



Test Report				Date of issue: 25.5.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3BP 180MLA 4					
				Product Code: 3GBP182410-ADK					
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					
Line				R > 2000 Mohm 1000 V					
Ambient: 22,4 °C									
U ₁ - V ₁				0,2211 Ω					
U ₁ - W ₁				0,2202 Ω					
V ₁ - W ₁				0,2202 Ω					
				Overload					
				Current 150 % 120s					
				Torque 160 % 15s					
				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]	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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