



Test Report				Date of issue: 5.12.2014						
				Serial No.:						
				Order No.:						
				Type: M2BAX 280SMC 2 IMB3/IM1001						
				Product Code: 3GBA281230-ADM						
Rating:										
				V	Hz	kW	r/min	A	cos φ	Duty
3-Motor				690	Y 50	90	2975	90	0,88	S1
Insul.cl.F				400	D 50	90	2975	156	0,88	S1
IP55				660	Y 50	90	2972	93	0,89	S1
				380	D 50	90	2972	162	0,89	S1
				440	D 60	90	3576	143	0,87	S1
Eff class IE3				460	D 60	90	3578	139	0,87	S1
				50Hz: IE3-95,0%(100%)-95,1%(75%)-94,6%(50%)						
				60Hz: IE3-95,0%(100%)						
Resistance				Insulation resistance at 68 °C				Overload		
Line				26970 MΩ 1000 V				Torque 160% 15s		
U ₁ - V ₁										
U ₁ - W ₁										
V ₁ - W ₁										
Ambient: 23 °C										
0,02179 Ω										
0,02175 Ω										
0,02180 Ω										
				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		400,1 D	50	40,5	2,04		3000	0,07		
Locked rotor test		67,5 D	50	154,0	5,28		0	0,29		
Thermal test (100% load)	288,8	400,1 D	50	155,7	94,7	90,0	2975	0,88	95,1	
Partial load points:										
~75% load	216,7	400,1 D	50	119,1	71,0	67,5	2982	0,86	95,1	
~50% load	144,0	400,1 D	50	85,5	47,7	45,0	2989	0,81	94,4	
~25% load	72,5	400,1 D	50	56,8	24,7	22,5	2995	0,63	91,0	
Temperature rise at rated load.				[°C] [K] Method			Measurement method			
Stator winding :				57 1			1 Resistance			
Frame :				31 2			2 Thermometer			
Bearing D-end :				33 2			3 Thermocouples			
Rotor :				70 3						
Ambient Temperature :				25 2						
These tests have been carried out on motor no. 3GF13166412, on date 2013-07-21, which is identical in design with the above. 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 Tested by ABB Oy, Motors and Generators, Vaasa, Finland Telephone +358 10 2211 Telefax +358 10 22 47372										

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