



Type Test Report				Date of issue: 4.11.2015						
Customer ref.:				Serial No.:						
				Motor Type: M3AA 90 L 2						
				Product Code: 3GAA091500-ASE						
Rating:		V	Hz	kW	r/min	A	η [%]	Duty		
3~Motor		230	D	50	1,50	2900	5,04	0,86 S1		
Insul.cl.F		400	Y	50	1,50	2900	2,90	0,86 S1		
IP55		460	Y	60	1,50	3510	2,60	0,84 S1		
Eff class IE2		50Hz : IE2 - 84,1(100%) - 85,0(75%) - 83,5(50%) 60Hz : IE2 - 85,1(100%)								
Resistance				Insulation resistance at			Overload			
Line		Ambient: 19,0 °C		R > 1000Mohm		0,0kV		Volts 130 % 60s		
U ₁ - V ₁		6,9410 Ω						Amp 160 % 120s		
U ₁ - W ₁		6,9520 Ω						rpm 120 % 120s		
V ₁ - W ₁		6,9520 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]	$\cos \rho$	η [%]	
No load test		402 D	50	1,2	0,10		3000	0,13		
Locked rotor test		68 D	50,1	3,0	0,18			0,51		
Thermal test (100% load)	4,9	400 D	50	2,9	1,78	1,50	2899	0,87	84,20	
Partial load points:										
~75% load	3,7	400 D	50	2,3	1,32	1,13	2929	0,83	85,00	
~50%load	2,4	400 D	50	1,8	0,90	0,75	2953	0,73	83,80	
~25%load	1,2	400 D	50	1,4	0,49	0,38	2977	0,52	76,70	
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method			
Stator winding ⁺ :				41,2	1		1 Resistance			
Frame :		40,3			2		2 Thermometer			
Bearing D-end :		39,2			2		3 Thermocouples			
Ambient Temperature :		20,2			2					
<p>These tests have been carried out on motor no. 3GE13611000460, on date 2014-01-30 which is identical in electrical design with the above.</p> <p>Manufactured in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p> <p>On behalf of customer</p> <p>On behalf of manufacturer Date of test</p> <p>Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden</p> <p>Telephone +46 (0)21 32 90 00 Telefax +46 (0)21 32 90 22</p>										

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