



Type Test Report				Date of issue: 4.11.2015							
Customer ref.:				Serial No.:							
				Motor Type: M3AA 90 LD 4							
				Product Code: 3GAA092540-ASE							
Rating:				V	Hz	kW	r/min	A	η [%]	Duty	
3-Motor				400	Y 50	1,50	1435	3,30	0,76	S1	
Insul.cl.F				230	D 50	1,50	1435	5,74	0,76	S1	
IP55				460	Y 60	1,50	1750	3,00	0,72	S1	
Eff class IE2				50Hz : IE2 - 84,2%(100%) - 84,1%(75%) - 81,9%(50%) 60Hz : IE2 - 85,4%(100%)							
Resistance				Insulation resistance at				Overload			
Line				R > 2000Mohm				1,0kV		Volts 130 % 60s	
U ₁ - V ₁				Ambient: 19,8 °C						Amp 160 % 120s	
U ₁ - W ₁				5,8460 Ω						rpm 120 % 120s	
V ₁ - W ₁				5,8510 Ω							
				5,8500 Ω				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		403 D	50	2,2	0,14		1500	0,09			
Locked rotor test		64 D	50,2	3,6	0,23			0,59			
Thermal test (100% load)	9,9	400 D	50	3,4	1,77	1,50	1443	0,75	84,70		
Partial load points:											
~75% load	7,4	400 D	50	2,9	1,33	1,13	1459	0,66	84,40		
~50%load	4,9	400 D	50	2,5	0,92	0,75	1473	0,53	81,70		
~25%load	2,4	400 D	50	2,3	0,52	0,38	1487	0,33	72,20		
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method				
Stator winding ⁺ :				33,1	33,1	1	1 Resistance				
Frame :				43,5		2	2 Thermometer				
Bearing D-end :				40,7		2	3 Thermocouples				
Ambient Temperature :				20,6		2					
These tests have been carried out on motor no. 3GE125109P9338011, on date 2014-02-19 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				

Computer print-out valid without signature.