



Test Report				Date of issue: 19.11.2015						
				Type: M3JM 280SMC 2 B3						
				Product Code: 3GJM281230-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	90	2981	88,7	0,88	S1		
Insul.cl.F		400	D 50	90	2981	153	0,88	S1		
IP66		660	Y 50	90	2978	91,8	0,89	S1		
		380	D 50	90	2978	159	0,89	S1		
		415	D 50	90	2982	149	0,87	S1		
		460	D 60	90	3582	133	0,88	S1		
Eff class IE3		50Hz : IE3 - 96.4%(100%)-96.4%(75%)-96.0%(50%)								
		60Hz : IE3 - 95.3%(100%)								
Resistance				Insulation resistance at 46 °C			Overload			
Line		Ambient: 24 °C		12000 MΩ		1000 V		Torque 160 % 15s		
U ₁ - V ₁		0,01956 Ω								
U ₁ - W ₁		0,01956 Ω								
V ₁ - W ₁		0,01956 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		400,0 D	50	45,3	1,47		3000	0,05		
Locked rotor test		55,3 D	50	154,1	4,37		0	0,30		
Thermal test (100% load)	288,3	400,2 D	50	153,1	93,3	90,0	2981	0,88	96,5	
Partial load points:										
~75% load	216,0	400,2 D	50	118,7	70,0	67,5	2986	0,85	96,4	
~50% load	144,0	400,3 D	50	86,9	46,9	45,0	2991	0,78	95,9	
~25% load	71,4	400,3 D	50	60,3	24,1	22,5	2996	0,58	93,4	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				44	1			1 Resistance		
Frame :				20	2			2 Thermometer		
Bearing D-end :				28	2			3 Thermocouples		
Ambient Temperature :				25	2					
These tests have been carried out on motor no. 3GP11022880, on date 2011-08-22 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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