

Type Test Report

Report No.: TTR3IC12001A2SL

Test Result Data

Nameplate data

Type:	HMC3 200L2-2	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	62.41 A	Frequency:	50 Hz
Output:	37 kW	Efficiency.:	93.7 %
Connection:	D	Cos ϕ :	0.91
Speed:	2972 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	1107.56 W	No load current:	16.24 A
Machine loss:	461.54 W	Core loss:	606.45 W
Sound pressure level 1m:	82.3 dB(A)	Vibration:	0.6 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	62.41 A
Power:	37.00 kW	Temperature - rise:	56 K
Winding hotspot temperature:	67 °C	Bearing temperature:	44 °C
Frequency:	50 Hz	Ambient temperature:	12 °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	49.53	77.91	2964	149.01	0.92	93.37
100	400	50	39.46	62.41	2972	118.89	0.91	93.75
75	400	50	29.61	47.82	2979	88.95	0.89	93.72
50	400	50	19.94	34.45	2986	59.16	0.84	92.77
25	400	50	10.44	22.65	2993	29.52	0.67	88.62

Locked rotor test at rated voltage

Input power:	198.7 kW	Cos ϕ :	0.51
Starting current:	564.08 A	Starting torque:	431.08 Nm
Starting/Rated current:	9.04	Starting/Rated torque:	3.63

6/19/2017

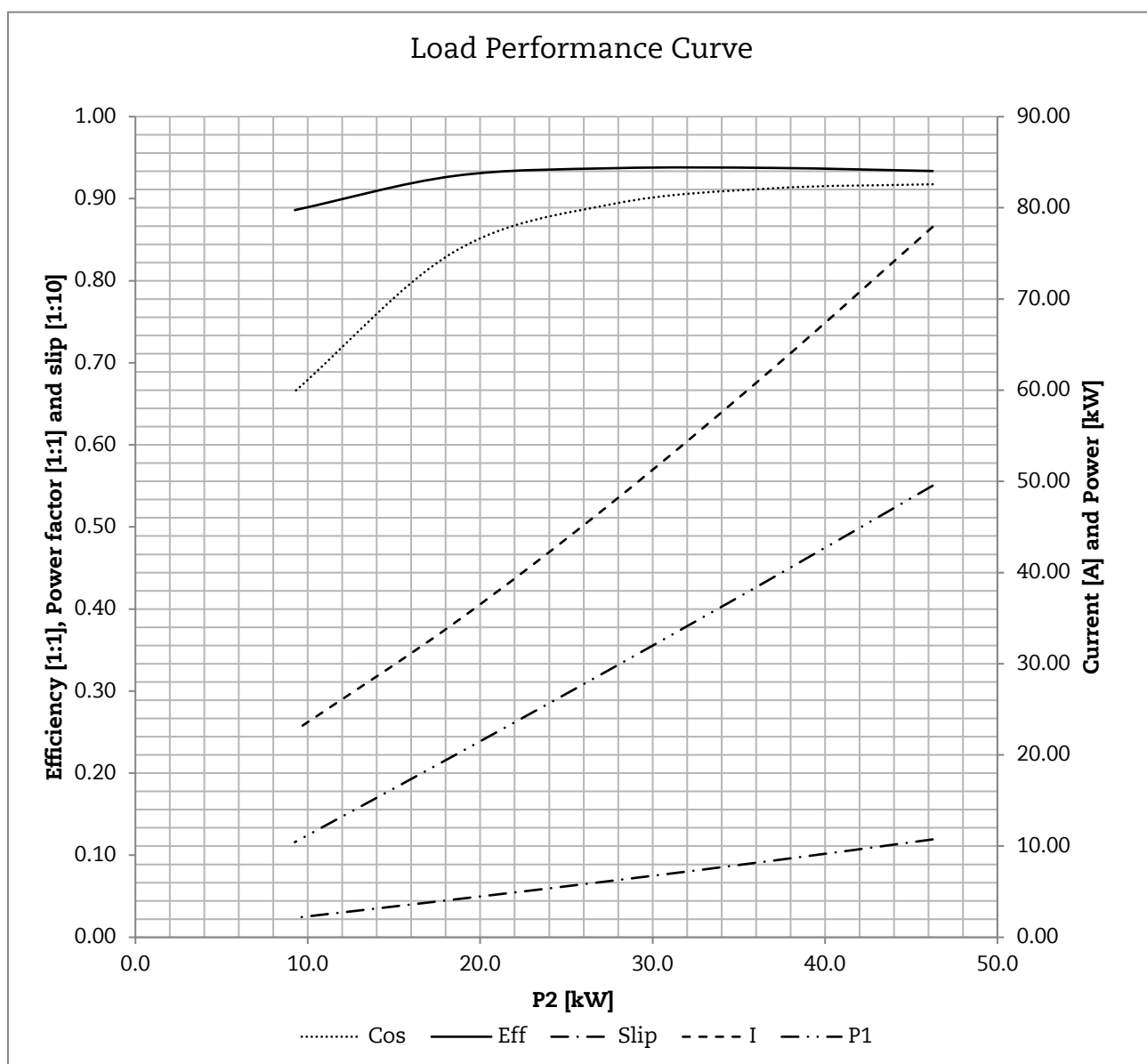
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
46.2	49.5	0.934	77.91	149.0	0.92
37.0	39.5	0.937	62.41	118.9	0.91
27.8	29.6	0.937	47.82	89.0	0.89
18.5	19.9	0.928	34.45	59.2	0.84
9.2	10.4	0.886	22.65	29.5	0.67



No-load test data at rated frequency

Uo V	Io A	Po W	Pcul.
499.6	34.36	2100.0	177.1
454.8	22.47	1410.0	75.7
415.2	17.50	1180.0	45.9
374.8	14.55	1000.0	31.8
334.0	12.52	850.0	23.5
293.8	10.73	770.0	17.3
253.7	9.34	700.0	13.1
223.0	8.11	640.0	9.9
193.9	6.95	590.0	7.2
163.6	5.97	550.0	5.3

