



<b>Type Test Report</b>				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 225SMD 2 Product Code: 3GAA221240-ADG					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y 50	80,0	2964	81,2	0,87	S1	
Insul.cl.F		400	D 50	80,0	2964	140,0	0,87	S1	
IP55		415	D 50	80,0	2967	140,0	0,84	S1	
		440	D 60	80,0	3566	124,0	0,89	S1	
Eff class IE2		460	D 60	80,0	3570	120,0	0,88	S1	
50Hz : IE2 - 94,4(100%) - 94,8(75%) - 94,3(50%)				60Hz : IE3 - 94,4(100%)					
Resistance				Insulation resistance at 25 °C		Overload			
Line		Ambient: 24,4 °C		R > 2000 Mohm 1000 V		Current 150 % 120s			
U <sub>1</sub> - V <sub>1</sub>		0,03124 Ω				Torque 160 % 15s			
U <sub>1</sub> - W <sub>1</sub>		0,03113 Ω				Speed 120 % 120s			
V <sub>1</sub> - W <sub>1</sub>		0,03115 Ω							
High-voltage test winding				2400 V		60 s			
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No load test		401,5 D	50	39,8	2		3000	0,07	
Locked rotor test		71,1 D	50	131,8	6,34		0	0,39	
Thermal test ( 100% load )	257,7	400 D	50	141,7	84,91	80,00	2964	0,86	94,21
Partial load points:									
~75% load	207,6	400 D	50	116,4	68,48	64,64	2973	0,85	94,39
~50% load	121,3	400 D	50	76,0	40,52	37,93	2986	0,77	93,62
~25% load	64,8	400 D	50	53,9	22,46	20,33	2994	0,60	90,49
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				92,9	1			1 Resistance	
Frame :				41,1	2			2 Thermometer	
Bearing D-end :				70,2	2			3 Thermocouples	
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 08 63857010001, on date 2009-01-08 which is identical in electrical design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p>									
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			
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