

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase Product code : 19335432

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 284JM                   | Locked rotor time           | : 46s (cold) 26s (hot) |
| Output                | : 25 HP (18.5 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         | : 23.6 A                  | Protection degree           | : IP23                 |
| L. R. Amperes         | : 149 A                   | Cooling method              | : IC01 - ODP           |
| LRC                   | : 6.3x(Code G)            | Mounting                    | : F-1                  |
| No load current       | : 8.80 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1770 rpm                | Noise level <sup>2</sup>    | : 64.0 dB(A)           |
| Slip                  | : 1.67 %                  | Starting method             | : Direct On Line       |
| Rated torque          | : 10.3 kgfm               | Approx. weight <sup>3</sup> | : 168 kg               |
| Locked rotor torque   | : 220 %                   |                             |                        |
| Breakdown torque      | : 270 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.25                    |                             |                        |
| Moment of inertia (J) | : 0.1563 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |      |      |      |                  |         |
|----------------|------|------|------|------------------|---------|
| Output         | 50%  | 75%  | 100% | Foundation loads |         |
| Efficiency (%) | 93.0 | 93.6 | 93.6 | Max. traction    | : 0 kgf |
| Power Factor   | 0.69 | 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 | : 20000 h              | 20000 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<br>1 / 2<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 14/07/2026      |                           |         |      |

# LOAD PERFORMANCE CURVE

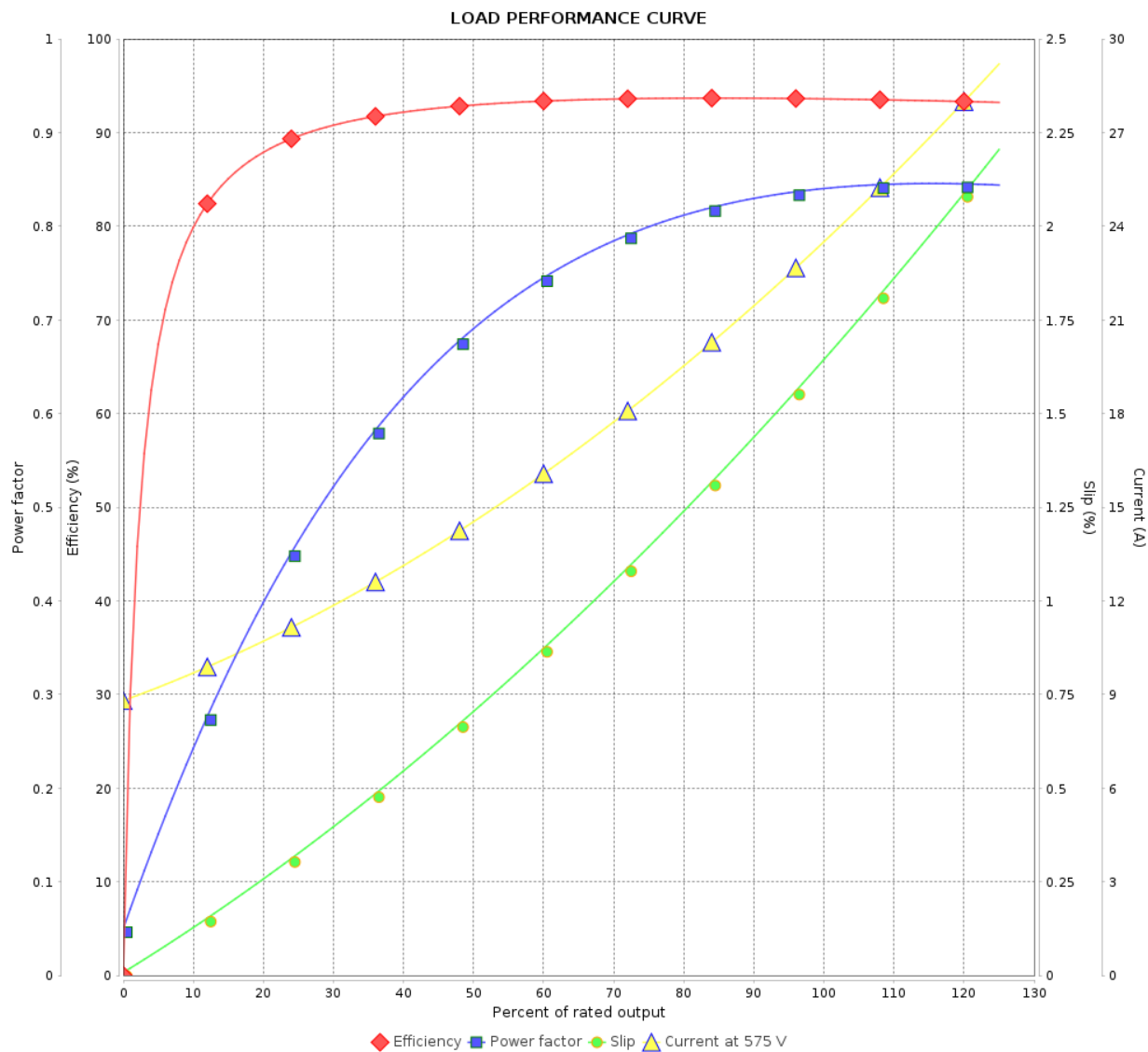
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Efficiency Three-Phase

Product code : 19335432

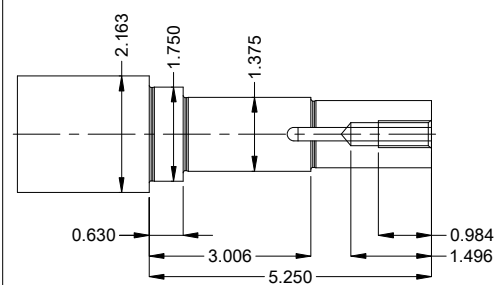
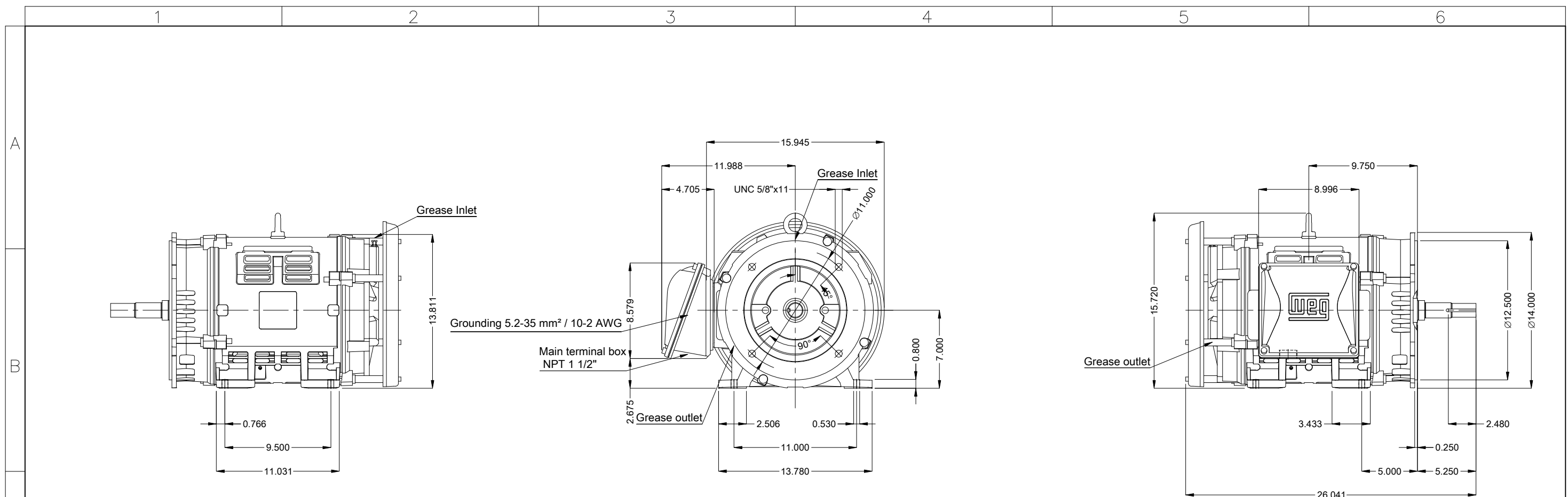


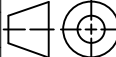
Performance : 575 V 60 Hz 4P

Rated current : 23.6 A  
LRC : 6.3  
Rated torque : 10.3 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 270 %  
Rated speed : 1770 rpm

Moment of inertia (J) : 0.1563 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<br>2 / 2 | Revision |
| Checked by   |                 |  |           |               |          |
| Date         | 14/07/2026      |  |           |               |          |



|                            |            |                                                                                       |                                                                     |  |  |            |         |                                                                                       |      |       |
|----------------------------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|--|--|------------|---------|---------------------------------------------------------------------------------------|------|-------|
| 25 HP    04 Poles    60 Hz |            |                                                                                       |                                                                     |  |  |            |         |                                                                                       |      | A     |
|                            |            |                                                                                       |                                                                     |  |  |            |         |                                                                                       |      |       |
|                            |            |                                                                                       |                                                                     |  |  | Scale      |         |                                                                                       |      | 1 : 9 |
|                            |            |                                                                                       |                                                                     |  |  |            |         |                                                                                       |      |       |
|                            |            |                                                                                       |                                                                     |  |  | HYBRISUSER |         |                                                                                       |      | 00    |
| ECM                        |            | LOC                                                                                   | SUMMARY OF MODIFICATIONS                                            |  |  | EXECUTED   | CHECKED | RELEASED                                                                              | DATE | VER   |
| EXECUTED                   | HYBRISUSER |  | THREE PH. MOTOR W40 PUMP JM NEMA PREM. EFF.<br>FRAME 284JM IP23 ODP |  |  | PREVIEW    |         |  |      |       |
| CHECKED                    |            |                                                                                       |                                                                     |  |  |            |         |                                                                                       |      |       |
| RELEASED                   |            |                                                                                       |                                                                     |  |  |            |         |                                                                                       |      |       |
| REL. DATE                  |            |                                                                                       |                                                                     |  |  |            |         |                                                                                       |      |       |
|                            |            |                                                                                       |                                                                     |  |  | SHEET      |         | 1 / 1                                                                                 |      |       |