



Type Test Report				Date of issue: 2013.03.12																						
Customer:				Serial No.: 3GH091909T2202																						
Customer ref.:				Type: M3GP 90SLC 2 Product Code: 3GGP091323-_DB Protection Type: Ex nA IIC T3 Cert. No.: VTT 12 ATEX 050X / IECEx VTT 12.0010X																						
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>690</td> <td>Y</td> <td>50</td> <td>2,20</td> <td>2885</td> <td>2,40</td> <td>0,87 S1</td> </tr> <tr> <td>400</td> <td>D</td> <td>50</td> <td>2,20</td> <td>2885</td> <td>4,30</td> <td>0,87 S1</td> </tr> </tbody> </table>		V	Hz	kW	r/min	A	cos φ	Duty	690	Y	50	2,20	2885	2,40	0,87 S1	400	D	50	2,20	2885	4,30	0,87 S1
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3-Motor Insul.cl.F IP55 Eff class IE2				50Hz : IE2 - 84,7(100%) - 86,7(75%) - 85,7(50%)																						
Resistance		Line		Insulation resistance at 29,8 °C R > 2000 Mohm 1000 V		Overload Current 150 % 120s Torque 160 % 15s Speed 120 % 120s																				
		Ambient: 26,2 °C		High-voltage test winding 2400 V 60 s																						
U <sub>1</sub> - V <sub>1</sub>		4,96200 Ω																								
U <sub>1</sub> - W <sub>1</sub>		4,95800 Ω																								
V <sub>1</sub> - W <sub>1</sub>		4,97600 Ω																								
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 D	50	1,41	0,12		3000	0,12																		
Locked rotor test		91,7 D	50	4,7	0,36		0	0,48																		
Thermal test ( 100% load )	7,3	400 D	50	4,2	2,62	2,20	2882	0,90	83,90																	
Partial load points:																										
~75% load	5,3	400 D	50	3,2	1,92	1,65	2946	0,86	86,10																	
~50% load	3,6	400 D	50	2,3	1,29	1,10	2946	0,79	85,00																	
~25% load	1,8	400 D	50	1,63	0,69	0,55	2972	0,61	79,60																	
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method																		
		Stator winding :		53,8		3		1 Resistance																		
		Frame :		18,3		3		2 Thermometer																		
		Bearing D-end :		23,5		3		3 Thermocouples																		
Ambient Temperature :		25				3																				
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		25.5.2009		Telephone		+34 93 728 85 00																		
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain						Telefax		+34 93 728 85 33																		

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