



Test Report				Date of issue: 1.12.2015					
				Serial No.: 3GF11094431					
				Order No.: 599608-2					
				Type: M3KP 160MLB 2 IMB3/IM1001					
				Product Code: 3GKP161420-ADH222					
				Protection type: Ex de IIB T4 Gb					
				Cert. No.: LCIE 11 ATEX 3087X / IECEx LCI 09.0008X					
Rating:									
	V	Hz	kW	r/min	A cos φ Duty				
3-Motor	690	Y 50	15	2929	15,5 0,89 S1				
Insul.cl.F	400	D 50	15	2929	26,6 0,89 S1				
IP55	415	D 50	15	2935	26,5 0,86 S1				
Eff class IE2 50Hz : IE2 - 91.2(100%) - 91.9(75%) - 91.4(50%)									
Resistance Line			Ambient: 17,5 °C		Insulation resistance at 31,5 °C 47000 MΩ 1000 V				
U <sub>1</sub> - V <sub>1</sub>			0,32560 Ω		Overload Torque 160 % 15s				
U <sub>1</sub> - W <sub>1</sub>			0,32580 Ω						
V <sub>1</sub> - W <sub>1</sub>			0,32590 Ω						
				High-voltage test winding	2900 V 1 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		400,1 D	50	8,75	0,58		2998	0,10	
Locked rotor test		72,2 D	50	26,6	1,40		0	0,42	
Thermal test ( 100% load )	48,9	399,9 D	50	27,1	16,6	15,0	2933	0,88	90,6
Partial load points:									
~75% load	36,7	400,0 D	50	21,0	12,4	11,3	2954	0,85	91,1
~50% load	24,4	400,0 D	50	15,5	8,31	7,50	2969	0,77	90,2
~25% load	12,2	400,0 D	50	11,0	4,39	3,75	2986	0,58	85,3
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method		
Stator winding :				58,8	58,8	1	1 Resistance		
Frame :				22,0	22,0	2	2 Thermometer		
Bearing D-end :				27,9	27,9	2	3 Thermocouples		
Rotor :				78,2	78,2	3			
Ambient Temperature :				25,0	25,0	2			
Vibration:		↓	→						
D-end		0,90	0,80	Starting current (I <sub>S</sub> / I <sub>N</sub> ) : 7,33					
N-end		0,30	0,40	Locked rotor torque (T <sub>L</sub> / T <sub>N</sub> ) : 2,89					
Axial		0,30		Breakdown torque (T <sub>b</sub> / T <sub>N</sub> ) : 3,55					
				Pull-up torque (T <sub>u</sub> / T <sub>N</sub> ) : 2,45					
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		13.12.2011					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland				Telephone +358 10 2211 Telefax +358 10 22 47372					

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