

Type Test Report

Report No.: TTR3IC12000A2SL

Test Result Data

Nameplate data

Type:	HMC3 200L1-2	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	50.74 A	Frequency:	50 Hz
Output:	30 kW	Efficiency.:	94.3 %
Connection:	D	Cos ϕ :	0.91
Speed:	2971 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	849.18 W	No load current:	13.30 A
Machine loss:	341.79 W	Core loss:	470.95 W
Sound pressure level 1m:	81.2 dB(A)	Vibration:	0.8 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	50.74 A
Power:	30.00 kW	Temperature - rise:	51 K
Winding hotspot temperature:	78 °C	Bearing temperature:	51 °C
Frequency:	50 Hz	Ambient temperature:	27 °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	38.99	63.53	2963	120.87	0.89	92.98
100	400	50	32.12	50.74	2971	96.44	0.91	94.26
75	400	50	24.24	38.83	2978	72.14	0.90	94.48
50	400	50	16.03	28.00	2986	47.98	0.83	93.00
25	400	50	8.28	18.68	2992	23.94	0.64	88.29

Locked rotor test at rated voltage

Input power:	129.0 kW	Cos ϕ :	0.43
Starting current:	432.70 A	Starting torque:	279.45 Nm
Starting/Rated current:	8.53	Starting/Rated torque:	2.90

6/19/2017

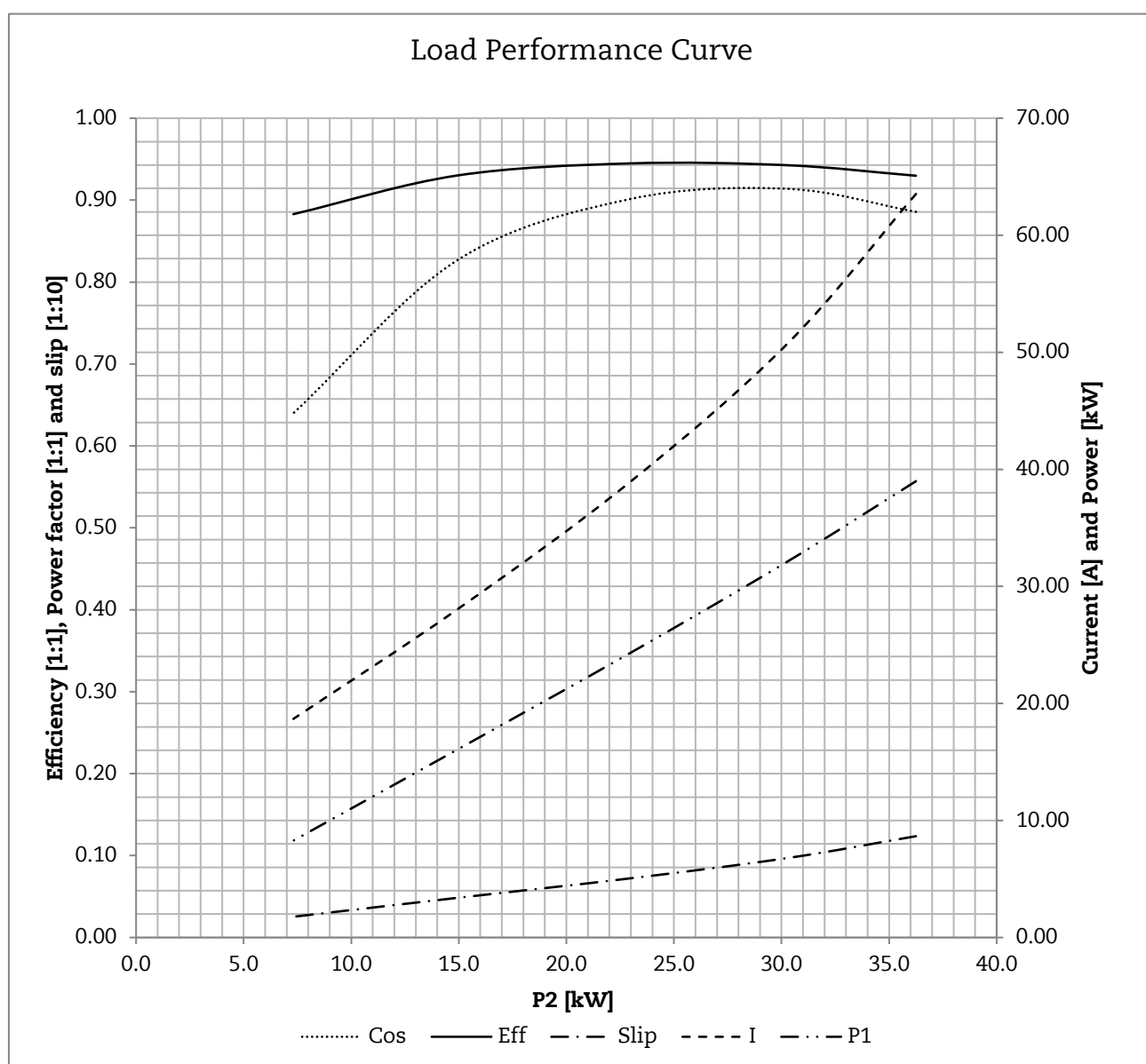
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
36.3	39.0	0.930	63.53	120.9	0.89
30.3	32.1	0.943	50.74	96.4	0.91
22.9	24.2	0.945	38.83	72.1	0.90
14.9	16.0	0.930	28.00	48.0	0.83
7.3	8.3	0.883	18.68	23.9	0.64



No-load test data at rated frequency

U _o V	I _o A	P _o W	P _{cul.}
495.3	26.75	1740.0	151.9
454.4	18.49	1140.0	72.6
413.8	14.28	930.0	43.3
372.7	11.89	760.0	30.0
331.9	10.09	690.0	21.6
291.6	8.77	640.0	16.3
251.8	7.31	550.0	11.3
220.5	6.57	510.0	9.2
190.6	5.61	480.0	6.7
160.0	4.71	440.0	4.7

