

# Type Test Report

Report No.: TTR3IA21321A1SL

## Test Result Data

### Nameplate data

Type:	HMA3 132M-4	Protection Class.:	IP55
Voltage:	400 V	Duty:	S1
Current:	14,00 A	Frequency:	50 Hz
Output:	7,5 kW	Efficiency.:	90,5 %
Connection:	Y	Cos $\phi$ :	0,85
Speed:	1462 rpm	Insulation Class:	F

### No-Load test at rated voltage

No load loss:	247,8 W	No load current:	5,70 A
Machine loss:	49,1 W	Core loss:	147,3 W
Sound pressure level 1m:	61 dB(A)	Vibration:	0,8 mm/s

### Temperature rise test

Voltage:	400,0 V	Current:	14,00 A
Power:	7,50 kW	Temperature - rise:	54 K
Winding hotspot temperature:	67 °C	Bearing temperature:	58 °C
Frequency:	50 Hz	Ambient temperature:	13 °C

### Load performance test

Load %	Un V	f Hz	P1 KW	I1 A	N rpm	T Nm	Cos $\phi$ Cos $\phi$	Eff ( $\eta$ ) %
125	400	50	10,49	17,41	1452	61,68	0,87	89,39
<b>100</b>	<b>400</b>	<b>50</b>	<b>8,28</b>	<b>14,00</b>	<b>1462</b>	<b>48,98</b>	<b>0,85</b>	<b>90,50</b>
75	400	50	6,16	11,04	1473	36,48	0,81	91,22
50	400	50	4,12	8,52	1482	24,16	0,70	90,92
25	400	50	2,16	6,45	1492	12,00	0,48	86,77

### Locked rotor test at rated voltage

Input power:	47,9 kW	Cos $\phi$ :	0,56
Starting current:	123,45 A	Starting torque:	142,61 Nm
Starting/Rated current:	8,82	Starting/Rated torque:	2,91

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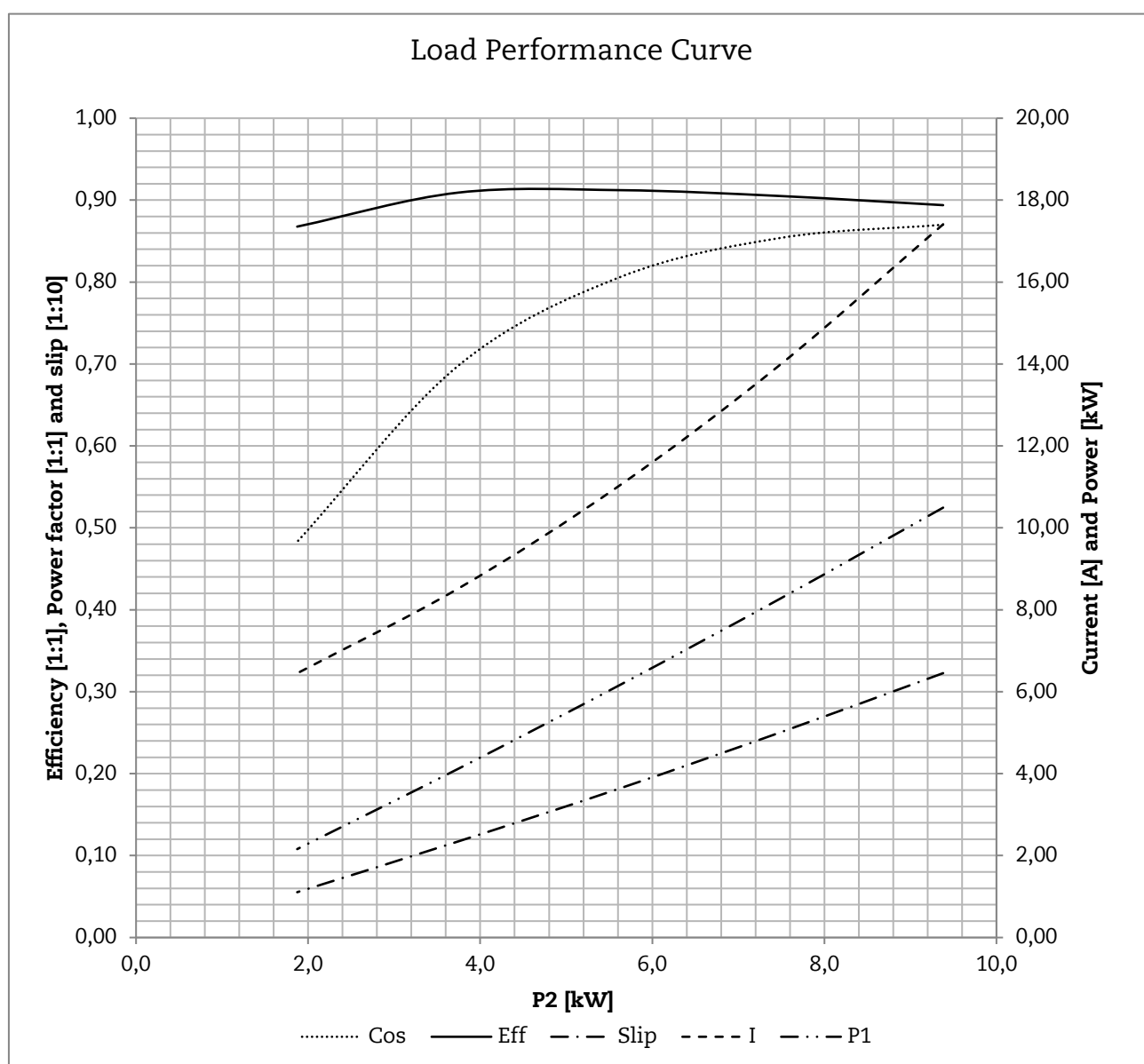
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Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.

## Load test data

P2 kW	P1 kW	Eff ( $\eta$ ) P2/P1	I A	T Nm	Cos $\phi$
9,4	10,5	0,894	17,41	61,7	0,87
7,5	8,3	0,905	14,00	49,0	0,85
5,6	6,2	0,912	11,04	36,5	0,81
3,7	4,1	0,909	8,52	24,2	0,70
1,9	2,2	0,868	6,45	12,0	0,48



## No-load test data at rated frequency

U <sub>0</sub> V	I <sub>0</sub> A	P <sub>0</sub> W	P <sub>cul.</sub>
500,0	11,65	536,0	217,8
439,4	7,15	322,0	82,0
399,5	5,69	243,0	52,0
319,8	4,13	168,0	27,4
280,0	3,54	138,0	20,1
239,8	2,97	113,0	14,2
200,0	2,44	92,0	9,6
159,9	1,93	80,0	6,0
119,9	1,46	63,0	3,4
100,0	1,24	59,0	1,3

