



Test Report				Date of issue: 19.11.2015					
				Type: M3JM 355SMA 6					
				Product Code: 3GJM353210_DL					
				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	160	993	171	0,82	S1	
Insul.cl.F		400	D 50	160	993	292	0,82	S1	
IP66		415	D 50	160	993	285	0,81	S1	
		440	D 60	160	1193	266	0,83	S1	
		460	D 60	160	1193	257	0,82	S1	
Eff class IE3		50Hz : IE3-95.6%(100%)-95.8%(75%)-95.6%(50%)							
		60Hz : IE3-95.8%(100%)							
Resistance				Insulation resistance at 43 °C			Overload		
Line		Ambient: 22 °C		7000 MΩ 1000 V			Torque 160% 15s		
U ₁ - V ₁		0,01296 Ω							
U ₁ - W ₁		0,01295 Ω							
V ₁ - W ₁		0,01297 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	100,4	2,15		1000	0,03	
Locked rotor test		79,9 D	50	290,1	10,86		0	0,27	
Thermal test (100% load)	1540	400,5 D	50	292,0	166,4	160,0	993	0,82	96,2
Partial load points:									
~75% load	1153	400,3 D	50	227,2	124,5	120,0	995	0,79	96,4
~50% load	770,7	400,3 D	50	169,4	83,2	80,0	997	0,71	96,2
~25% load	382,8	400,3 D	50	123,0	42,4	40,0	998	0,50	94,3
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				47	1			1 Resistance	
Frame :				23	2			2 Thermocouples	
Bearing D-end :				29	2			3 Thermometer	
Rotor :				62	3				
Ambient Temperature :		25			2				
<p>These tests have been carried out on motor no. 3GF13172078C, on date 2013-08-10 which is identical in design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p> <p>On behalf of customer</p> <p>On behalf of manufacturer</p> <p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p>									
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