| Follow current                                           | If    | None                                                             | None                                                | None                                                  | None                                                         | None                                                  |
| Nominal discharge current - 15 x 8/20 μs impulses        | In    | 5 kA                                                             | 5 kA                                                | 5 kA                                                  | 5 kA                                                         | 5 kA                                                  |
| Max. discharge current -max. withstand @ 8/20 μs by pole | Imax  | 15 kA                                                            | 15 kA                                               | 15 kA                                                 | 15 kA                                                        | 15 kA                                                 |
| Withstand on overvoltages IEEE C62.41.1                  | Uoc   | 10 kV                                                            | 10 kV                                               | 10 kV                                                 | 10 kV                                                        | 10 kV                                                 |
| Protection level CM/DM @In (8/20μs) and @ 6kV (1.2/50μs) | Up    | 1.3 kV                                                           | 0.9 kV                                              | 1.5/0.9 kV                                            | 0.6 kV                                                       | 1.5/0.6 kV                                            |
| Admissible short-circuit current                         | Iscrr | 10000 A                                                          | 10000 A                                             | 10000 A                                               | 10000 A                                                      | 10000 A                                               |
| Associated disconnectors                                 |       |                                                                  |                                                     |                                                       |                                                              |                                                       |
| Thermal disconnector                                     |       | internal                                                         |                                                     |                                                       |                                                              |                                                       |
| Fuses                                                    |       | Fuses type gG - 20A*                                             |                                                     |                                                       |                                                              |                                                       |
| Installation ground fault breaker                        |       | Type "S" or delayed                                              |                                                     |                                                       |                                                              |                                                       |
| Mechanical characteristics                               |       |                                                                  |                                                     |                                                       |                                                              |                                                       |
| Dimensions                                               |       | see diagram                                                      |                                                     |                                                       |                                                              |                                                       |
| Connection to Network                                    |       | by screw terminals: 1.5-10mm² (L/N) or 2.5-25mm² (PE)            |                                                     |                                                       |                                                              |                                                       |
| Disconnection indicator                                  |       | 4 mechanical indicators                                          | 4 mechanical indicators                             | 3 mechanical indicators                               | 4 mechanical indicators                                      | 3 mechanical indicators                               |
| Remote signaling of disconnection                        |       | Option DS415S-400 :<br>output on changeover contact              | Option DS415S-230 :<br>output on changeover contact | Option DS415S-230/G :<br>output on changeover contact | Option DS415S-120 :<br>output on changeover contact          | Option DS415S-120/G :<br>output on changeover contact |
| Spare unit                                               |       | DSM415-400                                                       | DSM415-230                                          | DSM415-230/G + DSM415-230/GPE                         | DSM415-120                                                   | DSM415-120/G + DSM415-120/GPE                         |
| Mounting                                                 |       | Symmetrical rail 35 mm (EN60715)                                 |                                                     |                                                       |                                                              |                                                       |
| Operating temperature                                    |       | -40/+85°C                                                        |                                                     |                                                       |                                                              |                                                       |
| Protection rating                                        |       | IP20                                                             |                                                     |                                                       |                                                              |                                                       |
| Housing material                                         |       | Thermoplastic UL94-V0                                            |                                                     |                                                       |                                                              |                                                       |
| Standards compliance                                     |       | IEC 61643-11 / EN 61643-11 / UL1449 ed.4                         |                                                     |                                                       |                                                              |                                                       |
| Certification                                            |       | EAC                                                              |                                                     |                                                       |                                                              |                                                       |
| Part number                                              |       | 451402                                                           | 451702                                              | 451722                                                | 451602                                                       | 451622                                                |



\*Note: Rating in compliance with nominal discharge current. In order to increase service continuity, higher rating can be used. For further information, please consult product instructions.  
Note: MC = Common mode (L/PE or N/PE)/ MD = Differential mode (L/N)