Type Test Report

Date of issue: 2013.03.12

Serial No.: 3GH093809T1106

Customer:

Customer ref.:

Type: M3GP 90SLE 6
Product Code: 3GGP093324-_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	1,10	930	1,73	0,66	S1
Insul.cl.F	400	D	50	1,10	930	3,00	0,66	S1
IP55								

50Hz : IE2 - 78,2(100%) - 78,6(75%) - 76,4(50%)

Resistance
Line — Ambient: 23,6 °C

U_1 - V_1	11,27000	Ω
U_1 - W_1	11,28000	Ω
V_1 - W_1	11,27000	Ω

Insulation resistance at 25,9 °C
R > 2000 Mohm 1000 V

High-voltage test winding 2400 V 60 s

Overload

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

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	2,1	0,15		1000	0,10	
Locked rotor test		107,5	D	50	2,7	0,28		0	0,56	
Thermal test (100% load)	11,3	400	D	50	2,9	1,45	1,10	929	0,70	75,90
Partial load points:										
~75% load	8,3	400	D	50	2,5	1,08	0,83	949	0,62	76,50
~50% load	5,4	400	D	50	2,1	0,74	0,55	967	0,49	74,10
~25% load	2,7	400	D	50	1,93	0,43	0,28	984	0,32	63,30

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		50,5	3
Frame :		29,3	3
Bearing D-end :		30,1	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 6.10.2009

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