



Type Test Report				Date of issue: 2015-06-10																															
				Serial No.: 3G1S14461451768001																															
Customer:				Type: M3AA 225SMA 4 Product Code: 3GAA222051-ADL																															
Customer ref.:																																			
Rating:		<table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th>cos φ</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>D 50</td> <td>37,0</td> <td>1480</td> <td>69,3</td> <td>0,82</td> <td>S1</td> </tr> <tr> <td>690</td> <td>Y 50</td> <td>37,0</td> <td>1480</td> <td>40,2</td> <td>0,82</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>37,0</td> <td>1482</td> <td>68,5</td> <td>0,80</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	400	D 50	37,0	1480	69,3	0,82	S1	690	Y 50	37,0	1480	40,2	0,82	S1	415	D 50	37,0	1482	68,5	0,80	S1
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3-Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE3		50Hz : IE3 - 93,9(100%) - 94,7(75%) - 94,5(50%)																																	
Resistance		Insulation resistance at 22 °C				Overload																													
Line		Ambient: 22,4 °C				Current 150% 120s																													
U ₁ - V ₁		0,11393 Ω				Torque 160% 15s																													
U ₁ - W ₁		0,11396 Ω				Speed 120% 120s																													
V ₁ - W ₁		0,11393 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]	η[r/min]	cos φ	η [%]																										
No load test		400,9 D	50	25,6	0,68		1500	0,04																											
Locked rotor test		78 D	50	70,1	3,33			0,35																											
Thermal test (100% load)	238,8	400 D	50	68,4	39,45	37,00	1479	0,83	93,8																										
Partial load points:																																			
~75% load	178,4	400 D	50	53,6	29,40	27,75	1486	0,79	94,4																										
~50% load	118,5	400 D	50	40,5	19,61	18,50	1491	0,70	94,3																										
~25% load	59,0	400 D	50	30,3	10,05	9,25	1496	0,48	92,0																										
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method																												
Stator winding :				63,5	1		1 Resistance																												
Frame :				36,9	2		2 Thermometer																												
Bearing D-end :				38,9	2		3 Thermocouples																												
Ambient Temperature :		22			2																														
Manufactured and tested 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		2014-09-11																															
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweder						Telephone +46 (0)21 32 90 00 Telefax +46 (0)21 32 90 22																													

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