





V6.0.1 - 1.18546.26834

Type Test Report				Date of test: 21.3.2023		Date of Issue: 13.9.2023				
Tests have been carried out for motor no. 3G1F2234871053, which is identical in electrical design with motor type(s) stated in this report.				Type: M3BN 5010MF 2		Product Code: 3GBN951360- DK				
Rating:				V	Hz	kW	r/min	A	cos φ	Duty
3-Motor TEFC Ins. Class F				460	D 60	522	3582	749	0.90	S1
Eff class IE4				IE4 - 96.6(100%) - 96.4(75%) - 95.7(50%)						
Winding resistance*		Measured at 20 °C	Calculated at 20 °C	Insulation resistance after heat run at 76 °C 6000 MΩ , tested at 1000 V						
U ₁ - V ₁		0.00268 Ω	0.00268 Ω							
U ₁ - W ₁		0.00269 Ω	0.00269 Ω							
V ₁ - W ₁		0.00268 Ω	0.00268 Ω							
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		460.0 D	60	166.4	9.55			0.07		
Short circuit test		66.3 D	60	745.9	21.9			0.26		
Temp. rise test S1	1390	459.1 D	60	748.4	539.9	521.3	3582	0.90	96.6	0.50
Partial load points:										
~75% load	1050	460.7 D	60	575.3	409.0	394.4	3587	0.89	96.4	0.36
~50% load	702.3	460.5 D	60	409.8	275.9	264.1	3591	0.84	95.7	0.24
~25% load	353.6	460.0 D	60	262.0	143.3	133.1	3596	0.69	92.9	0.12
Temperature rise at performance tests*				°C	[K]	Method		Measurement method		
Stator winding :				76	1	1		Resistance		
Frame :				37	2	2		2 Thermocouples		
Bearing D-end :				47	2	3		3 Thermometer		
Ambient Temperature :				21	2					
Current unbalance at full load: 2.62 %										
On behalf of manufacturer										
Tested by ABB Oy, IEC LV Motors, Strömbergin puistotie 5, 65320 Vaasa, Finland						Finnish Accreditation Service		Tommi Pantti		
The results stated in this report relate only to the item tested.						T345 (EN ISO/IEC 17025)		Test Floor Manager		
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										