Technical Data Sheet - Subsea Power Tra

1	**General**		
1.1	Type of equipment	transformer, reactor	
1.2	Name plate ratings	IEC	IEEE
1.3	Part No		
1.4	Service life time	30 years	
2	**Environmental data**		
2.1	Maximum operational water depth	_ m	
2.2	Ambient water temperature range (min/max)	_ / _ ˚C	
2.3	Storage temperatures (min/max)	_ / _ ˚C	
2.4	Handling temperatures (min/max)	_ / _ ˚C	
2.5	Maximum storage time topside		
3	**Dielectric liquid**		
3.1	Type/ volume of liquid (chamber for active parts)		
3.2	Type/ volume of liquid (connection chamber)		
3.3	Type/ volume of liquid (auxiliary chamber)		
4	**Cooling and temperature limits**		
4.1	Temperature class (for insulation)		
4.2	Cooling mode (ONWN/ KNWN)		
4.3	Average winding temperature		
4.4	Hot spot winding temperature		
4.5	Top insulating liquid temperature		
5	**Construction Material**		
5.1	Winding conductor material		
5.2	Primary winding insulation material		
5.3	Secondary winding insulation material		
5.4	Tertiary winding insulation material		
6	**Tank design**		
6.1	Type of tank design (single shell/ double shell)		
6.2	Number of chambers		
6.3	Tank material		
6.4	Tank coating type/ thickness		
7	**Handling and installation**		
7.1	Maximum tilting	_ degrees	
7.2	Maximum inclination	_ degrees	
7.3	Maximum landing speed	_ m/s	
8	**Electrical parameters**		
8.1	Primary rated voltage	_ kV	
8.2	Secondary rated voltage at no-load	_ kV	
8.3	Tertiary rated voltage at no-load	_ kV	
8.4	Primary tapping		
8.5	Secondary tapping		

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8.6	Tertiary tapping	
8.7	Primary highest voltage for equipment (Um)	_ kV
8.8	Secondary highest voltage for equipment (Um)	_ kV
8.9	Tertiary highest voltage for equipment (Um)	_ kV
8.10	BIL	_ kV
8.11	Number of windings	
8.12	Primary rated power (IEC)	_ kVA
8.13	Secondary rated power (IEC)	_ kVA
8.14	Tertiary rated power (IEC)	_ kVA
8.15	Secondary rated power (IEEE)	_ kVA
8.16	Tertiary rated power (IEEE)	_ kVA
8.17	Rated frequency	_ Hz
8.18	Voltage harmonic distortion level	_ % THD
8.19	Current harmonic distortion level	_ % TDD
8.20	Primary supply system earthing	isolated solid
8.21	Vector group	
8.22	Short circuit impedance (IEC)	
8.23	Short circuit impedance (IEEE)*	
8.24	Power supply short circuit current (peak)	_ A
8.25	Power supply short circuit current (rms symmetrical/ time)	_ A / _ s
8.26	Full-load losses	_ kW
8.27	No-load losses	_ kW
8.28	Primary direct zero sequence impedance	
8.29	Secondary direct zero sequence impedance	
8.30	X/R ratio	
8.31	Flux density at 110% of rated voltage	_ T
8.32	Maximum inrush current	_ A
8.33	Boost factor	
8.34	Resistance of NGR	
9	**Documentation requirements**	
9.1	Current harmonic spectrum of VSDs upto harmonics 100	
10	**Special tests**	
10.1	Dielectric special test	
10.2	Short-circuit withstand test	
10.3	Determination of capacitances of windings-to-earth, and between windings	
10.4	Measurement of dissipation factor (tan δ) of the insulation system capacitances	
10.5	Measurement of zero sequence impedance(s) on three phase transformers	
10.6	Check of external coating	
10.7	Mechanical test or assessment of tank for suitability for transport	
10.8	SFRA (sweep frequency response analysis) test	
11	**Instrumentation and auxiliary systems**	

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Reference to §7,3 of
measurement of Elec
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11.1	Insulation monitoring	
11.2	Liquid temperature	
11.3	Winding temperature	
11.4	Water ingress monitoring	
11.5	Pressure monitoring	
11.6	Primary voltage measurement	
11.7	Secondary voltage measurement	
11.8	Tertiary voltage measurement	
11.9	Primary current measurement	
11.10	Secondary current measurement	
11.1	NGR current measurement	
11.1	Winding	
12	**Mechanical parameters**	
12.1	Overall dimensions (LxWxH)	
12.2	Total weight in air	_kg
12.3	Total weight in water	_kg
12.4	Weight of oil	_kg
12.5	Overall length (mated)	_mm
12.6	Maximum Outside diameter	_ mm
12.7	Type of pressure compensator (chamber for active parts)	
12.8	Type of pressure compensator (connection chamber)	
12.9	Type of pressure compensator (auxiliary chamber)	
13	**Accessories**	

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Ref to document

ng of connector
hould be indicated.

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Earth fautlt current of power supply system should also be

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added