



Test Report				Date of issue: 19.11.2015							
				Type: M3JM 250SMA 2 Product Code: 3GJM251210-_DK Protection type: Ex d I Mb Cert. No.: LCIE 10 ATEX 3063X IECEX LCI 04.0012X							
Rating:											
		V	Hz	kW	r/min	A	cos φ	Duty			
3-Motor		690	Y 50	55,0	2975	54,3	0,89	S1			
Insul.cl.F		400	D 50	55,0	2975	93,6	0,89	S1			
IP66		660	Y 50	55,0	2973	56,4	0,90	S1			
		380	D 50	55,0	2973	97,9	0,90	S1			
		415	D 50	55,0	2977	91,3	0,88	S1			
Eff class IE3		460	D 60	55,0	3578	81,5	0,89	S1			
		50Hz : IE3-95,2(100%)-95,4(75%)-95,0(50%) 60Hz : IE3-94,4(100%)									
Resistance				Insulation resistance at 24 °C			Overload				
Line		Ambient: 24,0 °C		R > 2000 Mohm 1000 V			Torque 160 % 15s				
U ₁ - V ₁		0,04292 Ω									
U ₁ - W ₁		0,04191 Ω									
V ₁ - W ₁		0,04293 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		400,3 D	50	24,8	0,92		3000	0,05			
Locked rotor test		70,4 D	50	106,7	4,67		0	0,36			
Thermal test (100% load	176,5	400 D	50	92,9	57,5	55,0	2976	0,89	95,7		
Partial load points:											
~75% load	134,6	400 D	50	72,8	43,8	42,0	2982	0,87	95,9		
~50% load	90,8	400 D	50	53,2	29,7	28,4	2989	0,81	95,5		
~25% load	46,2	400 D	50	35,4	15,6	14,5	2996	0,63	93,3		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				54	1			1 Resistance			
Frame :				29	2			2 Thermocouples			
Bearing D-end :				31	2			3 Thermometer			
Ambient Temperature :		25			2						
<p>These tests have been carried out on motor no. 3GV1110782971002, on date 2011-09-08 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> <p>On behalf of customer</p> <p>On behalf of manufacturer</p>											
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