Type Test Report

Date of issue: 2014-10-31

Serial No.: 3G1S14461451890001

Customer:

Customer ref.:

Type: M3AA 280SMB 6

Product Code: 3GAA283052-ADK

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	55,0	989	105,0	0,80	S1
Insul.cl.F	690	Y	50	55,0	989	61,1	0,80	S1
IP55	415	D	50	55,0	990	105,0	0,77	S1

Eff class IE3

50Hz : IE3 - 94,1(100%) - 94,6(75%) - 94,1(50%)

Resistance

Line — Ambient: 23,0 °C

U_1 - V_1	0,07257 Ω
U_1 - W_1	0,07262 Ω
V_1 - W_1	0,07256 Ω

Insulation resistance at 21,9 °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		401,6	D	50	44,0	1,26		1000	0,04	
Locked rotor test		86	D	50	107,3	4,90			0,31	
Thermal test (100% load)	531,2	400	D	50	105,4	58,54	55,00	989	0,80	94,0
Partial load points:										
~75% load	397,2	400	D	50	83,4	43,74	41,25	992	0,76	94,3
~50% load	264,0	400	D	50	64,4	29,28	27,50	995	0,66	93,9
~25% load	131,6	400	D	50	49,9	15,12	13,75	998	0,44	91,0

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		62,7	1
Frame :		38,2	2
Bearing D-end :		38,7	2
Ambient Temperature :	22		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 2014-10-27

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

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