



V6.0.1 - 1.0.7455.19842

Type Test Report				Date of Issue: 18.6.2020						
Tests have been carried out for motor no. 3G1F1951646053, which is identical in electrical design with motor type(s) stated in this report.				Type: M3BP 80MB 8 Product Code: 3GBP084102-_SB						
Rating:										
		V	Hz	kW	r/min	A	cos ϕ	Duty		
3~Motor		400	Y 50	0,25	680	0,94	0,62	S1		
Ins. Class F		230	D 50	0,25	680	1,64	0,62	S1		
		460	Y 60	0,25	845	0,85	0,55	S1		
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										