



V6.0.1 - 1.1.8668.21305

Type Test Report				Date of test: 5.4.2022 Date of Issue: 30.9.2023							
Tests have been carried out for motor no. 3G1F2206796050, which is identical in electrical design with motor type(s) stated in this report.				Type: M3JM / M3JP / M3KP 225SMA 4 Product Code: 3GJM / 3GJP / 3GKP 222210- _DK 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:											
		V	Hz	kW	r/min	A	cos φ	Duty			
3-Motor		690	Y	50	37	1482	37.9	0.86	S1		
Ins. Class F		400	D	50	37	1482	65.4	0.86	S1		
		660	Y	50	37	1480	39.4	0.87	S1		
		380	D	50	37	1480	68.4	0.87	S1		
		415	D	50	37	1484	63.6	0.85	S1		
		460	D	60	37	1784	57.3	0.85	S1		
Eff class IE3		50Hz: IE3 - 93.9(100%) - 94.6(75%) - 94.5(50%) 60Hz: IE3 - 94.5(100%)									
Winding resistance*		Measured at 22 °C		Calculated at 20 °C		Insulation resistance after heat run at 70 °C 2269 MΩ , tested at 1000 V		Overload tests Torque 160 % 15 s			
U ₁ - V ₁		0.08606 Ω		0.08556 Ω							
U ₁ - W ₁		0.08609 Ω		0.08559 Ω							
V ₁ - W ₁		0.08614 Ω		0.08564 Ω							
		Withstand voltage test for winding						2900 V 1 s			
Performance tests*		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			400.2 D	50	22.3	0.63			0.04		
Short circuit test			71.9 D	50	65.5	2.77			0.34		
Temp. rise test S1		239.1	400.2 D	50	66.3	39.2	37.1	1481	0.85	94.7	1.26
Partial load points:											
~75% load		181.0	400.3 D	50	52.0	29.6	28.1	1484	0.82	95.1	0.91
~50% load		118.7	400.4 D	50	38.1	19.5	18.5	1489	0.74	95.0	0.58
~25% load		59.9	400.6 D	50	27.6	10.1	9.38	1494	0.53	92.8	0.29
Temperature rise at performance tests*		°C		[K]		Method		Measurement method			
Stator winding :				58		1		1 Resistance			
Frame :				37		2		2 Thermocouples			
Bearing D-end :				35		2		3 Thermometer			
Ambient Temperature :		23				2					
Starting current (I _S / I _N) : 7.56 Locked rotor torque (T _L / T _N) : 2.69 Current unbalance at full load: 0.86 %											
On behalf of manufacturer						 Finnish Accreditation Service T345 (EN ISO/IEC 17025)					
Tested by ABB Oy, IEC LV Motors, Strömbergin puistotie 5, 65320 Vaasa, Finland						 Tommi Pantti Test Floor Manager					
The results stated in this report relate only to the item tested.											
Manufactured and tested acc. to IEC/EN 60034-1:2017 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											