



Test Report				Date of issue: 20.3.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3KP 160MLC 2					
				Product Code: 3GKP161430-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	18,5	2949	18,2	0,90	S1		
Insul.cl.F	400	D 50	18,5	2949	32,0	0,90	S1		
IP55	415	D 50	18,5	2952	31,1	0,89	S1		
	440	D 60	18,5	3551	28,8	0,90	S1		
Eff class IE3	460	D 60	18,5	3555	27,9	0,89	S1		
50Hz: IE3-92,4%(100%)-93,0%(75%)-92,6%(50%)									
60Hz: IE3-91,7%(100%)									
Resistance				Insulation resistance at 80 °C		Overload			
Line	Ambient: 19 °C		2000 MΩ		1000 V		Torque 160% 15s		
U <sub>1</sub> - V <sub>1</sub>	0,24210 Ω						Speed 120% 120s		
U <sub>1</sub> - W <sub>1</sub>	0,24240 Ω						Current 150% 15s		
V <sub>1</sub> - W <sub>1</sub>	0,24200 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	9,5	0,43		2998	0,07	
Locked rotor test		57,8 D	50	31,2	1,36		0	0,43	
Thermal test (100% load)	60,0	401,1 D	50	32,0	19,9	18,5	2949	0,90	93,0
Partial load points:									
~75% load	44,9	401,7 D	50	24,7	14,9	13,9	2962	0,87	93,5
~50% load	29,9	402,5 D	50	18,0	9,9	9,3	2975	0,80	93,2
~25% load	15,0	402,5 D	50	12,5	5,1	4,6	2989	0,59	90,4
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				55	1		1 Resistance		
Frame :				21	2		2 Thermocouples		
Bearing D-end :				29	2		3 Thermometer		
Rotor :				76	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3G1P141700172, on date 2014-05-28 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					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	

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