



Test Report				Date of issue: 19.11.2015							
				Type: M3JM 280SMC 2							
				Product Code: 3GJM281230_DL							
				Type of protection: 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	90	2975	90	0,88	S1			
Insul.cl.F		400	D 50	90	2975	158	0,88	S1			
IP66		415	D 50	90	2977	151	0,87	S1			
		440	D 60	90	3576	143	0,87	S1			
		460	D 60	90	3578	139	0,86	S1			
Eff class IE3		50Hz: IE3-95.0%(100%)-95.0%(75%)-94.2%(50%) 60Hz: IE3-95.0%(100%)									
Resistance				Insulation resistance at 68 °C			Overload				
Line		Ambient: 23 °C		26970 MΩ 1000 V			Torque 160% 15s				
U ₁ - V ₁		0,02179 Ω									
U ₁ - W ₁		0,02175 Ω									
V ₁ - W ₁		0,02180 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		400,1 D	50	40,5	2,04		3000	0,07			
Locked rotor test		67,5 D	50	154,0	5,28		0	0,29			
Thermal test (100% load)	288,8	400,1 D	50	155,7	94,7	90,0	2975	0,88	95,1		
Partial load points:											
~75% load	216,7	400,1 D	50	119,1	71,0	67,5	2982	0,86	95,1		
~50% load	144,0	400,1 D	50	85,5	47,7	45,0	2989	0,81	94,4		
~25% load	72,5	400,1 D	50	56,8	24,7	22,5	2995	0,63	91,0		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				57	1	1		1 Resistance			
Frame :				31	2	2		2 Thermocouples			
Bearing D-end :				33	2	3		3 Thermometer			
Rotor :				70	3						
Ambient Temperature :				25	2						
<p>These tests have been carried out on motor no. 3GF13166412, on date 2013-07-21 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> <p>On behalf of customer</p> <p>On behalf of manufacturer</p> <p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p>											
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