



Test Report				Date of issue: 19.11.2015					
				Type: M3JM 280SMC 6					
				Product Code: 3GJM283230_DL					
				Protection type: Ex d I Mb					
				Cert. No.: LCIE 11 ATEX 3089 X /					
				IECEX LCI 04.0006X					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor		690	Y 50	55	992	57,5	0,86	S1	
Insul.cl.F		400	D 50	55	992	99,0	0,86	S1	
IP66		415	D 50	55	993	95,2	0,85	S1	
		440	D 60	55	1192	90,2	0,85	S1	
		460	D 60	55	1193	87,0	0,84	S1	
Eff class IE3		50Hz : IE3-94.1%(100%)-94.3%(75%)-93.8%(50%)							
		60Hz : IE3-94.5%(100%)							
Resistance				Insulation resistance at 33 °C			Overload		
Line		Ambient: 24 °C		25000 MΩ		1000 V		Torque 160% 15s	
U <sub>1</sub> - V <sub>1</sub>		0,05986 Ω							
U <sub>1</sub> - W <sub>1</sub>		0,05992 Ω							
V <sub>1</sub> - W <sub>1</sub>		0,05994 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	32,0	1,14		1000	0,05	
Locked rotor test		77,5 D	50	100,1	4,05		0	0,30	
Thermal test (100% load)	530,0	400,2 D	50	98,2	58,2	55,0	993	0,86	94,5
Partial load points:									
~75% load	397,3	400,0 D	50	76,1	43,6	41,3	994	0,83	94,7
~50% load	264,9	400,2 D	50	56,1	29,2	27,5	997	0,75	94,3
~25% load	132,6	400,1 D	50	39,7	15,0	13,8	999	0,55	91,6
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				46	1			1 Resistance	
Frame :				31	2			2 Thermocouples	
Bearing D-end :				33	2			3 Thermometer	
Rotor :				63	3				
Ambient Temperature :				25	2				
These tests have been carried out on motor no. 3GF13172202, on date 2013-08-25 which is identical in 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			
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