Type Test Report

Date of issue: 2011.09.28

Serial No.: 3GV1010461793001

Customer:

Customer ref.:

Type: M3AA 280SMA 4

Product Code: 3GAA282031-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	75,0	1478	135,0	0,85	S1
Insul.cl.F	690	Y	50	75,0	1478	78,2	0,85	S1
IP55	415	D	50	75,0	1480	133,0	0,83	S1
	460	D	60	75,0	1782	116,0	0,85	S1

Eff class IE2

50Hz : IE2 - 94,3(100%) - 94,9(75%) - 94,5(50%)

60Hz : IE2 - 94,8(100%) - 94,9(75%) - 94,1(50%)

Resistance

Line — Ambient: 24,7 °C

U_1 - V_1	0,04272 Ω
U_1 - W_1	0,04292 Ω
V_1 - W_1	0,04278 Ω

Insulation resistance at 26 °C

R > 2000 Mohm 1000 V

Overload

Current	150 %	120s
Torque	160 %	15s
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		400,8	D	50	400,6	1,45		1500	0,04	
Locked rotor test		72,5	D	50	71,1	5,61		0	0,38	
Thermal test (100% load)	484,9	400	D	50	135,5	79,59	75,00	1477	0,85	94,24
Partial load points:										
~75% load	362,5	400	D	50	105,8	59,51	56,34	1484	0,81	94,67
~50% load	242,4	400	D	50	79,9	40,04	37,82	1490	0,72	94,46
~25% load	122,2	400	D	50	58,6	20,79	19,13	1495	0,51	92,05

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		73,5	1
Frame :		25,6	2
Bearing D-end :		39,3	2
Ambient Temperature :	26		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

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 18.5.2010

Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden

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