



Surge arrester T2, UN 240/400 V, UC 350/264 V AC, pluggable protective module, 3+1 circuit (TN-S, TT), Width 49.2 mm

| General data | |
|---|---------------------------------------|
| standard | IEC 61643-11: 2011, EN 61643-11: 2012 |
| product designation | Surge protection device |
| SPD classification / acc. to EN 61643-11 | |
| • Test Class I, Type 1 | No |
| • Test Class II, Type 2 | Yes |
| • Test Class III, Type 3 | No |
| number of SPD ports | 1 |
| Product version | Surge arrester |
| design of pole | 3+N/PE |
| designation of the protective paths | L-N, N-PE |
| Accessories | 3 x 5SD7428-1 + 1 x 5SD7428-2 |
| fastening method | DIN rail NS 35 |
| material / of the enclosure | PA 6.6 / PBT |
| size of surge arrester | 2,7 MW |
| Degree of pollution | 2 |
| overvoltage category / acc. 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 | 5 gn |
| Ambient temperature / during operation / minimum permissible ... ambient temperature / during operation / maximum permissible | -40 °C ... 80 °C |
| ambient temperature / during storage and transport | -40 °C ... 80 °C |
| relative humidity / during operation | 5 % ... 95 % |
| installation altitude / at height above sea level / maximum | 2 000 m |
| Width | 49.2 mm |
| Height | 90 mm |
| depth | 71.5 mm |
| net weight | 382 g |
| Electrical data | |
| type of distribution system | TT, TN-S |
| operating voltage | 230 / 400 V AC |
| operating voltage | 230 V |
| operating frequency | 50/60 Hz |
| continuous operating voltage | |
| • maximum | 350 V |

| | |
|---|--|
| <ul style="list-style-type: none"> • between N and PE | 264 V |
| <ul style="list-style-type: none"> • between L and PE | 350 V |
| <ul style="list-style-type: none"> • between L and (PE)N | 350 V |
| load current | 40 A |
| protective conductor current | 1 µA (264 V AC) |
| discharge current | |
| <ul style="list-style-type: none"> • between L and (PE)N / at (8/20) µs | 20 kA |
| <ul style="list-style-type: none"> • between L and N / at (8/20) µs | 40 kA |
| <ul style="list-style-type: none"> • between L and PE / at (8/20) µs | 40 kA |
| <ul style="list-style-type: none"> • between L and PE / at (8/20) µs | 20 kA |
| <ul style="list-style-type: none"> • between N and PE / at (8/20) µs | 80 kA |
| <ul style="list-style-type: none"> • between N and PE / at (8/20) µs | 40 kA |
| follow current extinguishing capability | |
| <ul style="list-style-type: none"> • between N and PE | 100 A (264 V a.c.) |
| short-circuit rating (SCCR) / at 264 V | 25 kA |
| protection level | |
| <ul style="list-style-type: none"> • between L and N | 1.5 kV |
| <ul style="list-style-type: none"> • between L and PE | 1.9 kV |
| <ul style="list-style-type: none"> • between N and PE | 1.5 kV |
| residual voltage | |
| <ul style="list-style-type: none"> • between L and (PE)N <ul style="list-style-type: none"> — at rated value of discharge current / maximum — at 10 kA / maximum — at 5 kA / maximum — at 4 kA / maximum — at 2 kA / maximum | 1.5 kV |
| | 1.3 kV |
| | 1.2 kV |
| | 1.1 kV |
| | 1 kV |
| <ul style="list-style-type: none"> • between N and PE <ul style="list-style-type: none"> — at rated value of discharge current / maximum — at 10 kA / maximum — at 5 kA / maximum — at 4 kA / maximum — at 2 kA / maximum | 0.7 kV |
| | 0.7 kV |
| | 0.7 kV |
| | 0.7 kV |
| | 0.7 kV |
| | 0.7 kV |
| response value of the surge voltage / at 6 kV / at (1.2/50) µs | |
| <ul style="list-style-type: none"> • between N and PE | 1.5 kV |
| <ul style="list-style-type: none"> • response time / between L and (PE)N | 25 ns |
| <ul style="list-style-type: none"> • response time / between N and PE | 100 ns |
| adjustable response factor / of tripping current | 1.6 |
| fuse protection type / at V-shaped connection | 40 A AC (gG) |
| fuse protection type / for T-connector | 315 A AC (gG) |
| Connections/ Terminals | |
| type of electrical connection | Screw terminal |
| stripped length | 16 mm |
| tightening torque | 4.3 ... 4.7 |
| stripped length | 16 mm |
| connectable conductor cross-section | |
| <ul style="list-style-type: none"> • for finely stranded conductor | 2.5 ... 16 |
| <ul style="list-style-type: none"> • for rigid conductor | 2.5 ... 25 |
| AWG number / as coded connectable conductor cross section | 12 ... 4 |
| design of the thread / of the connection screw | M5 |
| signal design | optical |
| NEMA/UL - Data | |
| type of distribution system | TT, TN-S |
| TOV behavior | |
| <ul style="list-style-type: none"> • at TOV test voltage (L-N) | 415 V AC (5 s / withstand mode) / 457 V AC (120 min / safe failure mode) |
| <ul style="list-style-type: none"> • at TOV test voltage (N-PE) | 1200 V (200 ms / withstand mode) |

Further information

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=5SD7424-2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SD7424-2>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7424-2

