

Type Test Report

Report No.: TTR3IC22800A2SL

Test Result Data

Nameplate data

Type:	HMC3 280S-4	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	130.90 A	Frequency:	50 Hz
Output:	75 kW	Efficiency.:	95.1 %
Connection:	D	Cos ϕ :	0.92
Speed:	1489 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	1726.25 W	No load current:	36.77 A
Machine loss:	307.4 W	Core loss:	1342.48 W
Sound pressure level 1m:	78.9 dB(A)	Vibration:	0.4 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	130.90 A
Power:	75.00 kW	Temperature - rise:	56 K
Winding hotspot temperature:	88 °C	Bearing temperature:	81 °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	98.78	162.17	1486	602.39	0.93	94.91
100	400	50	78.87	130.90	1489	480.91	0.92	95.08
75	400	50	59.27	101.11	1492	359.99	0.89	94.90
50	400	50	39.94	74.56	1495	239.56	0.81	93.89
25	400	50	20.85	53.04	1497	119.59	0.60	89.93

Locked rotor test at rated voltage

Input power:	259.4 kW	Cos ϕ :	0.43
Starting current:	880.37 A	Starting torque:	1158.87 Nm
Starting/Rated current:	6.73	Starting/Rated torque:	2.41

6/19/2017

HOYER
EXCEEDING EXPECTATIONS

www.hoyermotors.com

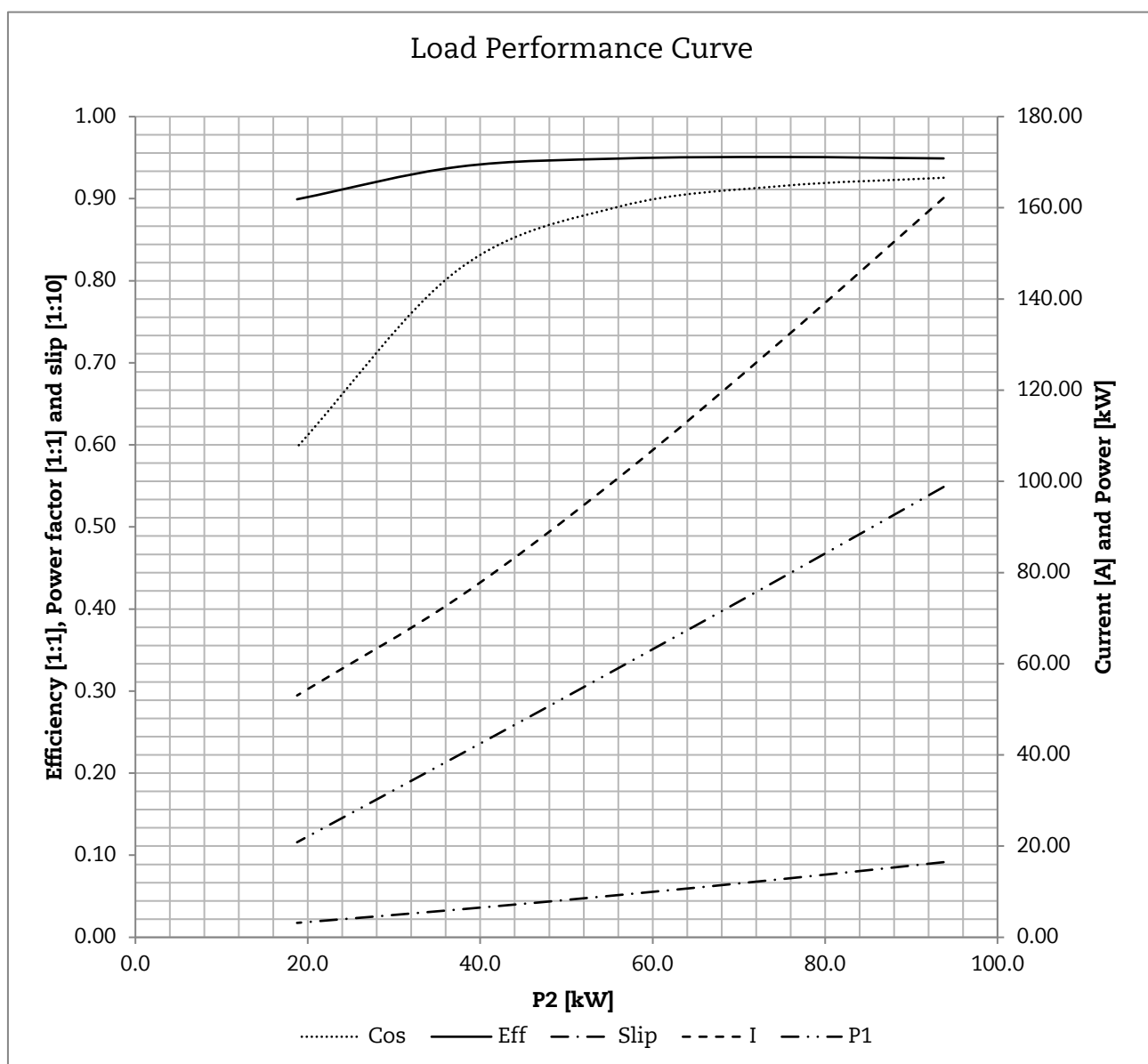
Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Type Test Report

Report No.: TTR3IC22800A2SL

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
93.8	98.8	0.949	162.17	602.4	0.93
75.0	78.9	0.951	130.90	480.9	0.92
56.2	59.3	0.949	101.11	360.0	0.89
37.5	39.9	0.939	74.56	239.6	0.81
18.8	20.9	0.899	53.04	119.6	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.
498.4	100.37	4974.0	568.9
459.1	69.12	3154.0	269.8
419.2	48.52	2184.0	132.9
378.8	36.34	1727.0	74.6
339.5	29.80	1450.0	50.1
299.3	24.91	1254.0	35.0
259.6	21.01	1111.0	24.9
180.6	16.42	837.0	15.2
140.6	14.15	647.0	11.3
99.7	12.99	468.0	9.5

