



Test Report				Date of issue: 1.6.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3KP 180MLA 2					
				Product Code: 3GKP181410-ADL					
				Protection type: Ex de IIB T4 Gb					
				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	2956	21,8	0,90	S1	
Insul.cl.F		400	D 50	22,0	2956	37,7	0,90	S1	
IP55		415	D 50	22,0	2959	36,7	0,89	S1	
Eff class IE3		440	D 60	22,0	3557	34,1	0,90	S1	
		460	D 60	22,0	3560	33,0	0,89	S1	
		50Hz: IE3-92,7%(100%)-93,1%(75%)-92,7%(50%)							
		60Hz: IE3-91,7%(100%)							
Resistance		Insulation resistance at 82 °C				Overload			
Line		Ambient: 26 °C		2000 MΩ		1000 V		Torque 160% 15s	
U ₁ - V ₁		0,21410 Ω						Speed 120% 120s	
U ₁ - W ₁		0,21400 Ω						Current 150% 15s	
V ₁ - W ₁		0,21330 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	10,4	0,49		2998	0,07	
Locked rotor test		65,8 D	50	38,0	1,86		0	0,43	
Thermal test (100% load)	71,2	400,1 D	50	37,7	23,5	22,0	2956	0,90	93,7
Partial load points:									
~75% load	53,4	402,5 D	50	28,8	17,5	16,5	2968	0,88	94,1
~50% load	35,5	400,6 D	50	20,8	11,7	11,0	2979	0,82	93,7
~25% load	17,8	400,8 D	50	14,0	6,1	5,5	2989	0,63	90,8
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding :		54		54	1		1 Resistance		
Frame :		24		24	2		2 Thermocouples		
Bearing D-end :		24		24	2		3 Thermometer		
Rotor :		68		68	3				
Ambient Temperature :		25		25	2				
<p>These tests have been carried out on motor no. 3G1P141700177, on date 2014-06-13 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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