

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14282622

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 404/5TS                 | Locked rotor time           | : 21s (cold) 12s (hot) |
| Output                | : 125 HP                  | 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         | : 111 A                   | Protection degree           | : IP23                 |
| L. R. Amperes         | : 723 A                   | Cooling method              | : IC01 - ODP           |
| LRC                   | : 6.5x(Code G)            | Mounting                    | : F-1                  |
| No load current       | : 34.4 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1775 rpm                | Starting method             | : Direct On Line       |
| Slip                  | : 1.39 %                  | Approx. weight <sup>3</sup> | : 446 kg               |
| Rated torque          | : 51.1 kgfm               |                             |                        |
| Locked rotor torque   | : 210 %                   |                             |                        |
| Breakdown torque      | : 229 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.15                    |                             |                        |
| Moment of inertia (J) | : 0.9076 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |       |      |      |      |                             |
|----------------|-------|------|------|------|-----------------------------|
| Output         | 25%   | 50%  | 75%  | 100% | Foundation loads            |
| Efficiency (%) | 0.000 | 94.1 | 94.5 | 94.5 | Max. traction : 928 kgf     |
| Power Factor   | 0.00  | 0.76 | 0.84 | 0.86 | Max. compression : 1385 kgf |

|                      |   |                      |                      |
|----------------------|---|----------------------|----------------------|
|                      |   | <u>Drive end</u>     | <u>Non drive end</u> |
| Bearing type         | : | 6314 C3              | 6212 Z C3            |
| Sealing              | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | 20000 h              | 20000 h              |
| Lubricant amount     | : | 27 g                 | 13 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      |                        |         |      |

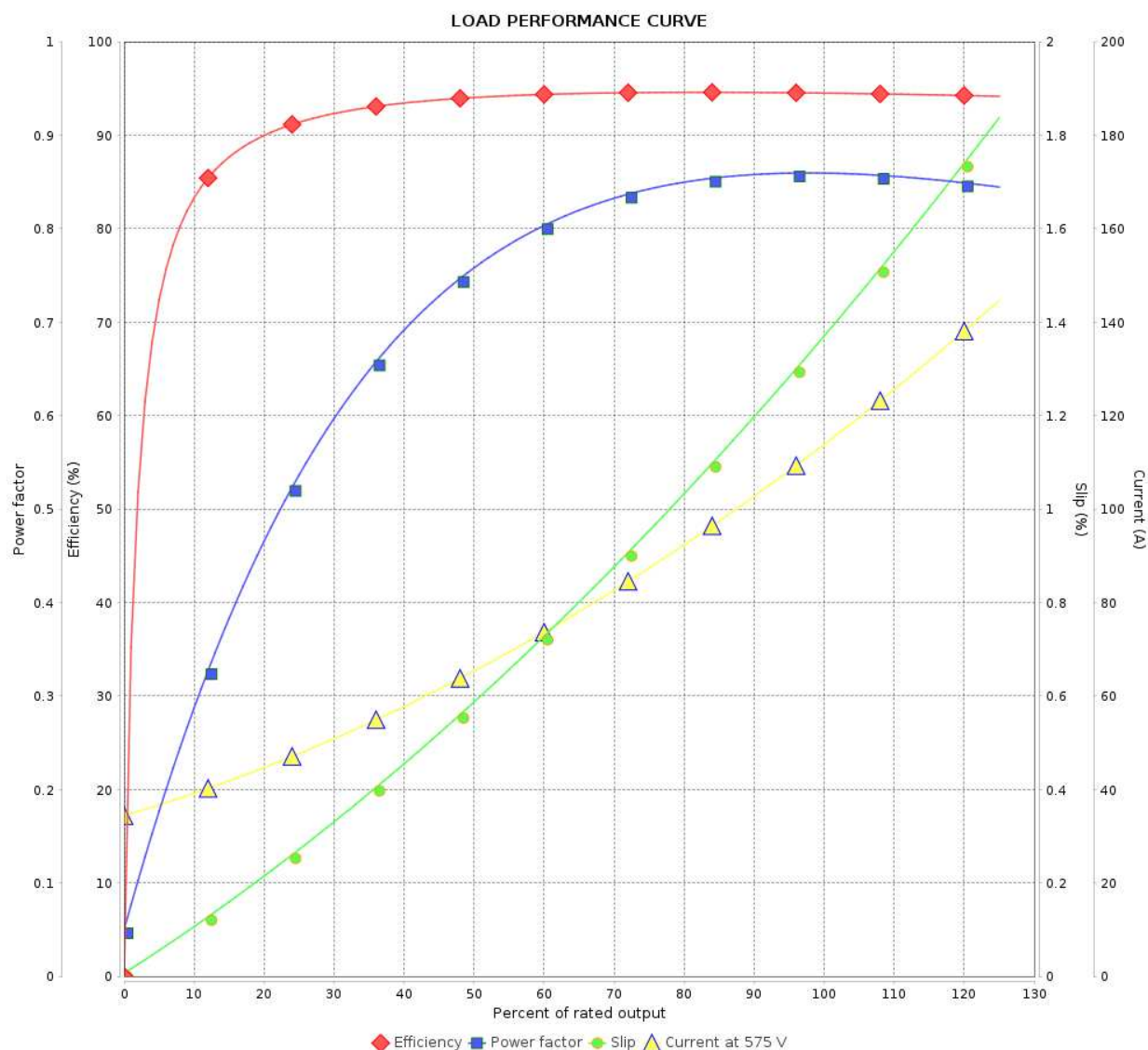
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14282622

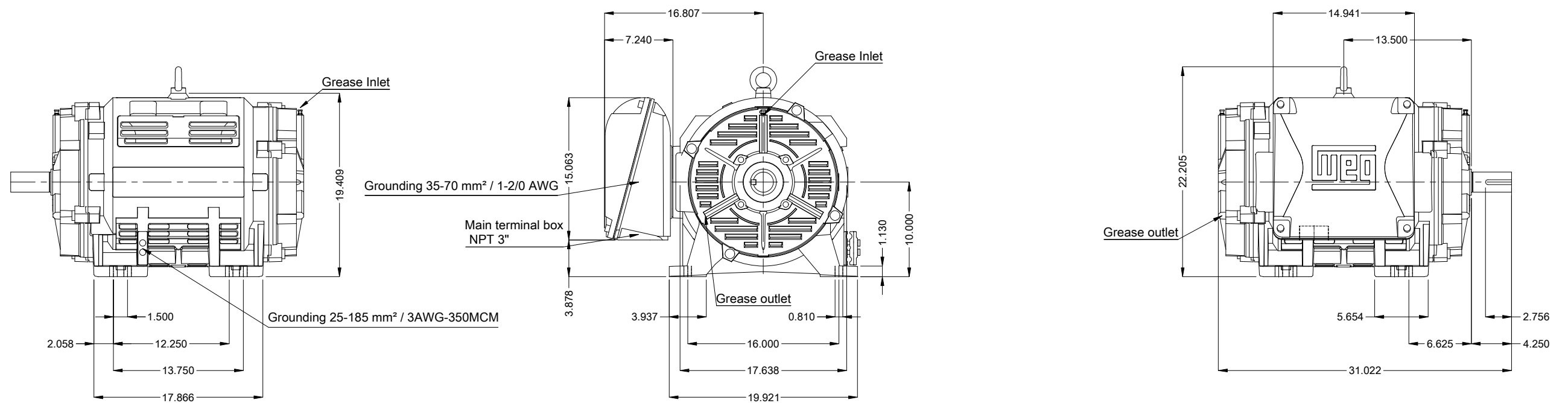


Performance : 575 V 60 Hz 4P

Rated current : 111 A  
LRC : 6.5  
Rated torque : 51.1 kgfm  
Locked rotor torque : 210 %  
Breakdown torque : 229 %  
Rated speed : 1775 rpm

Moment of inertia (J) : 0.9076 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed           | Checked | Date |
|--------------|-----------------|---------------------|---------|------|
|              |                 |                     |         |      |
| Performed by |                 | Page 2 / 2 Revision |         |      |
| Checked by   |                 |                     |         |      |
| Date         | 14/07/2026      |                     |         |      |



|                           |            |                                                                                       |                                                         |                          |  |                                        |         |                                                                                       |      |        |
|---------------------------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|--|----------------------------------------|---------|---------------------------------------------------------------------------------------|------|--------|
| 125 HP   04 Poles   60 Hz |            |                                                                                       |                                                         |                          |  |                                        |         |                                                                                       |      | A      |
|                           |            |                                                                                       |                                                         |                          |  |                                        |         |                                                                                       |      |        |
|                           |            |                                                                                       |                                                         |                          |  | Scale                                  |         |                                                                                       |      | 1 : 12 |
|                           |            |                                                                                       |                                                         |                          |  |                                        |         |                                                                                       |      |        |
|                           |            |                                                                                       |                                                         |                          |  | HYBRISUSER                             |         |                                                                                       |      | 00     |
| ECM                       |            | LOC                                                                                   |                                                         | SUMMARY OF MODIFICATIONS |  | EXECUTED                               | CHECKED | RELEASED                                                                              | DATE | VER    |
| EXECUTED                  | HYBRISUSER |  | THREE PH. MOTOR W40 HIGH EFF.<br>FRAME 404/5TS IP23 ODP |                          |  | <div>PREVIEW</div> <div>WDD   00</div> |         |  |      |        |
| CHECKED                   |            |                                                                                       |                                                         |                          |  |                                        |         |                                                                                       |      |        |
| RELEASED                  |            |                                                                                       |                                                         |                          |  |                                        |         |                                                                                       |      |        |
| REL. DATE                 |            |                                                                                       |                                                         |                          |  |                                        |         |                                                                                       |      |        |
|                           |            |                                                                                       |                                                         |                          |  | SHEET                                  |         | 1 / 1                                                                                 |      |        |