

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 11728462

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : 112M | Locked rotor time | : 34s (cold) 19s (hot) |
| Output | : 5.5 HP (4 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : S1 |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 5.82 A | Protection degree | : IP55 |
| L. R. Amperes | : 46.6 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.0 | Mounting | : B3L(E) |
| No load current | : 3.40 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1755 rpm | Noise level ² | : 56.0 dB(A) |
| Slip | : 2.50 % | Starting method | : Direct On Line |
| Rated torque | : 2.27 kgfm | Approx. weight ³ | : 40.0 kg |
| Locked rotor torque | : 250 % | | |
| Breakdown torque | : 350 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0182 kgm ² | | |
| Design | : N | | |

| | | | | | |
|----------------|------|------|------|------------------|-----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 87.5 | 89.5 | 89.5 | Max. traction | : 147 kgf |
| Power Factor | 0.58 | 0.70 | 0.77 | Max. compression | : 187 kgf |

Losses at normative operating points (speed;torque), in percentage of rated output power

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 11.2 | 9.4 | 9.2 | 6.3 | 4.5 | 3.4 | 2.6 |

| | Drive end | Non drive end |
|----------------------|--------------------|---------------|
| Bearing type | : 6307 ZZ | : 6206 ZZ |
| Sealing | : V'Ring | : V'Ring |
| Lubrication interval | : - | : - |
| Lubricant amount | : - | : - |
| Lubricant type | : Mobil Polyrex EM | |

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|----------|
| | | | | |
| Performed by | | | | |
| Checked by | | | | |
| Date | 25/10/2024 | | | |
| | | Page | | Revision |
| | | 1 / 2 | | |

LOAD PERFORMANCE CURVE

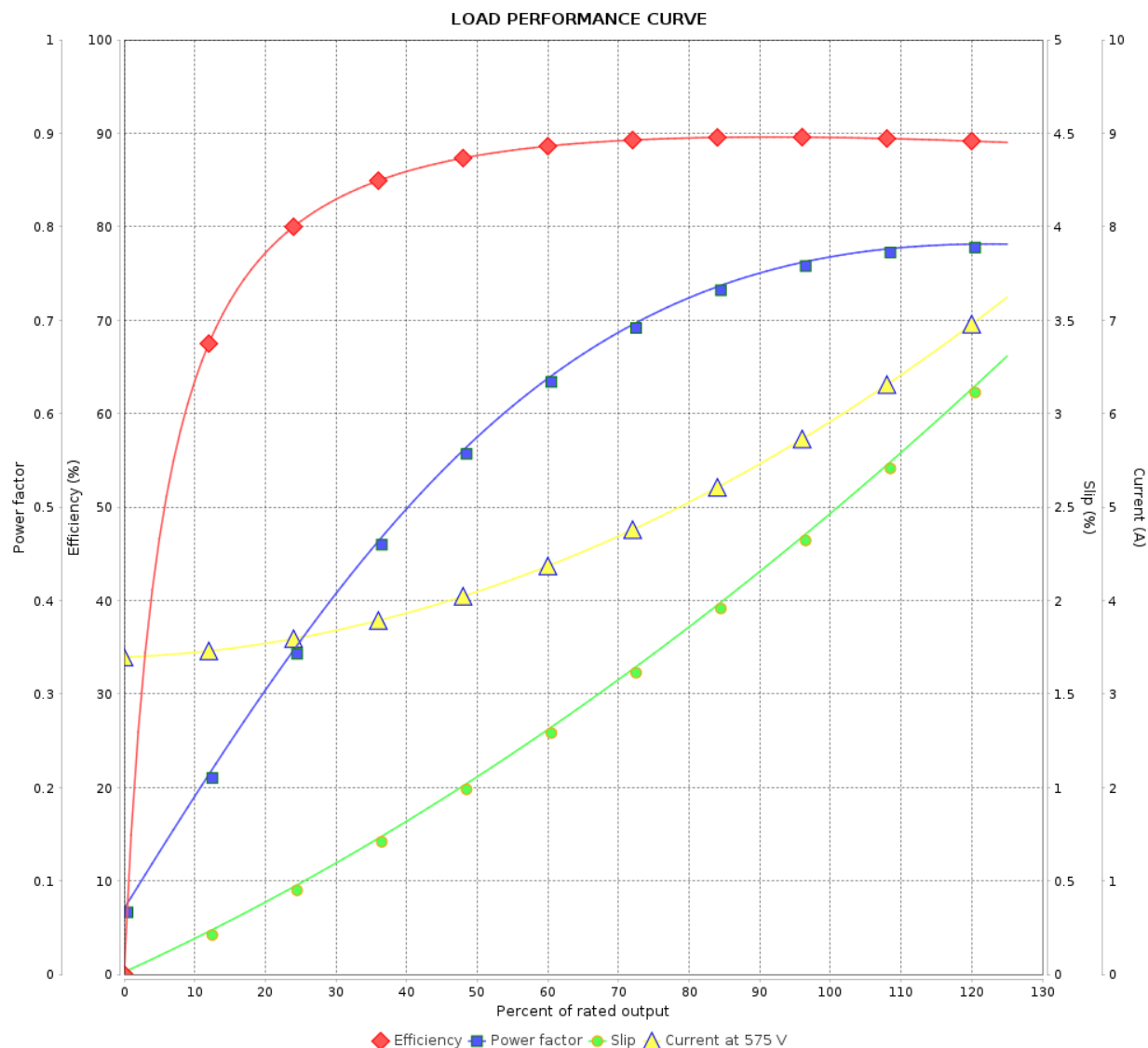
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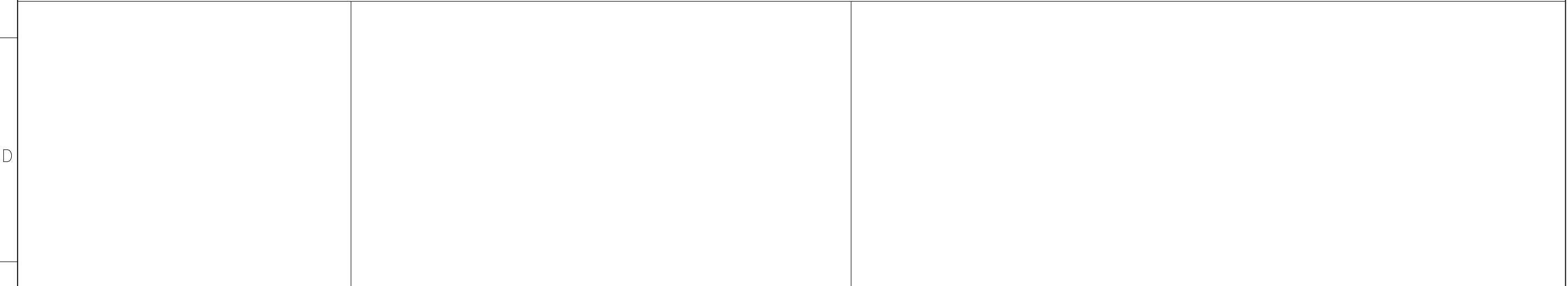
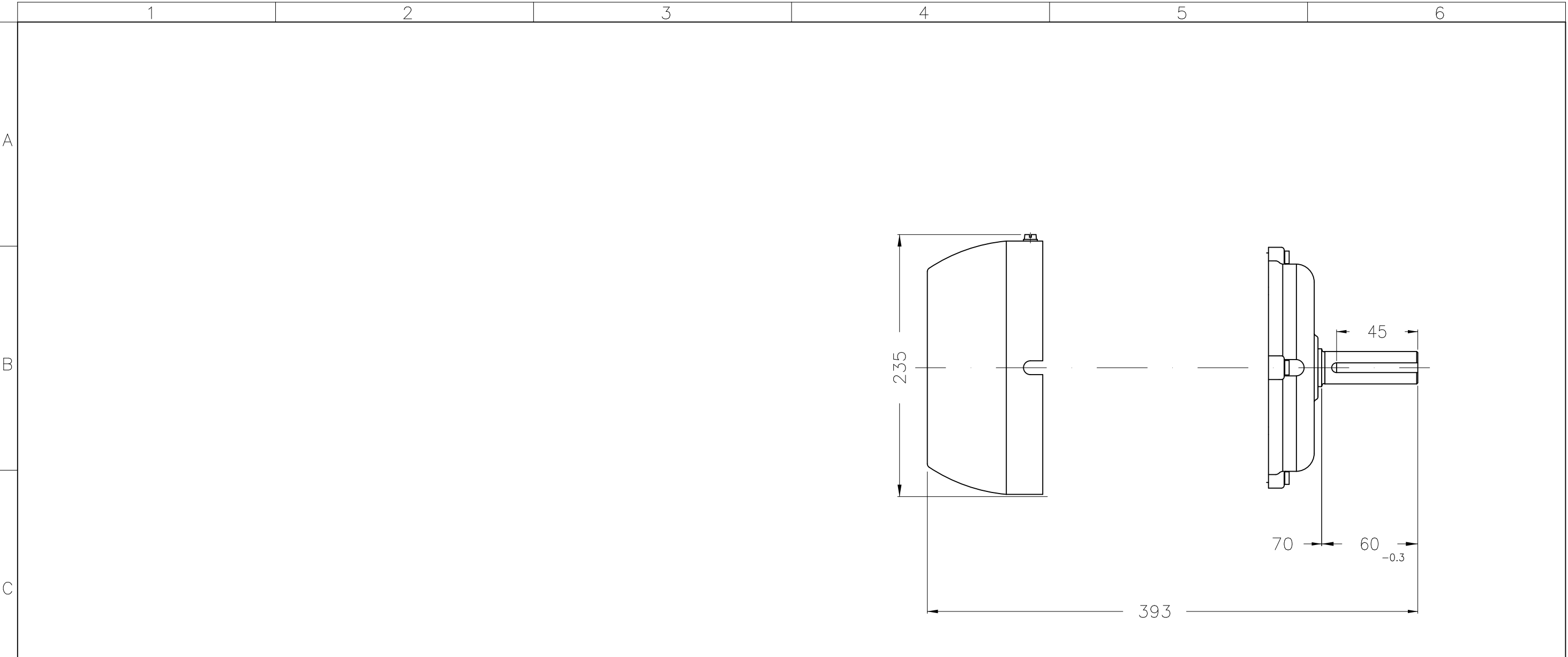


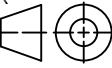

Performance : 575 V 60 Hz 4P

Rated current : 5.82 A
LRC : 8.0
Rated torque : 2.27 kgfm
Locked rotor torque : 250 %
Breakdown torque : 350 %
Rated speed : 1755 rpm

Moment of inertia (J) : 0.0182 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : N

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| Date | | | | | |



| | | | | | | | | | | |
|-----------------------|------------|--------------------------|--|---------------------|--|--|----------|----------------|----------|---|
| 5.5 HP 04 Poles 60 Hz | | | | | | | | | | A |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | | | | EXECUTED | CHECKED | RELEASED | DATE VER |
| EXECUTED | DATAVIEWER | USER |  THREE PH. MOTOR MULTIMOUNTIN IE3 FRAME 112M IP55 TEFC | | | | | PREVIEW WDD | |  |
| CHECKED | | | | | | | | | | |
| RELEASED | | | | | | | | | | |
| REL DT. | | | | | | | | | | |
| | | WMO | Jaragua do Sul | Product Engineering | | | SHEET | | 1 / 1 | |

Color RAL 5009
Painting plan 207A
Mounting B3L(E)

