



Test Report				Date of issue: 19.11.2015					
				Type: M3JM 280SMB 2 B3					
				Product Code: 3GJM281220-_DK					
				Protection type: Ex d I Mb					
				Cert. No.: LCIE 11 ATEX 3089 X / IECEX LCI 04.0006X					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor		690	Y 50	75	2980	74,8	0,87	S1	
Insul.cl.F		400	D 50	75	2980	129	0,87	S1	
IP66		660	Y 50	75	2977	77,5	0,88	S1	
		380	D 50	75	2977	135	0,88	S1	
		415	D 50	75	2981	126	0,86	S1	
		460	D 60	75	3582	113	0,87	S1	
Eff class IE3		50Hz : IE3 - 96.3%(100%)-96.3%(75%)-95.9%(50%) 60Hz : IE3 - 94.9%(100%)							
Resistance				Insulation resistance at 51 °C			Overload		
Line		Ambient: 22,5 °C		13000 MΩ		1000 V		Torque 160 % 15s	
U ₁ - V ₁		0,02574 Ω							
U ₁ - W ₁		0,02577 Ω							
V ₁ - W ₁		0,02575 Ω							
				High-voltage test winding 1900 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		399,9 D	50	40,5	1,23		3000	0,04	
Locked rotor test		58,3 D	50	130,0	3,67		0	0,28	
Thermal test (100% load)	240,4	400,5 D	50	129,1	77,8	75,0	2980	0,87	96,4
Partial load points:									
~75% load	178,3	400,6 D	50	100,4	58,3	56,3	2986	0,84	96,4
~50% load	117,8	400,7 D	50	74,1	39,1	37,5	2991	0,76	95,9
~25% load	57,4	400,8 D	50	52,5	20,1	18,8	2996	0,55	93,4
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding :				46	1		1 Resistance		
Frame :				20	2		2 Thermocouples		
Bearing D-end :				26	2		3 Thermometer		
Ambient Temperature :		25			2				
These tests have been carried out on motor no. 3GP11022979, on date 2011-10-26 which is identical in 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 Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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