



Test Report				Date of issue: 19.11.2015							
				Type: M3JM 315SMC 8 Product Code: 3GJM314230-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	90	739	98,8	0,81	S1	
Insul.cl.F				400	D 50	90	739	171	0,81	S1	
IP66				415	D 50	90	740	166	0,80	S1	
				440	D 60	90	889	153	0,82	S1	
				460	D 60	90	890	149	0,81	S1	
Eff class IE3				50Hz: IE3-93.4%(100%) - 93.8%(75%) - 93.4%(50%) 60Hz: IE3-94.1%(100%)							
Resistance				Insulation resistance at 17 °C				Overload			
Line				Ambient: 17,0 °C				R > 2000 Mohm 1000 V			
U ₁ - V ₁				0,03504 Ω				Torque 160 % 15s			
U ₁ - W ₁				0,03505 Ω							
V ₁ - W ₁				0,03506 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		400,6 D	50	67,3	1,76		750	0,04			
Locked rotor test		89,6 D	50	168,6	6,66		0	0,25			
Thermal test (100% load)	1162	400 D	50	170,9	95,6	90,0	739	0,81	94,1		
Partial load points:											
~75% load	868,6	400 D	50	134,9	71,5	67,5	742	0,77	94,4		
~50% load	577,6	400 D	50	103,1	47,8	45,0	744	0,67	94,1		
~25% load	287,6	400 D	50	78,5	24,6	22,5	747	0,45	91,6		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				71	1			1 Resistance			
Frame :				37	2			2 Thermocouples			
Bearing D-end :				46	2			3 Thermometer			
Ambient Temperature :				25	2						
<p>These tests have been carried out on motor no. 75033776004001A, on date 2011-12-05 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>											
On behalf of customer											
On behalf of manufacturer											
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