Test Report

Date of issue: 19.11.2015

Type: M3JM 315LKC 6
Product Code: 3GJM313830-_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	160	994	171	0,82	S1
Insul.cl.F	400	D	50	160	994	297	0,82	S1
IP66	660	Y	50	160	992	175	0,84	S1
	380	D	50	160	992	304	0,84	S1
	415	D	50	160	994	288	0,81	S1
	460	D	60	160	1195	259	0,81	S1

Eff class IE3

50Hz : IE3 - 96.1%(100%)-96.3%(75%)-96.2%(50%)
60Hz : IE3 - 96.1%(100%)

Resistance
Line Ambient: 25 °C

U_1 - V_1	0,01297	Ω
U_1 - W_1	0,01297	Ω
V_1 - W_1	0,01295	Ω

Insulation resistance at 38 °C
2000 MΩ 1000 V

High-voltage test winding 1800 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	124,1	1,75		1000	0,02	
Locked rotor test		73,0	D	50	290,2	10,0		0	0,27	
Thermal test (100% load)	1537,0	400,2	D	50	296,7	165,4	160,0	994	0,81	96,7
Partial load points:										
~75% load	1152,0	400,1	D	50	236,2	123,8	120,0	996	0,76	96,9
~50% load	771,7	400,1	D	50	183,3	82,7	80,0	997	0,65	96,8
~25% load	380,7	400,1	D	50	142,8	42,0	40,0	999	0,42	95,2

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		42	1
Frame :		25	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. 3GP11022758, on date 2011-08-24 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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