



V6.0.1 - 1.1.8437.20185

Type Test Report				Date of test: 21.5.2015							
Tests have been carried out for motor no.3GV1110796485001, which is identical in electrical design with motor type(s) stated in this report.				Type: M3GP 160MLA 4 Product Code: 3GGP162410_DK Protection type: Ex ec II C T3 Gc							
Rating:											
				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y 50	11	1473	11.8	0.84	S1	
Ins. Class F				400	D 50	11	1473	20.4	0.84	S1	
IP55				660	Y 50	11	1469	12.5	0.85	S1	
Amb. -20°C...+40°C				380	D 50	11	1469	21.3	0.85	S1	
				415	D 50	11	1476	19.9	0.83	S1	
				460	D 60	11	1777	17.9	0.83	S1	
Eff class IE3				50Hz: IE3 - 92.2(100%) - 93.0(75%) - 92.7(50%) 60Hz: IE3 - 92.7(100%)							
Winding resistance* Measured at 21 °C				Insulation resistance at 22 °C				Overload tests			
U ₁ - V ₁ 0.43890 Ω				2000 MΩ , tested at 1000 V				Current 150 % 120s			
U ₁ - W ₁ 0.44090 Ω								Torque 160 % 15s			
V ₁ - W ₁ 0.43860 Ω								Speed 120 % 120s			
				Withstand voltage test for winding				2400 V 60 s			
Performance tests*		Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]	
No load test			400.0 D	50	7.90	0.29		1500	0.04		
Short circuit test			80.0 D	50	19.70	0.81		0	0.29		
Temp. rise test S1		71.2	400.0 D	50	20.80	11.91	11.00	1474	0.83	92.34	
Partial load points:											
~75% load		54.3	400.0 D	50	16.60	9.06	8.42	1481	0.79	92.86	
~50% load		35.5	400.0 D	50	12.50	5.97	5.53	1488	0.69	92.61	
~25% load		18.3	400.0 D	50	9.50	3.19	2.86	1494	0.49	89.70	
Temperature rise at performance tests*				°C	K	Method		Measurement method			
Stator winding:				41	1			1 Resistance			
Frame:				26	2			2 Thermocouples			
Bearing D-end:				25	2			3 Thermometer			
Ambient Temperature :				22	2						
On behalf of manufacturer											
Tested by ABB Oy, IEC LV Motors, Strömbergin puistotie 5, 65320 Vaasa, Finland											
The results stated in this report relate only to the item tested.											
Manufactured and tested acc. to IEC/EN 60034-1:2022 and IEC/EN 60034-2-1:2014 Method 2-1-1B.											
Test laboratory is accredited acc. to SFS-EN ISO/IEC 17025:2017 by FINAS. Ref. T345.											
*) Accredited test method											



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