



Test Report				Date of issue: 23.11.2015					
				Type: M3JM 280SMB 2					
				Product Code: 3GJM281220-_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	90	2976	89,5	0,89	S1	
Insul.cl.F		400	D 50	90	2976	154	0,89	S1	
IP66		415	D 50	90	2978	151	0,88	S1	
Eff class IE2		50Hz : IE2 - 94.6%(100%) - 94,7%(75%) - 93.8%(50%)							
Resistance				Insulation resistance at 58 °C			Overload		
Line		Ambient: 23 °C		2000 MΩ		1000 V		Torque 160% 15s	
U ₁ - V ₁		0,02720 Ω							
U ₁ - W ₁		0,02720 Ω							
V ₁ - W ₁		0,02718 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		400,1 D	50	36,5	2,33		3000	0,09	
Locked rotor test		67,3 D	50	152,2	5,20		0	0,29	
Thermal test (100% load)	288,8	400,0 D	50	154,6	95,3	90,0	2975	0,89	94,5
Partial load points:									
~75% load	216,2	400,0 D	50	117,8	71,4	67,5	2984	0,88	94,6
~50% load	143,9	400,1 D	50	83,8	48,0	45,0	2990	0,83	93,7
~25% load	71,6	400,0 D	50	54,2	25,0	22,5	2997	0,67	90,0
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				62	1			1 Resistance	
Frame :				29	2			2 Thermocouples	
Bearing D-end :				40	2			3 Thermometer	
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3GF10025157, on date 2010-06-16, 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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