

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14490811

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 324TS                   | Locked rotor time           | : 36s (cold) 20s (hot) |
| Output                | : 40 HP (30 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         | : 39.0 A                  | Protection degree           | : IP23                 |
| L. R. Amperes         | : 234 A                   | Cooling method              | : IC01 - ODP           |
| LRC                   | : 6.0x(Code G)            | Mounting                    | : F-1                  |
| No load current       | : 15.2 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1770 rpm                | Starting method             | : Direct On Line       |
| Slip                  | : 1.67 %                  | Approx. weight <sup>3</sup> | : 208 kg               |
| Rated torque          | : 16.4 kgfm               |                             |                        |
| Locked rotor torque   | : 180 %                   |                             |                        |
| Breakdown torque      | : 210 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.15                    |                             |                        |
| Moment of inertia (J) | : 0.2264 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |      |      |      |                          |
|----------------|------|------|------|--------------------------|
| Output         | 50%  | 75%  | 100% | Foundation loads         |
| Efficiency (%) | 92.4 | 93.0 | 93.0 | Max. traction : 0 kgf    |
| Power Factor   | 0.71 | 0.80 | 0.83 | Max. compression : 0 kgf |

|                      |   |                      |                      |
|----------------------|---|----------------------|----------------------|
|                      |   | <u>Drive end</u>     | <u>Non drive end</u> |
| Bearing type         | : | 6312 Z C3            | 6211 Z C3            |
| Sealing              | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | 20000 h              | 20000 h              |
| Lubricant amount     | : | 21 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 |
|--------------|-----------------|---------------|----------|------|
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| Checked by   |                 |               |          |      |
| Date         | 14/07/2026      |               |          |      |
|              |                 |               | Revision |      |

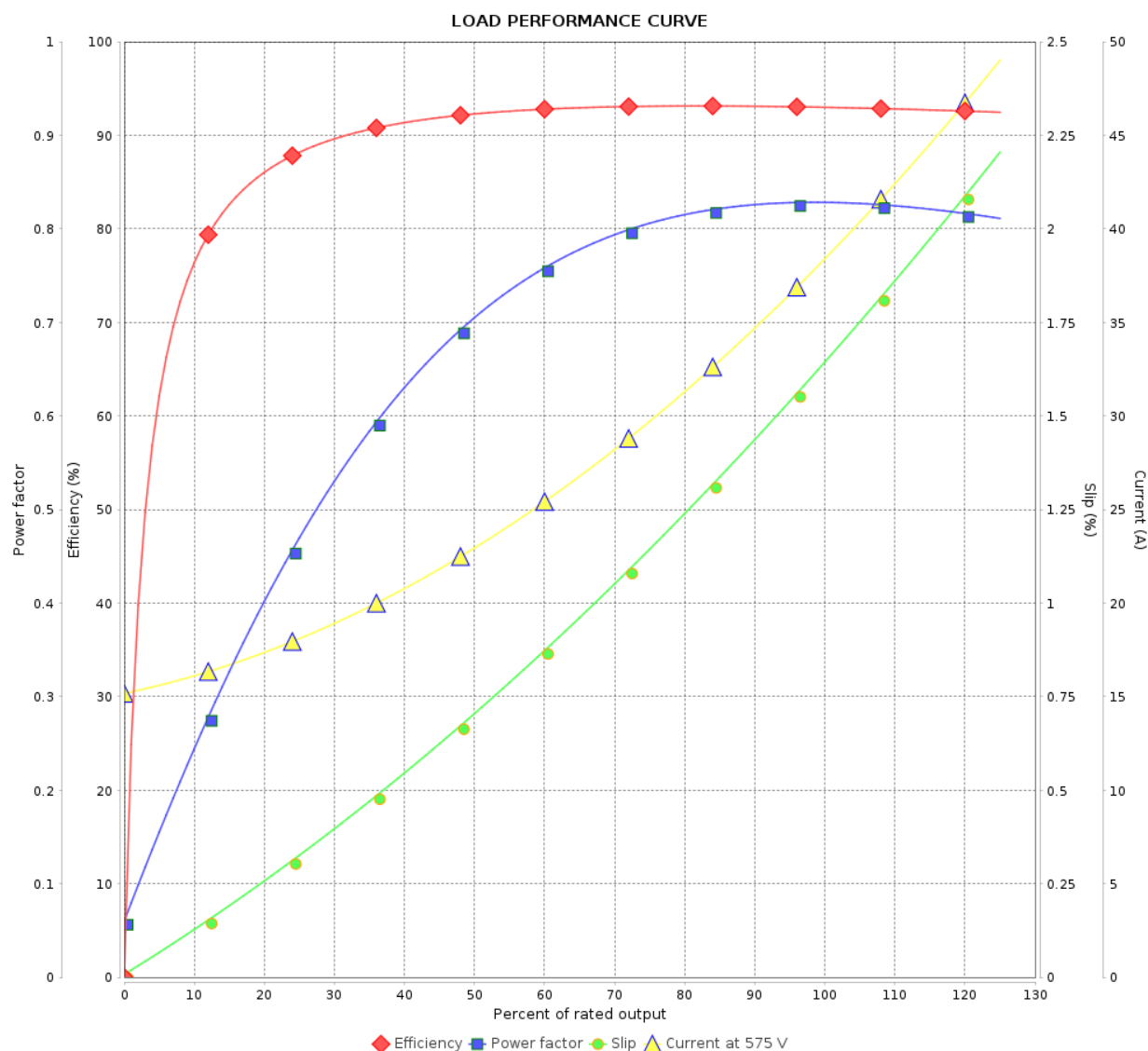
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14490811



Performance : 575 V 60 Hz 4P

Rated current : 39.0 A  
LRC : 6.0  
Rated torque : 16.4 kgfm  
Locked rotor torque : 180 %  
Breakdown torque : 210 %  
Rated speed : 1770 rpm

Moment of inertia (J) : 0.2264 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   |                 |                     |         |      |
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