



Test Report				Date of issue: 19.11.2015							
				Type: M3JM 315SMB 2 Product Code: 3GJM311220_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	110	2982	111	0,87	S1	
Insul.cl.F				400	D 50	110	2982	192	0,87	S1	
IP66				415	D 50	110	2983	187	0,86	S1	
				440	D 60	110	3583	173	0,88	S1	
				460	D 60	110	3584	168	0,87	S1	
Eff class IE3				50Hz : IE3-95.2%(100%)-94.9%(75%)-93.9%(50%) 60Hz : IE3-95.0%(100%)							
Resistance				Insulation resistance at 50 °C				Overload			
Line				Ambient: 21 °C				15000 MΩ 1000 V			
U ₁ - V ₁				0,01881 Ω				Torque 160% 15s			
U ₁ - W ₁				0,01877 Ω							
V ₁ - W ₁				0,01879 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	52,3	2,75		3000	0,08			
Locked rotor test		68,3 D	50	191,1	5,74		0	0,25			
Thermal test (100% load)	352,3	400,2 D	50	192,4	115,5	110,0	2982	0,87	95,3		
Partial load points:											
~75% load	265,0	400,2 D	50	148,3	86,8	82,5	2987	0,84	95,1		
~50% load	177,0	400,1 D	50	107,8	58,4	55,0	2992	0,78	94,1		
~25% load	87,8	400,2 D	50	74,6	30,4	27,5	2996	0,59	90,4		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				57	1			1 Resistance			
Frame :				32	2			2 Thermocouples			
Bearing D-end :				35	2			3 Thermometer			
Rotor :				69	3						
Ambient Temperature :				25	2						
These tests have been carried out on motor no. 3GF13166410, on date 2013-07-19 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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