



Test Report				Date of issue: 1.6.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3KP 160MLA 4					
				Product Code: 3GKP162410-ADL					
				Protection type: Ex de IIB T4 Gb					
				Cert. No.: LCIE 11 ATEX 3087X /					
				IECEX LCI 09.0008X					
Rating:									
	V	Hz	kW	r/min	A cos φ Duty				
3-Motor	690	Y 50	11,0	1477	12,2 0,82 S1				
Insul.cl.F	400	D 50	11,0	1477	21,1 0,82 S1				
IP55	415	D 50	11,0	1479	20,5 0,81 S1				
Eff class IE3	440	D 60	11,0	1778	18,9 0,83 S1				
	460	D 60	11,0	1777	18,2 0,82 S1				
50Hz: IE3-91,4%(100%)-91,8%(75%)-91,1%(50%)									
60Hz: IE3-92,4%(100%)									
Resistance		Ambient: 21 °C		Insulation resistance at 68 °C					
Line	U ₁ - V ₁	0,45510 Ω		2000 MΩ	1000 V				
	U ₁ - W ₁	0,45480 Ω							
	V ₁ - W ₁	0,45550 Ω							
				Overload					
				Torque 160% 15s					
				Speed 120% 120s					
				Current 150% 15s					
				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		400,1 D	50	8,3	0,35		1498	0,06	
Locked rotor test		78,5 D	50	20,5	0,93		0	0,33	
Thermal test (100% load)	71,0	400,6 D	50	21,1	12,0	11,0	1477	0,82	92,0
Partial load points:									
~75% load	53,3	400,7 D	50	16,8	8,9	8,3	1484	0,77	92,4
~50% load	35,5	400,9 D	50	13,0	6,0	5,5	1490	0,67	91,7
~25% load	17,7	401,5 D	50	10,1	3,1	2,8	1495	0,45	87,5
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding :		38		1			1 Resistance		
Frame :		20		2			2 Thermocouples		
Bearing D-end :		23		2			3 Thermometer		
Rotor:		51		3					
Ambient Temperature :		25		2					
These tests have been carried out on motor no. 3G1P141700173, on date 2014-06-03 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				Date of test					
Tested by Asea Brown Boveri, S.A., Fabrica Motores, 08192 Sant Quirze del Valles, Spain						Telephone +34 93 728 85 00			
						Telefax +34 93 728 85 33			

Computer print-out valid without signature.