



Test Report		Date of issue: 29.5.2015							
Customer:		Serial No.:							
Customer ref.:		Order No.:							
		Type: M3BP 250SMA 4							
		Product Code: 3GBP252210-ADK							
Rating:		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y 50	55,0	1485	56,7	0,85	S1	
Insul.cl.F		400	D 50	55,0	1485	97,8	0,85	S1	
IP55		660	Y 50	55,0	1482	58,8	0,86	S1	
		380	D 50	55,0	1482	102,0	0,86	S1	
		415	D 50	55,0	1486	95,2	0,88	S1	
		460	D 60	55,0	1787	85,8	0,89	S1	
Eff class IE3		50Hz : IE3-95,4(100%)-95,9(75%)-95,7(50%) 60Hz : IE3-95,7(100%)							
Resistance		Ambient: 22,1 °C				Insulation resistance at 22,3 °C		Overload	
Line		U <sub>1</sub> - V <sub>1</sub>		0,04910 Ω		R > 2000 Mohm 1000 V		Curren 150 % 120s	
		U <sub>1</sub> - W <sub>1</sub>		0,04895 Ω				Torque 160 % 15s	
		V <sub>1</sub> - W <sub>1</sub>		0,04915 Ω				Speed 120 % 120s	
						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		401,8 D	50	39,1	1,08		1500	0,04	
Locked rotor test		70,6 D	50	104,5	4,61		0	0,36	
Thermal test ( 100% load)	353,7	400 D	50	98,9	57,52	55,00	1485	0,84	95,62
Partial load points:									
~75% load	267,0	400 D	50	78,7	43,44	41,63	1489	0,80	95,83
~50% load	177,0	400 D	50	60,1	28,99	27,67	1493	0,70	95,46
~25% load	89,9	400 D	50	46,5	15,26	14,09	1497	0,47	92,30
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding :		52,1		1	1		1 Resistance		
Frame :		35,3		2	2		2 Thermometer		
Bearing D-end :		37,2		2	2		3 Thermocouples		
Ambient Temperature :		22		2	2				
<p>These tests have been carried out on motor no. 3GV1110649673003, on date 2011-01-21 which is identical in electrical design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p>									
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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