

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11449318

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 364/5T                  | Locked rotor time           | : 25s (cold) 14s (hot) |
| Output                | : 75 HP (55 kW)           | Temperature rise            | : 80 K                 |
| Poles                 | : 4                       | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 575 V                   | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 69.8 A                  | Protection degree           | : IP56                 |
| L. R. Amperes         | : 446 A                   | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 6.4x(Code G)            | Mounting                    | : F-1                  |
| No load current       | : 26.4 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1780 rpm                | Noise level <sup>2</sup>    | : 67.0 dB(A)           |
| Slip                  | : 1.11 %                  | Starting method             | : Direct On Line       |
| Rated torque          | : 30.5 kgfm               | Approx. weight <sup>3</sup> | : 413 kg               |
| Locked rotor torque   | : 240 %                   |                             |                        |
| Breakdown torque      | : 260 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.25                    |                             |                        |
| Moment of inertia (J) | : 0.9798 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |      |      |      |                  |            |
|----------------|------|------|------|------------------|------------|
| Output         | 50%  | 75%  | 100% | Foundation loads |            |
| Efficiency (%) | 94.5 | 95.0 | 95.4 | Max. traction    | : 686 kgf  |
| Power Factor   | 0.68 | 0.78 | 0.83 | Max. compression | : 1099 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 4.7          | 3.7          | 3.4           | 2.4          | 1.6          | 1.1           | 0.7            |

|                      | Drive end          | Non drive end |
|----------------------|--------------------|---------------|
| Bearing type         | : 6314 C3          | : 6314 C3     |
| Sealing              | : Inpro/Seal       | : Inpro/Seal  |
| Lubrication interval | : 12000 h          | : 12000 h     |
| Lubricant amount     | : 27 g             | : 27 g        |
| 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         | 23/10/2024      |           | Page<br>1 / 2 | Revision |

# LOAD PERFORMANCE CURVE

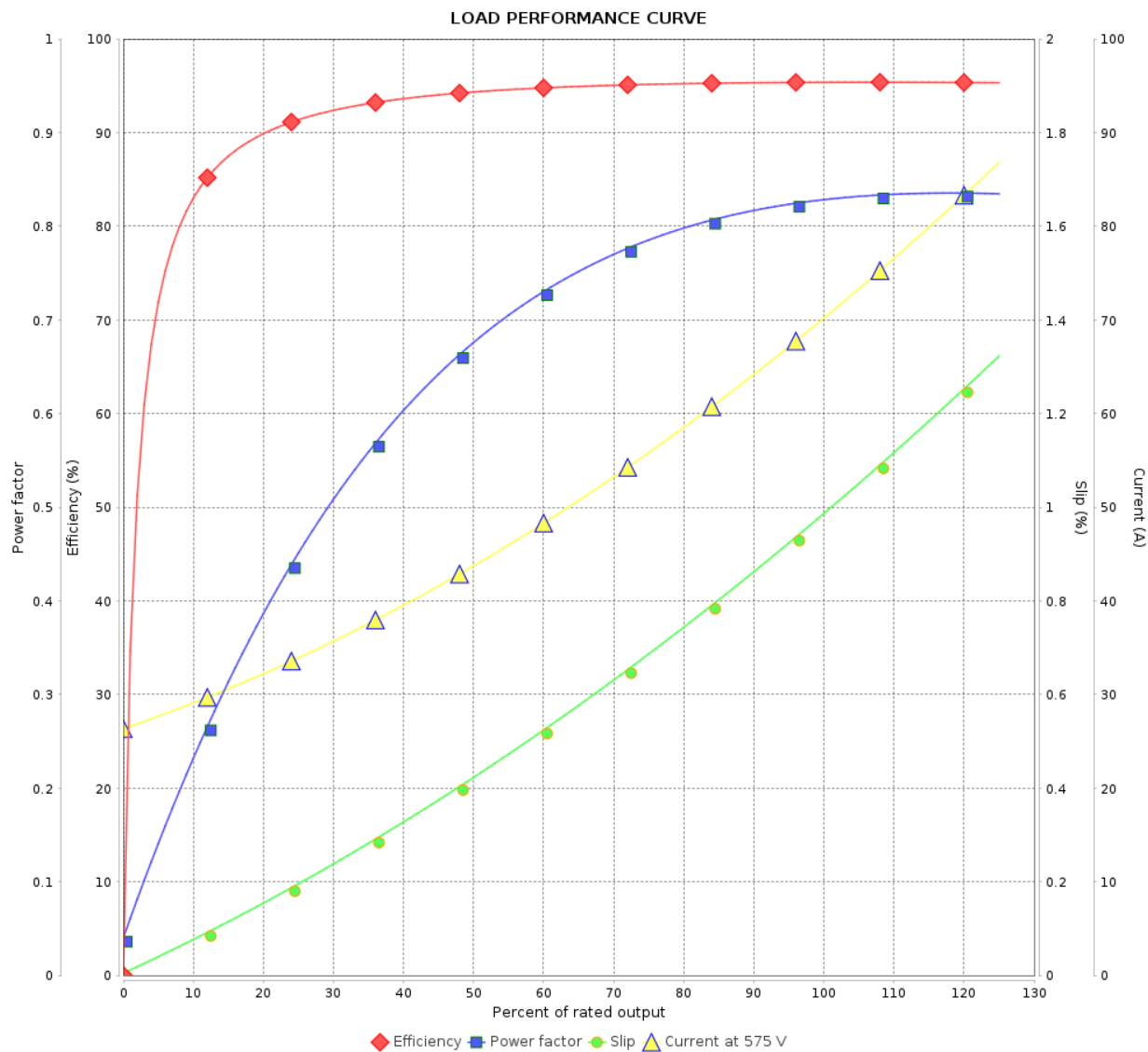
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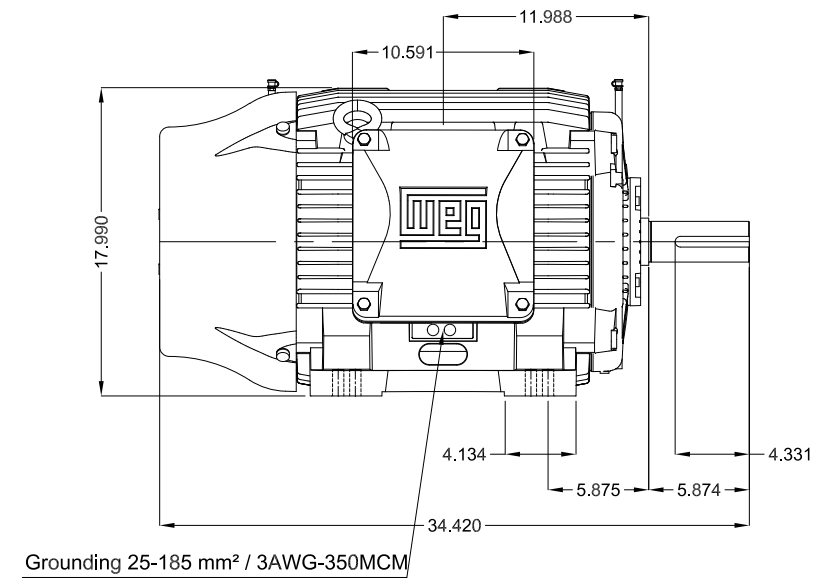


Performance : 575 V 60 Hz 4P

Rated current : 69.8 A  
LRC : 6.4  
Rated torque : 30.5 kgfm  
Locked rotor torque : 240 %  
Breakdown torque : 260 %  
Rated speed : 1780 rpm

Moment of inertia (J) : 0.9798 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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|                                    |  |
|------------------------------------|--|
| Grease outlet according to IEEE841 |  |
| Color RAL 5009                     |  |
| Painting plan 222E                 |  |
| Mounting B3R(D)                    |  |

DUNC 3/4"-10 WEG WPR-7339