



Test Report				Date of issue: 19.11.2015							
				Type: M3JM 315LKA 6 Product Code: 3GJM313810-_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	994	173	0,81	S1	
Insul.cl.F				400	D 50	160	994	298	0,81	S1	
IP66				415	D 50	160	995	295	0,79	S1	
				440	D 60	160	1194	265	0,83	S1	
				460	D 60	160	1195	259	0,81	S1	
Eff class IE3				50Hz : IE3-95.6%(100%)-95.8%(75%)-95.4%(50%) 60Hz : IE3-95.8%(100%)							
Resistance				Insulation resistance at 48 °C				Overload			
Line				Ambient: 24 °C				15000 MΩ 1000 V			
U ₁ - V ₁				0,01490 Ω				Torque 160% 15s			
U ₁ - W ₁				0,01491 Ω							
V ₁ - W ₁				0,01490 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]	η[r/min]	cos φ	η [%]		
No load test		400,0 D	50	119,5	2,42		1000	0,03			
Locked rotor test		78,4 D	50	293,6	10,4		0	0,26			
Thermal test (100% load)	1537	400,1 D	50	298,5	167,2	160,0	994	0,81	95,7		
Partial load points:											
~75% load	1154	400,1 D	50	237,6	125,1	120,0	996	0,76	95,9		
~50% load	761,0	400,2 D	50	183,6	83,7	80,0	997	0,66	95,6		
~25% load	383,7	400,2 D	50	142,1	42,8	40,0	999	0,44	93,4		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				51	1			1 Resistance			
Frame :				29	2			2 Thermocouples			
Bearing D-end :				36	2			3 Thermometer			
Rotor :				70	3						
Ambient Temperature :				25	2						
<p>These tests have been carried out on motor no. 3GF13172075B, on date 2013-08-26 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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