



V6.0.1 - 1.0.7455.19842

Type Test Report				Date of Issue: 30.6.2020																															
Tests have been carried out for motor no. 3G1R1950222193, which is identical in electrical design with motor type(s) stated in this report.				Type: M3AA 80A 8 Product Code: 3GAA084001-_SE																															
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 50</td> <td>0,18</td> <td>665</td> <td>0,77</td> <td>0,63</td> <td>S1</td> </tr> <tr> <td>230</td> <td>D 50</td> <td>0,18</td> <td>665</td> <td>1,33</td> <td>0,63</td> <td>S1</td> </tr> <tr> <td>460</td> <td>Y 60</td> <td>0,18</td> <td>835</td> <td>0,69</td> <td>0,55</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	400	Y 50	0,18	665	0,77	0,63	S1	230	D 50	0,18	665	1,33	0,63	S1	460	Y 60	0,18	835	0,69	0,55	S1
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400	Y 50	0,18	665	0,77	0,63	S1																													
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3~Motor Ins. Class F																																			
Eff class IE2		50Hz: IE2 - 45.9(100%) - 46.6(75%) - 40.3(50%) 60Hz: IE2 - 46.0(100%)																																	
Winding resistance		Measured at 23 °C U ₁ - V ₁ 101,280 Ω U ₁ - W ₁ 101,290 Ω V ₁ - W ₁ 101,270 Ω		Calculated at 20 °C 100,102 Ω 100,112 Ω 100,092 Ω		Insulation resistance after heat run at 48 °C 1140 MΩ, tested at 1000 V																													
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	0,66	0,09			0,20																											
Short circuit test		186,4	Y 50	0,76	0,18			0,73																											
Temp. rise test S1	2,6	400,3	Y 50	0,77	0,34	0,18	662	0,64	52,8	11,70																									
Partial load points:																																			
~75% load	2,0	400,4	Y 50	0,71	0,27	0,14	690	0,54	53,3	8,00																									
~50% load	1,3	400,5	Y 50	0,68	0,21	0,10	713	0,44	47,9	5,00																									
~25% load	0,7	400,5	Y 50	0,66	0,15	0,05	732	0,32	33,8	2,43																									
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method																											
Stator winding :		57		1		1 Resistance																													
Frame :		35		2		2 Thermocouples																													
Bearing D-end :		33		2		3 Thermometer																													
Rotor :		47		3																															
Ambient Temperature :		21		2																															
Starting current (I _S / I _N) : 2,51 Locked rotor torque (T _L / T _N) : 1,82 Current unbalance at full load: 1,18 %																																			
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: 5.3.2020 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																																			