Test Report

Date of issue: 16.1.2017

Serial No.: 3GF10043909

Type: M3BP 280SMC 6 IMV1/IM3011
Product Code: 3GBP283230-BDG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	75	990	136	0,84	S1
Insul.cl.F	415	D	50	75	991	133	0,83	S1
IP55	690	Y	50	75	990	79	0,84	S1

Eff class IE2 — 400 V 50Hz : IE2 - 94.2(100%) - 94.5(75%) - 94,1(50%)

Resistance
Line — Ambient: 21,5 °C
U_1 - V_1 0,04006 Ω
U_1 - W_1 0,04007 Ω
V_1 - W_1 0,04009 Ω

Insulation resistance at 54,0 °C
2400 MΩ 1000 V

Overload
Torque 160% 15s

High-voltage test winding 1900 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		400,1	D	50	42,4	1,53		1000	0,05	
Locked rotor test		86,4	D	50	136,0	6,49		0	0,35	
Thermal test (100% load)	723,5	400,1	D	50	137,4	80,2	75,0	988	0,84	93,5
Partial load points:										
~75% load	541,8	400,1	D	50	105,3	59,8	56,3	992	0,82	94,1
~50% load	360,1	400,1	D	50	76,6	39,9	37,5	994	0,75	93,9
~25% load	180,0	400,0	D	50	53,1	20,5	18,8	997	0,56	91,4

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		76,1	1
Frame :		54,7	2
Bearing D-end :		54,9	2
Ambient Temperature :	25,0		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 15.10.2010

Tested by ABB Oy, Motors and Generators, Vaasa, Finland

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