



Test Report				Date of issue: 22.5.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3KP 160MLB 4					
				Product Code: 3GKP162420-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	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		
U <sub>1</sub> - V <sub>1</sub>	0,27690 Ω						Speed 120% 120s		
U <sub>1</sub> - W <sub>1</sub>	0,27660 Ω						Current 150% 15s		
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				
<p>These tests have been carried out on motor no. 3G1P141700174, on date 2014-07-01 which is identical in electrical 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 Date of test</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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