Test Report

Date of issue:

Serial No.: 3GP11025338

Customer:

Customer ref.:

Tag No.:
Order No.: 596095-40 / 30168225-1
Type: M3BP 315SMC 4 B3
Product Code: 3GBP312230-ADG
Protection type:
Cert. No.:
Marine Cert. No.:

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	150	1488	271	0,84	S1
Insul.cl.F								
IP55								

Resistance
Line — Ambient: 22,5 °C

U_1 - V_1	0,01321	Ω
U_1 - W_1	0,01321	Ω
V_1 - W_1	0,01319	Ω

Insulation resistance at 55,5 °C
1200 MΩ 1000 V

Overload
Torque 160 % 15s

High-voltage test winding 2000 V 60 s

Test	Torque [Nm]	Line U[V]		f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No load test		400	D	50	92,8	2,715		1500	0,0422	
Locked rotor test		70,7	D	50	271,2	10,14		0	0,3053	
Thermal test (100% load)	963,0	400	D	50	270,9	157,31	150,00	1488	0,84	95,40
Partial load points:										
~75% load	721,5	400,2	D	50	211,6	117,79	112,50	1492	0,80	95,50
~50% load	482,2	400,1	D	50	158,3	78,86	75,00	1495	0,72	95,10
~25% load	241,8	400,2	D	50	115,4	40,52	37,50	1497	0,51	92,50

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		66,0	1
Frame :		33,9	2
Bearing D-end :		49,9	2
Rotor:			3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

Starting current (I_S / I_N) : 7,23
Locked rotor torque (T_l / T_N) : 2,53
Breakdown torque (Tb / TN) : 2,9
Pull-up torque (Tu / TN) : 2,11

Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1.
PLL determined from residual loss.

On behalf of customer

On behalf of manufacturer Date of test 13.10.2011

Tested by ABB Oy, Motors and Generators, Vaasa, Finland

Telephone +358 10 2211
Telefax +358 10 22 47372

Computer print-out valid without signature.