

Type Test Report

Report No.: TTR3IC32250A2SL

Test Result Data

Nameplate data

Type:	HMC3 225M-6	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	58.40 A	Frequency:	50 Hz
Output:	30 kW	Efficiency.:	93.1 %
Connection:	D	Cos ϕ :	0.80
Speed:	986 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	831.04 W	No load current:	25.84 A
Machine loss:	76.92 W	Core loss:	581.34 W
Sound pressure level 1m:	69.5 dB(A)	Vibration:	0.4 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	58.40 A
Power:	30.00 kW	Temperature - rise:	76 K
Winding hotspot temperature:	105 °C	Bearing temperature:	78 °C
Frequency:	50 Hz	Ambient temperature:	28 °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	40.61	71.77	981	364.90	0.82	92.33
100	400	50	32.45	58.40	986	290.63	0.80	93.06
75	400	50	24.11	46.26	990	217.10	0.75	93.33
50	400	50	16.20	36.12	993	144.21	0.65	92.63
25	400	50	8.46	28.77	997	71.86	0.42	88.62

Locked rotor test at rated voltage

Input power:	88.3 kW	Cos ϕ :	0.38
Starting current:	339.76 A	Starting torque:	527.60 Nm
Starting/Rated current:	5.82	Starting/Rated torque:	1.82

6/19/2017

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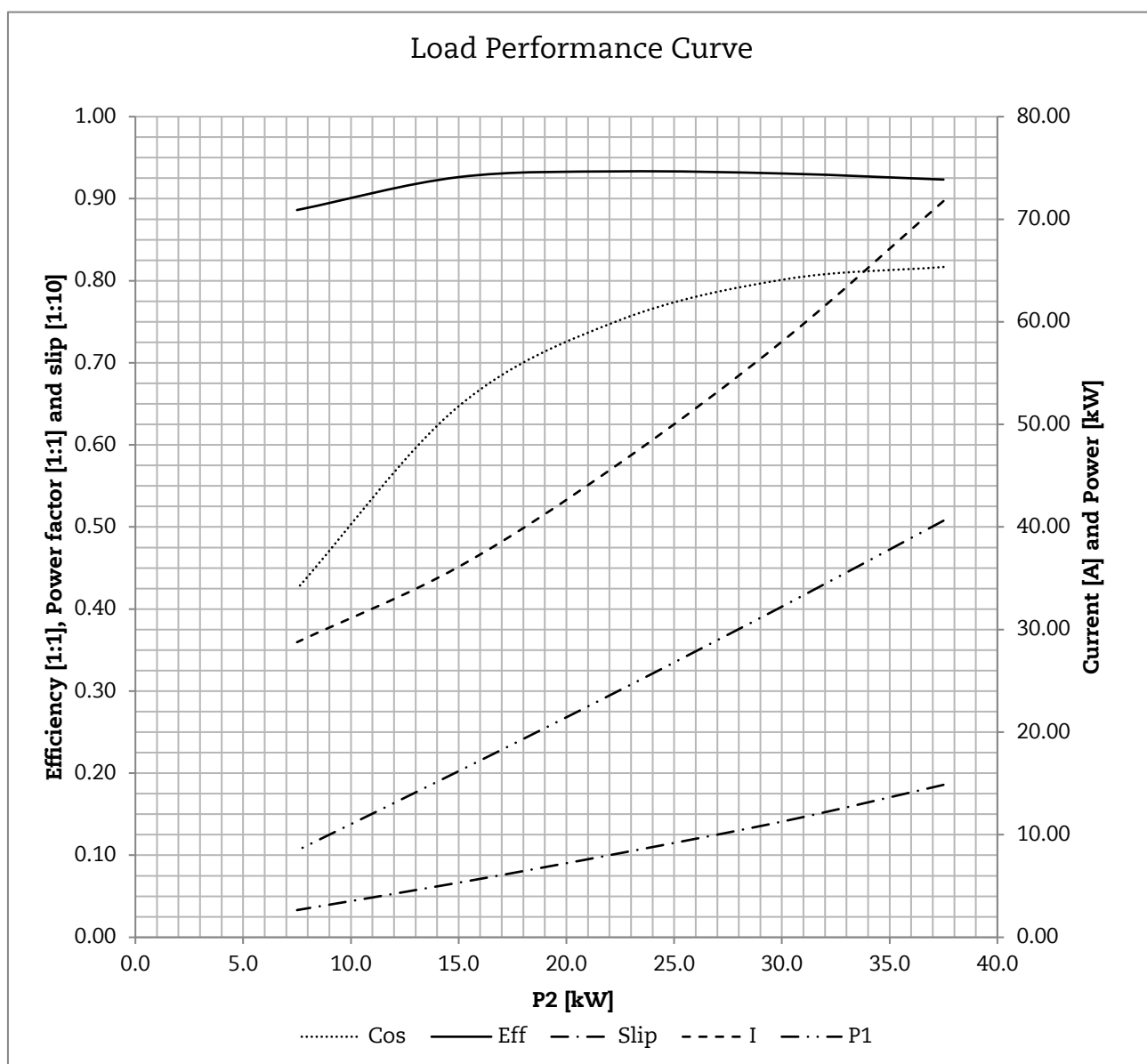
Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

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P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
37.5	40.6	0.923	71.77	364.9	0.82
30.2	32.4	0.931	58.40	290.6	0.80
22.5	24.1	0.933	46.26	217.1	0.75
15.0	16.2	0.926	36.12	144.2	0.65
7.5	8.5	0.886	28.77	71.9	0.42



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No-load test data at rated frequency

Uo V	Io A	Po W	Pcul.
495.1	59.74	3284.0	923.4
464.4	44.98	1990.0	523.5
424.0	31.42	1109.0	255.4
383.2	22.83	697.0	134.9
343.3	18.07	510.0	84.5
302.6	14.86	386.0	57.1
262.2	12.36	292.0	39.5
222.1	9.59	234.0	23.8
181.5	7.58	177.0	14.9
141.2	5.76	142.0	8.6

