SIEMENS

Hornsea 01 220kV Offshore GIS HOW01Z11

Surge Arrester, Technical Datasheet, Data

Z11AAD&EDA002



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Technical Datasheet Offer number: 27118159 Attachment

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
leutral system earthing	solid	
Power Frequency	48 62	Hz
Electrical data		
applied Standard	IEC 60099-4	
tated voltage (Ur)	198	kV
Maximum continuous operating voltage (Uc / MCOV)	158	kV
lominal discharge current (In, 8/20 µs)	20	kA
ine discharge class	4	
ong duration impulse current withstand (2 ms)	1 200	A
ligh current impulse withstand (4/10 μs)	100	kA
tated short circuit current (0,2 s)	50,0	kA
laximum residual voltage at : 20 kA 1/2 µs	547	kV
20 kA 1/2 μs 5 kA 8/20 μs	451	kV 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
emporary overvoltage for 1 s	228	kV
emporary overvoltage for 10 s	213	kV
nergy discharge capability - thermal	10,0	kJ/kV _i
nergy discharge capability - impulse	5,60	kJ/kV _r
Power Frequency withstand voltage (1min)	460	kV
Switching Impulse withstand voltage (250/2500 µs)	750	kV
ightning Impulse withstand voltage (1,2/50 μs)	1 050	kV
lechanical data		
leight (H)	1 305	mm
Diameter (D)	355	mm
Veight (G)	64,5	kg
Color Iumber of phases	RAL 1013 indoor special	
Bushing	SF6/SF6	
SF6-design overpressure	610	kPa
SF6 pressure, min.	550	kPa
F6 mass	3,20	kg
ccessories		
ccessory 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: 35MM²	
Accessory 2	Accessory for surge counter (refer to drawing 802 65059)	

AL: N ECCN: N