



Hornsea 01 220kV Offshore GIS
HOW01Z11

Surge Arrester, Technical Datasheet, Data
Z11AAD&EDA002



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|--|---|--------------|
| 20.04.2016 | As Built | |
| Revision | Status | |
| <div><div><div>DONG</div><div>energy</div></div></div> | <div>Surge Arrester, Technical Datasheet, Data</div> <div>Z11AAD&EDA002</div> <div>Cover sheet for doc.: Technical_Datasheet_0027118159_001</div> | |
| | Project. no. | No. of pages |
| | 54PO-01747 | 2 |

Siemens H-Pos: 100; 3ES6 198-4PE41-6EA1 X50 U06

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| System Information | | |
| Highest Voltage of Equipment (Um) | 245 | kV |
| Basic Insulation Level (BIL) | 1 050 | kV |
| Maximum altitude of installation (a.s.l.) | 1000 | m |
| Neutral system earthing | solid | |
| Power Frequency | 48 ... 62 | Hz |
| Electrical data | | |
| Applied Standard | IEC 60099-4 | |
| Rated voltage (Ur) | 198 | kV |
| Maximum continuous operating voltage (Uc / MCOV) | 158 | kV |
| Nominal discharge current (In, 8/20 µs) | 20 | kA |
| Line discharge class | 4 | |
| Long duration impulse current withstand (2 ms) | 1 200 | A |
| High current impulse withstand (4/10 µs) | 100 | kA |
| Rated short circuit current (0,2 s) | 50,0 | kA |
| Maximum residual voltage at : | | |
| 20 kA 1/2 µs | 547 | kV |
| 5 kA 8/20 µs | 451 | kV |
| 10 kA 8/20 µs | 475 | kV |
| 20 kA 8/20 µs | 518 | kV |
| 40 kA 8/20 µs | 566 | kV |
| 500 A 30/60 µs | 390 | kV |
| 1 kA 30/60 µs | 404 | kV |
| 2 kA 30/60 µs | 418 | kV |
| Temporary overvoltage for 1 s | 228 | kV |
| Temporary overvoltage for 10 s | 213 | kV |
| Energy discharge capability - thermal | 10,0 | kJ/kV _r |
| Energy discharge capability - impulse | 5,60 | kJ/kV _r |
| Power Frequency withstand voltage (1min) | 460 | kV |
| Switching Impulse withstand voltage (250/2500 µs) | 750 | kV |
| Lightning Impulse withstand voltage (1,2/50 µs) | 1 050 | kV |
| Mechanical data | | |
| Height (H) | 1 305 | mm |
| Diameter (D) | 355 | mm |
| Weight (G) | 64,5 | kg |
| Color | RAL 1013 indoor special | |
| Number of phases | 1 | |
| Bushing | SF6/SF6 | |
| SF6-design overpressure | 610 | kPa |
| SF6 pressure, min. | 550 | kPa |
| SF6 mass | 3,20 | kg |
| Accessories | | |
| Accessory 1 | 3EX5 050-0 SURGE COUNTER WITH LEAKAGE CURRENT METER (0-30MA) 6 DIGIT CYCLOMETER AT LEAST 5 COUNTS/ SECOND NOM. RES. VOLTAGE AT 100KA / 4/10 #S : 5KV PEAK MIN. COUNT CURRENT 200 AMPS 8/20 #S DRAWING: 3HH 802 58238 PLEASE CONSIDER A MAXIMUM EARTH LEAD OF 2M FOR ARRESTER-COUNTER CONNECTION! RECOMMENDED CROSS SECTION OF EARTH LEAD: 35MM ² | |
| Accessory 2 | Accessory for surge counter (refer to drawing 802 65059) | |

AL: N
ECCN: N