

Type Test Report

Report No.: TTR3IC23551A2SL

Test Result Data

Nameplate data

Type:	HMC3 355L-4	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	531.09 A	Frequency:	50 Hz
Output:	315 kW	Efficiency.:	96.1 %
Connection:	D	Cos ϕ :	0.89
Speed:	1492 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	6483.7 W	No load current:	161.08 A
Machine loss:	2197.17 W	Core loss:	4026.14 W
Sound pressure level 1m:	94 dB(A)	Vibration:	0.6 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	531.09 A
Power:	315.00 kW	Temperature - rise:	72 K
Winding hotspot temperature:	72 °C	Bearing temperature:	78 °C
Frequency:	50 Hz	Ambient temperature:	32 °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	410.35	658.93	1489	2525.08	0.90	95.95
100	400	50	327.83	531.09	1492	2016.76	0.89	96.09
75	400	50	246.22	410.01	1494	1510.29	0.87	95.95
50	400	50	165.51	299.86	1496	1005.46	0.80	95.16
25	400	50	85.58	204.83	1498	502.09	0.60	92.02

Locked rotor test at rated voltage

Input power:	950.5 kW	Cos ϕ :	0.34
Starting current:	3986.67 A	Starting torque:	4649.91 Nm
Starting/Rated current:	7.51	Starting/Rated torque:	2.31

6/19/2017

HOYER
EXCEEDING EXPECTATIONS

www.hoyermotors.com

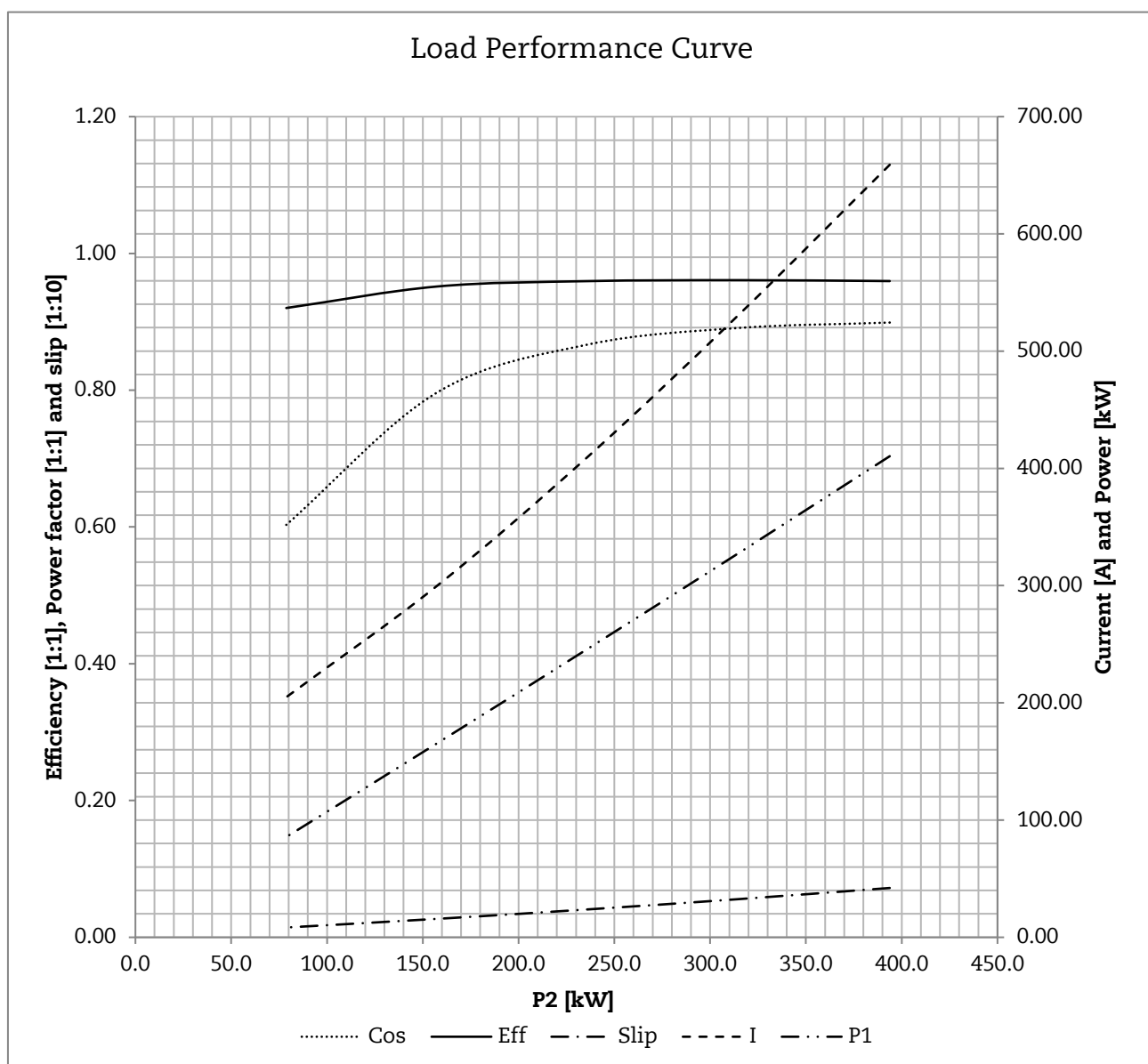
Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Type Test Report

Report No.: TTR3IC23551A2SL

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
393.8	410.4	0.960	658.93	2525.1	0.90
315.0	327.8	0.961	531.09	2016.8	0.89
236.2	246.2	0.959	410.01	1510.3	0.87
157.5	165.5	0.952	299.86	1005.5	0.80
78.8	85.6	0.920	204.83	502.1	0.60



6/19/2017

HOYER
EXCEEDING EXPECTATIONS

www.hoyermotors.com

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.

No-load test data at rated frequency

Uo V	Io A	Po W	Pcul.
400.0	161.10	6484.0	260.4
360.2	121.90	5158.0	149.1
321.7	102.70	4471.0	105.8
278.6	86.20	4017.0	74.6
238.9	72.10	3562.0	52.2
200.3	61.20	3172.0	37.6
159.7	54.50	2872.0	29.8
120.4	48.10	2592.0	23.2
80.4	43.30	2378.0	18.8
40.0	29.60	1756.0	5.5

