





V6.0.1 - 1.18546.26834

Type Test Report				Date of test: 14.2.2023							
				Date of Issue: 13.9.2023							
Tests have been carried out for motor no. 3G1F2247885228, which is identical in electrical design with motor type(s) stated in this report.				Type: M3BN 5012LG 4							
				Product Code: 3GBN952570- DK							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor Ins. Class F				460	D 60	746	1789	1121	0.86	S1	
Eff class IE4				IE4 - 97.0(100%) - 97.1(75%) - 96.7(50%)							
Winding resistance*		Measured at 20 °C	Calculated at 20 °C	Insulation resistance after heat run at 82 °C 14000 MΩ , tested at 1000 V							
U ₁ - V ₁		0.00200 Ω	0.00200 Ω								
U ₁ - W ₁		0.00200 Ω	0.00200 Ω								
V ₁ - W ₁		0.00200 Ω	0.00200 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	360.5	9.42			0.03		
Short circuit test			72.2 D	60	1122	43.0			0.31		
Temp. rise test S1		3988	460.5 D	60	1120	770.1	747.4	1789	0.86	97.0	0.58
Partial load points:											
~75% load		2995	460.5 D	60	869.7	578.9	562.2	1792	0.83	97.1	0.42
~50% load		1999	459.9 D	60	639.0	388.5	375.7	1795	0.76	96.7	0.28
~25% load		1004	460.1 D	60	447.2	199.3	189.0	1797	0.56	94.8	0.14
Temperature rise at performance tests*				°C	[K]	Method		Measurement method			
Stator winding :					85	1		1 Resistance			
Frame :					36	2		2 Thermocouples			
Bearing D-end :					46	2		3 Thermometer			
Ambient Temperature :				22		2					
Current unbalance at full load: 2.67 %											
On behalf of manufacturer						 Finnish Accreditation Service T345 (EN ISO/IEC 17025)		 Tommi Pantti Test Floor Manager			
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											