



Type Test Report				Date of issue: 2011.12.28																															
Customer:				Serial No.: 3GE094536T0001																															
Customer ref.:				Type: M3AA 132SME 2 HO Product Code: 3GAA131317-_SE																															
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>230</td> <td>D 50</td> <td>18,5</td> <td>2895</td> <td>56,90</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>400</td> <td>Y 50</td> <td>18,5</td> <td>2895</td> <td>32,90</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>460</td> <td>Y 60</td> <td>18,5</td> <td>3510</td> <td>27,80</td> <td>0,91</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	230	D 50	18,5	2895	56,90	0,89	S1	400	Y 50	18,5	2895	32,90	0,89	S1	460	Y 60	18,5	3510	27,80	0,91	S1
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230	D 50	18,5	2895	56,90	0,89	S1																													
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3~Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE2		50Hz : IE2 - 91,1(100%) - 92,2(75%) - 92,4(50%) 60Hz : IE2 - 91,6(100%)																																	
Resistance		Ambient: 10,4 °C U ₁ - V ₁ 0,28420 Ω U ₁ - W ₁ 0,28130 Ω V ₁ - W ₁ 0,28150 Ω				Insulation resistance at 25,7 °C R > 2000 Mohm 1000 V																													
Line						Overload Current 150 % 120s Torque 160 % 15s Speed 120 % 120s																													
						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		400 Y 50		7,9	0,46		3000	0,08																											
Locked rotor test		63 Y 50		31,6	1,61		0	0,47																											
Thermal test (100% load)	61,0	400 Y 50		32,3	20,40	18,50	2896	0,91	90,70																										
Partial load points:																																			
~75% load	45,3	400 Y 50		24,5	15,12	13,88	2925	0,89	91,80																										
~50% load	29,9	400 Y 50		17,4	10,05	9,25	2952	0,83	92,00																										
~25% load	14,9	400 Y 50		11,3	5,17	4,63	2977	0,66	89,50																										
Temperature rise at rated load.		<table border="1"> <thead> <tr> <th></th> <th>[°C]</th> <th>[K]</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>Stator winding :</td> <td></td> <td>77,9</td> <td>3</td> </tr> <tr> <td>Frame :</td> <td></td> <td>26,0</td> <td>3</td> </tr> <tr> <td>Bearing D-end :</td> <td></td> <td>50,5</td> <td>3</td> </tr> <tr> <td>Ambient Temperature :</td> <td>25</td> <td></td> <td>3</td> </tr> </tbody> </table>					[°C]	[K]	Method	Stator winding :		77,9	3	Frame :		26,0	3	Bearing D-end :		50,5	3	Ambient Temperature :	25		3	Measurement method 1 Resistance 2 Thermometer 3 Thermocouples									
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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		14.1.2010																															
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain						Telephone +34 93 728 85 00		Telefax +34 93 728 85 33																											

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