

TECHNICAL DATA SHEET

Medium Voltage Transformer 3600 kVA
for Medium Voltage Power Station MVPS-4000-S2-10



TYPE	Medium-voltage transformer for inverter application	
DESIGN	Three-phase-oil-transformer hermetic sealed with electrostatic shield winding	
RATED POWER @ 50 °C	[kVA]	3600
RATED POWER @ 35 °C	[kVA]	4000
RATED CURRENT AT LOW-VOLTAGE LEVEL @ 50 °C (APPROX.)	[A]	3464
RATED VOLTAGE	[kV/kV]	33 / 0.600
TAP CHANGER	With	
TAPPING HIGH-VOLTAGE LEVEL	[%]	±2 x 2.5%
FREQUENCY	[Hz]	50
VECTOR GROUP	Dy11	
NO-LOAD LOSSES (AT RATED VOLTAGE)	[kW]	3.6
SHORT-CIRCUIT LOSSES (@ TEMP. 75 °C, @ RATED POWER)	[kW]	36
PEAK EFFICIENCY INDEX (PEI) according to EN 50588-1	[%]	99.525
IMPEDANCE VOLTAGE AT RATED CURRENT (@ TEMP. 75 °C, @ RATED POWER)	[%]	6 to 8.5
INRUSH CURRENT	Reduced	
MAX. VOLTAGE FOR EQUIPMENT Um	[kV]	36
TYPE OF COOLING	KNAN	
MAX. ALTITUDE ABOVE SEA LEVEL	[m]	4000
AMBIENT TEMPERATURES (MIN. / MAX.)	[°C]	-25 / 50
@ 1000 m	[°C]	50
@ 2000 m	[°C]	47.5
@ 3000 m	[°C]	45
@ 4000 m	[°C]	42.5
MAX. OVER TEMPERATURE (HOT SPOT / WINDING / OIL)	[°K]	100 / 85 / 80
SHORT-CIRCUIT DURATION	[s]	2
MANUFACTURERS REGULATION	IEC 60076	
INSULATION LEVEL (HV / LV)	II 170 AC 70 / II - AC 10	
HIGH-VOLTAGE BUSHING	Outside cone bushings 630 A, type C	
LOW-VOLTAGE BUSHING	3.6 kV bushing for at least 4000 A	
MAX. DIMENSIONS (LxWxH)	[mm]	1606 x 2200 x 2350
TOTAL WEIGHT (APPROX.)	[kg]	7500
OIL WEIGHT (APPROX.)	[kg]	1980
OIL TYPE	Oil based on ester	
COATING according to ISO 12944-5	C5H	
DEGREE OF PROTECTION according to IEC 60529	IP23	
TRANSFORMER PROTECTION	<ul style="list-style-type: none"> - Resistance thermometer PT100 for analogue oil temperature measurement - Over pressure gauge with a changeover contact - Oil level gauge with a changeover contact - Over pressure safety valve 	
ACCESSORIES	<ul style="list-style-type: none"> - Oil filling pipe - Oil sampling valve - Lifting lugs - Earthing terminals - Nameplate 	

Values subject to tolerances according to IEC 60076

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