



Test Report				Date of issue: 25.5.2015							
Customer:				Serial No.:							
Customer ref.:				Order No.:							
				Type: M3KP 180MLA 4							
				Product Code: 3GKP182410-ADK							
				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	18,5	1481	20,2	0,82	S1	
Insul.cl.F				400	D 50	18,5	1481	34,9	0,82	S1	
IP55				660	Y 50	18,5	1478	21,1	0,83	S1	
				380	D 50	18,5	1478	36,4	0,83	S1	
				415	D 50	18,5	1482	34,0	0,81	S1	
				460	D 60	18,5	1482	30,6	0,81	S1	
Eff class IE3				50Hz : IE3-93,3(100%)-94,0(75%)-93,8(50%)							
				60Hz : IE3-93,6(100%)							
Resistance				Insulation resistance at 23 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s			
U ₁ - V ₁				Ambient: 22,4 °C				Torque 160 % 15s			
U ₁ - W ₁				0,2211 Ω				Speed 120 % 120s			
V ₁ - W ₁				0,2202 Ω							
				0,2202 Ω							
				High-voltage test winding 2400 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 D	50	14,0	0,42		1500	0,04			
Locked rotor test		76 D	50	34,0	1,30		0	0,3			
Thermal test (100% load)	119,1	400 D	50	34,9	19,76	18,50	1483	0,82	93,62		
Partial load points:											
~75% load	89,9	400 D	50	27,8	14,90	14,01	1488	0,77	94,02		
~50% load	59,6	400 D	50	21,4	9,95	9,31	1492	0,67	93,62		
~25% load	29,2	400 D	50	16,4	5,06	4,58	1497	0,45	90,47		
Temperature rise at rated load.				[°C] [K] Method			Measurement method				
Stator winding :				46,7 1			1 Resistance				
Frame :				31,5 2			2 Thermometer				
Bearing D-end :				32,2 2			3 Thermocouples				
Ambient Temperature :				23 2							
These tests have been carried out on motor no. 3GV1110779332001, on date 2011-09-28 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 ABB AB, LV Motors, 721 70 Västerås, Sweden Telephone +46 (0)21 32 90 00 Telefax +46 (0)21 32 90 22											

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