

## Test Report 2.2 - Type Test (EN 10204)

### Rated data

Voltage	V	400	690	460
Connection		D	Y	D
Frequency	Hz	50	50	60
Current	A	265	154	230
Output power	kW	160	160	160
Power factor	-	0,91	0,91	0,91
Efficiency	%	95,6	95,6	95,4
Speed	1/min	2980	2980	3584
IE Class		IE3	IE3	IE3

Kind of el. machinery	3~Mot.	1CD3314A	Cooling medium	Air
Article No.	1MB5553-3AA43-4, 1MB5563-3AA43-4		Quantity of medium	
Standard	IEC/EN 60034		Ambient temperature	-20 °C ... 40 °C
Frame size	315M		Installation altitude	≤ 1000 m
Type of construction	IMB3		Bearing drive end	6316 C3
Degree of protection	IP55		Bearing non drive end	6316 C3
Weight	1300 kg		Vibration grade	A
Thermal class	155 (F)		Duty Type	S1

We confirm that electrical tests on the machine have been performed in accordance with the relevant standards and results are satisfactory. This electronically generated report is also valid without a handwritten signature.

### Performance test

According to IEC/EN 60034-1	Passed
Thermal performance test	Momentary excess torque
Resistance of windings	Overspeed test
Resistance of temperature detectors	Measurement of shaft voltage
Withstand voltage test	
Ocassional excess current	

### Insulation resistance test

According to IEC/EN 60204-1	Passed
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### Vibration test


According to IEC 60034-14	Passed
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### Noise test

According to IEC/EN 60034-9	Passed
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### Speed-torque and speed-current characteristics

According to IEC/EN 60034-12	Passed
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## Efficiency test

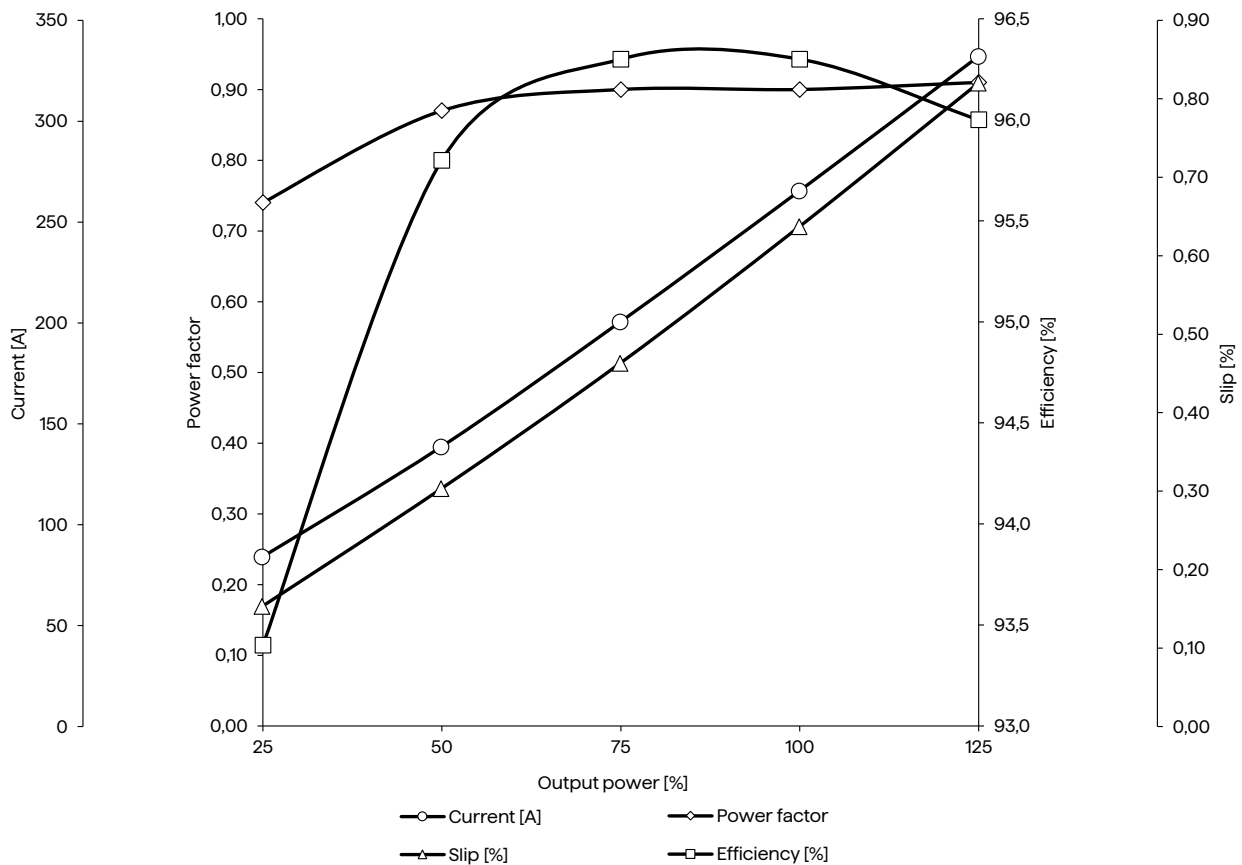
According to IEC/EN 60034-2-1

Passed

Voltage	V	400
Connection		D
Frequency	Hz	50
Output power	kW	160

Test		No-load	Partial load				
Output power	%		25	50	75	100	125
Current	A	48,5	84	138,6	200,5	265,4	332,1
Input power	kW	2,581	42,81	83,47	124,6	166,2	208,4
Output power	kW		40	80	120	160	200
Power factor	-	0,077	0,74	0,87	0,9	0,9	0,91
Efficiency	%		93,4	95,8	96,3	96,3	96
Speed	1/min	3000	2995	2991	2986	2981	2975
Slip	%		0,153	0,303	0,463	0,637	0,82
Torque	Nm		127,5	255,4	383,7	512,6	641,9

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## Efficiency test

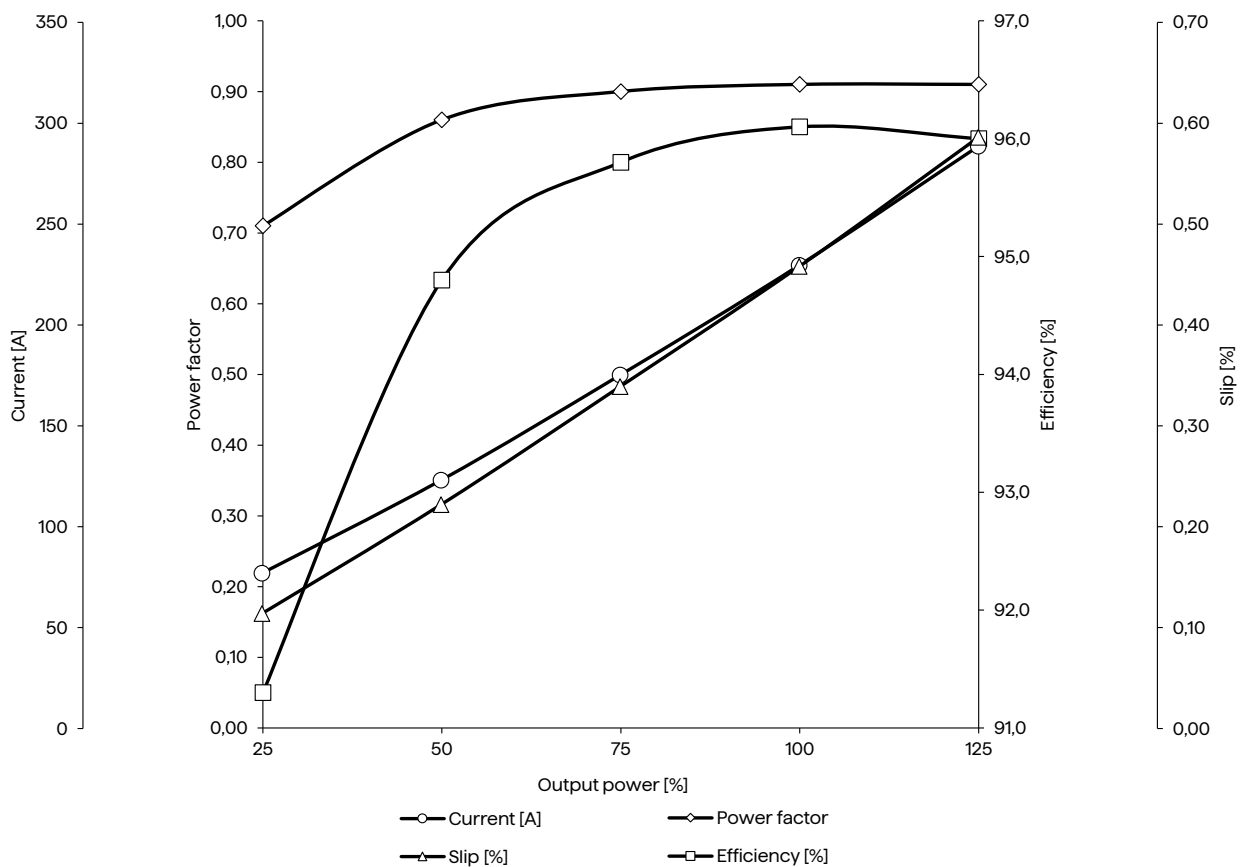
According to IEC/EN 60034-2-1

Passed

Voltage	V	460
Connection		D
Frequency	Hz	60
Output power	kW	160

Test		No-load	Partial load				
Output power	%		25	50	75	100	125
Current	A	47	77,01	123,1	175,2	229,6	288,6
Input power	kW	3,634	43,82	84,36	125,3	166,5	208,3
Output power	kW		40	80	120	160	200
Power factor	-	0,097	0,71	0,86	0,9	0,91	0,91
Efficiency	%		91,3	94,8	95,8	96,1	96
Speed	1/min	3600	3596	3592	3588	3584	3579
Slip	%		0,114	0,222	0,339	0,458	0,586
Torque	Nm		106,2	212,7	319,4	426,4	533,6

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