



Test Report				Date of issue: 23.11.2015					
				Type: M3JM 280SMC 4					
				Product Code: 3GJM282230-_DG					
				Protection type: Ex d I Mb					
				Cert. No.: LCIE 11 ATEX 3089X / IECEX LCI 04.0006X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3~Motor	690	Y 50	110	1485	112	0,86	S1		
Insul.cl.F	400	D 50	110	1485	193	0,86	S1		
IP66	415	D 50	110	1486	188	0,85	S1		
Eff class IE2									
50Hz: IE2 - 95,1%(100%) - 95,4%(75%) - 95,1%(50%)									
Resistance				Insulation resistance at 58 °C			Overload		
Line		Ambient: 22 °C		1500 MΩ		1000 V		Torque 160 % 15s	
U <sub>1</sub> - V <sub>1</sub>		0,02425 Ω							
U <sub>1</sub> - W <sub>1</sub>		0,02426 Ω							
V <sub>1</sub> - W <sub>1</sub>		0,02426 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]	η[r/min]	cos φ	η [%]
No load test		400,0 D	50	61,2	1,75		1500	0,04	
Locked rotor test		69,5 D	50	195,1	7,89		0	0,34	
Thermal test (100% load)	707,4	400,1 D	50	193,3	115,2	110,0	1485	0,86	95,5
Partial load points:									
~75% load	531,5	400,1 D	50	149,8	86,1	82,5	1489	0,83	95,8
~50% load	355,5	400,1 D	50	110,4	57,6	55,0	1493	0,75	95,5
~25% load	176,0	400,0 D	50	78,1	29,5	27,5	1497	0,55	93,3
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				68	1			1 Resistance	
Frame :				35	2			2 Thermocouples	
Bearing D-end :				46	2			3 Thermometer	
Ambient Temperature :				25	2				
<p>Starting current (I<sub>S</sub> / I<sub>N</sub>) : 7,48</p> <p>Locked rotor torque (T<sub>1</sub> / T<sub>N</sub>) : 2,81</p> <p>These tests have been carried out on motor no. 3GF09001314, on date 2009-11-04, which is identical in electrical 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>									
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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