V6.0.1 - 1.0.7674.24845

Type Test Report

Date of Issue: 28.1.2021

Tests have been carried out for motor no. 3G1F2049721625, which is identical in electrical design with motor type(s) stated in this report.

Type: M3GP 132SMD 6
Product Code: 3GGP133240-_DK
Protection type: Ex tb IIIB T125C Db / Ex tc IIIB T125C Dc / Ex tb IIIC T125C Db / Ex tc IIIC T125C Dc

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	3	977	4	0.69	S1
Ins. Class F	400	D	50	3	977	6.9	0.69	S1
	660	Y	50	3	973	4.1	0.71	S1
	380	D	50	3	973	7.1	0.71	S1
	415	D	50	3	977	6.9	0.67	S1
	460	D	60	3	1179	6.1	0.68	S1
Eff class IE3	50Hz: IE3 - 88.5(100%) - 88.8(75%) - 87.5(50%)							
	60Hz: IE3 - 90.1(100%)							

Winding resistance	Measured at	Calculated at
	20 °C	20 °C
U_1 - V_1	1.8992 Ω	1.8992 Ω
U_1 - W_1	1.8972 Ω	1.8972 Ω
V_1 - W_1	1.9073 Ω	1.9073 Ω

Insulation resistance after heat run at 43 °C
14000 MΩ , tested at 1000 V

Overload
Torque 160 % 15 s

Withstand voltage test for winding 2207 V 1 s

Test	Torque [Nm]	Line U[V]		f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]	s [%]
No-load test		399.9	D	50	3.87	0.10			0.04		
Short circuit test		110.8	D	50	6.91	0.35			0.26		
Temp. rise test S1	29.3	400.0	D	50	6.96	3.31	3.00	979	0.69	90.8	2.14
Partial load points:											
~75% load	22.0	400.0	D	50	5.84	2.48	2.27	984	0.61	91.3	1.55
~50% load	14.6	399.9	D	50	4.90	1.67	1.52	990	0.49	90.7	1.01
~25% load	7.3	400.0	D	50	4.20	0.88	0.76	995	0.30	86.4	0.51

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		26	1
Frame :		18	2
Bearing D-end :		14	2
Ambient Temperature :	20		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

Starting current (I_S / I_N) : 6.34
Locked rotor torque (T_L / T_N) : 1.96

Current unbalance at full load: 0.32 %

Manufactured and tested acc. to IEC/EN 60034-1:2017 and IEC/EN 60034-2-1:2014 Method 2-1-1B.

On behalf of customer

On behalf of manufacturer Date of test: 19.1.2021

Tested by ABB Oy, Motors and Generators, Vaasa, Finland
Test laboratory is accredited acc. to SFS-EN ISO/IEC 17025:2017 by FINAS. Ref. T345. Tommi Pantti, Test Floor Manager

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