



Test Report				Date of issue: 22.5.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3JP 160MLB 4					
				Product Code: 3GJP162420-ADL					
				Protection type: Ex d IIB T4 Gb					
				Cert. No.: LCIE 11 ATEX 3087 X/ IECEx LCI 09.0008X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	15,0	1477	16,5	0,82	S1		
Insul.cl.F	400	D 50	15,0	1477	28,5	0,82	S1		
IP55	415	D 50	15,0	1478	27,3	0,81	S1		
	440	D 60	15,0	1778	25,7	0,83	S1		
Eff class IE3	460	D 60	15,0	1780	24,7	0,82	S1		
50Hz: IE3-92,1%(100%)-92,4%(75%)-91,6%(50%) 60Hz: IE3-93,0%(100%)									
Resistance				Insulation resistance at 85 °C		Overload			
Line	Ambient: 25 °C			2000 MΩ 1000 V		Torque 160% 15s Speed 120% 120s Current 150% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,27690 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,27660 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,27650 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]	η[r/min]	cos φ	η [%]
No load test		400,4 D	50	11,7	0,47		1498	0,06	
Locked rotor test		76,2 D	50	28,4	1,22		0	0,33	
Thermal test (100% load)	96,7	400,5 D	50	28,5	16,2	15,0	1477	0,82	92,5
Partial load points:									
~75% load	72,3	400,2 D	50	22,7	12,1	11,3	1483	0,77	92,7
~50% load	48,4	400,4 D	50	17,7	8,2	7,5	1489	0,67	92,0
~25% load	24,3	400,5 D	50	13,7	4,3	3,8	1495	0,45	87,8
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				50	1		1 Resistance		
Frame :				31	2		2 Thermocouples		
Bearing D-end :				35	2		3 Thermometer		
Rotor :				68	3				
Ambient Temperature :				25	2				
These tests have been carried out on motor no. 3G1P141700174, on date 2014-07-01 which is identical in electrical 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				Date of test					
Tested by Asea Brown Boveri, S.A., Fabrica Motores, 08192 Sant Quirze del Valles, Spain						Telephone	+34 93 728 85 00		
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