



Test Report				Date of issue: 18.2.2015																																																	
				Serial No.: 3G1F1503250428																																																	
				Type: M3GP 315SMB 2 IMV1/IM3011																																																	
				Product Code: 3GGP311220-BEK																																																	
Rating:																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 5%;">V</th> <th style="width: 5%;">Hz</th> <th style="width: 5%;">kW</th> <th style="width: 5%;">r/min</th> <th style="width: 5%;">A</th> <th style="width: 5%;">cos φ</th> <th style="width: 5%;">Duty</th> </tr> </thead> <tbody> <tr> <td>3-Motor</td> <td>500</td> <td>D</td> <td>50</td> <td>110</td> <td>2982</td> <td>151</td> <td>0.88</td> <td>S1</td> </tr> <tr> <td>Insul.cl.F</td> <td colspan="8"></td> </tr> <tr> <td>IP55</td> <td colspan="8"></td> </tr> <tr> <td>Eff class IE3</td> <td colspan="8">50Hz : IE3-95.5%(100%)-95.5%(75%)-94.7%(50%)</td> </tr> </tbody> </table>											V	Hz	kW	r/min	A	cos φ	Duty	3-Motor	500	D	50	110	2982	151	0.88	S1	Insul.cl.F									IP55									Eff class IE3	50Hz : IE3-95.5%(100%)-95.5%(75%)-94.7%(50%)							
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Resistance				Insulation resistance at 36 °C				Overload																																													
Line				20000 MΩ 1000 V				Torque 160% 15s																																													
Ambient: 21 °C																																																					
U ₁ - V ₁				0.02689 Ω																																																	
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				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		500.1 D	50	42.4	1.67		3000	0.05																																													
Locked rotor test		82.4 D	50	151.2	5.08		0	0.24																																													
Thermal test (100% load)	352.3	500.1 D	50	151.3	114.0	110.0	2980	0.87	96.5																																												
Partial load points:																																																					
~75% load	264.3	500.1 D	50	116.6	85.4	82.5	2988	0.85	96.7																																												
~50% load	176.2	500.1 D	50	84.8	57.2	55.0	2991	0.78	96.1																																												
~25% load	88.6	500.1 D	50	57.8	29.3	27.5	2994	0.59	93.8																																												
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method																																													
Stator winding :				44	1			1 Resistance																																													
Frame :				18	2			2 Thermocouples																																													
Bearing D-end :				25	2			3 Thermometer																																													
Ambient Temperature :				25	2																																																
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			6.2.2015																																																
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372																																															

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