V6.0.1 - 1.0.7455.19842

Type Test Report

Date of Issue: 18.6.2020

Tests have been carried out for motor no. 3G1F1951646056, which is identical in electrical design with motor type(s) stated in this report.

Type: M3GP 90SLC 8
Product Code: 3GGP094103-_SB
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	400	Y	50	0,55	673	2,08	0,61	S1
Ins. Class F	230	D	50	0,55	673	3,61	0,61	S1
	460	Y	60	0,55	841	1,83	0,54	S1

Eff class IE2: 50Hz: IE2 - 61.7(100%) - 63.6(75%) - 59.8(50%)
60Hz: IE2 - 62.0(100%)

Winding resistance	Measured at 23 °C	Calculated at 20 °C
U_1 - V_1	25,591 Ω	25,343 Ω
U_1 - W_1	25,622 Ω	25,373 Ω
V_1 - W_1	25,625 Ω	25,376 Ω

Withstand voltage test for winding 2409 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		400,0	Y	50	1,66	0,15			0,13		
Short circuit test		187,2	Y	50	2,00	0,39			0,60		
Temp. rise test S1	7,7	400,1	Y	50	2,06	0,86	0,54	673	0,60	62,9	10,22
Partial load points:											
~75% load	5,8	400,2	Y	50	1,84	0,66	0,43	698	0,52	64,6	6,99
~50% load	3,9	400,2	Y	50	1,70	0,48	0,29	717	0,41	61,0	4,37
~25% load	2,0	400,3	Y	50	1,63	0,32	0,15	734	0,28	47,8	2,13

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		64	1
Frame :		47	2
Bearing D-end :		37	2
Rotor :		62	3
Ambient Temperature :	21		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

Starting current (I_S / I_N) : 2,73
Locked rotor torque (T_L / T_N) : 1,52

Current unbalance at full load: 0,33 %

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: 9.2.2020

Tested by ABB Oy, Motors and Generators, Vaasa, Finland
Test laboratory has been certified acc. to ISO/IEC 17025:2005

Tommi Pantti, Test Floor Manager

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

Telephone +358 10 2211
Telefax +358 10 22 47372