Test Report

Date of issue: 19.11.2015

Type: M3JM 315SMC 4
Product Code: 3GJM312230-_DK
Protection type: Ex d I Mb
Cert. No.: LCIE 11 ATEX 3090 X / IECEx LCI 04.0007X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	110	1491	113	0,85	S1
Insul.cl.F	400	D	50	110	1491	194	0,85	S1
IP66	660	Y	50	110	1489	117	0,86	S1
	380	D	50	110	1489	203	0,86	S1
	415	D	50	110	1491	190	0,84	S1
	460	D	60	110	1792	172	0,84	S1

50Hz : IE3 - 96.2%(100%)-96.5%(75%)-96.2%(50%)
60Hz : IE3 - 96.1%(100%)

Resistance
Line Ambient: 25,1 °C
U_1 - V_1 0,01775 Ω
U_1 - W_1 0,01777 Ω
V_1 - W_1 0,01776 Ω

Insulation resistance at 42,0 °C
22000 MΩ 1000 V

Overload
Torque 160 % 15s

High-voltage test winding 2400 V 60 s

Test		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	74,6	1,32		1500	0,03	
Locked rotor test		58,3	D	50	193,0	5,57		0	0,29	
Thermal test (100% load)		400,1	D	50	194,4	113,6	110,0	1491	0,84	96,8
Partial load points:										
~75% load		400,4	D	50	153,5	85,1	82,5	1493	0,80	97,0
~50% load		400,5	D	50	117,0	56,9	55,0	1496	0,70	96,7
~25% load		400,6	D	50	88,4	29,0	27,5	1498	0,47	94,9

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		45	1
Frame :		27	2
Bearing D-end :		32	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GF10027947, on date 2010-08-10
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

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

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