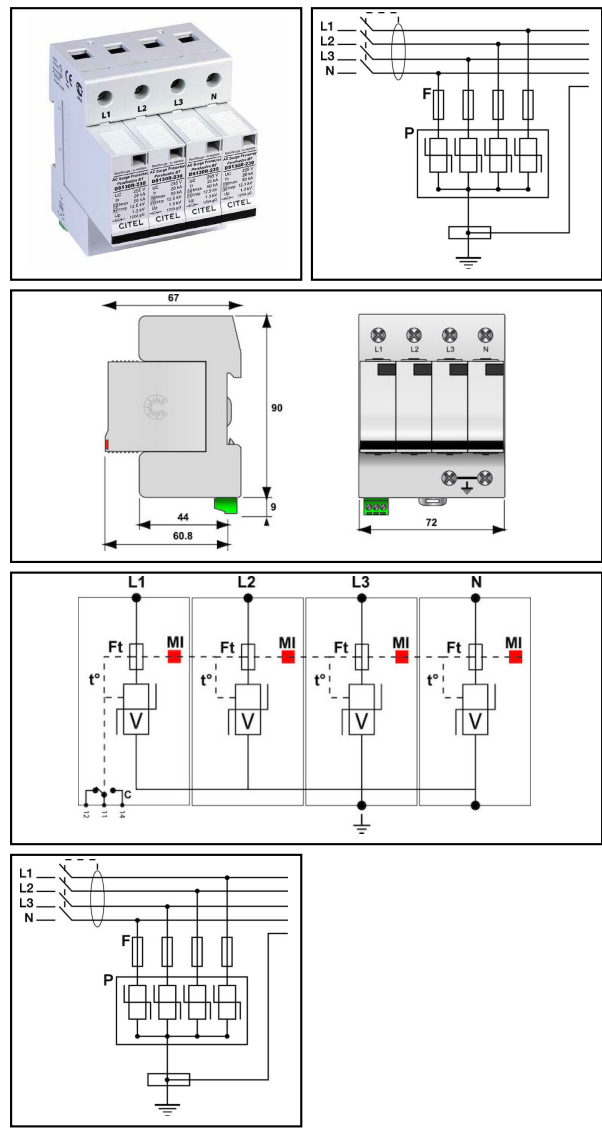


Surge Protection (Type 1)

■ DS 130 RS    Overvoltage protection T1+T2



- Characteristics**
- surge protector type 1+2
  - limp = 12.5kA/pole (10/350µs)
  - optimized to TOV
  - pluggable module
  - remote signaling

| Article-Nr. | E-Number    | Typ/Type |  | kA<br><i>I</i> <sub>limp</sub> | kA<br><i>I</i> <sub>max</sub> | ns<br><i>t</i> <sub>A</sub> | kV<br><i>U</i> <sub>P</sub> | mm²    |  | kA<br><i>i</i> <sub>n</sub> |
|-------------|-------------|----------|-------------------------------------------------------------------------------------|--------------------------------|-------------------------------|-----------------------------|-----------------------------|--------|---------------------------------------------------------------------------------------|-----------------------------|
| 296.045.571 | 808 485 000 | T1 / T2  | 1                                                                                   | 12.5                           | 50                            | 0                           | 1.3                         | 0 - 42 | Yes                                                                                   | 20                          |
| 296.045.572 | 808 486 000 | T1 / T2  | 2                                                                                   | 12.5                           | 50                            | 0                           | 1.3                         | 0 - 42 | Yes                                                                                   | 20                          |
| 296.045.573 | 808 487 000 | T1 / T2  | 3                                                                                   | 12.5                           | 50                            | 0                           | 1.3                         | 0 - 42 | Yes                                                                                   | 20                          |
| 296.045.574 | 808 488 000 | T1 / T2  | 4                                                                                   | 12.5                           | 50                            | 0                           | 1.3                         | 0 - 42 | Yes                                                                                   | 20                          |
| 296.045.575 | 808 488 010 | T1 / T2  | 3+1                                                                                 | 12.5                           | 50                            | 0                           | 1.3                         | 0 - 42 | Yes                                                                                   | 20                          |

| Accessories                                                                                                                            |             |                                                                                     |          |  |  |  |  |  |                                                                                       |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|----------|--|--|--|--|--|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <div>  <b>Replacement module 296.045.570</b> </div> |             |                                                                                     |          |  |  |  |  |  |                                                                                       |                                                                                       |
| Article-Nr.                                                                                                                            | E-Number    |  | Typ/Type |  |  |  |  |  |  |  |
| 296.045.570                                                                                                                            | 808 490 030 | TPE                                                                                 | T1 / T2  |  |  |  |  |  | DS 130 RS                                                                             | 1                                                                                     |



Technical Specifications: **Overvoltage protection T1+T2 DS 130 RS**

|                                                             |                                      |                   |                   |                   |
|-------------------------------------------------------------|--------------------------------------|-------------------|-------------------|-------------------|
|                                                             | 296.045.571                          | 296.045.572       | 296.045.573       | 296.045.574       |
| SPD type                                                    | T1 / T2                              |                   |                   |                   |
| Number of poles                                             | 1                                    | 2                 | 3                 | 4                 |
| max. discharge current (I <sub>max</sub> )                  | 50 kA                                |                   |                   |                   |
| Nominal line voltage Un AC                                  | 230 V                                |                   |                   |                   |
| Continuous voltage AC max.                                  | 280 V                                |                   |                   |                   |
| Nominal frequency [fn]                                      | 50 - 60 Hz                           |                   |                   |                   |
| Impulse current [I <sub>imp</sub> ] <sub>_(10/350)</sub>    | 12.5 kA                              |                   |                   |                   |
| Discharge current max. (8/20) μs [I <sub>max</sub> ]        | 50 kA                                |                   |                   |                   |
| Nominal discharge surge current (8/20)                      | 20 kA                                |                   |                   |                   |
| Voltage protection level [Up]                               | 1.3 kV                               |                   |                   |                   |
| Follow current [IF]                                         | 0 kA                                 |                   |                   |                   |
| follow current extinguishing capability [Ifi]               | unendlich kA eff                     |                   |                   |                   |
| Response time [ta]                                          | 0 ns                                 |                   |                   |                   |
| TOV-voltage L-N [UT]                                        | 440 Vac                              |                   |                   |                   |
| Short circuit resistance (I <sub>cw</sub> )                 | 25 kA                                |                   |                   |                   |
| Fault indication                                            | Mechanisch, Rot                      |                   |                   |                   |
| Temperature range                                           | -40 - 85 °C                          |                   |                   |                   |
| Degree of protection                                        | IP 20                                |                   |                   |                   |
| Fuse max. (gG)                                              | 160 A                                |                   |                   |                   |
| Mounting on                                                 | Hutschiene 35 mm                     |                   |                   |                   |
| Signaling on the device                                     | Optic                                |                   |                   |                   |
| Signaling contact                                           | Yes                                  |                   |                   |                   |
| Connection cross section solid / stranded max.              | 1.5 mm²                              |                   |                   |                   |
| Switching capacity signaling contact                        | 250 V / 0,5 A (AC) - 30 V / 2 A (DC) |                   |                   |                   |
| System configuration                                        |                                      | TN                |                   | TN-S              |
| Energetically coordinated protective effect to the terminal | Yes                                  |                   |                   |                   |
| Nominal cross section conductor                             | 0 - 42 mm²                           |                   |                   |                   |
| Material housing                                            | Thermoplastik UL-94-V0               |                   |                   |                   |
| Mounting method                                             | DIN rail (top hat rail) 35 mm        |                   |                   |                   |
| Remote signalling                                           | Yes                                  |                   |                   |                   |
| Degree of protection (IP)                                   | IP20                                 |                   |                   |                   |
| Construction size                                           | 1 modular spacing                    | 2 modular spacing | 3 modular spacing | 4 modular spacing |
| Voltage protection level L-N [Up]                           | 1.3 kV                               |                   |                   |                   |
| Total discharge current (8/20) (L N-PE)                     | 50 kA                                |                   |                   |                   |
| Standards                                                   |                                      |                   |                   |                   |
| Homologation                                                | VDE, ÖVE und UL                      |                   |                   |                   |
| Test standards International                                | IEC 61643-11                         |                   |                   |                   |
| Test standards USA                                          | UL 1449 ed.3                         |                   |                   |                   |
| Test standards Europe                                       | EN 61643-11                          |                   |                   |                   |
| Commercial specification                                    |                                      |                   |                   |                   |
| Customs number                                              | 85363000                             |                   |                   |                   |
| country of origin                                           | undefined                            |                   |                   |                   |
| Logistic specification                                      |                                      |                   |                   |                   |
| VPE Weight                                                  | 0.175 kg                             | 0.316 kg          | 0.444 kg          | 0.575 kg          |



|                                                             |                                      |
|-------------------------------------------------------------|--------------------------------------|
|                                                             | 296.045.575                          |
| SPD type                                                    | T1 / T2                              |
| Number of poles                                             | 3+1                                  |
| max. discharge current (I <sub>max</sub> )                  | 50 kA                                |
| Nominal line voltage U <sub>n</sub> AC                      | 230 V                                |
| Continuous voltage AC max.                                  | 280 V                                |
| Nominal frequency [f <sub>n</sub> ]                         | 50 - 60 Hz                           |
| Impulse current [I <sub>imp</sub> ] (10/350)                | 12.5 kA                              |
| Discharge current max. (8/20) $\mu$ s [I <sub>max</sub> ]   | 50 kA                                |
| Nominal discharge surge current (8/20)                      | 20 kA                                |
| Voltage protection level [U <sub>p</sub> ]                  | 1.3 kV                               |
| Follow current [I <sub>F</sub> ]                            | 0 kA                                 |
| follow current extinguishing capability [I <sub>fi</sub> ]  | unendlich kA eff                     |
| Response time [t <sub>a</sub> ]                             | 0 ns                                 |
| TOV-voltage L-N [UT]                                        | 440 Vac                              |
| Short circuit resistance (I <sub>cw</sub> )                 | 25 kA                                |
| Fault indication                                            | Mechanisch, Rot                      |
| Temperature range                                           | -40 - 85 °C                          |
| Degree of protection                                        | IP 20                                |
| Fuse max. (gG)                                              | 160 A                                |
| Mounting on                                                 | Hutschiene 35 mm                     |
| Signaling on the device                                     | Optic                                |
| Signaling contact                                           | Yes                                  |
| Connection cross section solid / stranded max.              | 1.5 mm <sup>2</sup>                  |
| Switching capacity signaling contact                        | 250 V / 0,5 A (AC) - 30 V / 2 A (DC) |
| System configuration                                        |                                      |
| Energetically coordinated protective effect to the terminal | Yes                                  |
| Nominal cross section conductor                             | 0 - 42 mm <sup>2</sup>               |
| Material housing                                            | Thermoplastik UL-94-V0               |
| Mounting method                                             | DIN rail (top hat rail) 35 mm        |
| Remote signalling                                           | Yes                                  |
| Degree of protection (IP)                                   | IP20                                 |
| Construction size                                           | 4 modular spacing                    |
| Voltage protection level L-N [U <sub>p</sub> ]              | 1.3 kV                               |
| Total discharge current (8/20) (L N-PE)                     | 50 kA                                |
| Standards                                                   |                                      |
| Homologation                                                | VDE, ÖVE und UL                      |
| Test standards International                                | IEC 61643-11                         |
| Test standards USA                                          | UL 1449 ed.3                         |
| Test standards Europe                                       | EN 61643-11                          |
| Commercial specification                                    |                                      |
| Customs number                                              | 85363000                             |
| country of origin                                           | undefined                            |
| Logistic specification                                      |                                      |
| VPE Weight                                                  | 0.515 kg                             |

