

Type Test Report

Report No.: TTR3IC33152A2SL

Test Result Data

Nameplate data

Type:	HMC3 315L1-6	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	193.17 A	Frequency:	50 Hz
Output:	110 kW	Efficiency.:	95.1 %
Connection:	D	Cos ϕ :	0.87
Speed:	989 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	2743.84 W	No load current:	63.60 A
Machine loss:	933.03 W	Core loss:	1646.19 W
Sound pressure level 1m:	78.6 dB(A)	Vibration:	0.4 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	193.17 A
Power:	110.00 kW	Temperature - rise:	61 K
Winding hotspot temperature:	92 °C	Bearing temperature:	69 °C
Frequency:	50 Hz	Ambient temperature:	31 °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	141.16	242.33	986	1331.90	0.84	93.95
100	400	50	116.70	193.17	989	1062.18	0.87	95.13
75	400	50	88.01	148.45	992	794.23	0.86	95.38
50	400	50	57.98	109.01	995	528.05	0.77	93.96
25	400	50	29.84	76.44	997	263.34	0.56	89.51

Locked rotor test at rated voltage

Input power:	352.6 kW	Cos ϕ :	0.38
Starting current:	1346.60 A	Starting torque:	2506.21 Nm
Starting/Rated current:	6.97	Starting/Rated torque:	2.36

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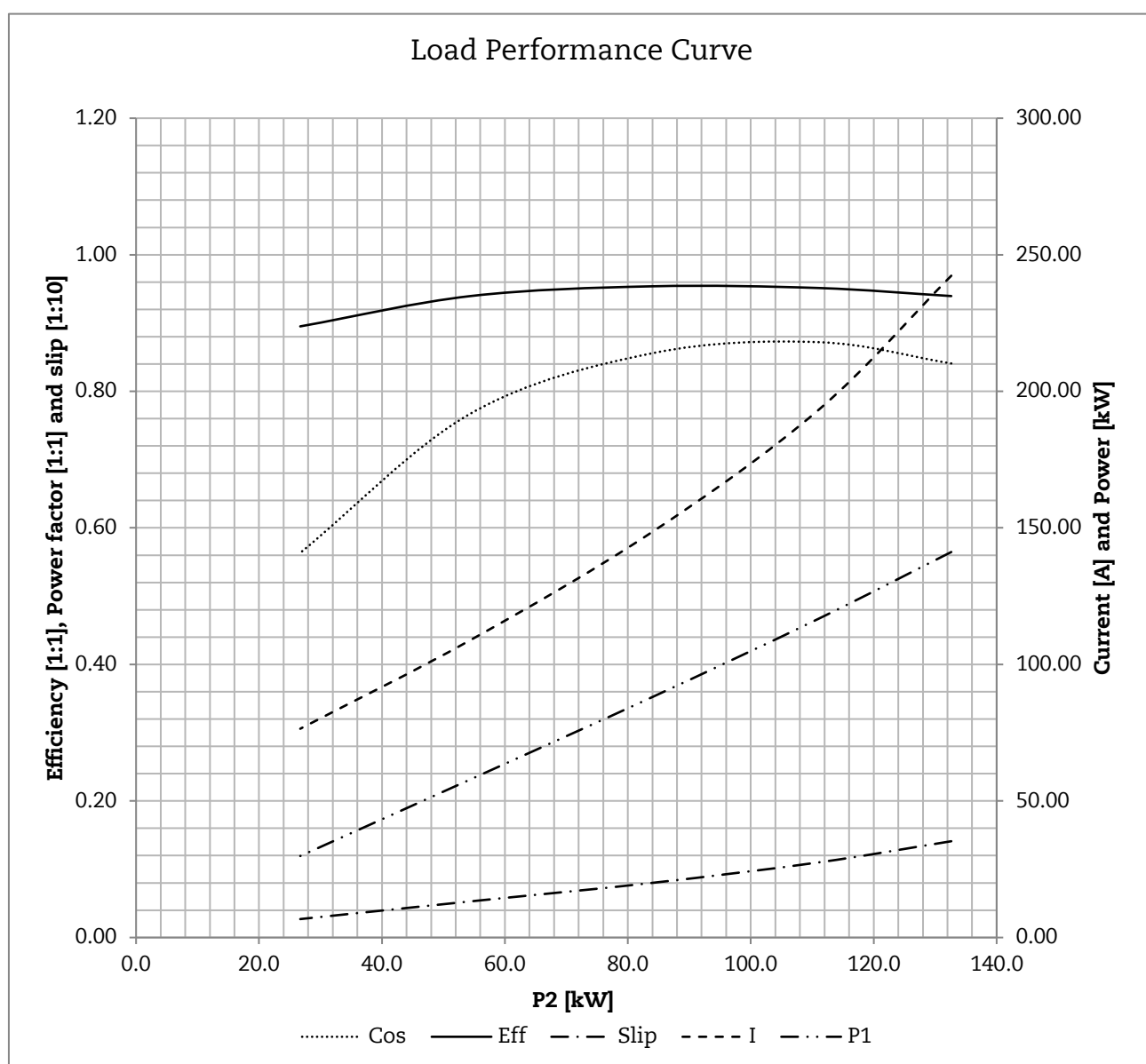
Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

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P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
132.6	141.2	0.940	242.33	1331.9	0.84
111.0	116.7	0.951	193.17	1062.2	0.87
83.9	88.0	0.954	148.45	794.2	0.86
54.5	58.0	0.940	109.01	528.0	0.77
26.7	29.8	0.895	76.44	263.3	0.56



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No-load test data at rated frequency

Uo V	Io A	Po W	Pcul.
496.8	123.35	6762.0	590.0
461.8	92.26	4202.0	330.0
420.8	68.82	2907.0	183.6
381.6	55.43	2342.0	119.1
340.3	46.60	2000.0	84.2
298.3	39.60	1741.0	60.8
260.2	33.81	1548.0	44.3
218.9	28.15	1367.0	30.7
179.4	22.83	1218.0	20.2
139.2	17.97	1099.0	12.5

