Test Report

Date of issue: 23.11.2015

Type: M3JM 280SMA 4
Product Code: 3GJM282210-_DG
Protection type: Ex d I Mb
Cert. No.: LCIE 11 ATEX 3089X / IECEx LCI 04.0006X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	75	1484	78	0,85	S1
Insul.cl.F	400	D	50	75	1484	134	0,85	S1
IP66	415	D	50	75	1485	131	0,84	S1

Eff class IE2 — 50Hz: IE2 - 94,5%(100%) - 94,7%(75%) - 94,4%(50%)

Resistance
Line — Ambient: 25 °C

U_1 - V_1	0,04282	Ω
U_1 - W_1	0,04289	Ω
V_1 - W_1	0,04280	Ω

Insulation resistance at 60 °C
7000 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		400,1	D	50	45,0	1,50		1500	0,05	
Locked rotor test		75,0	D	50	135,0	5,98		0	0,34	
Thermal test (100% load)	482,6	400,2	D	50	134,8	79,3	75,0	1485	0,85	94,6
Partial load points:										
~75% load	361,0	400,0	D	50	105,0	59,3	56,3	1488	0,82	94,8
~50% load	239,4	400,0	D	50	78,0	39,7	37,5	1493	0,73	94,5
~25% load	119,7	400,0	D	50	56,4	20,5	18,8	1496	0,52	91,7

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		59	1
Frame :		33	2
Bearing D-end :		33	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GF11068912, on date 2011-05-12, 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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