



Test Report				Date of issue: 19.11.2015					
				Type: M3JM 280SMB 4					
				Product Code: 3GJM282220-_DL					
				Type of protection: 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	75	1485	77,7	0,86	S1		
Insul.cl.F	400	D 50	75	1485	133	0,86	S1		
IP66	415	D 50	75	1486	129	0,85	S1		
	440	D 60	75	1784	121	0,85	S1		
	460	D 60	75	1785	117	0,84	S1		
Eff class IE3		50Hz: IE3-95.0%(100%)-95.2%(75%)-94.8%(50%)							
		60Hz: IE2-94.5%(100%)							
Resistance				Insulation resistance at 55 °C		Overload			
Line Ambient: 23 °C				37000 MΩ 1000 V		Torque 160% 15s			
U ₁ - V ₁ 0,03721 Ω									
U ₁ - W ₁ 0,03726 Ω									
V ₁ - W ₁ 0,03724 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		400,0 D	50	44,1	1,42		1500	0,05	
Locked rotor test		71,2 D	50	133,0	5,37		0	0,33	
Thermal test (100% load)	482,6	400,1 D	50	133,3	79,0	75,0	1485	0,86	95,0
Partial load points:									
~75% load	363,5	400,1 D	50	103,5	59,1	56,3	1489	0,82	95,2
~50% load	241,8	400,1 D	50	76,6	39,6	37,5	1493	0,75	94,8
~25% load	122,7	400,1 D	50	55,0	20,4	18,8	1497	0,54	92,1
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				49	1	1 Resistance		1 Resistance	
Frame :				24	2	2 Thermocouples		2 Thermocouples	
Bearing D-end :				32	2	3 Thermometer		3 Thermometer	
Rotor :				64	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3GF13167850, on date 2013-07-25 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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