



V6.0.1 - 1.0.7455.19842

Type Test Report				Date of Issue: 18.6.2020																															
Tests have been carried out for motor no. 3G1F1951646054, which is identical in electrical design with motor type(s) stated in this report.				Type: M3BP 90SLB 8 Product Code: 3GBP094102-_SB																															
Rating: 3~Motor Ins. Class F Eff class IE2				<table border="1" style="width: 100%; border-collapse: collapse;"> <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 50</td> <td>0,37</td> <td>705</td> <td>1,47</td> <td>0,57</td> <td>S1</td> </tr> <tr> <td>230</td> <td>D 50</td> <td>0,37</td> <td>705</td> <td>2,50</td> <td>0,57</td> <td>S1</td> </tr> <tr> <td>460</td> <td>Y 60</td> <td>0,37</td> <td>860</td> <td>1,38</td> <td>0,51</td> <td>S1</td> </tr> </tbody> </table> 50Hz: IE2 - 56.1(100%) - 54.5(75%) - 47.1(50%) 60Hz: IE2 - 58.0(100%)				V	Hz	kW	r/min	A	cos φ	Duty	400	Y 50	0,37	705	1,47	0,57	S1	230	D 50	0,37	705	2,50	0,57	S1	460	Y 60	0,37	860	1,38	0,51	S1
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Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	η[r/min]	cos φ	η [%]	s [%]																									
No-load test		400,0	Y 50	1,24	0,13			0,15																											
Short circuit test		161,1	Y 50	1,47	0,25			0,62																											
Temp. rise test S1	5,0	400,4	Y 50	1,44	0,57	0,36	700	0,57	64,0	6,62																									
Partial load points:																																			
~75% load	3,7	400,0	Y 50	1,33	0,45	0,28	716	0,48	62,7	4,59																									
~50% load	2,5	400,1	Y 50	1,27	0,34	0,19	728	0,38	56,6	2,95																									
~25% load	1,2	400,2	Y 50	1,24	0,23	0,09	739	0,27	40,9	1,43																									
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method																											
Stator winding :				42	1			1 Resistance																											
Frame :				31	2			2 Thermocouples																											
Bearing D-end :				23	2			3 Thermometer																											
Rotor :				38	3																														
Ambient Temperature :				21	2																														
Starting current (I _S / I _N) : 2,85 Locked rotor torque (T _L / T _N) : 1,78 Current unbalance at full load: 0,14 %																																			
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: 24.3.2020 Tommi Pantti, Test Floor Manager																																			
Tested by ABB Oy, Motors and Generators, Vaasa, Finland Test laboratory has been certified acc. to ISO/IEC 17025:2005																																			