



V6.0.1 - 1.0.7455.19842

Type Test Report				Date of Issue: 30.6.2020																																		
Tests have been carried out for motor no. 3G1F1951646053, which is identical in electrical design with motor type(s) stated in this report.				Type: M3JM / M3JP / M3KP 80MB 8 Product Code: 3GJM / 3GJP / 3GKP 084320-_SJ Protection type: Ex d I Mb / Ex db I Mb Ex d IIB T4 Gb / Ex db IIB T4 Gb Ex de IIB T4 Gb / Ex db eb IIB T4 Gb																																		
Rating:		<table border="1"><thead><tr><th>V</th><th>Hz</th><th>kW</th><th>r/min</th><th>A</th><th>cos ϕ</th><th>Duty</th></tr></thead><tbody><tr><td>400</td><td>Y</td><td>50</td><td>0,25</td><td>680</td><td>0,94</td><td>0,62</td><td>S1</td></tr><tr><td>230</td><td>D</td><td>50</td><td>0,25</td><td>680</td><td>1,64</td><td>0,62</td><td>S1</td></tr><tr><td>460</td><td>Y</td><td>60</td><td>0,25</td><td>845</td><td>0,85</td><td>0,55</td><td>S1</td></tr></tbody></table>						V	Hz	kW	r/min	A	cos ϕ	Duty	400	Y	50	0,25	680	0,94	0,62	S1	230	D	50	0,25	680	1,64	0,62	S1	460	Y	60	0,25	845	0,85	0,55	S1
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3~Motor Ins. Class F																																						
Eff class IE2		50Hz: IE2 - 50.6(100%) - 51.0(75%) - 46.0(50%) 60Hz: IE2 - 52.0(100%)																																				
Winding resistance		Measured at 22 °C		Calculated at 20 °C		Insulation resistance after heat run at 47 °C																																
U ₁ - V ₁		56,000 Ω		55,651 Ω		161500 M Ω , tested at 1000 V																																
U ₁ - W ₁		56,120 Ω		55,770 Ω																																		
V ₁ - W ₁		56,090 Ω		55,740 Ω																																		
				Withstand voltage test for winding		2407 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		400,1 Y	50	0,73	0,08			0,15																														
Short circuit test		163,3 Y	50	0,95	0,16			0,60																														
Temp. rise test S1	3,6	400,3 Y	50	0,95	0,41	0,25	680	0,62	62,8	9,30																												
Partial load points:																																						
~75% load	2,7	400,1 Y	50	0,85	0,31	0,20	702	0,53	63,3	6,42																												
~50% load	1,8	400,2 Y	50	0,78	0,23	0,14	719	0,42	59,5	4,12																												
~25% load	0,9	400,3 Y	50	0,74	0,15	0,07	735	0,29	46,7	2,06																												
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method																														
Stator winding :		36		1		1 Resistance																																
Frame :		31		2		2 Thermocouples																																
Bearing D-end :		26		2		3 Thermometer																																
Rotor :		39		3																																		
Ambient Temperature :		21		2																																		
Starting current (I_s / I_N) : 3,13 Locked rotor torque (T_L / T_N) : 2,00 Current unbalance at full load: 0,59 %																																						
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: 20.3.2020																																						
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																																						