



Test Report				Date of issue: 19.11.2015					
				Type: M3JM 315SMD 2					
				Product Code: 3GJM311240-_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	2983	159	0,87	S1	
Insul.cl.F		400	D 50	160	2983	275	0,87	S1	
IP66		415	D 50	160	2984	268	0,86	S1	
		440	D 60	160	3584	250	0,88	S1	
		460	D 60	160	3585	242	0,87	S1	
Eff class IE3		50Hz : IE3-95.6%(100%)-95.6%(75%)-94.9%(50%)							
		60Hz : IE3-95.4%(100%)							
Resistance				Insulation resistance at 77 °C			Overload		
Line		Ambient: 21 °C		5800 MΩ		1000 V		Torque 160% 15s	
U ₁ - V ₁		0,01181 Ω							
U ₁ - W ₁		0,01178 Ω							
V ₁ - W ₁		0,01179 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		399,9 D	50	71,3	3,16		3000	0,06	
Locked rotor test		64,3 D	50	273,2	8,38		0	0,28	
Thermal test (100% load)	512,2	400,8 D	50	276,7	167,2	160,0	2983	0,87	95,7
Partial load points:									
~75% load	385,2	400,9 D	50	212,6	125,4	120,0	2988	0,85	95,7
~50% load	254,8	401,1 D	50	153,5	84,2	80,0	2993	0,79	95,1
~25% load	129,8	401,2 D	50	103,1	43,4	40,0	2997	0,61	92,1
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
		Stator winding :		69	1			1 Resistance	
		Frame :		39	2			2 Thermocouples	
		Bearing N-end :		6	2			3 Thermometer	
		Ambient Temperature :		25	2				
These tests have been carried out on motor no. 3GF13167851, on date 2013-07-11 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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