

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 15268028

|                       |                           |                             |                       |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame                 | : 213/5TC                 | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 7.5 HP (5.5 kW)         | Temperature rise            | : 80 K                |
| Poles                 | : 4                       | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 208-230/460 V           | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 32.0-30.0/15.0 A        | Protection degree           | : IP55                |
| L. R. Amperes         | : 246-231/116 A           | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 7.7x(Code H)            | Mounting                    | : F-1                 |
| No load current       | : 8.97-10.4/5.20 A        | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| Rated speed           | : 1750 rpm                | Noise level <sup>2</sup>    | : 63.0 dB(A)          |
| Slip                  | : 2.78 %                  | Starting method             | : Direct On Line      |
| Rated torque          | : 3.11 kgfm               | Approx. weight <sup>3</sup> | : 82.5 kg             |
| Locked rotor torque   | : 320 %                   |                             |                       |
| Breakdown torque      | : 250 %                   |                             |                       |
| Insulation class      | : F                       |                             |                       |
| Service factor        | : 1.15                    |                             |                       |
| Moment of inertia (J) | : 0.0457 kgm <sup>2</sup> |                             |                       |

|                |      |      |      |                  |           |
|----------------|------|------|------|------------------|-----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |           |
| Efficiency (%) | 75.6 | 81.0 | 83.0 | Max. traction    | : 102 kgf |
| Power Factor   | 0.91 | 0.94 | 0.96 | Max. compression | : 185 kgf |

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | : 6308 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 |                 | Page Revision<br>1 / 2 |         |      |
| Checked by   |                 |                        |         |      |
| Date         | 29/10/2024      |                        |         |      |

LOAD PERFORMANCE CURVE

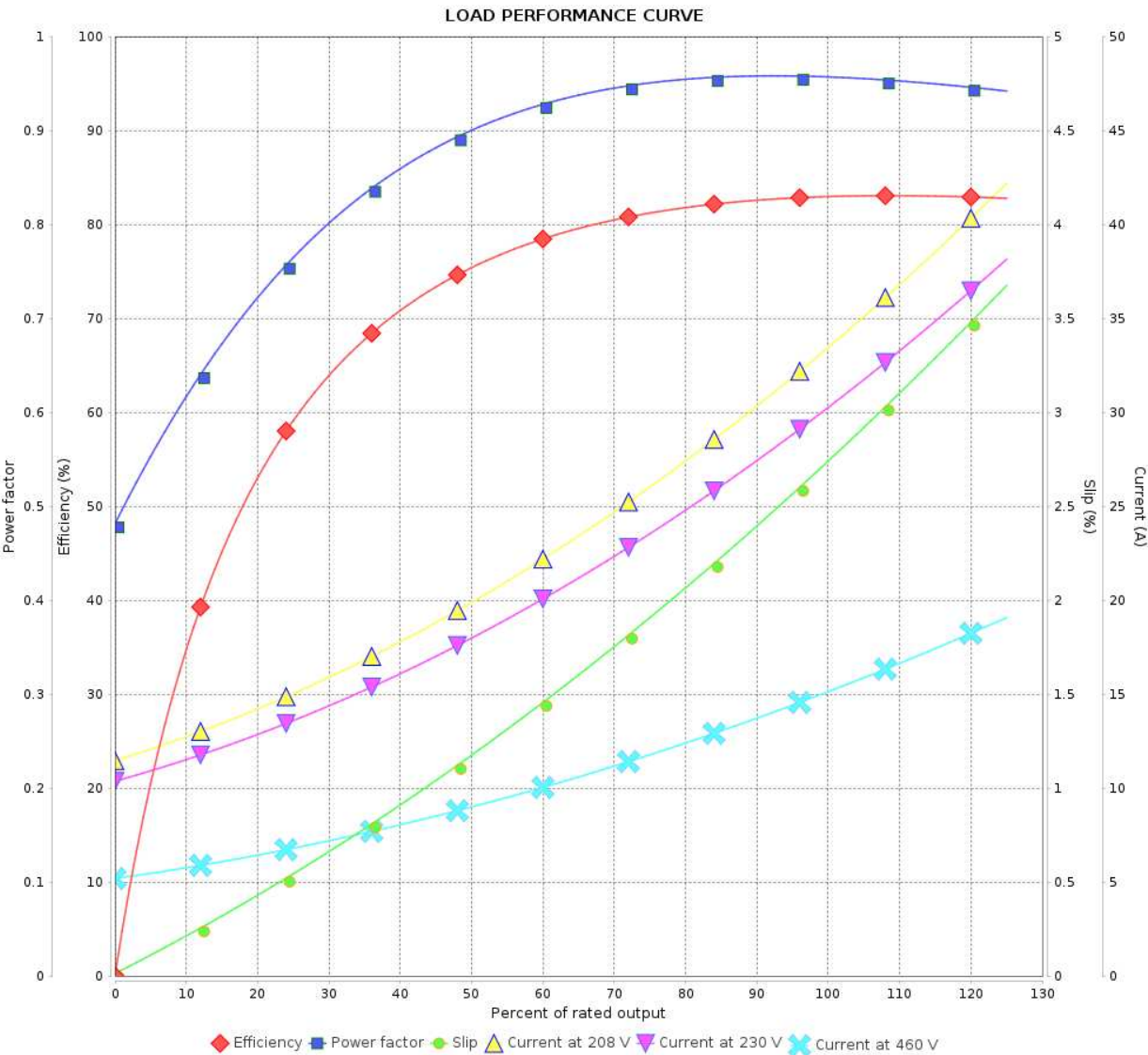
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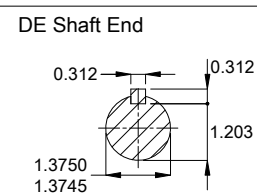
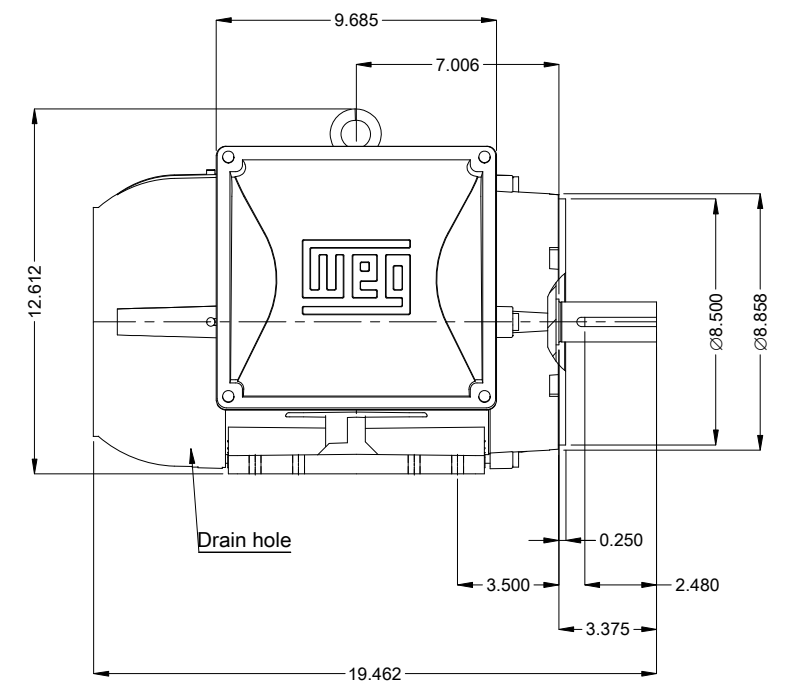
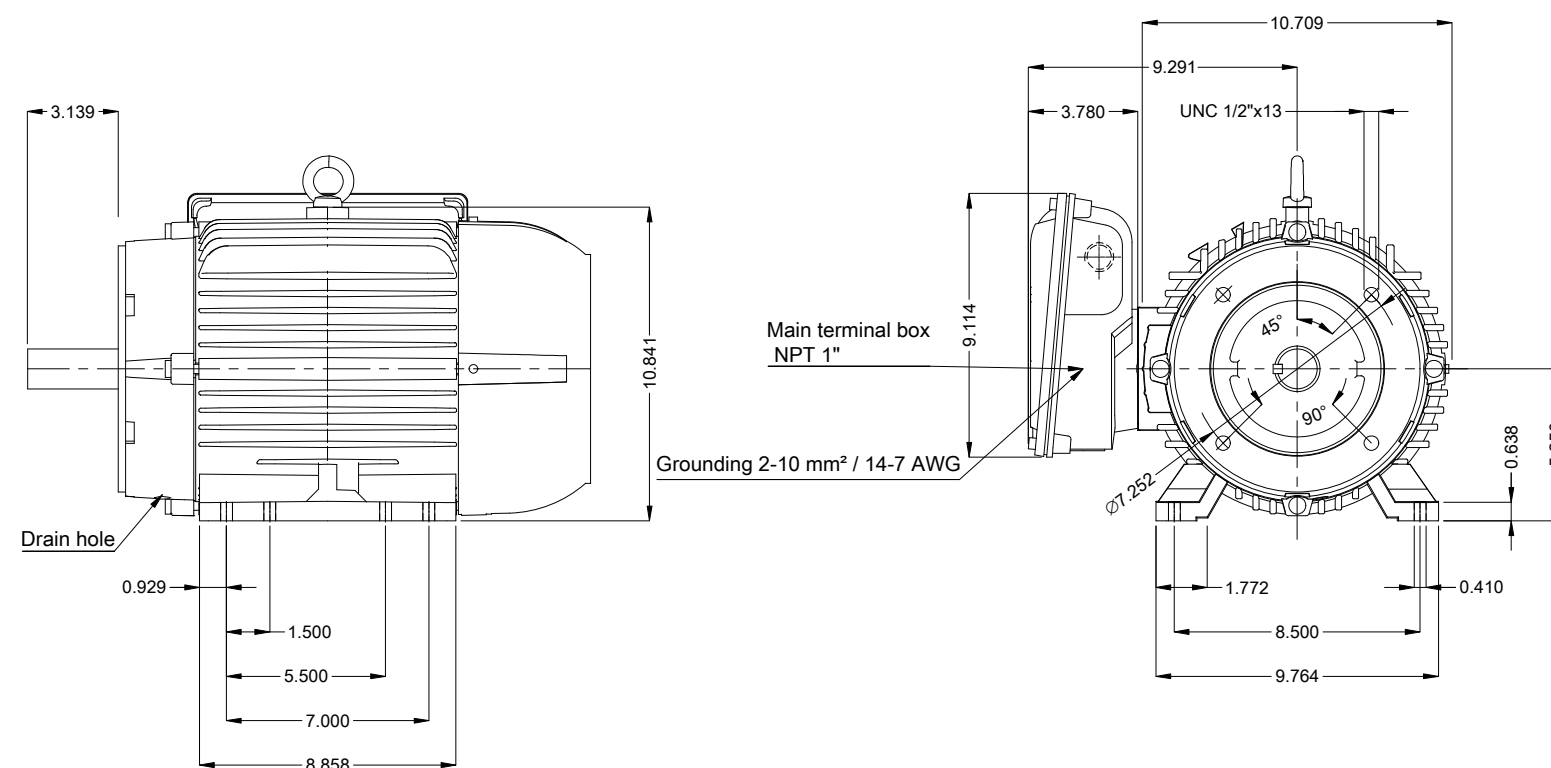


Performance : 208-230/460 V 60 Hz 4P

Rated current : 32.0-30.0/15.0 A  
LRC : 7.7  
Rated torque : 3.11 kgfm  
Locked rotor torque : 320 %  
Breakdown torque : 250 %  
Rated speed : 1750 rpm

Moment of inertia (J) : 0.0457 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor :  
Temperature rise : 80 K

| Rev.         | Changes Summary |  | Performed | Checked | Date     |
|--------------|-----------------|--|-----------|---------|----------|
|              |                 |  |           |         |          |
| Performed by |                 |  |           | Page    | Revision |
| Checked by   |                 |  |           | 2 / 2   |          |
| Date         |                 |  |           |         |          |
|              | 29/10/2024      |  |           |         |          |



|                   |
|-------------------|
| Color RAL 7022    |
| Mounting NEMA F-1 |
| Mounting B34D     |

|                             |  |  |  |  |  |       |  |  |  |   |
|-----------------------------|--|--|--|--|--|-------|--|--|--|---|
| 7.5 HP    04 Poles    60 Hz |  |  |  |  |  |       |  |  |  | A |
|                             |  |  |  |  |  |       |  |  |  |   |
|                             |  |  |  |  |  | Scale |  |  |  |   |