Type Test Report

Date of issue: 2020/11/24

Serial No.:

Customer:

Customer ref.:

Type: M2BAX 132SMA 4 IMB3/IM1001
Product Code: 3GBA132210-ASD
Protection type: IP55
Cert. No.:

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	S	50	5.5	1461	11.1	0.80	S1

Insul.cl.F
IP55

Eff class IE3

50Hz : IE3-89,6(100%)-90,1(75%)-89,8(50%)

Resistance
Line — Ambient: 20.0 °C

U_1 - V_1	1.21878	Ω
U_1 - W_1	1.21939	Ω
V_1 - W_1	1.21817	Ω

Insulation resistance at 18 °C
R > 2000 Mohm 1000 V

Overload

Voltage	130%	180s
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	D	50	4.70	0.19		1458	0.06	
Locked rotor test		66	D	50	10.50	0.44			0.36	
Thermal test (100% load)	36.00	400	D	50	10.90	6.09	5.50	1459	0.81	90.40
Partial load points:										
~75% load	26.78	400	D	50	8.65	4.54	4.12	1469	0.76	90.90
~50% load	17.74	400	D	50	6.75	3.03	2.75	1480	0.65	90.80
~25% load	8.78	400	D	50	5.32	1.57	1.37	1490	0.43	87.40

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		35.4	1
Frame :		18.8	2
Bearing D-end :		17.5	2
Rotor :			2
Ambient Temperature :	18		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 2020/11/24

Tested by ABB Shanghai Motors , LV Motors, Shanghai,P.R.China

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