



Test Report				Date of issue: 25.5.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3GP 180MLB 4					
				Product Code: 3GGP182420-ADK					
				Protection type: Ex nA IIC T3 Gc					
				Cert. No.: LCIE 13 ATEX 1034 X / IECEx LCIE 13.0047 X					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y 50	22,0	1480	24,1	0,82	S1	
Insul.cl.F		400	D 50	22,0	1480	41,5	0,82	S1	
IP55		660	Y 50	22,0	1477	42,7	0,84	S1	
		380	D 50	22,0	1477	42,7	0,84	S1	
		415	D 50	22,0	1482	40,9	0,80	S1	
		460	D 60	22,0	1783	35,8	0,82	S1	
Eff class IE3		50Hz : IE3-93,3(100%)-94,1(75%)-94,1(50%) 60Hz : IE3-93,8(100%)							
Resistance				Insulation resistance at 23 °C		Overload			
Line		Ambient: 24,8 °C		R > 2000 Mohm 1000 V		Current 150 % 120s			
U ₁ - V ₁		0,1925 Ω				Torque 160 % 15s			
U ₁ - W ₁		0,1916 Ω				Speed 120 % 120s			
V ₁ - W ₁		0,1922 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	16,5	0,51		1500	0,04	
Locked rotor test		76 D	50	40,6	1,64		0	0,31	
Thermal test (100% load)	141,8	400 D	50	41,7	23,60	22,00	1481	0,82	93,21
Partial load points:									
~75% load	106,7	400 D	50	33,1	17,73	16,61	1486	0,77	93,65
~50% load	71,2	400 D	50	25,5	11,90	11,11	1491	0,67	93,36
~25% load	35,9	400 D	50	19,5	6,22	5,63	1496	0,46	90,53
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				59,4	1		1 Resistance		
Frame :				39,7	2		2 Thermometer		
Bearing D-end :				38,7	2		3 Thermocouples		
Ambient Temperature :				23	2				
These tests have been carried out on motor no.3GV1110779333001, on date 2011-09-27 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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