



Test Report				Date of issue: 19.11.2015							
				Type: M3JM 180MLB 4							
				Product Code: 3GJM182420-_DL							
				Protection type: Ex d I Mb							
				Cert. No.: LCIE 11 ATEX 3088X / IECEx LCI 09.0009X							
Rating:											
		V	Hz	kW	r/min	A	cos φ	Duty			
3-Motor		690	Y 50	22,0	1481	24,1	0,82	S1			
Insul.cl.F		400	D 50	22,0	1481	41,4	0,82	S1			
IP66		415	D 50	22,0	1483	40,5	0,81	S1			
Eff class IE3		440	D 60	22,0	1782	37,0	0,83	S1			
		460	D 60	22,0	1784	35,8	0,82	S1			
50Hz: IE3-93,0%(100%)-93,5%(75%)-93,3%(50%)											
60Hz: IE3-93,6%(100%)											
Resistance				Insulation resistance at 96 °C			2000 MΩ		1000 V		Overload Torque 160% 15s
Line				Ambient: 25 °C							
U <sub>1</sub> - V <sub>1</sub>				0,18970 Ω							
U <sub>1</sub> - W <sub>1</sub>				0,19000 Ω							
V <sub>1</sub> - W <sub>1</sub>				0,19040 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		400,7 D	50	15,5	0,47		1498	0,04			
Locked rotor test		81,4 D	50	41,2	1,94		0	0,33			
Thermal test (100% load)	141,7	400,0 D	50	41,4	23,6	22,0	1481	0,82	93,3		
Partial load points:											
~75% load	106,6	399,3 D	50	32,6	17,6	16,5	1486	0,78	93,8		
~50% load	70,7	400,6 D	50	24,9	11,8	11,0	1491	0,68	93,6		
~25% load	35,3	400,6 D	50	18,9	6,1	5,5	1495	0,46	90,9		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				59	1			1 Resistance			
Frame :				30	2			2 Thermocouples			
Bearing D-end :				36	2			3 Thermometer			
Rotor :				74	3						
Ambient Temperature :				25	2						
<p>These tests have been carried out on motor no. 3G1P141700179, on date 2014-06-12 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 Asea Brown Boveri, S.A., Fabrica Motores, 08192 Sant Quirze del Valles, Spain</p> <p>Telephone +34 93 728 85 00 Telefax +34 93 728 85 33</p>											

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