Test Report

Date of issue: 19.11.2015

Type: M3JM 280SMA 8
Product Code: 3GJM284210-_DL
Protection type: Ex d I Mb
Cert. No.: LCIE 11 ATEX 3089 X /
IECEx LCI 04.0006X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	37	742	42,1	0,79	S1
Insul.cl.F	400	D	50	37	742	73	0,79	S1
IP66	415	D	50	37	743	71,9	0,77	S1
	440	D	60	37	893	65,4	0,80	S1
	460	D	60	37	893	64,2	0,78	S1

Eff class IE3

50Hz : IE3-91.8%(100%) - 92.1%(75%) - 91.4%(50%)
60Hz : IE3-92.4%(100%)

Resistance
Line Ambient: 23 °C
U_1 - V_1 0,11086 Ω
U_1 - W_1 0,11087 Ω
V_1 - W_1 0,11095 Ω

Insulation resistance at 56 °C
23000 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	30,4	1,04		750	0,05	
Locked rotor test		95,9	D	50	74,0	2,86		0	0,23	
Thermal test (100% load)	476,9	400,1	D	50	73,0	39,8	37,0	742	0,79	93,0
Partial load points:										
~75% load	358,3	400,1	D	50	58,3	29,8	27,8	743	0,74	93,2
~50% load	237,6	400,1	D	50	45,4	20,0	18,5	746	0,64	92,6
~25% load	119,1	400,1	D	50	35,4	10,4	9,3	747	0,42	88,8

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		54	1
Frame :		22	2
Bearing D-end :		34	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GF11071613, on date 2011-05-30 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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