Test Report

Date of issue: 23.11.2015

Type: M3JM 315SMA 6
Product Code: 3GJM313210-_DG
Protection type: Ex d I Mb
Cert. No.: LCIE 11 ATEX 3090X / IECEx LCI 04.0007X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	75	992	81	0,82	S1
Insul.cl.F	400	D	50	75	992	139	0,82	S1
IP66	415	D	50	75	992	140	0,79	S1

Eff class IE2 — 50Hz : IE2 - 94,4%(100%) - 94,4%(75%) - 93,5%(50%)

Resistance
Line — Ambient: 26 °C
U_1 - V_1 0,04214 Ω
U_1 - W_1 0,04216 Ω
V_1 - W_1 0,04209 Ω

Insulation resistance at 52 °C
21000 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	55,1	1,92		1000	0,05	
Locked rotor test		79,4	D	50	141,1	5,54		0	0,29	
Thermal test (100% load)	722,0	400,1	D	50	141,4	79,6	75,0	994	0,81	94,2
Partial load points:										
~75% load	539,2	400,1	D	50	111,8	59,6	56,3	997	0,77	94,4
~50% load	358,8	400,0	D	50	85,9	40,1	37,5	998	0,67	93,6
~25% load	179,2	400,1	D	50	65,7	20,8	18,8	1000	0,46	90,0

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		55	1
Frame :		32	2
Bearing D-end :		39	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GF10029224, on date 2010-07-08, which is identical in electrical 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

Tested by ABB Oy, Motors and Generators, Vaasa, Finland

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