

Type Test Report

Report No.: TTR3IC22000A2SL

Test Result Data

Nameplate data

Type:	HMC3 200L-4	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	53.23 A	Frequency:	50 Hz
Output:	30 kW	Efficiency.:	93.6 %
Connection:	D	Cos ϕ :	0.87
Speed:	1479 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	837.56 W	No load current:	20.28 A
Machine loss:	193.3 W	Core loss:	554.55 W
Sound pressure level 1m:	61.7 dB(A)	Vibration:	0.7 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	53.23 A
Power:	30.00 kW	Temperature - rise:	57 K
Winding hotspot temperature:	79 °C	Bearing temperature:	13 °C
Frequency:	50 Hz	Ambient temperature:	22 °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	40.26	65.66	1472	243.22	0.89	93.14
100	400	50	32.04	53.23	1479	193.77	0.87	93.64
75	400	50	24.00	41.77	1485	144.74	0.83	93.77
50	400	50	16.13	31.78	1490	96.14	0.73	93.01
25	400	50	8.42	23.77	1494	47.94	0.51	89.02

Locked rotor test at rated voltage

Input power:	129.3 kW	Cos ϕ :	0.43
Starting current:	436.78 A	Starting torque:	557.20 Nm
Starting/Rated current:	8.21	Starting/Rated torque:	2.88

6/19/2017

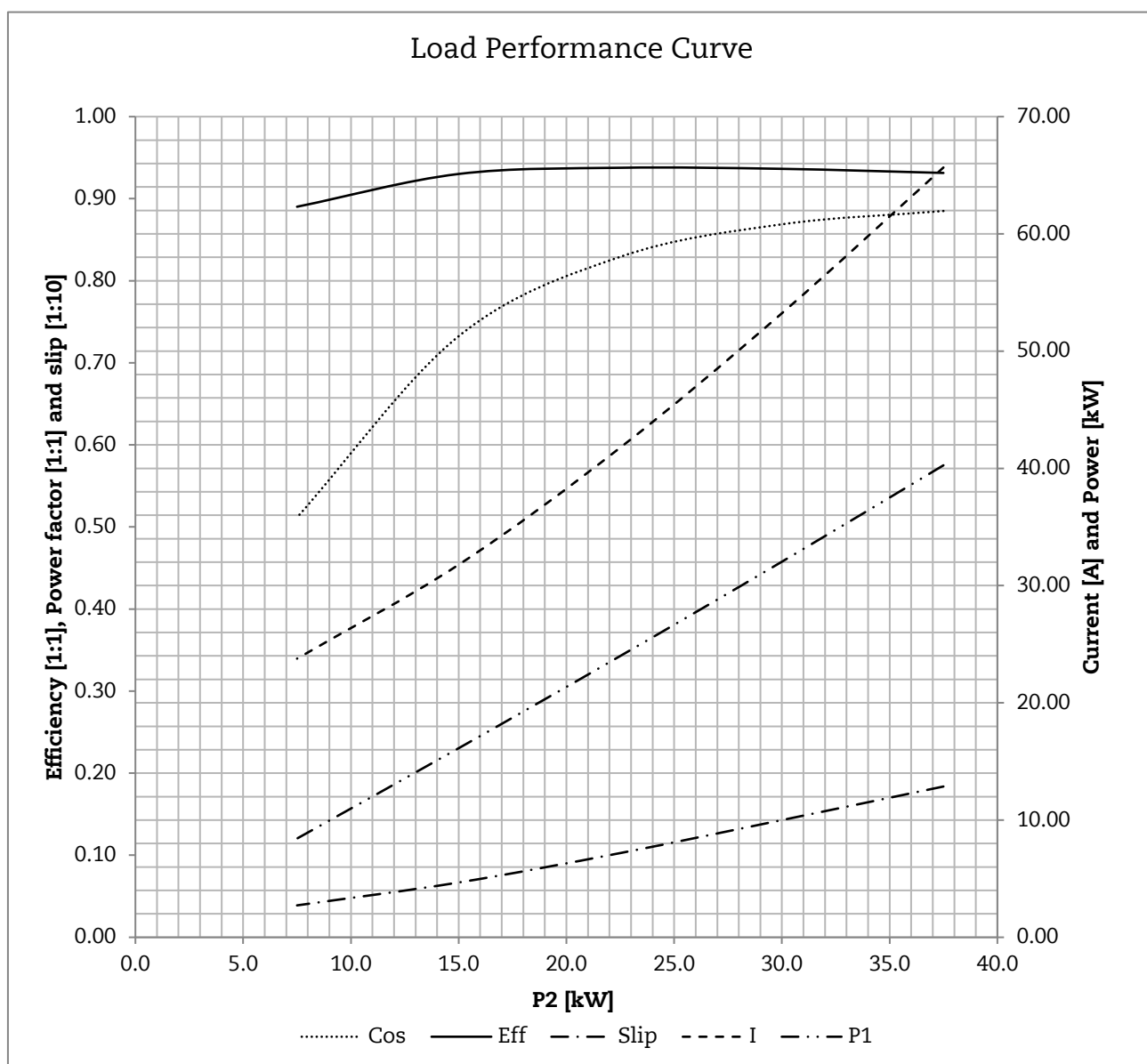
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
37.5	40.3	0.931	65.66	243.2	0.89
30.0	32.0	0.936	53.23	193.8	0.87
22.5	24.0	0.938	41.77	144.7	0.83
15.0	16.1	0.930	31.78	96.1	0.73
7.5	8.4	0.890	23.77	47.9	0.51



No-load test data at rated frequency

U _o V	I _o A	P _o W	P _{cul.}
499.8	35.32	1890.0	272.2
456.5	26.36	1240.0	151.6
415.4	21.64	930.0	102.2
396.4	19.77	820.0	85.3
375.3	18.74	710.0	76.6
335.1	16.24	570.0	57.5
299.4	14.21	480.0	44.1
254.5	11.98	410.0	31.3
224.0	10.38	360.0	23.5
200.9	9.25	320.0	18.7

