



Type Test Report					Date of issue: 24.8.2015				
Customer ref.:					Serial No.:				
					Motor Type: M3BP 160MLB 2 Product Code: 3GBP161420-ADG				
Rating:		V	Hz	kW	r/min	A	η [%]	Duty	
3-Motor		690	Y	50	15,00	2934	15,10	0,90 S1	
Insul.cl.F		400	D	50	15,00	2934	26,00	0,91 S1	
IP55		415	D	50	15,00	2941	25,20	0,90 S1	
		440	D	60	15,00	3539	23,50	0,90 S1	
		460	D	60	15,00	3545	22,40	0,90 S1	
Eff class IE2		50Hz : IE2 - 91,5%(100%) - 92,4(75%) - 92,2(50%) 60Hz : IE3 - 91,8%(100%)							
Resistance		Ambient: 20,0 °C			Insulation resistsans at 26 °C		Overload		
Line		U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁			R>2000Mohm		1000V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s
		0,0326 Ω 0,0326 Ω 0,0326 Ω			High-voltage test winding		2400V 60s		
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1[kW]	Output P2[kW]	η [r/min]	cos ρ	η [%]
No load test		400 D	50	7,3	0,548,7		2934	0,11	
Locked rotor test		63 D	50	26,2	1,14		0	0,40	
Thermal test (100% load)	47,8	400 D	50	26,4	16,30	14,70	2935	0,90	90,20
Partial load points:									
~75% load	36,4	400 D	50	20,6	12,44	11,24	2951	0,87	90,40
~50% load	24,0	400 D	50	14,9	8,33	7,45	2967	0,81	89,40
~25% load	11,8	400 D	50	9,7	4,35	3,67	2983	0,63	84,30
Temperature rise at rated load.		[°C]		[K]	Method	Measurement method			
Stator winding ⁺ :				67,9	3	1 Resistance			
Frame :				31,1	3	2 Thermometer			
Bearing D-end :				41,7	3	3 Thermocouples			
Ambient Temperature :		25			3				
These tests have been carried out on motor no. 3GV121090058000, on date 2012-03-16 which is identical in electrical design with the above.									
Manufactured 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				
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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