



Test Report				Date of issue: 19.11.2015						
				Type: M3JM 280SMC 4						
				Product Code: 3GJM282230-_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	90	1485	92	0,86	S1		
Insul.cl.F		400	D 50	90	1485	158	0,86	S1		
IP66		415	D 50	90	1486	155	0,85	S1		
		440	D 60	90	1785	144	0,86	S1		
		460	D 60	90	1786	139	0,85	S1		
Eff class IE3		50Hz: IE3-95.2%(100%)-95.5%(75%)-95.2%(50%) 60Hz: IE3-95.4%(100%)								
Resistance				Insulation resistance at 56 °C			Overload			
Line		Ambient: 25 °C		8000 MΩ 1000 V			Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub>		0,02822 Ω								
U <sub>1</sub> - W <sub>1</sub>		0,02822 Ω								
V <sub>1</sub> - W <sub>1</sub>		0,02823 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		400,1 D	50	49,5	1,52		1500	0,04		
Locked rotor test		69,2 D	50	158,0	6,28		0	0,33		
Thermal test (100% load)	578,8	400,2 D	50	158,1	94,5	90,0	1485	0,86	95,3	
Partial load points:										
~75% load	433,8	400,3 D	50	122,2	70,6	67,5	1489	0,84	95,6	
~50% load	289,8	400,1 D	50	89,9	47,2	45,0	1493	0,76	95,3	
~25% load	143,5	400,2 D	50	63,8	24,2	22,5	1497	0,55	93,0	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				51	1			1 Resistance		
Frame :				31	2			2 Thermocouples		
Bearing D-end :				36	2			3 Thermometer		
Rotor :				73	3					
Ambient Temperature :				25	2					
<p>These tests have been carried out on motor no. 3GF13169083, on date 2013-08-19 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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