



Test Report		Cert. No. ATEX Cert.No. LCIE 06 ATEX 6089 IECEX Cert. No. IECEX LCI 07.0001																																											
Customer:		Date of Issue																																											
Customer ref.:		Type: M3GP 280SMB 2 Protection type: Ex nA II_ T3 Serial no.: Tag no.: Order no.:																																											
Rating: 3-Motor		Product Code 3GGP281220-_DG																																											
Insul.cl. F S1 IP 55 665 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>2976</td> <td>88</td> <td>0.90</td> </tr> <tr> <td>400 D</td> <td>50</td> <td>90</td> <td>2976</td> <td>152</td> <td>0.90</td> </tr> <tr> <td>660 Y</td> <td>50</td> <td>90</td> <td>2972</td> <td>92</td> <td>0.90</td> </tr> <tr> <td>380 D</td> <td>50</td> <td>90</td> <td>2972</td> <td>159</td> <td>0.90</td> </tr> <tr> <td>415 D</td> <td>50</td> <td>90</td> <td>2978</td> <td>148</td> <td>0.89</td> </tr> <tr> <td>440 D</td> <td>60</td> <td>105</td> <td>3570</td> <td>163</td> <td>0.90</td> </tr> </tbody> </table>		V	Hz	kW	r/min	A	cos φ	690 Y	50	90	2976	88	0.90	400 D	50	90	2976	152	0.90	660 Y	50	90	2972	92	0.90	380 D	50	90	2972	159	0.90	415 D	50	90	2978	148	0.89	440 D	60	105	3570	163	0.90
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Resistance		Insulation resistance																																											
$U_1 - V_1$ 0,02720 Ω 23 °C $U_1 - W_1$ 0,02720 " " $V_1 - W_1$ 0,02718 " "		2000 MΩ 1000 V 57,5 °C																																											
		High-voltage test 2400 V 60 s																																											
		Overload test 1,6 x T _N 15 s Starting Current I _S /I _N = 7,5																																											
Test		Line U[V]	f[Hz]	Input I[A]	P ₁ [kW]	Output P ₂ [kW]	n[r/min]	cos φ	η [%]																																				
No-load test		400,1 D	50	36,5	2,33			0,0923																																					
Locked-rotor test		67,3 D	50	152,2	5,20			0,2928																																					
Temperature-rise test		400,0 D	50	154,5	95,27	90,0	2975	0,89	94,5																																				
Temperature rise at amb.temp. 25 °C		Temperature rise at amb. temp. 25 °C		Measurement method																																									
[K] Method		[K] Method		1 Resistance																																									
Stator winding 61,9 1		Frame 28,6 3		2 Embedded temp. detector																																									
		Bearing D-end 39,7 3		3 Thermometer																																									
<p>These tests have been carried out on motor no. 3GF10025157B, 2010-06-16 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																																													
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Tested by ABB Oy Motors/Vaasa																																													