



Test Report				Date of issue: 6.6.2014							
				Serial No.: 3GF10044324							
				Type: M3KP 355SMA 4 IMV3/IM3031							
				Product Code: 3GKP352210-ADG							
				Protection type: Ex de IIB T4 Gb							
				Cert. No.: LCIE 10 ATEX 3089X / IECEx LCI 04.0008X							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor Insul.cl.F IP55 Ambient temp. -20°C...+45°C				400	D 50	250	1488	437	0,86	S1	
Resistance				Insulation resistance at 55,5 °C					Overload		
Line				12000 MΩ 1000 V					Speed 120 % 120s		
U <sub>1</sub> - V <sub>1</sub>				Ambient: 21,0 °C							
U <sub>1</sub> - W <sub>1</sub>				0,00635 Ω							
V <sub>1</sub> - W <sub>1</sub>				0,00636 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		400,0 D	50	131,3	4,29		1500	0,05			
Locked rotor test		74,1 D	50	437,0	15,6		0	0,28			
Thermal test (100% load)	1605,0	400,1 D	50	441,4	260,7	250,0	1488	0,85	95,9		
Partial load points:											
~75% load	1193,5	400,0 D	50	339,8	195,3	187,5	1491	0,83	96,0		
~50% load	795,2	400,1 D	50	247,7	130,9	125,0	1494	0,76	95,5		
~25% load	407,7	400,1 D	50	171,2	67,2	62,5	1497	0,57	93,0		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				62,3	62,3	1		1 Resistance			
Frame :				25,6	25,6	2		2 Thermometer			
Bearing D-end :				48,2	48,2	2		3 Thermocouples			
Rotor:				96,7	96,7	3					
Ambient Temperature :				25,0	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			19.11.2010				
Tested by ABB Oy, Motors and Generators, Vaasa, Finland								Telephone +358 10 2211 Telefax +358 10 22 47372			

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