



Test Report				Date of issue: 21.5.2015							
Customer:				Serial No.:							
Customer ref.:				Order No.:							
				Type: M3KP 160MLA 4							
				Product Code: 3GKP162410-ADK							
				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	1473	11,8	0,84	S1
Insul.cl.F				400	D	50	11,0	1473	20,4	0,84	S1
IP55				660	Y	50	11,0	1469	12,5	0,85	S1
				380	D	50	11,0	1469	21,3	0,85	S1
				415	D	50	11,0	1476	19,9	0,83	S1
				460	D	60	11,0	1777	17,9	0,83	S1
Eff class IE3				50Hz : IE3-92,2(100%)-93,0(75%)-92,7(50%) 60Hz : IE3-92,7(100%)							
Resistance				Insulation resistance at 22 °C				Overload			
Line				Ambient: 21,2 °C				R > 2000 Mohm 1000 V			
U ₁ - V ₁				0,4389 Ω				Current 150 % 120s			
U ₁ - W ₁				0,4409 Ω				Torque 160 % 15s			
V ₁ - W ₁				0,4386 Ω				Speed 120 % 120s			
				High-voltage test winding 2400 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 D	50	7,9	0,29		1500	0,05			
Locked rotor test		80 D	50	19,7	0,81		0	0,29			
Thermal test (100% load)	71,2	400 D	50	20,8	11,91	11,00	1474	0,83	92,34		
Partial load points:											
~75% load	54,3	400 D	50	16,6	9,06	8,42	1481	0,79	92,86		
~50% load	35,5	400 D	50	12,5	5,97	5,53	1488	0,69	92,61		
~25% load	18,3	400 D	50	9,5	3,19	2,86	1494	0,49	89,70		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				40,5	1			1 Resistance			
Frame :				26,4	2			2 Thermometer			
Bearing D-end :				25,4	2			3 Thermocouples			
Ambient Temperature :				22	2						
These tests have been carried out on motor no. 3GV1110796485001, on date 2011-10-13 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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