Type Test Report

Date of issue: 2013.03.12

Serial No.: 3GH074909T1502

Customer:

Customer ref.:

Type: M3GP 90SLB 2
Product Code: 3GGP091322-_DB
Protection Type: Ex nA IIC T3
Cert. No.: VTT 12 ATEX 050X / IECEx VTT 12.0010X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	1,50	2900	1,73	0,86	S1
Insul.cl.F	400	D	50	1,50	2900	3,00	0,86	S1

IP55

Eff class IE2

50Hz : IE2 - 82,2(100%) - 84,1(75%) - 82,7(50%)

Resistance

Line — Ambient: 18,0 °C

U_1 - V_1	7,30000 Ω
U_1 - W_1	7,28000 Ω
V_1 - W_1	7,29000 Ω

Insulation resistance at 18 °C
R > 2000 Mohm 1000 V

Overload

Current	150 %	120s
Torque	160 %	15s
Speed	120 %	120s

High-voltage test winding 2400 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	1,04	0,12		3000	0,16	
Locked rotor test		75	D	50	3,0	0,19		0	0,49	
Thermal test (100% load)	4,9	400	D	50	2,9	1,81	1,50	2895	0,89	82,70
Partial load points:										
~75% load	3,7	400	D	50	2,2	1,36	1,13	2929	0,86	83,30
~50% load	2,4	400	D	50	1,68	0,92	0,75	2952	0,79	81,80
~25% load	1,2	400	D	50	1,20	0,51	0,38	2976	0,61	74,50

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		48,3	3
Frame :		13	3
Bearing D-end :		23	3
Ambient Temperature :	25		3

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

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 21.12.2007

Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain

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