



Type Test Report				Date of issue: 2016.08.18																															
Customer:				Serial No.: 3GH093909T7506																															
Customer ref.:				Type: M3GP 90SLC 6 Product Code: 3GGP093323-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>960</td> <td>1,32</td> <td>0,58</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D</td> <td>50</td> <td>960</td> <td>2,30</td> <td>0,58</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D</td> <td>60</td> <td>1160</td> <td>2,10</td> <td>0,54</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y	50	960	1,32	0,58	S1	400	D	50	960	2,30	0,58	S1	460	D	60	1160	2,10	0,54	S1
V	Hz	kW	r/min	A	cos φ	Duty																													
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3-Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE2		50Hz : IE2 - 76,3%(100%) - 74,7%(75%) - 69,5%(50%) 60Hz : IE2 - 80,4%(100%)																																	
Resistance				Insulation resistance at 20,8 °C		Overload																													
Line				R > 2000 Mohm 1000 V		Current 150 % 120s																													
U ₁ - V ₁						Torque 160 % 15s																													
U ₁ - W ₁						Speed 120 % 120s																													
V ₁ - W ₁																																			
Ambient: 18,4 °C				High-voltage test winding 2400 V 60 s																															
12,62000 Ω																																			
12,64000 Ω																																			
12,65000 Ω																																			
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 D	50	1,91	0,13		1000	0,10																											
Locked rotor test		95,9 D	50	2,3	0,23		0	0,60																											
Thermal test (100% load)	7,5	400 D	50	2,3	0,97	0,75	956	0,59	77,60																										
Partial load points:																																			
~75% load	5,5	400 D	50	2,1	0,74	0,56	968	0,50	76,10																										
~50% load	3,7	400 D	50	2,0	0,53	0,38	979	0,38	71,10																										
~25% load	1,8	400 D	50	1,90	0,33	0,19	989	0,25	57,20																										
Temperature rise at rated load.				°C [K]		Method		Measurement method																											
Stator winding :				31,6		3		1 Resistance																											
Frame :				17,2		3		2 Thermometer																											
Bearing D-end :				20,1		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 15.10.2009																															
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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