

Type Test Report

Report No.: TTR3IA21320A2SL

Test Result Data

Nameplate data

Type:	HMA3 132S-4	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	10.74 A	Frequency:	50 Hz
Output:	5.5 kW	Efficiency.:	89.7 %
Connection:	D	Cos ϕ :	0.82
Speed:	1465 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	249.8 W	No load current:	5.09 A
Machine loss:	35.1 W	Core loss:	159.5 W
Sound pressure level 1m:	61 dB(A)	Vibration:	0.9 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	10.74 A
Power:	5.50 kW	Temperature - rise:	49 K
Winding hotspot temperature:	74 °C	Bearing temperature:	67 °C
Frequency:	50 Hz	Ambient temperature:	24 °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	7.74	13.20	1455	45.14	0.85	88.85
100	400	50	6.13	10.74	1465	35.86	0.82	89.68
75	400	50	4.58	8.65	1475	26.71	0.77	89.99
50	400	50	3.09	6.92	1484	17.70	0.64	88.97
25	400	50	1.66	5.57	1492	8.80	0.43	83.12

Locked rotor test at rated voltage

Input power:	38.3 kW	Cos ϕ :	0.59
Starting current:	94.11 A	Starting torque:	100.86 Nm
Starting/Rated current:	8.76	Starting/Rated torque:	2.81

6/19/2017

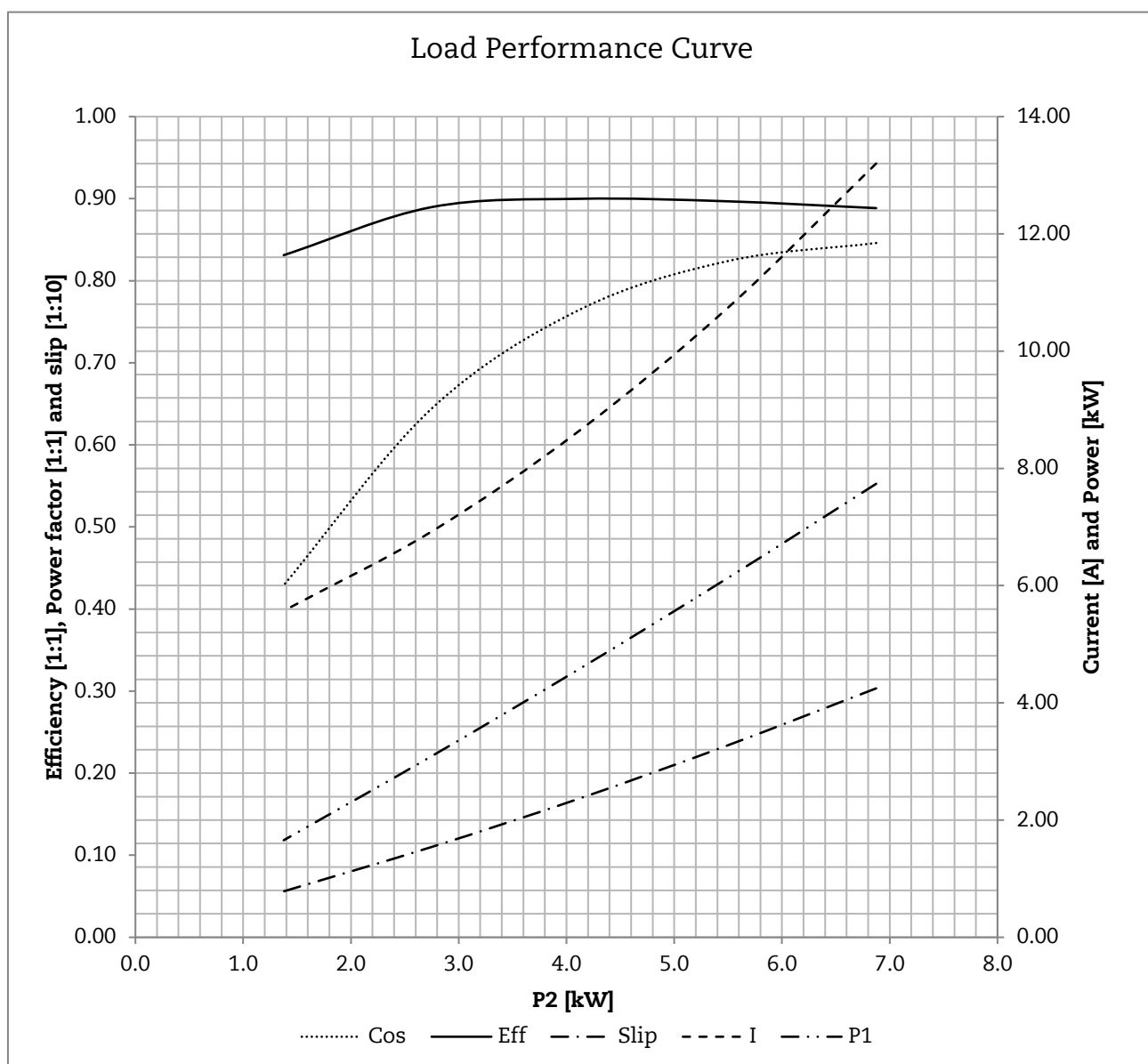
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
6.9	7.7	0.889	13.20	45.1	0.85
5.5	6.1	0.897	10.74	35.9	0.82
4.1	4.6	0.900	8.65	26.7	0.77
2.7	3.1	0.890	6.92	17.7	0.64
1.4	1.7	0.831	5.57	8.8	0.43



No-load test data at rated frequency

Uo V	Io A	Po W	Pcul.
499.9	11.35	633.0	289.1
439.1	6.61	342.0	98.0
399.1	5.05	251.0	57.2
319.3	3.53	153.0	28.0
280.0	3.02	127.0	20.5
239.7	2.52	104.0	14.2
199.9	2.07	85.0	9.6
160.1	1.63	63.0	6.0
120.0	1.23	50.0	3.4
100.0	1.05	41.0	0.9

