

Type Test Report

Report No.: TTR3IC22250A1SL

Test Result Data

Nameplate data

Type:	HMC3 225S-4	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	65,98 A	Frequency:	50 Hz
Output:	37 kW	Efficiency.:	93,9 %
Connection:	Y	Cos ϕ :	0,86
Speed:	1482 rpm	Insulation Class:	F

No-Load test at rated voltage

No load loss:	830,25 W	No load current:	22,46 A
Machine loss:	137,43 W	Core loss:	601,38 W
Sound pressure level 1m:	73,6 dB(A)	Vibration:	0,7 mm/s

Temperature rise test

Voltage:	400,0 V	Current:	65,98 A
Power:	37,00 kW	Temperature - rise:	59 K
Winding hotspot temperature:	80 °C	Bearing temperature:	56 °C
Frequency:	50 Hz	Ambient temperature:	21 °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	49,61	82,39	1477	299,04	0,87	93,22
100	400	50	39,39	65,98	1482	238,38	0,86	93,93
75	400	50	29,44	51,06	1487	178,21	0,83	94,27
50	400	50	19,71	38,03	1492	118,45	0,75	93,85
25	400	50	10,18	27,29	1496	59,05	0,54	90,84

Locked rotor test at rated voltage

Input power:	168,8 kW	Cos ϕ :	0,47
Starting current:	521,15 A	Starting torque:	732,96 Nm
Starting/Rated current:	7,90	Starting/Rated torque:	3,07

05-12-2017

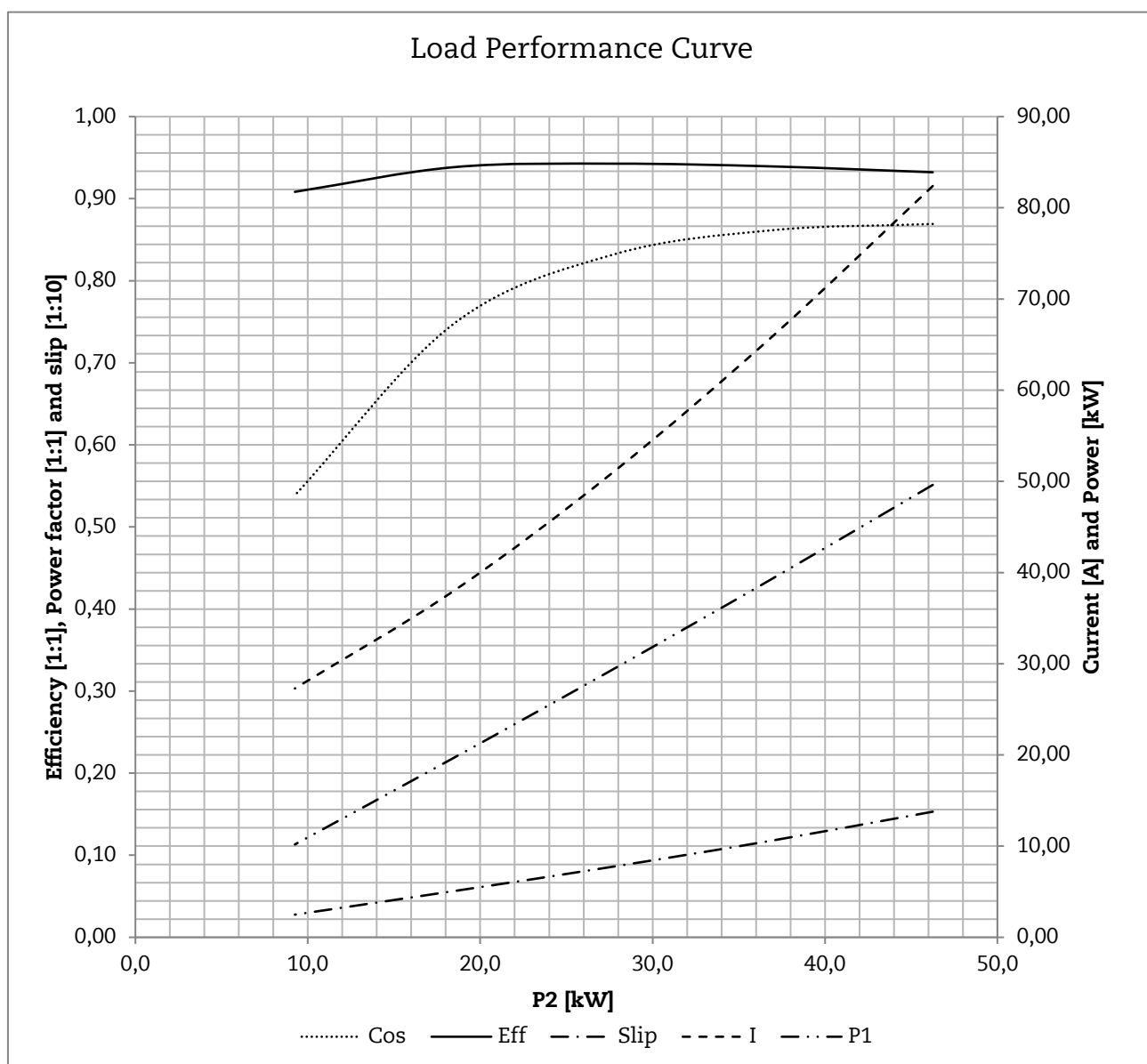
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

Load test data

P2 kW	P1 kW	Eff (η) P2/P1	I A	T Nm	Cos ϕ
46,3	49,6	0,932	82,39	299,0	0,87
37,0	39,4	0,939	65,98	238,4	0,86
27,7	29,4	0,943	51,06	178,2	0,83
18,5	19,7	0,938	38,03	118,5	0,75
9,2	10,2	0,908	27,29	59,1	0,54



No-load test data at rated frequency

U _o V	I _o A	P _o W	P _{cul.}
499,9	47,38	2480,0	407,1
454,7	32,22	1340,0	188,3
414,5	24,36	920,0	107,6
375,6	19,96	710,0	72,2
335,1	16,94	560,0	52,0
294,1	14,52	450,0	38,2
253,7	12,25	390,0	27,2
223,2	10,66	340,0	20,6
193,4	9,18	290,0	15,3
162,8	7,64	250,0	10,6

