Type Test Report

Date of issue: 2013.03.12

Serial No.: 3GH093210T2204

Customer:

Customer ref.:

Type: M3GP 100LC 4
Product Code: 3GGP102323-_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	2,2	1450,0	2,70	0,78	S1
Insul.cl.F	400	D	50	2,2	1450,0	4,70	0,78	S1
IP55								
Eff class IE2								

50Hz : IE2 - 85,9(100%) - 85,1(75%) - 83,4(50%)

Resistance
Line Ambient: 28,0 °C

U_1 - V_1	3,88900	Ω
U_1 - W_1	3,88000	Ω
V_1 - W_1	3,89000	Ω

Insulation resistance at 26,6 °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	2,5	0,17		1500	0,10	
Locked rotor test		74,8	D	50	5,1	0,34		0	0,51	
Thermal test (100% load)	14,5	400	D	50	4,5	2,58	2,20	1449	0,81	85,20
Partial load points:										
~75% load	10,8	400	D	50	3,8	1,95	1,65	1462	0,74	84,40
~50% load	7,1	400	D	50	3,0	1,33	1,10	1475	0,63	82,60
~25% load	3,5	400	D	50	2,4	0,74	0,55	1488	0,43	74,60

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		59,3	3
Frame :		12,6	3
Bearing D-end :		25,3	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 26.8.2009

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