

Type Test Report

Report No.: TTR3IA21321A2SL

Test Result Data

Nameplate data

Type:	HMA3 132M-4	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	14.00 A	Frequency:	50 Hz
Output:	7.5 kW	Efficiency.:	90.5 %
Connection:	D	Cos ϕ :	0.85
Speed:	1462 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	247.8 W	No load current:	5.70 A
Machine loss:	49.1 W	Core loss:	147.3 W
Sound pressure level 1m:	61 dB(A)	Vibration:	0.8 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	14.00 A
Power:	7.50 kW	Temperature - rise:	54 K
Winding hotspot temperature:	67 °C	Bearing temperature:	58 °C
Frequency:	50 Hz	Ambient temperature:	13 °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	10.49	17.41	1452	61.68	0.87	89.39
100	400	50	8.28	14.00	1462	48.98	0.85	90.50
75	400	50	6.16	11.04	1473	36.48	0.81	91.22
50	400	50	4.12	8.52	1482	24.16	0.70	90.92
25	400	50	2.16	6.45	1492	12.00	0.48	86.77

Locked rotor test at rated voltage

Input power:	47.9 kW	Cos ϕ :	0.56
Starting current:	123.45 A	Starting torque:	142.61 Nm
Starting/Rated current:	8.82	Starting/Rated torque:	2.91

6/19/2017

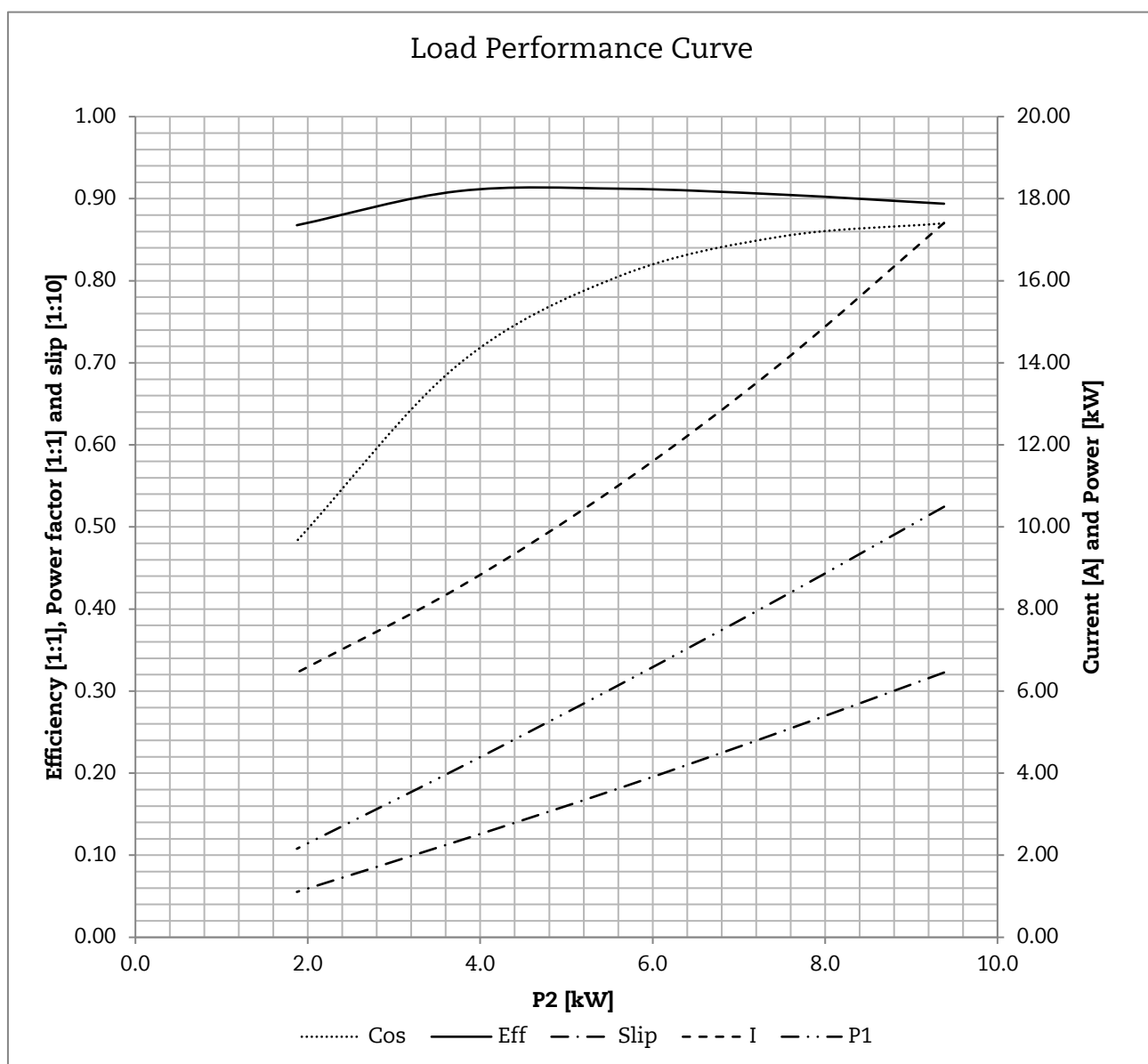
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
9.4	10.5	0.894	17.41	61.7	0.87
7.5	8.3	0.905	14.00	49.0	0.85
5.6	6.2	0.912	11.04	36.5	0.81
3.7	4.1	0.909	8.52	24.2	0.70
1.9	2.2	0.868	6.45	12.0	0.48



No-load test data at rated frequency

U _o V	I _o A	P _o W	P _{cul.}
500.0	11.65	536.0	217.8
439.4	7.15	322.0	82.0
399.5	5.69	243.0	52.0
319.8	4.13	168.0	27.4
280.0	3.54	138.0	20.1
239.8	2.97	113.0	14.2
200.0	2.44	92.0	9.6
159.9	1.93	80.0	6.0
119.9	1.46	63.0	3.4
100.0	1.24	59.0	1.3

