V6.0.1 - 1.0.6304.21741

Type Test Report

Date of Issue: 19.5.2017

Type: M3GP 355MLA 2
Product Code: 3GGP351410-_DG
Protection type: Ex tb IIIB T125C Dd
Cert. no.: LCIE 12 A TEX 3021 X
IECEx LCI 07.0001X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	400	2982	392	0.88	S1
Ins. Class F	400	D	50	400	2982	677	0.88	S1
IP 55	415	D	50	400	2984	660	0.87	S1
2000 kg								
Amb. -20°C...+40°C								

50Hz: IE2 - 96.9(100%) - 96.7(75%) - 96.0(50%)

Resistance
Line Ambient: 23 °C

U_1 - V_1	0.00283 Ω
U_1 - W_1	0.00284 Ω
V_1 - W_1	0.00283 Ω

Insulation resistance at 74 °C
7000 MΩ 1000 V

Overload
Torque 160 % 15 s

High-voltage test 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	158.0	5.94			0.05	
Locked-rotor test		69.1	D	50	676.8	22.9			0.28	
Thermal test (100% load)	1281	400.2	D	50	683.3	412.7	400.0	2982	0.87	96.9
Partial load points:										
~75% load	959.0	400.2	D	50	521.4	309.7	300.0	2987	0.86	96.9
~50% load	638.3	400.4	D	50	370.6	207.6	200.0	2992	0.81	96.4
~25% load	318.7	400.3	D	50	238.8	106.4	100.0	2996	0.64	94.0

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		74	1
Frame :		34	2
Bearing D-end :		51	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

Starting current (I_S / I_N) : 6.65
Locked rotor torque (T_L / T_N) : 2.26

These tests have been carried out on motor no. 3G1F1710404575C,
on date 13.04.2017, which is identical in electrical design with the above.

Manufactured and tested in acc. to IEC/EN 60034-1:2010 and IEC/EN 60034-2-1:2014 Method 2-1-1B.

On behalf of customer

On behalf of manufacturer

Tested by ABB Oy, Motors and Generators, Vaasa, Finland
ISO/IEC 17025 certified laboratory

Tommi Pantti, Test Floor Manager

ABB, Motors and Generators
www abb.com/motors&generators

Telephone +358 10 2211
Telefax +358 10 22 47372