



Type Test Report				Date of issue: 4.11.2015						
Customer ref.:				Serial No.:						
				Motor Type: M3AA 132 SMJ 2 HO						
				Product Code: 3GAA131290-ADE						
Rating:		V	Hz	kW	r/min	A	$\eta$ [%]	Duty		
3-Motor		690	Y 50	18,50	2895	19,10	0,89	S1		
Insul.cl.F		400	D 50	18,50	2895	32,90	0,89	S1		
IP55		460	D 60	18,50	3500	28,20	0,91	S1		
Eff class IE2		50Hz : IE2 - 91,1%(100%) - 92,0%(75%) - 92,1%(50%) 60Hz : IE2 - 91,6%(100%)								
Resistance				Insulation resistance at			Overload			
Line		Ambient: 19,5 °C		R > 2000Mohm		1,0kV		Volts 130 % 60s		
U <sub>1</sub> - V <sub>1</sub>		0,2971 $\Omega$						Amp 160 % 120s		
U <sub>1</sub> - W <sub>1</sub>		0,2971 $\Omega$						rpm 120 % 120s		
V <sub>1</sub> - W <sub>1</sub>		0,2970 $\Omega$								
				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		402 D	50	9,1	0,48		3000	0,08		
Locked rotor test		63 D	50	34,2	1,34			0,36		
Thermal test (100% load)	60,4	400 D	50	32,3	20,26	18,50	2924	0,91	91,30	
Partial load points:										
~75% load	45,0	400 D	50	24,8	15,05	13,88	2946	0,87	92,20	
~50%load	29,8	400 D	50	18,0	10,03	9,25	2967	0,81	92,20	
~25%load	14,8	400 D	50	12,2	5,18	4,63	2986	0,61	89,20	
Temperature rise at rated load.			°C	K	Method		Measurement method			
Stator winding <sup>+</sup> :			71,4	71,4	1		1 Resistance			
Frame :			66,7		2		2 Thermometer			
Bearing D-end :			68,1		2		3 Thermocouples			
Ambient Temperature :			22,8		2					
These tests have been carried out on motor no. 3GV122036P4259001, on date 2014-01-14 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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