



Type Test Report					Date of issue: 1.9.2015					
					Serial No.:					
					Motor Type: M3AA180MLA-4					
					Product Code: 3GAA182410-ADG					
Rating: 3-Motor Insul.cl.F IP55 Eff class IE2			V		Hz	kW	r/min	A	η [%]	Duty
			690	Y	50	18,5	1477	20,00	0,84	S1
			400	D	50	18,5	1477	34,5	0,84	S1
			415	D	50	18,5	1479	34,0	0,82	S1
			440	D	60	18,5	1778	30,9	0,85	S1
			460	D	60	18,5	1781	30,2	0,83	S1
			50Hz : IE2 - 91,9%(100%) - 92,8%(75%) - 92,6%(50%) 60Hz : IE1 - 92,3%(100%)							
Resistance Line			Ambient: 19,9 °C 0,2880 Ω		Isulation resistans at 26 °C			Overload		
					R>2000Mohm 1000V			Volts 130 % 60s Amp 160 % 120s rpm 120 % 120s		
					High-voltage test winding 2400V 60s					
Test	Torque [Nm]	Line U[V]	f [Hz]	Input I[A]	P1[kW]	Output P2[kW]	n[r/min]	cos ρ	η [%]	
No load test		400 D	50	12,5	0,54		1500	0,06	92,73	
Locked rotor test		78 D	50	33,2	1,46		0	0,33		
Thermal test (100% load)		401 D	50	34,7	20,04	18,56	1479	0,83		
Partial load points:										
~75% load		400 D	50	27,4	15,17	13,98	1485		92,17	
~50%load		400 D	50	20,6	10,14	9,31	1490		91,83	
~25%load		400 D	50	15,3	5,41	4,77	1495		88,49	
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method			
Stator winding* :				60,93	334,1	1	1 Resistance			
Frame :				47,9	321,1	2	2 Thermometer			
Bearing D-end :				49,1	322,3	2	3 Thermocouples			
Ambient Temperature :				22	295	2				
These tests have been carried out on motor no. CSN 12-381257, on date 2012-02-13 which is identical in electrical design with the above. Manufactured 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 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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