



Test Report				Date of issue: 19.11.2015					
				Type: M3JM 225SMA 4 Product Code: 3GJM222210-_DK Protection type: Ex d I Mb Cert. No.: LCIE 10 ATEX 3057X/ IECEX LCI 04.0005X					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y 50	37,0	1482	37,9	0,86	S1	
Insul.cl.F		400	D 50	37,0	1482	65,4	0,86	S1	
IP66		660	Y 50	37,0	1480	39,4	0,87	S1	
		380	D 50	37,0	1480	68,4	0,87	S1	
		415	D 50	37,0	1484	63,6	0,85	S1	
		460	D 60	37,0	1784	57,3	0,85	S1	
Eff class IE3		50Hz : IE3-94,9(100%)-95,5(75%)-95,4(50%) 60Hz : IE3-95,3(100%)							
Resistance				Insulation resistance at 24 °C				Overload	
Line		Ambient: 24 °C		R > 2000 Mohm 1000 V				Torque 160 % 15s	
U ₁ - V ₁		0,08386 Ω							
U ₁ - W ₁		0,08397 Ω							
V ₁ - W ₁		0,08390 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		401,0 D	50	22,9	0,59		1500	0,04	
Locked rotor test		71,1 D	50	65,2	3,40		0	0,34	
Thermal test (100% load)	238,4	400,0 D	50	65,9	38,9	37,0	1482	0,85	95,1
Partial load points:									
~75% load	180,9	400,0 D	50	52,0	29,5	28,2	1487	0,82	95,5
~50% load	123,1	400,0 D	50	39,4	20,2	19,2	1492	0,74	95,4
~25% load	61,1	400,0 D	50	28,3	10,3	9,57	1496	0,52	93,4
Temperature rise at rated load.			[°C]	[K]	Method		Measurement method		
Stator winding :				58	1		1 Resistance		
Frame :				44	2		2 Thermocouples		
Bearing D-end :				40	2		3 Thermometer		
Ambient Temperature :			24		2				
These tests have been carried out on motor no. 3GV1110777064001, on date 2011-09-21 which is identical in electrical 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 AB, LV Motors, 721 70 Västerås, Sweden						Telephone	+46 (0)21 32 90 00		
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