

Type Test Report

Report No.: TTR3IC32001A2SL

Test Result Data

Nameplate data

Type:	HMC3 200L2-6	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	44.17 A	Frequency:	50 Hz
Output:	22 kW	Efficiency.:	92.5 %
Connection:	D	Cos ϕ :	0.79
Speed:	984 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	926.84 W	No load current:	23.32 A
Machine loss:	102.52 W	Core loss:	614.62 W
Sound pressure level 1m:	68.9 dB(A)	Vibration:	0.7 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	44.17 A
Power:	22.00 kW	Temperature - rise:	72 K
Winding hotspot temperature:	83 °C	Bearing temperature:	48 °C
Frequency:	50 Hz	Ambient temperature:	29 °C

Load performance test

Load %	Un V	f Hz	P1 KW	I1 A	N rpm	T Nm	Cos ϕ Cos ϕ	Eff (η) %
125	400	50	29.92	53.52	980	267.90	0.81	91.61
100	400	50	24.08	44.17	984	213.56	0.79	92.53
75	400	50	18.00	35.99	988	159.51	0.72	92.55
50	400	50	12.04	29.29	992	105.89	0.59	90.20
25	400	50	6.46	24.41	996	52.73	0.38	83.83

Locked rotor test at rated voltage

Input power:	91.9 kW	Cos ϕ :	0.43
Starting current:	306.89 A	Starting torque:	435.70 Nm
Starting/Rated current:	6.95	Starting/Rated torque:	2.04

6/19/2017

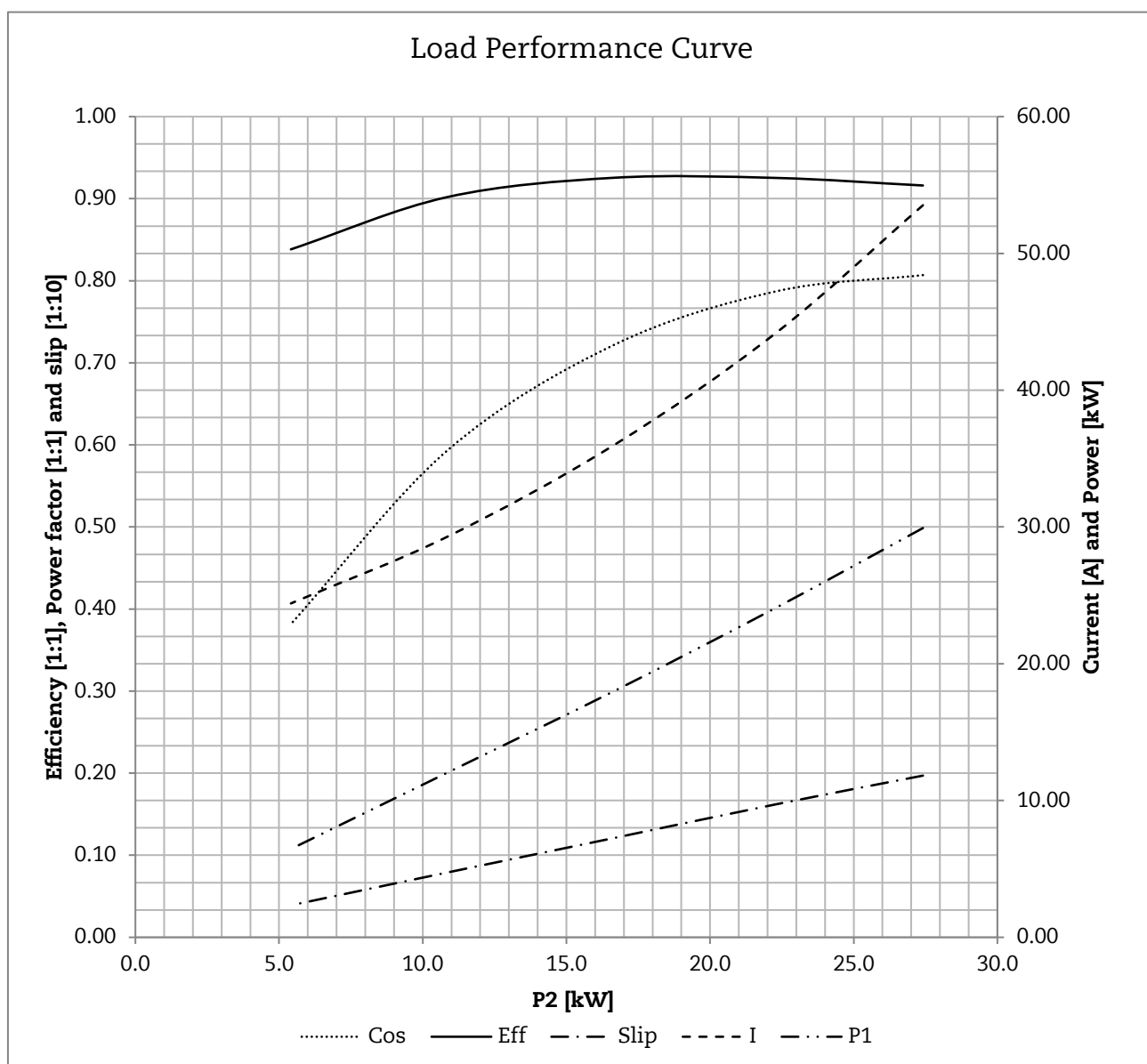
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
27.4	29.9	0.916	53.52	267.9	0.81
22.3	24.1	0.925	44.17	213.6	0.79
16.7	18.0	0.926	35.99	159.5	0.72
10.9	12.0	0.902	29.29	105.9	0.59
5.4	6.5	0.838	24.41	52.7	0.38



No-load test data at rated frequency

Uo V	Io A	Po W	Pcul.
495.2	47.65	2740.0	814.4
464.3	36.53	1750.0	478.6
417.0	25.06	980.0	225.2
381.5	20.32	730.0	148.1
340.5	15.93	550.0	91.0
302.7	13.44	440.0	64.8
260.2	11.59	350.0	48.2
221.9	9.37	280.0	31.5
181.4	7.48	230.0	20.1
140.1	6.09	160.0	13.3

