



Test Report				Date of issue: 19.11.2015						
				Type: M3JM 280SMB 4						
				Product Code: 3GJM282220_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	1486	77,9	0,85	S1		
Insul.cl.F		400	D 50	75	1486	134	0,85	S1		
IP66		660	Y 50	75	1484	79,7	0,86	S1		
		380	D 50	75	1484	138	0,86	S1		
		415	D 50	75	1487	131	0,83	S1		
		460	D 60	75	1782	160	0,86	S1		
Eff class IE3		50Hz : IE3 - 95.7%(100%)-96.0%(75%)-95.7%(50%) 60Hz : IE3 - 95.9%(100%)								
Resistance				Insulation resistance at 42 °C						
Line		Ambient: 22 °C		23000 MΩ			1000 V			
U <sub>1</sub> - V <sub>1</sub>		0,03765 Ω								
U <sub>1</sub> - W <sub>1</sub>		0,03763 Ω								
V <sub>1</sub> - W <sub>1</sub>		0,03764 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	51,3	1,02		1500	0,03		
Locked rotor test		64,0 D	50	133,0	4,91		0	0,33		
Thermal test (100% load)	482,0	400,1 D	50	134,1	78,2	75,0	1487	0,84	95,9	
Partial load points:										
~75% load	361,5	400,2 D	50	105,7	58,5	56,3	1491	0,80	96,2	
~50% load	239,7	400,0 D	50	80,2	39,0	37,5	1495	0,70	96,1	
~25% load	119,5	400,0 D	50	60,4	19,9	18,8	1498	0,48	94,2	
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method		
Stator winding :				51	1			1 Resistance		
Frame :				27	2			2 Thermocouples		
Bearing D-end :				33	2			3 Thermometer		
Ambient Temperature :				25	2					
<p>These tests have been carried out on motor no. 3GF11094702, on date 2011-12-03 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> <p>Telephone +358 10 2211 Telefax +358 10 22 47372</p>										

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