



Test Report				Date of issue: 29.5.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3BP 250SMA 2					
				Product Code: 3GBP251210-ADK					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	55,0	2975	54,3	0,89	S1		
Insul.cl.F	400	D 50	55,0	2975	93,6	0,89	S1		
IP55	660	Y 50	55,0	2973	56,4	0,90	S1		
	380	D 50	55,0	2973	97,9	0,90	S1		
	415	D 50	55,0	2977	91,3	0,88	S1		
	460	D 60	55,0	3578	81,5	0,89	S1		
Eff class IE3	50Hz : IE3-95,2(100%)-95,4(75%)-95,0(50%) 60Hz : IE3-94,4(100%)								
Resistance				Insulation resistance at 24 °C		Overload			
Line	Ambient: 24,0 °C			R > 2000 Mohm 1000 V		Current 150 % 120s			
U ₁ - V ₁	0,04292 Ω					Torque 160 % 15s			
U ₁ - W ₁	0,04191 Ω					Speed 120 % 120s			
V ₁ - W ₁	0,04293 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		400,3 D	50	24,8	0,92		3000	0,05	
Locked rotor test		70,4 D	50	106,7	4,67		0	0,36	
Thermal test (100% load)	176,5	400 D	50	92,9	57,46	55,00	2976	0,89	95,72
Partial load points:									
~75% load	134,6	400 D	50	72,8	43,83	42,02	2982	0,87	95,87
~50% load	90,8	400 D	50	53,2	29,74	28,41	2989	0,81	95,52
~25% load	46,2	400 D	50	35,4	15,55	14,51	2996	0,63	93,31
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				53,9	1	1 Resistance			
Frame :				29,1	2	2 Thermometer			
Bearing D-end :				31,4	2	3 Thermocouples			
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3GV1110782971002, on date 2011-09-08 which is identical in electrical 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				Date of test					
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden						Telephone +46 (0)21 32 90 00			
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