



Test Report				Date of issue: 29.5.2015						
Customer:				Serial No.:						
Customer ref.:				Order No.:						
				Type: M3KP 250SMA 2						
				Product Code: 3GKP251210-ADK						
				Protection type: Ex de IIB T4 Gb						
				Cert. No.: LCIE 10 ATEX 3063X/						
				IECEX LCI 04.0012X						
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 <sub>1</sub> - V <sub>1</sub>		0,04292 Ω					Torque 160 % 15s			
U <sub>1</sub> - W <sub>1</sub>		0,04191 Ω					Speed 120 % 120s			
V <sub>1</sub> - W <sub>1</sub>		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	53,9	1		1 Resistance		
Frame :				29,1	29,1	2		2 Thermometer		
Bearing D-end :				31,4	31,4	2		3 Thermocouples		
Ambient Temperature :				25	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		Telefax +46 (0)21 32 90 22		

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