

Type Test Report

Report No.: TTR3IC33150A2SL

Test Result Data

Nameplate data

Type:	HMC3 315S-6	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	131.15 A	Frequency:	50 Hz
Output:	75 kW	Efficiency.:	94.8 %
Connection:	D	Cos ϕ :	0.87
Speed:	987 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	1497.31 W	No load current:	36.09 A
Machine loss:	441.07 W	Core loss:	974.68 W
Sound pressure level 1m:	75.2 dB(A)	Vibration:	0.5 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	131.15 A
Power:	75.00 kW	Temperature - rise:	58 K
Winding hotspot temperature:	98 °C	Bearing temperature:	54 °C
Frequency:	50 Hz	Ambient temperature:	24 °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	99.53	166.08	983	910.52	0.87	94.19
100	400	50	79.10	131.15	987	725.35	0.87	94.81
75	400	50	59.16	99.59	991	542.01	0.86	95.08
50	400	50	39.62	71.80	994	360.18	0.80	94.64
25	400	50	20.42	48.21	997	179.61	0.61	91.81

Locked rotor test at rated voltage

Input power:	199.0 kW	Cos ϕ :	0.38
Starting current:	766.55 A	Starting torque:	1447.09 Nm
Starting/Rated current:	5.84	Starting/Rated torque:	2.00

6/19/2017

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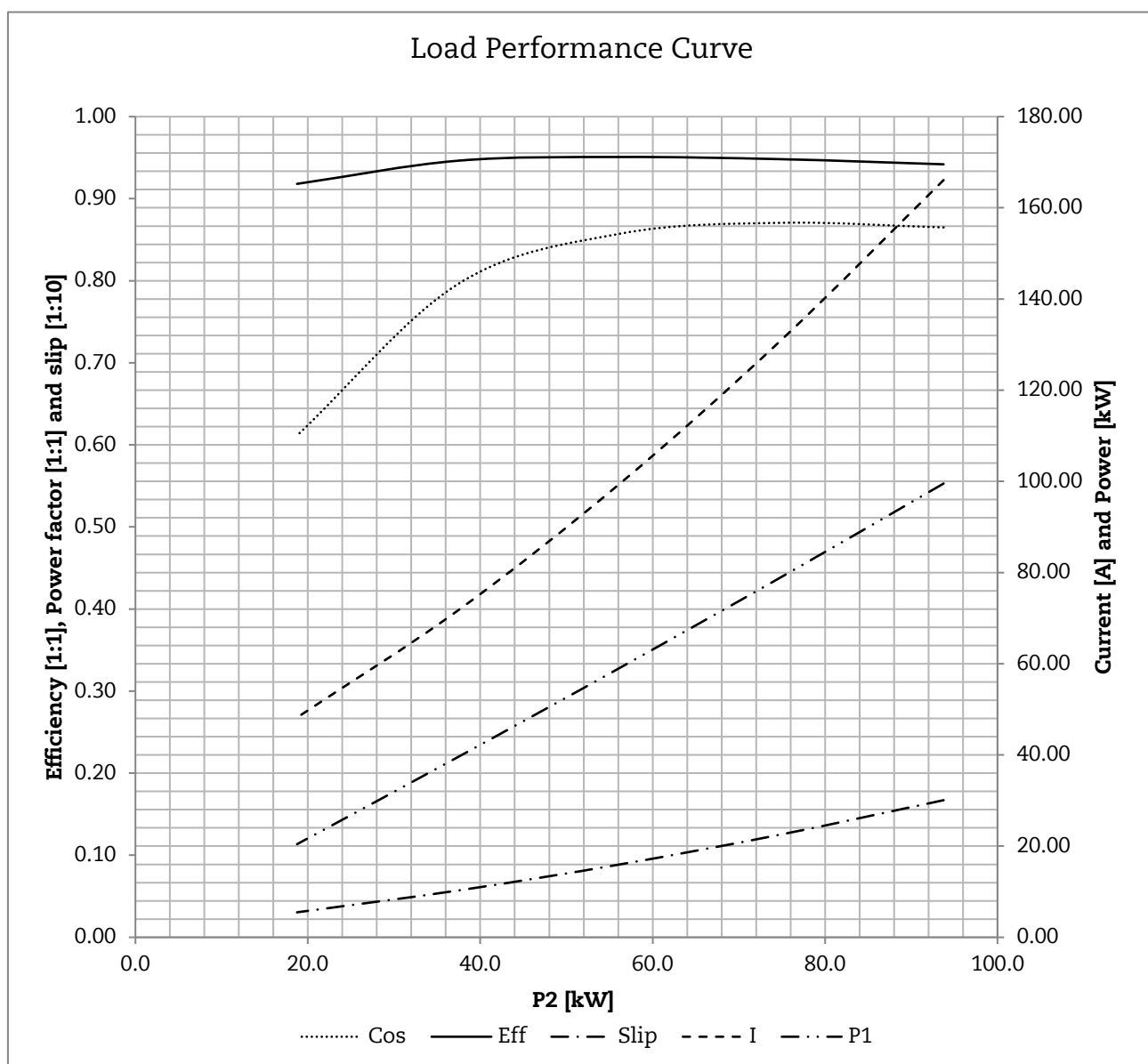
Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

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P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
93.7	99.5	0.942	166.08	910.5	0.87
75.0	79.1	0.948	131.15	725.4	0.87
56.2	59.2	0.951	99.59	542.0	0.86
37.5	39.6	0.946	71.80	360.2	0.80
18.7	20.4	0.918	48.21	179.6	0.61



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No-load test data at rated frequency

Uo V	Io A	Po W	Pcul.
499.8	61.43	2860.0	236.3
456.4	46.33	1990.0	134.4
415.5	38.31	1550.0	91.9
375.4	33.05	1420.0	68.4
335.1	28.72	1140.0	51.6
294.9	24.98	970.0	39.1
254.0	20.98	880.0	27.6
223.9	18.59	790.0	21.6
193.7	15.93	710.0	15.9
163.5	13.44	640.0	11.3

