



Test Report				Date of issue: 5.6.2014							
				Serial No.: 0845-010576443							
				Type: M3KP 315SMC 4 B3							
				Product Code: 3GKP312230-G							
				Protection type: Ex de IIB T4 Gb							
				Cert. No.: LCIE 11 ATEX 3090X / IECEX LCI 04.0007X							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				400	D	50	1487	284	0,85	S1	
Insul.cl.F				415	D	50	1488	277	0,84	S1	
IP55				690	Y	50	1487	165	0,85	S1	
Eff class IE2				400 V 50Hz : IE2 - 95.6(100%) - 95.6(75%) - 95.1(50%)							
Resistance Line				Ambient: 22,5 °C				Insulation resistance at 68,0 °C		Overload	
U ₁ - V ₁				0,01316 Ω				11000 MΩ		1000 V	
U ₁ - W ₁				0,01317 Ω						Torque 160% 15s	
V ₁ - W ₁				0,01317 Ω							
								High-voltage test winding		1900 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		400,0 D	50	94,7	2,86		1500	0,04			
Locked rotor test		73,6 D	50	286,8	11,2		0	0,31			
Thermal test (100% load)	1028,0	400,1 D	50	285,3	167,1	160,0	1489	0,85	95,7		
Partial load points:											
~75% load	773,4	400,0 D	50	222,8	125,4	120,0	1490	0,81	95,7		
~50% load	516,4	400,0 D	50	165,9	84,0	80,0	1493	0,73	95,2		
~25% load	255,4	400,0 D	50	119,7	43,2	40,0	1495	0,52	92,6		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :					69,3	1		1 Resistance			
Frame :					37,0	2		2 Thermometer			
Bearing D-end :					76,9	2		3 Thermocouples			
Rotor:					102,0	3					
Ambient Temperature :				25,0		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				16.1.2009			
Tested by ABB Oy, Motors and Generators, Vaasa, Finland							Telephone +358 10 2211 Telefax +358 10 22 47372				

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