



<b>Test Report</b>		Cert. No. ATEX Cert no: LCIE 06 ATEX 6089 IECEx Cert no: IECEx LC1 07.0001																																											
Customer:		Date of Issue																																											
Customer ref.:		Type: M3GP 280SMB 4 Protection type: Ex nA II T3																																											
Rating: 3-Motor		Product Code 3GGP282220-_DG																																											
Insul.cl. F		Serial no.:																																											
S1		Tag no.:																																											
IP 55		Order no.:																																											
665 kg																																													
<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> </tr> </thead> <tbody> <tr> <td>690 Y</td> <td>50</td> <td>90</td> <td>1483</td> <td>92</td> <td>0.86</td> </tr> <tr> <td>400 D</td> <td>50</td> <td>90</td> <td>1483</td> <td>159</td> <td>0.86</td> </tr> <tr> <td>660 Y</td> <td>50</td> <td>90</td> <td>1481</td> <td>95.6</td> <td>0.87</td> </tr> <tr> <td>380 D</td> <td>50</td> <td>90</td> <td>1481</td> <td>166</td> <td>0.87</td> </tr> <tr> <td>415 D</td> <td>50</td> <td>90</td> <td>1485</td> <td>155</td> <td>0.85</td> </tr> <tr> <td>440 D</td> <td>60</td> <td>105</td> <td>1780</td> <td>167</td> <td>0.87</td> </tr> </tbody> </table>		V	Hz	kW	r/min	A	cos φ	690 Y	50	90	1483	92	0.86	400 D	50	90	1483	159	0.86	660 Y	50	90	1481	95.6	0.87	380 D	50	90	1481	166	0.87	415 D	50	90	1485	155	0.85	440 D	60	105	1780	167	0.87		
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Resistance		Insulation resistance																																											
$U_1 - V_1$ 0,03462 Ω    26 °C $U_1 - W_1$ 0,03469 " $V_1 - W_1$ 0,03469 "		22000 MΩ    1000 V 59 °C																																											
		High-voltage test 2400 V 60 s																																											
		Overload test 1,6 x T <sub>N</sub> 15 s																																											
		Starting Current I <sub>S</sub> /I <sub>N</sub> = 7,1																																											
Test		Line U[V]	f[Hz]	Input I[A]	P <sub>1</sub> [kW]	Output P <sub>2</sub> [kW]	n[r/min]	cos φ	η [%]																																				
No-load test		400,1 D	50	47,6	1,55			0,0469																																					
Locked-rotor test		73,6 D	50	159,4	6,96			0,3423																																					
Temperature-rise test		400,0 D	50	159,4	95,0	90,0	1482	0,86	94,7																																				
Temperature rise at amb.temp. 25 °C		Temperature rise at amb. temp. 25 °C		Measurement method																																									
[K]    Method		[K]    Method		1 Resistance																																									
Stator winding    63,1    1		Frame    32,7    3		2 Embedded temperature detector																																									
		Bearing D-end    39,7    3		3 Thermometer																																									
<p>These tests have been carried out on motor no. 3GF10025650B, 2010-07-07 which is identical in 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																																													
Tested by ABB Oy Motors/Vaasa																																													