



Type Test Report				Date of issue: 1.9.2015					
				Motor Type: M3AA180MLA-6 Product Code: 3GAA183410-ADG					
Rating:		V	Hz	kW	r/min	A	$\eta$ [%]	Duty	
3-Motor		690	Y 50	15,0	977	18,00	0,77	S1	
Insul.cl.F		400	D 50	15,0	977	31,0	0,77	S1	
IP55		415	D 50	15,0	979	30,6	0,75	S1	
		440	D 60	15,0	1178	27,6	0,78	S1	
		460	D 60	15,0	1181	27,4	0,75	S1	
Eff class IE2		50Hz : IE2 - 90,5%(100%) - 91,5%(75%) - 91,0%(50%) 60Hz : IE2 - 91,4%(100%)							
Resistance			Ambient: 21,0 °C			Isulation resistans at 26 °C		Overload	
Line			0,4020 $\Omega$			R>2000Mohm 1000 V		Volts 130 % 60s Amp 160 % 120s rpm 120 % 120s	
						High-voltage test winding 2400V 60s			
Test	Torque [Nm]	Line U[V]	f [Hz]	Input I[A]	P1[kW]	Output P2[kW]	n[r/min]	cos $\rho$	$\eta$ [%]
No load test		399 D	50	14,9	0,51		1000	0,05	91,12
Locked rotor test		89 D	50	30,2	1,45		0	0,31	
Thermal test (100% load)		400 D	50	30,5	16,21	14,77	979	0,77	
Partial load points:									
~75% load		400 D	50	25,3	12,52	11,43	984		91,32
~50%load		400 D	50	20,2	8,42	7,66	990		90,89
~25%load		400 D	50	16,6	4,54	3,95	995		87,04
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding* :		50,53			1		1 Resistance		
Frame :		46,3			2		2 Thermometer		
Bearing D-end :		45,6			2		3 Thermocouples		
Ambient Temperature :		22			2				
<p>These tests have been carried out on motor no. 3GV1210926675002, on date 2012-02-05 which is identical in electrical design with the above.</p> <p>Manufactured in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p> <p>On behalf of customer</p> <p>On behalf of manufacturer</p> <p>Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden</p> <p>Telephone +46 (0)21 32 90 00 Telefax +46 (0)21 32 90 22</p>									

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