Type Test Report

Date of issue: 2013.12.19

Serial No.: 3GE120330T0002

Customer:

Customer ref.:

Type: M3GP 100 LE 4
Product Code: 3GGP102445-_HB
Protection type: Ex nA IIC T3 Gc
Cert. No.: VTT 12 ATEX 050 X / IECEx VTT 12.0010 X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	415	D	50	3,00	1450	5,80	0,83	S1

Insul.cl.F
IP55

Eff class IE2

50Hz : IE2 - 86,1(100%) - 86,7(75%) - 85,7(50%)

Resistance
Line Ambient: 12,5 ºC

U_1 - V_1	3,22600	Ω
U_1 - W_1	3,22100	Ω
V_1 - W_1	3,22800	Ω

Insulation resistance at 25 ºC
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		415	D	50	3,2	0,19		1500	0,08	
Locked rotor test		79,1	D	50	6,1	0,46		0	0,55	
Thermal test (100% load)	19,8	415	D	50	5,8	3,48	3,00	1448	0,83	86,10
Partial load points:										
~75% load	14,7	415	D	50	4,6	2,60	2,25	1462	0,77	86,70
~50% load	9,7	415	D	50	3,7	1,75	1,50	1476	0,65	85,70
~25% load	4,8	415	D	50	3,0	0,97	0,75	1487	0,44	77,10

Temperature rise at rated load.

	[ºC]	[K]	Method
Stator winding :		48,0	3
Frame :		20,8	3
Bearing D-end :		23,7	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 5.3.2012

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

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