



Test Report				Date of issue: 19.11.2015						
				Type: M3JM 315SMC 4						
				Product Code: 3GJM312230-_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	132	1488	134	0,86	S1		
Insul.cl.F		400	D 50	132	1488	231	0,86	S1		
IP66		415	D 50	132	1489	225	0,85	S1		
		440	D 60	132	1789	211	0,86	S1		
		460	D 60	132	1790	204	0,85	S1		
Eff class IE3		50Hz : IE3-95.6%(100%)-95.9%(75%)-95.5%(50%) 60Hz : IE2-95.0%(100%)								
Resistance				Insulation resistance at 45 °C			Overload			
Line		Ambient: 23 °C		18000 MΩ		1000 V		Torque 160% 15s		
U ₁ - V ₁		0,01724 Ω								
U ₁ - W ₁		0,01723 Ω								
V ₁ - W ₁		0,01723 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	76,7	2,12		1500	0,04		
Locked rotor test		67,8 D	50	231,2	8,17		0	0,30		
Thermal test (100% load)	847,2	400,3 D	50	232,4	138,0	132,0	1489	0,86	95,6	
Partial load points:										
~75% load	632,0	400,4 D	50	180,2	103,3	99,0	1492	0,83	95,9	
~50% load	424,2	400,3 D	50	133,3	69,1	66,0	1495	0,75	95,5	
~25% load	210,5	400,4 D	50	95,2	35,4	33,0	1498	0,54	93,3	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				54	54	1		1 Resistance		
Frame :				29	29	2		2 Thermocouples		
Bearing D-end :				36	36	2		3 Thermometer		
Rotor :				75	75	3				
Ambient Temperature :				25	25	2				
<p>These tests have been carried out on motor no. 3GF13170389B, on date 2013-09-24 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> <p>Telephone +358 10 2211 Telefax +358 10 22 47372</p>										

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