Type Test Report

Date of issue: 23.11.2015

Type: M3JM 315SMA 2
Product Code: 3GJM311210-_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	110	2982	112	0,86	S1
Insul.cl.F	400	D	50	110	2982	197	0,86	S1
IP66	415	D	50	110	2983	192	0,85	S1

Eff class IE2 — 50Hz: IE2 - 94,9%(100%) - 94,4%(75%) - 92,9%(50%)

Resistance
Line — Ambient: 22 °C
U_1 - V_1 0,01658 Ω
U_1 - W_1 0,01655 Ω
V_1 - W_1 0,01657 Ω

Insulation resistance at 60 °C
MΩ 1000 V

Overload
Torque 160 % 15s

High-voltage test winding 1900 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	62,0	3,29			0,08	
Locked rotor test		62,7	D	50	194,0	5,47		0	0,26	
Thermal test (100% load)		400,0	D	50	196,9	115,8	110,0	2984	0,85	95,0
Partial load points:										
~75% load		400,7	D	50	153,8	87,2	82,5	2989	0,82	94,6
~50% load		400,8	D	50	114,6	58,9	55,0	2993	0,74	93,3
~25% load		401,0	D	50	81,9	31,0	27,5	2997	0,55	88,8

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		56	1
Frame :		27	2
Bearing D-end :		34	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GP11024793, on date 2011-11-02, 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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