

Type Test Report

Report No.: TTR3IC23550A2SL

Test Result Data

Nameplate data

Type:	HMC3 355M-4	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	419.39 A	Frequency:	50 Hz
Output:	250 kW	Efficiency.:	96.2 %
Connection:	D	Cos ϕ :	0.90
Speed:	1492 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	3705.52 W	No load current:	113.12 A
Machine loss:	671.02 W	Core loss:	2831.49 W
Sound pressure level 1m:	93.5 dB(A)	Vibration:	0.5 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	419.39 A
Power:	250.00 kW	Temperature - rise:	61 K
Winding hotspot temperature:	89 °C	Bearing temperature:	48 °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	323.37	527.35	1490	2003.34	0.89	95.60
100	400	50	261.82	419.39	1492	1599.99	0.90	96.20
75	400	50	194.83	319.42	1494	1198.30	0.88	96.30
50	400	50	128.83	227.88	1496	797.85	0.82	95.81
25	400	50	70.88	144.88	1498	398.53	0.71	94.71

Locked rotor test at rated voltage

Input power:	604.5 kW	Cos ϕ :	0.32
Starting current:	2695.29 A	Starting torque:	2967.31 Nm
Starting/Rated current:	6.43	Starting/Rated torque:	1.85

6/19/2017

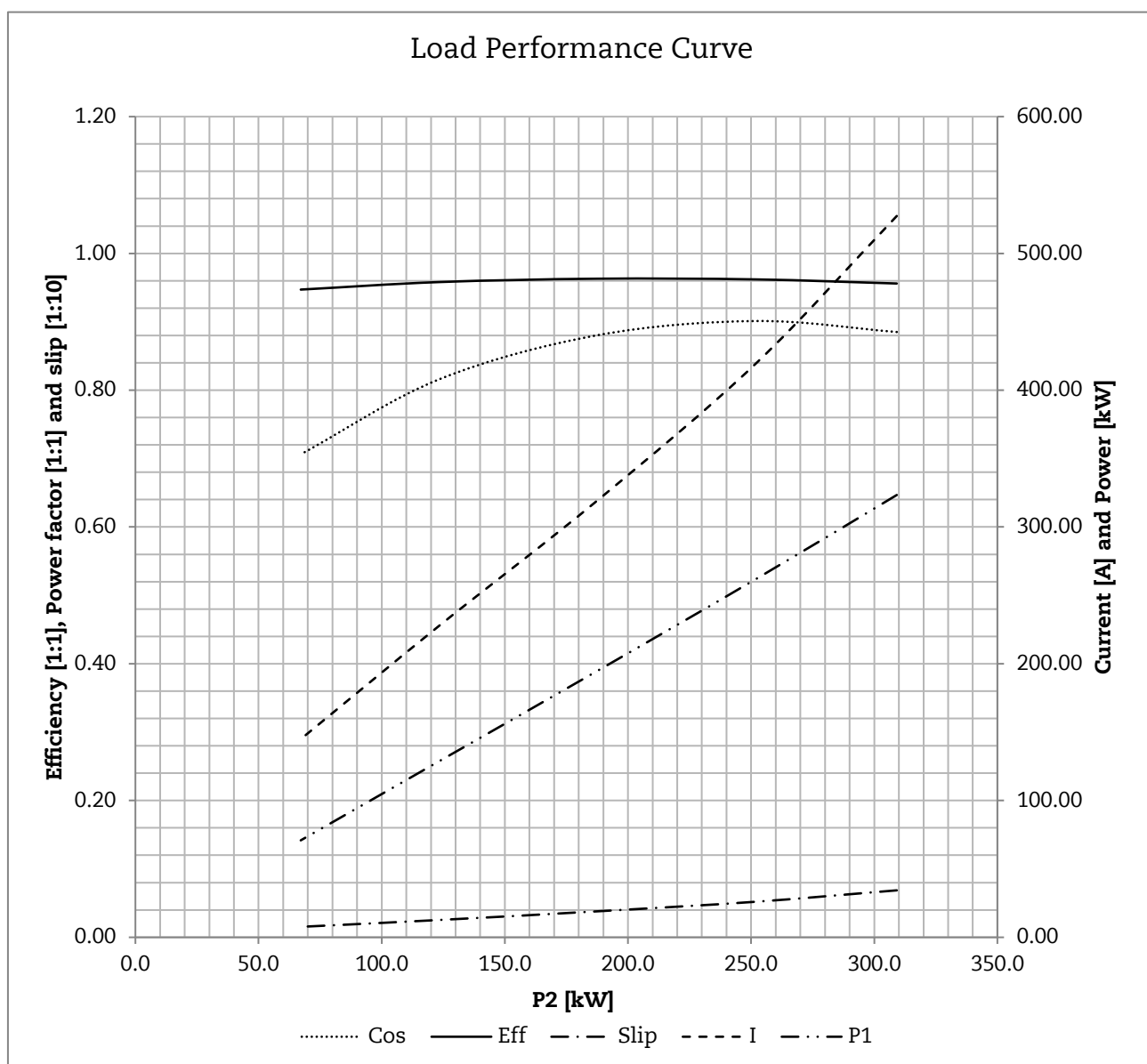
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
309.1	323.4	0.956	527.35	2003.3	0.89
251.9	261.8	0.962	419.39	1600.0	0.90
187.6	194.8	0.963	319.42	1198.3	0.88
123.4	128.8	0.958	227.88	797.9	0.82
67.1	70.9	0.947	144.88	398.5	0.71



No-load test data at rated frequency

U _o V	I _o A	P _o W	P _{cul.}
499.8	232.27	9734.0	803.7
463.5	172.28	5888.0	442.1
422.6	125.20	4007.0	233.5
381.4	97.35	3147.0	141.2
339.0	80.42	2627.0	96.3
301.9	70.47	2250.0	74.0
260.5	59.27	1896.0	52.3
221.6	45.70	1621.0	31.1
181.0	43.72	1396.0	28.5
138.7	40.16	1032.0	24.0

