



Type Test Report				Date of issue: 4.11.2015						
Customer ref.:				Serial No.:						
				Motor Type: M3AA 100 LC 4						
				Product Code: 3GAA102530-ASE						
Rating:		V	Hz	kW	r/min	A	$\eta$ [%]	Duty		
3-Motor		400	Y 50	2,20	1450	4,60	0,79	S1		
Insul.cl.F		230	D 50	2,20	1450	8,00	0,79	S1		
IP55		460	Y 60	2,20	1760	4,20	0,75	S1		
Eff class IE2		50Hz : IE2 - 86,4%(100%) - 86,2%(75%) - 84,1%(50%) 60Hz : IE2 - 87,5%(100%)								
Resistance				Insulation resistance at			Overload			
Line		Ambient: 18,3 °C		R > 1000Mohm		0,0kV		Volts 130 % 60s		
U <sub>1</sub> - V <sub>1</sub>		3,6320 $\Omega$						Amp 160 % 120s		
U <sub>1</sub> - W <sub>1</sub>		3,6310 $\Omega$						rpm 120 % 120s		
V <sub>1</sub> - W <sub>1</sub>		3,6320 $\Omega$								
				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 $\rho$	$\eta$ [%]	
No load test		401 D	50	2,5	0,17		1500	0,09		
Locked rotor test		65 D	49,9	4,9	0,27			0,50		
Thermal test (100% load)	14,5	400 D	50	4,6	2,55	2,20	1453	0,80	86,30	
Partial load points:										
~75% load	10,8	400 D	50	3,8	1,92	1,65	1466	0,72	86,20	
~50%load	7,1	400 D	50	3,2	1,31	1,10	1477	0,60	84,00	
~25%load	3,5	400 D	50	2,7	0,73	0,55	1489	0,39	75,50	
Temperature rise at rated load.			°C	K	Method	Measurement method				
Stator winding <sup>+</sup> :			37,0	37,0	1	1 Resistance				
Frame :			44,2		2	2 Thermometer				
Bearing D-end :			40,9		2	3 Thermocouples				
Ambient Temperature :			19,1		2					
These tests have been carried out on motor no. 3GE13812084311, on date 2014-01-27 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					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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