Test Report

Date of issue: 20.11.2015

Type: M3JM 355MLA 2
Product Code: 3GJM351410-_DG
Protection type: Ex d I Mb
Cert. No.: LCIE 10 ATEX 3089 X / IECEx LCI 04.0008X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	400	2982	392	0,88	S1
Insul.cl.F	400	D	50	400	2982	677	0,88	S1
IP66	415	D	50	400	2984	660	0,87	S1

Resistance
Line — Ambient: 21 °C
U_1 - V_1 0,00284 Ω
U_1 - W_1 0,00285 Ω
V_1 - W_1 0,00285 Ω

Insulation resistance at 65 °C
8000 MΩ 1000 V

Overload
Torque 160% 15s

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		400,0	D	50	165,1	6,27		3000	0,05	
Locked rotor test		65,3	D	50	677,2	22,2		0	0,29	
Thermal test (100% load)	1281	400,9	D	50	681,6	413,9	400,0	2982	0,88	96,7
Partial load points:										
~75% load	963,9	400,5	D	50	521,2	310,5	300,0	2987	0,86	96,6
~50% load	637,2	400,3	D	50	371,1	208,1	200,0	2991	0,81	96,1
~25% load	320,1	400,3	D	50	240,4	106,8	100,0	2996	0,64	93,7

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		72	1
Frame :		31	2
Bearing D-end :		51	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

Starting current (I_S / I_N) : 7,10
Locked rotor torque (T_L / T_N) : 2,51

These tests have been carried out on motor no. 3GF12124825B, on date 2012-12-20, which is identical in design with the above.

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

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