

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase      Product code : 14836780

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 284/6JP                 | Locked rotor time           | : 18s (cold) 10s (hot) |
| Output                | : 30 HP (22 kW)           | Temperature rise            | : 80 K                 |
| Poles                 | : 2                       | 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         | : 28.7 A                  | Protection degree           | : IP23                 |
| L. R. Amperes         | : 181 A                   | Cooling method              | : IC01 - ODP           |
| LRC                   | : 6.3x(Code G)            | Mounting                    | : W-6                  |
| No load current       | : 10.0 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 3545 rpm                | Noise level <sup>2</sup>    | : 73.0 dB(A)           |
| Slip                  | : 1.53 %                  | Starting method             | : Direct On Line       |
| Rated torque          | : 6.14 kgfm               | Approx. weight <sup>3</sup> | : 147 kg               |
| Locked rotor torque   | : 200 %                   |                             |                        |
| Breakdown torque      | : 229 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.25                    |                             |                        |
| Moment of inertia (J) | : 0.0669 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |      |      |      |                  |         |
|----------------|------|------|------|------------------|---------|
| Output         | 50%  | 75%  | 100% | Foundation loads |         |
| Efficiency (%) | 90.2 | 91.7 | 91.7 | Max. traction    | : 0 kgf |
| Power Factor   | 0.71 | 0.80 | 0.84 | Max. compression | : 0 kgf |

|                      | Drive end              | Non drive end        |
|----------------------|------------------------|----------------------|
| Bearing type         | : 6311 Z C3            | 6211 Z C3            |
| Sealing              | : Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : 11517 h              | 14226 h              |
| Lubricant amount     | : 18 g                 | 11 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 |                 | Page      Revision<br>1 / 2 |         |      |
| Checked by   |                 |                             |         |      |
| Date         | 14/07/2026      |                             |         |      |

# LOAD PERFORMANCE CURVE

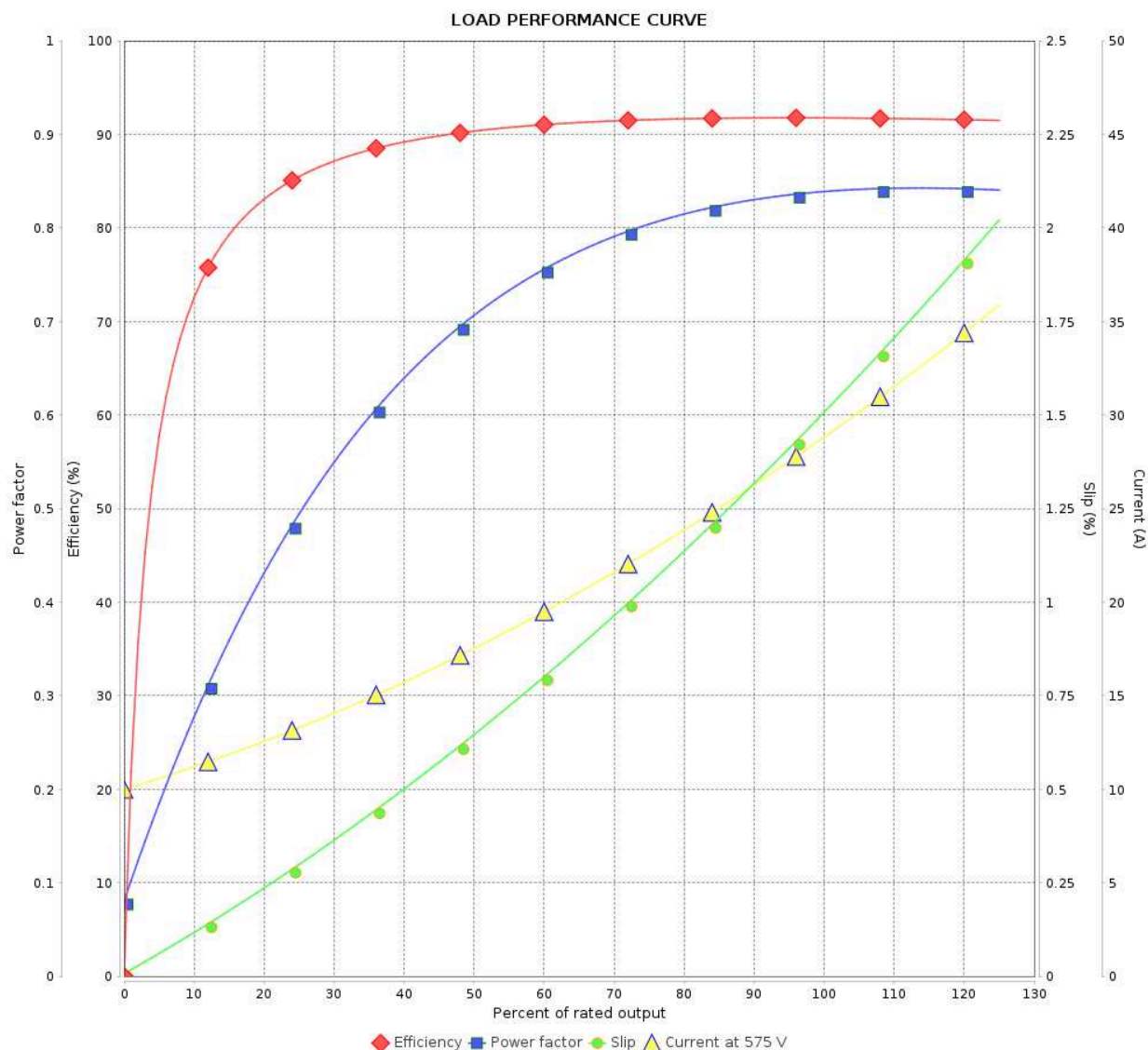
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Efficiency Three-Phase

Product code : 14836780

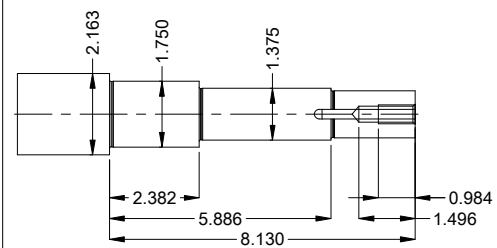
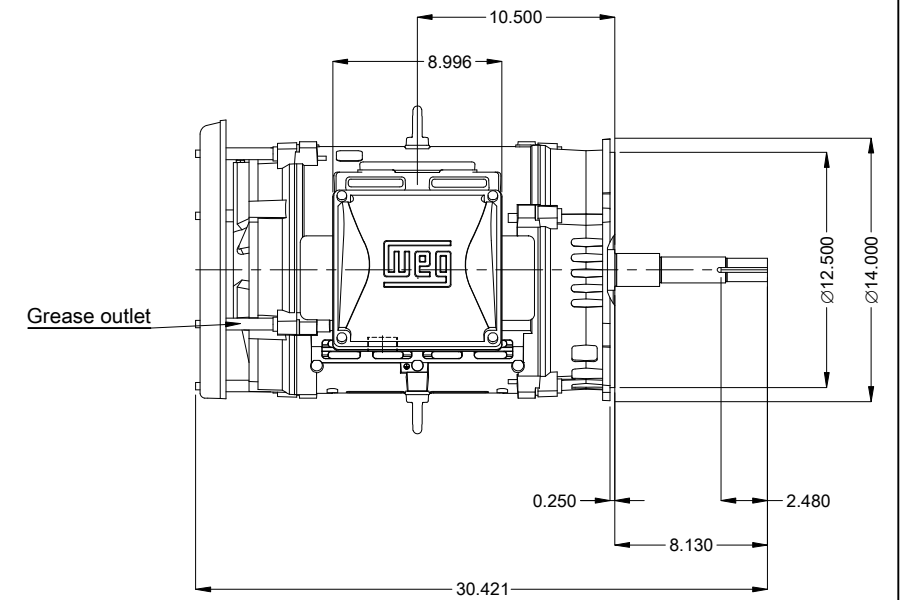
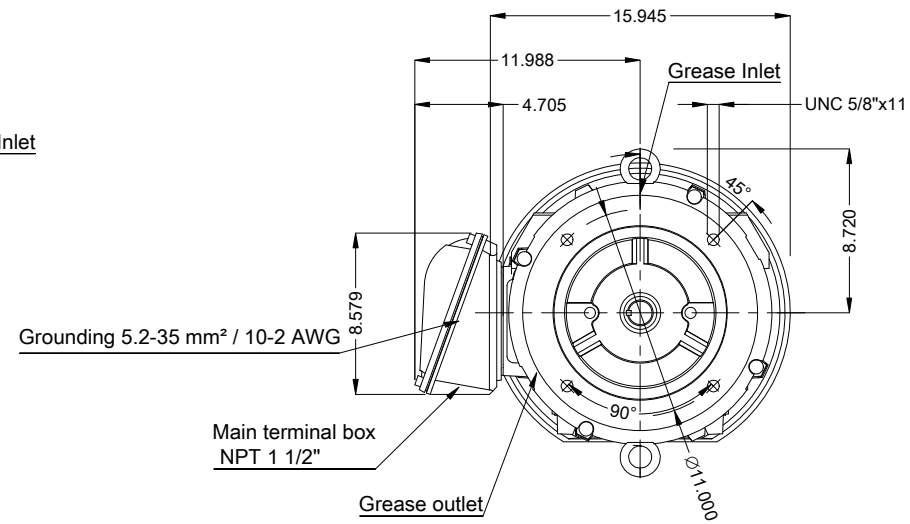


Performance : 575 V 60 Hz 2P

Rated current : 28.7 A  
LRC : 6.3  
Rated torque : 6.14 kgfm  
Locked rotor torque : 200 %  
Breakdown torque : 229 %  
Rated speed : 3545 rpm

Moment of inertia (J) : 0.0669 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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



Technical drawing of a mechanical part with dimensions: 0.250, 0.250, 1.110, and 1.2495.

|                    |
|--------------------|
| With drip cover    |
| Color RAL 5009     |
| Painting plan 203A |
| Mounting NEMA W-6  |
| Mounting V18       |

|                            |            |                                                                                       |                                                                       |  |  |            |                                                                           |          |                                                                                       |        |
|----------------------------|------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--|--|------------|---------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|--------|
| 30 HP    02 Poles    60 Hz |            |                                                                                       |                                                                       |  |  |            |                                                                           |          |                                                                                       | A      |
|                            |            |                                                                                       |                                                                       |  |  |            |                                                                           |          |                                                                                       |        |
|                            |            |                                                                                       |                                                                       |  |  | Scale      |                                                                           |          |                                                                                       | 1 : 10 |
|                            |            |                                                                                       |                                                                       |  |  | HYBRISUSER |                                                                           |          |                                                                                       | 00     |
| ECM                        | LOC        | SUMMARY OF MODIFICATIONS                                                              |                                                                       |  |  | EXECUTED   | CHECKED                                                                   | RELEASED | DATE                                                                                  | VER    |
| EXECUTED                   | HYBRISUSER |  | THREE PH. MOTOR W40 PUMP JP NEMA PREM. EFF.<br>FRAME 284/6JP IP23 ODP |  |  |            | <div> <div>PREVIEW</div> <div> <div>WDD</div> <div>00</div> </div> </div> |          |  |        |
| CHECKED                    |            |                                                                                       |                                                                       |  |  |            |                                                                           |          |                                                                                       |        |
| RELEASED                   |            |                                                                                       |                                                                       |  |  |            |                                                                           |          |                                                                                       |        |
| REL. DATE                  |            |                                                                                       |                                                                       |  |  |            |                                                                           |          |                                                                                       |        |
|                            |            |                                                                                       |                                                                       |  |  | SHEET      |                                                                           | 1 / 1    |                                                                                       |        |