

Type Test Report

Report No.: TTR3IC13550A2SL

Test Result Data

Nameplate data

Type:	HMC3 355M-2	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	418.97 A	Frequency:	50 Hz
Output:	250 kW	Efficiency.:	95.8 %
Connection:	D	Cos ϕ :	0.90
Speed:	2979 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	3887.86 W	No load current:	116.65 A
Machine loss:	1088 W	Core loss:	2660.8 W
Sound pressure level 1m:	90.2 dB(A)	Vibration:	0.8 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	418.97 A
Power:	250.00 kW	Temperature - rise:	78 K
Winding hotspot temperature:	112 °C	Bearing temperature:	73 °C
Frequency:	50 Hz	Ambient temperature:	34 °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	321.60	528.17	2973	1003.96	0.88	95.00
100	400	50	262.28	418.97	2979	801.52	0.90	95.81
75	400	50	195.93	316.87	2984	599.99	0.89	96.02
50	400	50	129.42	222.17	2990	399.29	0.84	95.55
25	400	50	69.63	135.27	2995	199.32	0.74	94.32

Locked rotor test at rated voltage

Input power:	605.9 kW	Cos ϕ :	0.31
Starting current:	2800.81 A	Starting torque:	1372.59 Nm
Starting/Rated current:	6.68	Starting/Rated torque:	1.71

6/19/2017

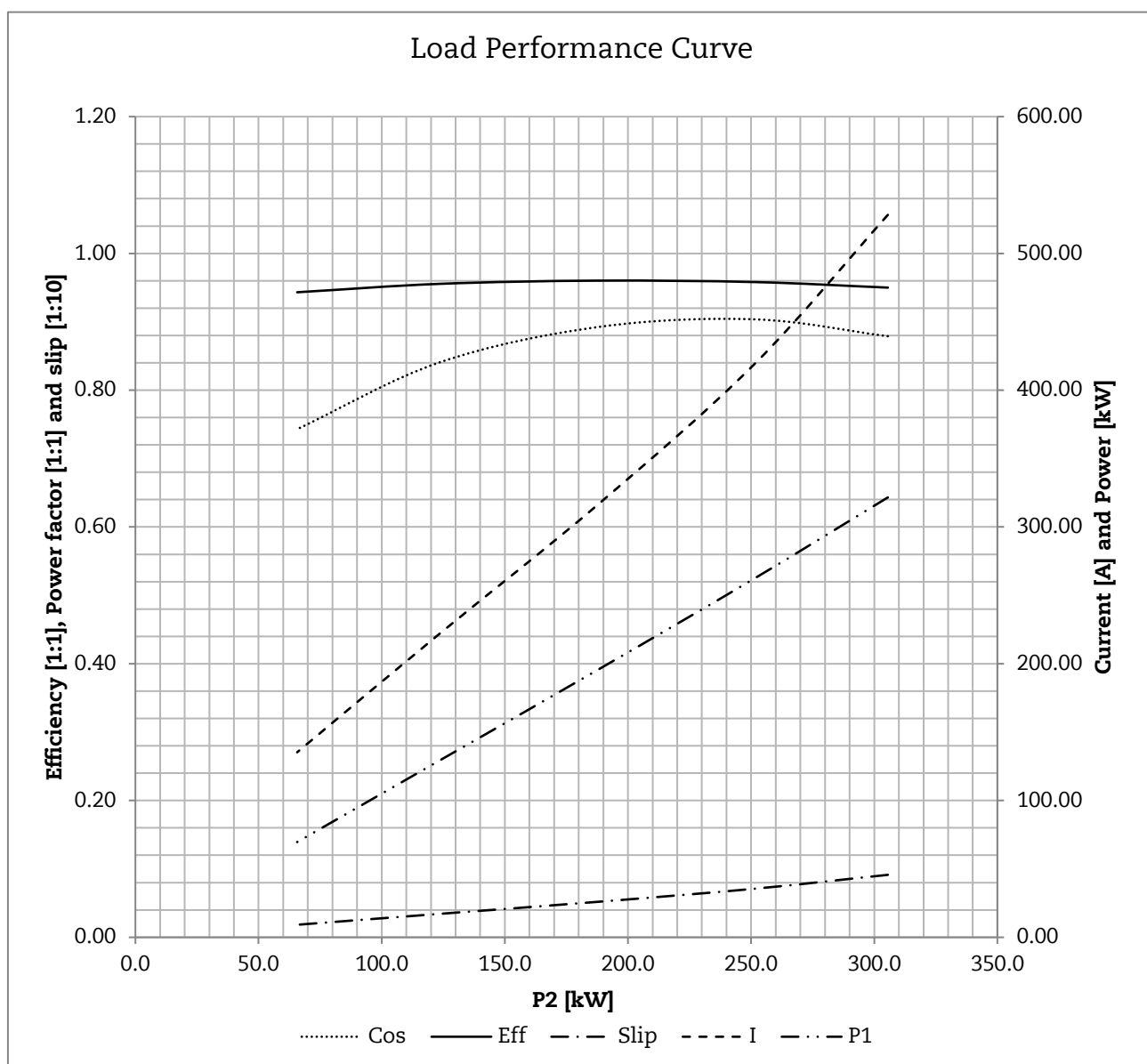
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
305.5	321.6	0.950	528.17	1004.0	0.88
251.3	262.3	0.958	418.97	801.5	0.90
188.1	195.9	0.960	316.87	600.0	0.89
123.7	129.4	0.956	222.17	399.3	0.84
65.7	69.6	0.943	135.27	199.3	0.74



No-load test data at rated frequency

Uo V	Io A	Po W	Pcul.
499.4	301.40	12000.0	819.4
464.4	206.30	6600.0	383.9
419.4	125.00	4210.0	140.9
382.2	92.10	3150.0	76.5
338.6	85.20	2800.0	65.5
303.0	75.30	2400.0	51.1
258.9	71.50	2200.0	46.1
219.0	65.30	2100.0	38.5
180.8	62.50	1850.0	35.2
140.0	61.90	1550.0	34.6

