



Type Test Report				Date of issue: 10.6.2014					
				Serial No.: 75035421014001A					
				Type: M3GP 280SMC 2 IMB3/IM1001					
				Product Code: 3GGP281230-ADG					
				Protection type: Ex nA IIC T3 Gc					
				Cert. No.: LCIE 12 ATEX 1008X					
				IECEX LCI 07.0001X					
Rating:									
	V	Hz		kW	r/min	A	cos φ	Duty	
3-Motor	400	D	50	110,0	2978	185	0,9	S1	
Insul.cl.F	690	Y	50	110,0	2978	107	0,9	S1	
IP55	415	D	50	110,0	2980	178	0,9	S1	
Eff class IE2									
50Hz : IE2 - 95,1(100%) - 95(75%) - 94,2(50%)									
Resistance				Insulation resistance at 16 °C		Overload			
Line	Ambient: 16,0 °C			R > 2000 Mohm 1000 V		Voltage 130 % 180s			
U ₁ - V ₁	0,01854 Ω					Torque 160 % 15s			
U ₁ - W ₁	0,01854 Ω					Speed 120 % 120s			
V ₁ - W ₁	0,01856 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		400,4 D	50	43,7	2,48		3000	0,08	
Locked rotor test		63,3 D	50	186,8	6,19		0	0,3	
Thermal test (100% load)	353,3	400 D	50	187,2	116,12	110,00	2973	0,90	94,70
Partial load points:									
~75% load	264,5	400 D	50	142,5	87,08	82,50	2979	0,88	94,70
~50% load	175,9	400 D	50	101,4	58,43	55,00	2986	0,83	94,10
~25% load	87,7	400 D	50	65,2	30,24	27,50	2993	0,67	90,90
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				66,9	1	1 Resistance		1 Resistance	
Frame :				29,9	2	2 Thermometer		2 Thermometer	
Bearing D-end :				29,9	2	3 Thermocouples		3 Thermocouples	
Rotor :					2				
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		21.12.2011			
Tested by ABB Shanghai Motors , LV Motors, Shanghai,P.R.China						Telephone +86 21 54723133		Telefax +86 21 54725009	

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