

Type Test Report

Report No.: TTR3IC22000A1SL

Test Result Data

Nameplate data

| | | | |
|-------------|-------------|--------------------|--------|
| Type: | HMC3 200L-4 | Protection Class.: | IP55 |
| Voltage: | 400 V | Duty: | S1 |
| Current: | 53,23 A | Frequency: | 50 Hz |
| Output: | 30 kW | Efficiency.: | 93,6 % |
| Connection: | Y | Cos ϕ : | 0,87 |
| Speed: | 1479 rpm | Insulation Class: | F |

No-Load test at rated voltage

| | | | |
|--------------------------|------------|------------------|----------|
| No load loss: | 837,56 W | No load current: | 20,28 A |
| Machine loss: | 193,3 W | Core loss: | 554,55 W |
| Sound pressure level 1m: | 61,7 dB(A) | Vibration: | 0,7 mm/s |

Temperature rise test

| | | | |
|------------------------------|----------|----------------------|---------|
| Voltage: | 400,0 V | Current: | 53,23 A |
| Power: | 30,00 kW | Temperature - rise: | 57 K |
| Winding hotspot temperature: | 79 °C | Bearing temperature: | 13 °C |
| Frequency: | 50 Hz | Ambient temperature: | 22 °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 | 40,26 | 65,66 | 1472 | 243,22 | 0,89 | 93,14 |
| 100 | 400 | 50 | 32,04 | 53,23 | 1479 | 193,77 | 0,87 | 93,64 |
| 75 | 400 | 50 | 24,00 | 41,77 | 1485 | 144,74 | 0,83 | 93,77 |
| 50 | 400 | 50 | 16,13 | 31,78 | 1490 | 96,14 | 0,73 | 93,01 |
| 25 | 400 | 50 | 8,42 | 23,77 | 1494 | 47,94 | 0,51 | 89,02 |

Locked rotor test at rated voltage

| | | | |
|-------------------------|----------|------------------------|-----------|
| Input power: | 129,3 kW | Cos ϕ : | 0,43 |
| Starting current: | 436,78 A | Starting torque: | 557,20 Nm |
| Starting/Rated current: | 8,21 | Starting/Rated torque: | 2,88 |

05-12-2017

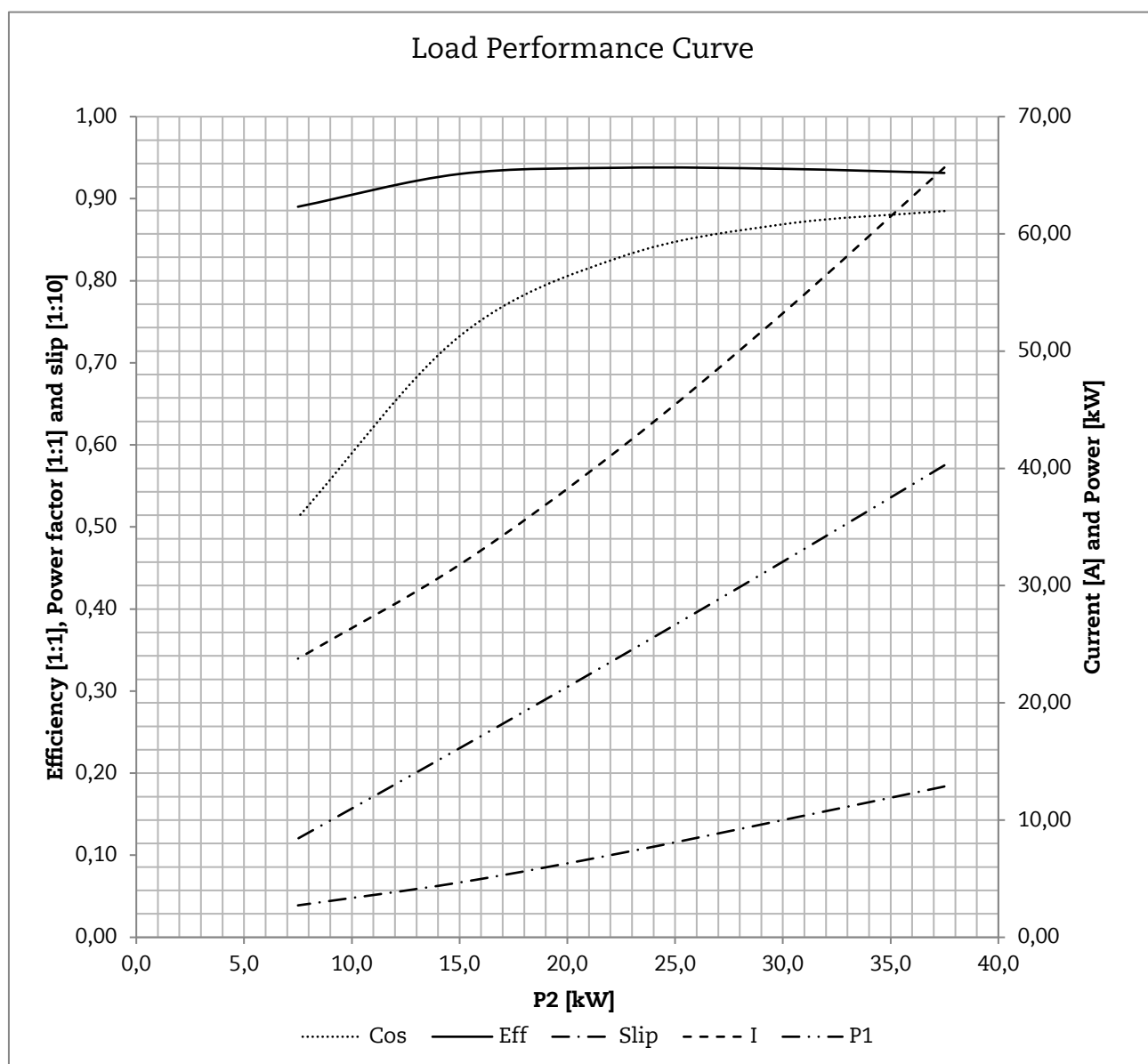
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EXCEEDING EXPECTATIONS

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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 |
|----------|----------|-------------------------|--------|---------|------------|
| 37,5 | 40,3 | 0,931 | 65,66 | 243,2 | 0,89 |
| 30,0 | 32,0 | 0,936 | 53,23 | 193,8 | 0,87 |
| 22,5 | 24,0 | 0,938 | 41,77 | 144,7 | 0,83 |
| 15,0 | 16,1 | 0,930 | 31,78 | 96,1 | 0,73 |
| 7,5 | 8,4 | 0,890 | 23,77 | 47,9 | 0,51 |



No-load test data at rated frequency

| U ₀ V | I ₀ A | P ₀ W | P _{cul.} |
|---------------------|---------------------|---------------------|-------------------|
| 499,8 | 35,32 | 1890,0 | 272,2 |
| 456,5 | 26,36 | 1240,0 | 151,6 |
| 415,4 | 21,64 | 930,0 | 102,2 |
| 396,4 | 19,77 | 820,0 | 85,3 |
| 375,3 | 18,74 | 710,0 | 76,6 |
| 335,1 | 16,24 | 570,0 | 57,5 |
| 299,4 | 14,21 | 480,0 | 44,1 |
| 254,5 | 11,98 | 410,0 | 31,3 |
| 224,0 | 10,38 | 360,0 | 23,5 |
| 200,9 | 9,25 | 320,0 | 18,7 |

