SIEMENS

Data sheet

5SD7481-0



Surge arrester Type 2 Requirement class C, UC 260V Pluggable protective modules 1-pole, N-PE circuit

| 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 | N/PE |
| designation of the protective paths | N-PE |
| Accessories | 1 x 5SD7488-0 |
| fastening method | DIN rail NS 35 |
| material / of the enclosure | PA 6.6 |
| size of surge arrester | 1WM |
| Degree of pollution | 2 |
| overvoltage category / acc. to IEC 61010-1 | |
| protection class IP / at connection all terminals | IP20 |
| shock acceleration | 25 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 | 17.8 mm |
| Height | 90 mm |
| depth | 71.5 mm |
| net weight | 113 g |
| Electrical data | |
| type of distribution system | TN, TT |
| operating voltage | 240 / 415 V AC |
| operating voltage | 230 V |
| operating frequency | 50/60 Hz |
| continuous operating voltage | |
| • maximum | 260 V |

| load current | 80 A |
|---------------------------------------------------------------------|----------------------------------|
| protective conductor current | 5 μA (255 V AC) |
| apparent power consumption / maximum | 1.5 mVA |
| discharge current | |
| • at (8/20) µs | 20 kA |
| • 1 phase / at (8/20) µs | 40 kA |
| follow current extinguishing capability | 100 A (260 V AC) |
| between N and PE | 100 A (260 V) |
| protection level | 1 kV |
| • maximum | 1.5 kV |
| residual voltage | |
| at rated value of discharge current / maximum | 0.4 kV |
| • at 10 kA / maximum | 0.25 kV |
| • at 5 kA / maximum | 0.15 kV |
| • at 3 kA / maximum | 0.1 kV |
| response value of the surge voltage / at 6 kV / at (1.2/50) μs | |
| between N and PE | 1.5 kV |
| 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) |
| insulation resistance (Riso) | 1 000 MΩ |
| 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 | |
| for finely stranded conductor | 1.5 25 |
| for rigid conductor | 1.5 35 |
| finely stranded | 0.5 25 |
| AWG number / as coded connectable conductor cross section | 15 2 |
| design of the thread / of the connection screw | M5 |
| signal design | optical |
| NEMA/UL - Data | |
| type of distribution system | TN, TT |
| TOV behavior | |
| at TOV test voltage (N-PE) | 1200 V (200 ms / withstand mode) |
| combustibility class acc. to UL 94 | V-0 |
| Further information | |
| | |

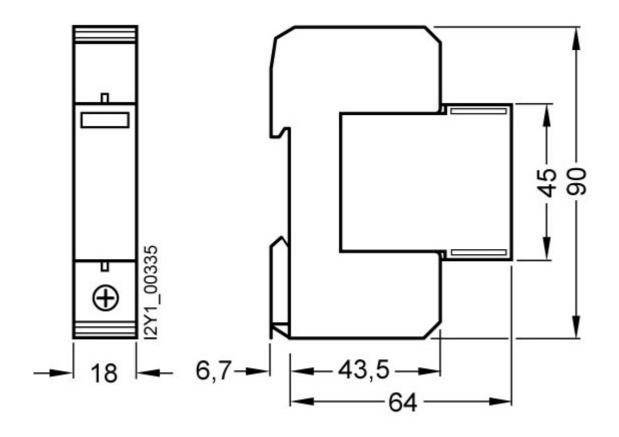
http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SD7481-0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SD7481-0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7481-0



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