



Type Test Report				Date of issue: 25.11.2016						
Customer:				Serial No.:						
				Type: M3AA 180MLC 4 Product Code: 3GAA182430-ADG						
Customer ref.:										
Rating:										
				V	Hz	kW	r/min	A	cos j	Duty
3-Motor				690	Y 50	30,0	1474	32,8	0,83	S1
Insul.cl.F				400	D 50	30,0	1474	56,5	0,83	S1
IP55				415	D 50	30,0	1477	55,7	0,81	S1
				400	D 50	30,0	1776	50,3	0,84	S1
Eff class IE2				460	D 60	30,0	1777	48,6	0,83	S1
				50Hz : IE2 - 92,3%(100%) - 93,5%(75%) - 93,5%(50%)						
				60Hz : IE1 - 92,9%(100%)						
Resistance				Insulation resistance at 21,1 °C				Overload		
Line				R > 2000 Mohm 1000 V				Current 150 % 120s		
U ₁ - V ₁				Ambient: 19,5 °C				Torque 160 % 15s		
U ₁ - W ₁				0,15661 W				Speed 120 % 120s		
V ₁ - W ₁				0,15546 W						
				0,15589 W						
				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 j	h [%]	
No load test		401 D	50	20,6	0,77		1500	0,05		
Locked rotor test		80 D	50	55,2	2,56			0,33		
Thermal test (100% load)	194,2	400 D	50	56,5	32,65	30,00	1476	0,83	91,88	
Partial load points:										
~75% load	146,2	400 D	50	44,3	24,51	22,70	1482	0,80	92,59	
~50% load	97,7	400 D	50	33,4	16,48	15,24	1489	0,71	92,48	
~25% load	49,1	400 D	50	24,5	8,58	7,69	1495	0,51	89,58	
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method			
Stator winding :				82,9	1		1 Resistance			
Frame :				42,8	2		2 Thermometer			
Bearing D-end :				51,5	2		3 Thermocouples			
Ambient Temperature :				21	2					
These tests have been carried out on motor no. 3GV1110790499001, on date 2012-02-21 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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