



Test Report				Date of issue: 19.11.2015					
				Type: M3JM 315SMD 4					
				Product Code: 3GJM312240_DL					
				Protection type: Ex d I Mb					
				Cert. No.: LCIE 11 ATEX 3090 X /					
				IECEX LCI 04.0007X					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor		690	Y 50	160	1488	164	0,85	S1	
Insul.cl.F		400	D 50	160	1488	282	0,85	S1	
IP66		415	D 50	160	1489	277	0,84	S1	
		440	D 60	160	1789	255	0,86	S1	
		460	D 60	160	1790	246	0,85	S1	
Eff class IE3		50Hz : IE3-95.8%(100%)-96.0%(75%)-95.8%(50%)							
		60Hz : IE2-95.0%(100%)							
Resistance				Insulation resistance at 53 °C			Overload		
Line		Ambient: 22 °C		21000 MΩ		1000 V		Torque 160% 15s	
U <sub>1</sub> - V <sub>1</sub>		0,01372 Ω							
U <sub>1</sub> - W <sub>1</sub>		0,01373 Ω							
V <sub>1</sub> - W <sub>1</sub>		0,01372 Ω							
				High-voltage test winding		1900 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		399,9 D	50	94,1	2,36		1500	0,04	
Locked rotor test		67,1 D	50	282,8	10,2		0	0,31	
Thermal test (100% load)	1027	400,0 D	50	282,2	166,9	160,0	1489	0,85	95,9
Partial load points:									
~75% load	768,0	400,0 D	50	219,7	124,9	120,0	1492	0,82	96,1
~50% load	511,0	400,2 D	50	163,0	83,5	80,0	1495	0,74	95,9
~25% load	255,0	400,2 D	50	117,4	42,7	40,0	1498	0,52	93,8
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				60	60	1		1 Resistance	
Frame :				35	35	2		2 Thermocouples	
Bearing N-end :				42	42	2		3 Thermometer	
Rotor :				86	86	3			
Ambient Temperature :				25	25	2			
These tests have been carried out on motor no. 3GF13170390, on date 2013-09-13 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 Telefax +358 10 22 47372			

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