



Test Report				Date of issue: 19.11.2015							
				Type:	M3JM 280SMC 4						
				Product Code:	3GJM282230-_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	1487	93,2	0,85	S1	
Insul.cl.F				400	D 50	90	1487	161	0,85	S1	
IP66				660	Y 50	90	1485	95,4	0,86	S1	
				380	D 50	90	1485	166	0,86	S1	
				415	D 50	90	1488	157	0,84	S1	
				460	D 60	90	1788	140	0,84	S1	
Eff class IE3				50Hz : IE3 - 96.0%(100%)-96.2%(75%)-96.0%(50%) 60Hz : IE3 - 96.1%(100%)							
Resistance				Insulation resistance at 52 °C				Overload			
Line				Ambient: 25 °C				17000 MΩ 1000 V			
U ₁ - V ₁				0,02718 Ω				Torque 160 % 15s			
U ₁ - W ₁				0,02719 Ω							
V ₁ - W ₁				0,02719 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		400,0 D	50	62,1	1,25		1500	0,03			
Locked rotor test		59,1 D	50	159,1	5,47		0	0,34			
Thermal test (100% load)	578,0	400,1 D	50	160,8	93,6	90,0	1487	0,84	96,2		
Partial load points:											
~75% load	433,5	400,8 D	50	127,0	70,1	67,5	1490	0,80	96,4		
~50% load	288,8	400,8 D	50	97,1	46,8	45,0	1494	0,70	96,1		
~25% load	144,5	400,9 D	50	73,7	23,9	22,5	1497	0,47	94,1		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				56	1			1 Resistance			
Frame :				33	2			2 Thermometer			
Bearing D-end :				43	2			3 Thermocouples			
Rotor:				78	3						
Ambient Temperature :				25	2						
<p>These tests have been carried out on motor no. 3GF10028237, on date 2010-08-06 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>											
On behalf of customer											
On behalf of manufacturer											
<p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p> <p style="text-align: right;">Telephone +358 10 2211 Telefax +358 10 22 47372</p>											

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