



Lightning conductor T1/T2, UN 240/400 V, UC 335/264 V A.C., pluggable protective modules, 3+1 circuit (TN-S, TT), Width 72 mm with remote signaling

| General data | |
|---|---------------------------------------|
| standard | IEC 61643-11: 2011, EN 61643-11: 2012 |
| product designation | Surge protection device |
| SPD classification / according to EN 61643-11 | |
| • Test Class I, Type 1 | Yes |
| • Test Class II, Type 2 | Yes |
| • Test Class III, Type 3 | No |
| number of SPD ports | 1 |
| design of the product | Combination surge arresters |
| design of pole | 3+N/PE |
| designation of the protective paths | L-N, L-PE, N-PE |
| accessories | 3 x 5SD7418-3 + 1 x 5SD7418-2 |
| fastening method | DIN rail NS 35 |
| material / of the enclosure | PA 6.6 / PBT |
| size of surge arrester | 4 TE |
| degree of pollution | 2 |
| overvoltage category / according to IEC 61010-1 | III |
| protection class IP / at connection all terminals | IP20 |
| shock acceleration | 30 gn |
| vibrational acceleration / at 5 Hz ... 500 Hz / limited to 2,5 h / per axis | 7.5 gn |
| relative humidity / during operation | 5 ... 95 % |
| installation altitude / at height above sea level / maximum | 2 000 m |
| width | 71.2 mm |
| height | 98.7 mm |
| depth | 77.5 mm |
| net weight | 641 g |
| Electrical data | |
| type of distribution system | TT, TN-S |
| operating voltage | |
| • at AC | 230 V |
| value range / of the operating frequency | 50 / 60 Hz |
| continuous operating voltage | |
| • at AC / maximum | 335 V |
| • between N and PE / at AC / maximum | 264 V |
| • between L and (PE)N / at AC / maximum | 335 V |
| apparent power consumption / maximum | 810 mVA |
| total discharge current / at (8/20) µs | 50 kA |
| discharge current | |
| • between L and (PE)N / at (8/20) µs | 12.5 kA |

| | |
|--|----------------------------|
| • between L and N / at (8/20) μ s | 50 kA |
| • between L and PE / at (8/20) μ s | 50 kA |
| • between L and PE / at (8/20) μ s | 12.5 kA |
| • between N and PE / at (8/20) μ s | 50 kA |
| • between N and PE / at (8/20) μ s | 50 kA |
| total lightning impulse current / at (10/350) μ s | 50 kA |
| lightning current peak value / at (10/350) μs | |
| • lightning current peak value / between L and PE | 12.5 kA |
| • lightning current peak value / between N and PE | 50 kA |
| • lightning current peak value / between L and N | 12.5 kA |
| charge of the flash / at (10/350) μs | |
| • charge of the flash / between L and N | 6.25 A·s |
| • charge of the flash / between L and PE | 6.25 A·s |
| • charge of the flash / between N and PE | 25 A·s |
| specific energy of the flash / at (10/350) μs | |
| • between L and N | 39 |
| • between L and PE | 39 |
| • between N and PE | 625 |
| follow current extinguishing capability | |
| • between N and PE | 100 A (264 V a.c.) |
| short-circuit rating (SCCR) / at 264 V | 25 kA |
| protection level | |
| • between L and N / maximum | 1.2 kV |
| • between L and PE / maximum | 2 kV |
| • between N and L | 1.2 kV |
| • between N and PE / maximum | 1.7 kV |
| • between PE and N and/or L | 1.7 kV |
| residual voltage | |
| • between L and (PE)N | |
| — at rated value of discharge current / maximum | 1.2 kV |
| — at 10 kA / maximum | 1.1 kV |
| — at 5 kA / maximum | 1 kV |
| — at 3 kA / maximum | 0.9 kV |
| • between L and PE | |
| — at rated value of discharge current / maximum | 2 kV |
| — at 10 kA / maximum | 1.5 kV |
| — at 5 kA / maximum | 1.2 kV |
| — at 3 kA / maximum | 1.1 kV |
| • between N and PE | |
| — at rated value of discharge current / maximum | 0.6 kV |
| — at 10 kA / maximum | 0.5 kV |
| — at 5 kA / maximum | 0.5 kV |
| — at 3 kA / maximum | 0.4 kV |
| response value of the surge voltage / at 6 kV / at (1.2/50) μs | |
| • between N and PE | 1.7 kV |
| • response time / between L and (PE)N | 25 ns |
| • response time / between N and PE | 100 ns |
| adjustable response factor / of tripping current | 1.6 |
| fuse protection type / at V-shaped connection | 80 A AC (gG) |
| fuse protection type / for T-connector | 160 A AC (gG) |
| Connections/ Terminals | |
| type of electrical connection | Screw terminal |
| stripped length | 16 mm |
| tightening torque | 4.3 ... 4.7 N·m |
| connectable conductor cross-section | |
| • for finely stranded conductor | 1.5 ... 25 mm ² |
| • for rigid conductor | 1.5 ... 35 mm ² |
| • finely stranded | 1.5 ... 25 mm ² |
| AWG number / as coded connectable conductor cross section | 15 ... 2 |
| design of the thread / of the connection screw | M5 |

| | |
|---|-----------------------------------|
| signal design | Optical, remote signaling contact |
| Indicator/remote signaling | |
| product component / remote signaling contact | Yes |
| switching function / of the remote signaling contacts | PDT contact |
| operating voltage / of the remote signaling contacts / at AC | 5 ... 250 V |
| operational current / of the remote signaling contacts / at AC | 5 mA ... 1.5 A |
| connection type of remote signaling contact | M2 |
| connectable conductor cross-section / for remote signaling contacts / for rigid conductor | 0.14 ... 1.5 mm ² |
| connectable conductor cross-section / for finely stranded conductor / for remote signaling contacts ... | 0.14 ... 1.5 mm ² |
| AWG number / as coded connectable conductor cross section / for remote signaling contacts | 28 ... 16 |
| tightening torque / for remote signaling contacts | 0.25 N·m |
| stripped length / of the cable / for remote signaling contacts | 7 mm |
| NEMA/UL - Data | |
| type of distribution system | TT, TN-S |
| TOV behavior | |
| • at TOV test voltage (L-N) | 415 V AC (5 s / withstand mode) |
| • at TOV test voltage (N-PE) | 1200 V (200 ms / withstand mode) |
| ambient temperature | |
| • during operation | -40 ... +80 °C |
| • during storage | -40 ... +80 °C |
| combustibility class according to UL 94 | V0 |

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SD7414-3>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

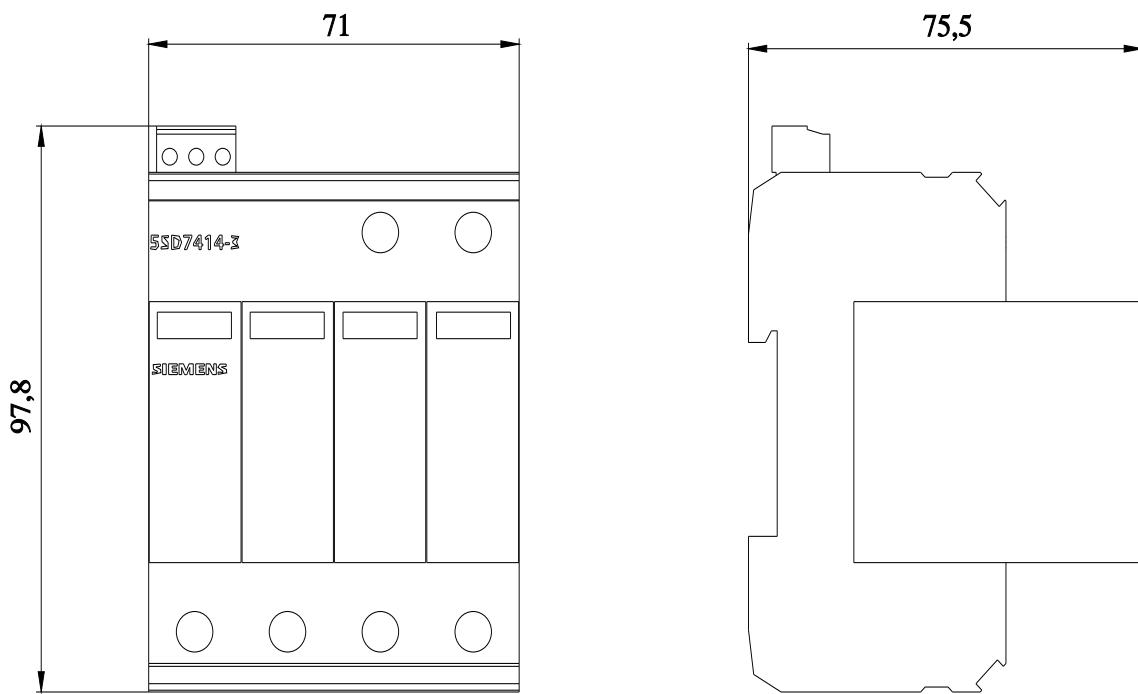
<https://support.industry.siemens.com/cs/ww/en/ps/5SD7414-3>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7414-3

CAx-Online-Generator

<http://www.siemens.com/cax>



last modified:

3/12/2024

