

Description

Three-phase- Oil transformer acc. to IEC 60076 ,
hermetic sealed, designed for ambient temperature of -20 °C up to 50 °C
and max. altitude for installation of 1.000 m , suitable for indoor installation
with aluminium winding Routine test acc. to DIN EN 60076-1
acc. to Regulation (EU) Nr. 548/2014 & 2019/1783: Tier 2
in according to ENERCON_spezifikation D1015892_2.2 (2021-11-15)
-SAP 1036561

Techn. parameters

Type:	DST 5100 H/20	Cooling method:	KFWF
Nominal Capacity:	5.100 kVA	Operating Mode:	continuous
Nominal Voltage:	20.000 V / 750 V	Frequency:	50,00 Hz
Nominal Current HV:	147,2 A	Type:	LT
Nominal Current LV:	3.926 A	Insulation Class:	120
Tappings HV:	+4x2,5%		
AC HV / LV:	50,0 kV / 3,0 kV		
BIL HV / LV:	125 kV		
Insulated for:	24,0 kV / 1,1 kV	Duration of short-circuit:	2 s
Degree of protection transform:	IP54	Coolant:	synthetic ester oil
Degree of protection bushings:	IP54/IP00	Excess temp. of winding:	50 K
Vectorgroup:	Dyn 5	Excess temp. of oil:	45 K
		Excess tem hot spot:	63 K
Neutral point:	L.V. leaded through, 30% max. permissible load - max. inrush/max. nominal current = 6,1 - no load current (%I _n) = 0,15 - Waterinlet temperature = max. 55°C - Volumenflow = 80 l/min		

Losses

No-load losses:	3.100 W	Tolerance:	0,0 %
impedance losses:	42.500 W	Tolerance:	0,0 %
Efficiency (PEI):	99,550 %		
Impedance voltage:	6,50 %	Tolerance:	10,0 %
Reference Temp. uk / Pk:	90 °C		
Sound power:	78 dB	Tolerance:	0,0 dB

Marking

Language:	english
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Equipment

Accessories:	filling pipe G 1½
Temperature:	1 pc. screw-in resistance thermometer PT-100/ 3-channel-technique without monitor 1 pc. thermometer pocket 2 pc sign "Ester" (sticker) on filling pipe and nameplate EMB-hermetic protection device with 2 pc pressure switches type 95 0.5 bar Oil Cooler - AKG Oil Pump - Speck terminal box 4 pc lifting lugs at the tank 1 set of retaining struts

Bushings

H.V.:	3 pc plug-in bushing 24/630-C EN 50180
L.V.:	3 pc l.v. moulded single-pole bus-bar bushing 8000A/1KV; Serie 44 (N) 1 pc busbar bushing series 24 (5000A) EN50387

Vessel

1pc oil outlet Typ C2-40 EN 50216-4

Corrosion protection

Kind of corrosion protection:	coating acc to DIN EN 12944 C3
Covering coat:	RAL 7033

Dimensions


Length:	max. 2.650 mm
Width:	max. 1.200 mm
Height:	max. 2.600 mm

Total mass

Total Mass:	app. 9.380 kg
Thereof Oil:	2.040 kg

Comments

d	Bypass connection removed, item 112 added, item 100 changed, item 88 moved upwards	26.01.2022	SU
c	Bypass connection from filling pipe to expansion tank added	06.01.2022	SU
b	Total weight changed due to additional active part support	03.11.2021	SU
a	Pitch of cover bolts and anti-magnetic plate changed	29.09.2021	SU
revision	description	date	name

 SBG Your dedicated partner of the SGB-SMIT Group	date	name	designation Outline drawing DST 5100 20kV +4x2,5%/0,75 kV Dyn5 draw-No.: EG3501_D scale 15 subst. for: same no. from 06.01.22	sheet 1 / 1
	drawn	17.09.2021 Singer		
	checked			
	norm			