



Test Report				Date of issue: 23.11.2015					
				Type: M3JM 355SMC 2					
				Product Code: 3GJM351230-_DG					
				Protection type: Ex d I Mb					
				Cert. No.: LCIE 10 ATEX 3089 X / IECEX LCI 04.0008X					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y 50	355	2984	350	0,88	S1	
Insul.cl.F		400	D 50	355	2984	603	0,88	S1	
IP66		415	D 50	355	2985	588	0,87	S1	
Eff class IE2		50Hz: IE2 - 95,7%(100%) - 95,7%(75%) - 94,9%(50%)							
Resistance			Insulation resistance at 70 °C				Overload		
Line			Ambient: 23 °C		12000 MΩ 1000 V		Torque 160 % 15s		
U ₁ - V ₁			0,00354 Ω						
U ₁ - W ₁			0,00355 Ω						
V ₁ - W ₁			0,00355 Ω						
High-voltage test winding					2400 V		60 s		
Test	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	149,3	5,91		3000	0,06	
Locked rotor test		62,5 D	50	603,6	17,6		0	0,27	
Thermal test (100% load)	1136	400,3 D	50	605,5	366,2	355,0	2985	0,87	96,9
Partial load points:									
~75% load	852,0	400,2 D	50	464,2	275,1	266,3	2989	0,86	96,8
~50% load	567,0	400,2 D	50	332,2	184,7	177,5	2993	0,80	96,1
~25% load	284,5	400,2 D	50	217,1	95,0	88,8	2997	0,63	93,4
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding :				70	1		1 Resistance		
Frame :				31	2		2 Thermocouples		
Bearing D-end :				55	2		3 Thermometer		
Ambient Temperature :		25			2				
						Starting current (I _s / I _N) : 7,43			
						Locked rotor torque (T _i / T _N) : 2,64			
These tests have been carried out on motor no. 3GF10023010, on date 2010-04-20, which is identical in electrical design with the above.									
Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.									
On behalf of customer									
On behalf of manufacturer									
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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