

Type Test Report

Report No.: TTR3IC12800A2SL

Test Result Data

Nameplate data

Type:	HMC3 280S-2	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	127.87 A	Frequency:	50 Hz
Output:	75 kW	Efficiency.:	95.0 %
Connection:	D	Cos ϕ :	0.89
Speed:	2982 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	2202.55 W	No load current:	34.30 A
Machine loss:	841.38 W	Core loss:	1304.6 W
Sound pressure level 1m:	87.9 dB(A)	Vibration:	0.7 mm/s

Temperature rise test

Voltage:	400.0 V	Current:	127.87 A
Power:	75.00 kW	Temperature - rise:	67 K
Winding hotspot temperature:	96 °C	Bearing temperature:	74 °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	98.76	158.52	2977	300.73	0.90	94.93
100	400	50	78.95	127.87	2982	240.18	0.89	94.99
75	400	50	59.40	97.54	2987	179.85	0.88	94.69
50	400	50	40.10	70.21	2991	119.72	0.82	93.50
25	400	50	21.04	48.53	2995	59.78	0.63	89.10

Locked rotor test at rated voltage

Input power:	248.8 kW	Cos ϕ :	0.38
Starting current:	945.57 A	Starting torque:	578.94 Nm
Starting/Rated current:	7.39	Starting/Rated torque:	2.41

6/19/2017

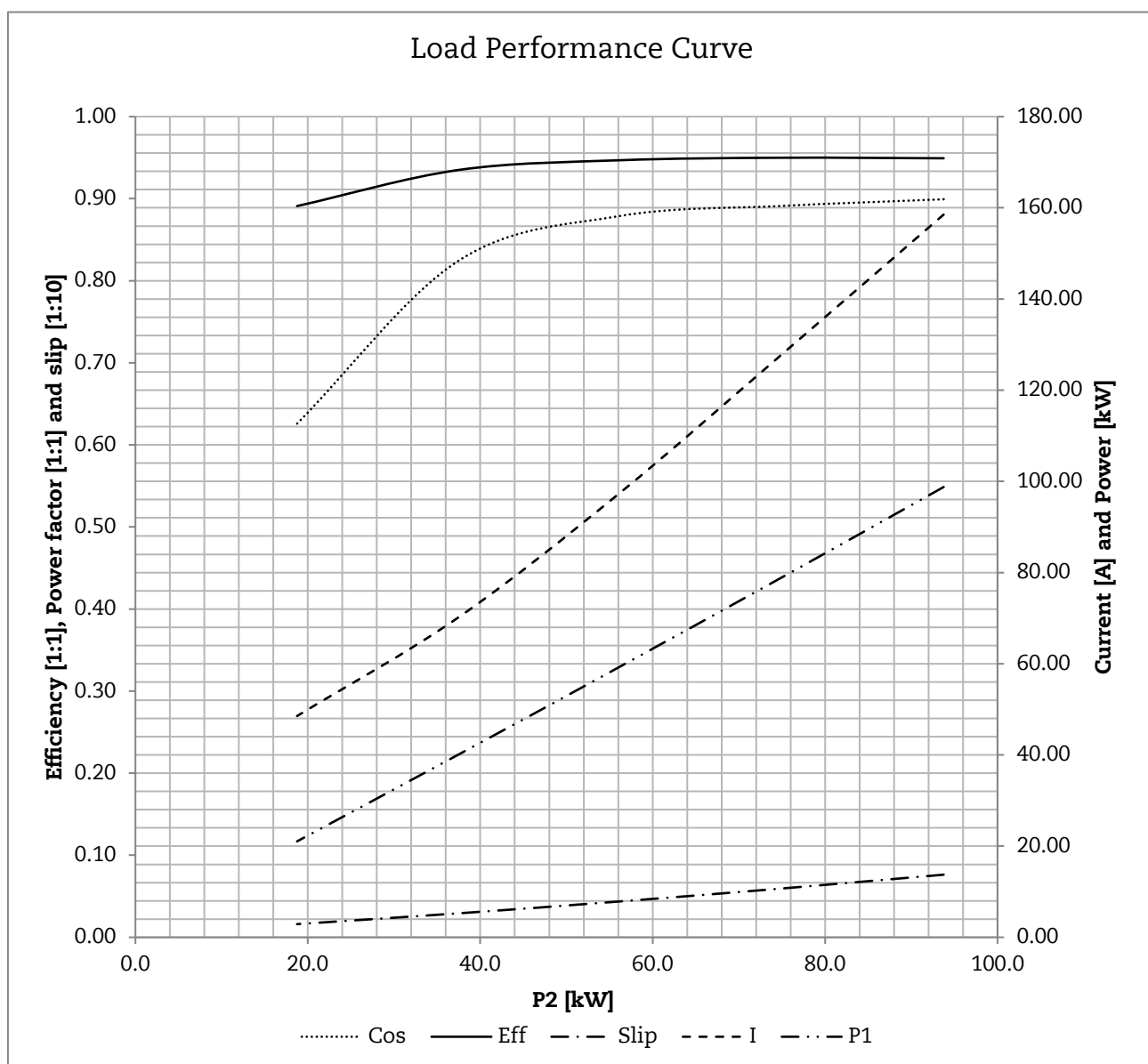
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
93.8	98.8	0.949	158.52	300.7	0.90
75.0	78.9	0.950	127.87	240.2	0.89
56.2	59.4	0.947	97.54	179.8	0.88
37.5	40.1	0.935	70.21	119.7	0.82
18.8	21.0	0.891	48.53	59.8	0.63



No-load test data at rated frequency

U _o V	I _o A	P _o W	P _{cul.}
498.0	78.73	4391.0	298.1
461.4	55.48	3149.0	148.0
421.9	39.72	2490.0	75.9
380.4	30.79	1974.0	45.6
340.8	25.78	1593.0	32.0
301.2	22.77	1380.0	24.9
258.1	20.59	1247.0	20.4
219.0	18.69	1151.0	16.8
179.8	16.74	1069.0	13.5
140.2	15.06	983.0	10.9

