

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase      Product code : 13030141

|                       |                         |                             |                        |
|-----------------------|-------------------------|-----------------------------|------------------------|
| Frame                 | : 444/5T                | Locked rotor time           | : 28s (cold) 16s (hot) |
| Output                | : 200 HP (150 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         | : 183 A                 | Protection degree           | : IP23                 |
| L. R. Amperes         | : 1118 A                | Cooling method              | : IC01 - ODP           |
| LRC                   | : 6.1x(Code F)          | Mounting                    | : F-1                  |
| No load current       | : 60.0 A                | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1780 rpm              | Noise level <sup>2</sup>    | : 78.0 dB(A)           |
| Slip                  | : 1.11 %                | Starting method             | : Direct On Line       |
| Rated torque          | : 81.5 kgfm             | Approx. weight <sup>3</sup> | : 660 kg               |
| Locked rotor torque   | : 200 %                 |                             |                        |
| Breakdown torque      | : 229 %                 |                             |                        |
| Insulation class      | : F                     |                             |                        |
| Service factor        | : 1.15                  |                             |                        |
| Moment of inertia (J) | : 2.09 kgm <sup>2</sup> |                             |                        |
| Design                | : B                     |                             |                        |

|                |      |      |      |                  |            |
|----------------|------|------|------|------------------|------------|
| Output         | 50%  | 75%  | 100% | Foundation loads |            |
| Efficiency (%) | 95.4 | 95.8 | 95.8 | Max. traction    | : 1310 kgf |
| Power Factor   | 0.76 | 0.83 | 0.86 | Max. compression | : 1971 kgf |

|                      | Drive end              | Non drive end          |
|----------------------|------------------------|------------------------|
| Bearing type         | : NU-319 C3            | : 6316 C3              |
| Sealing              | : Without Bearing Seal | : Without Bearing Seal |
| Lubrication interval | : 18825 h              | : 20000 h              |
| Lubricant amount     | : 45 g                 | : 34 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      Revision |         |      |
| Checked by   |                 |                             |         |      |
| Date         | 06/02/2024      |                             |         |      |

# LOAD PERFORMANCE CURVE

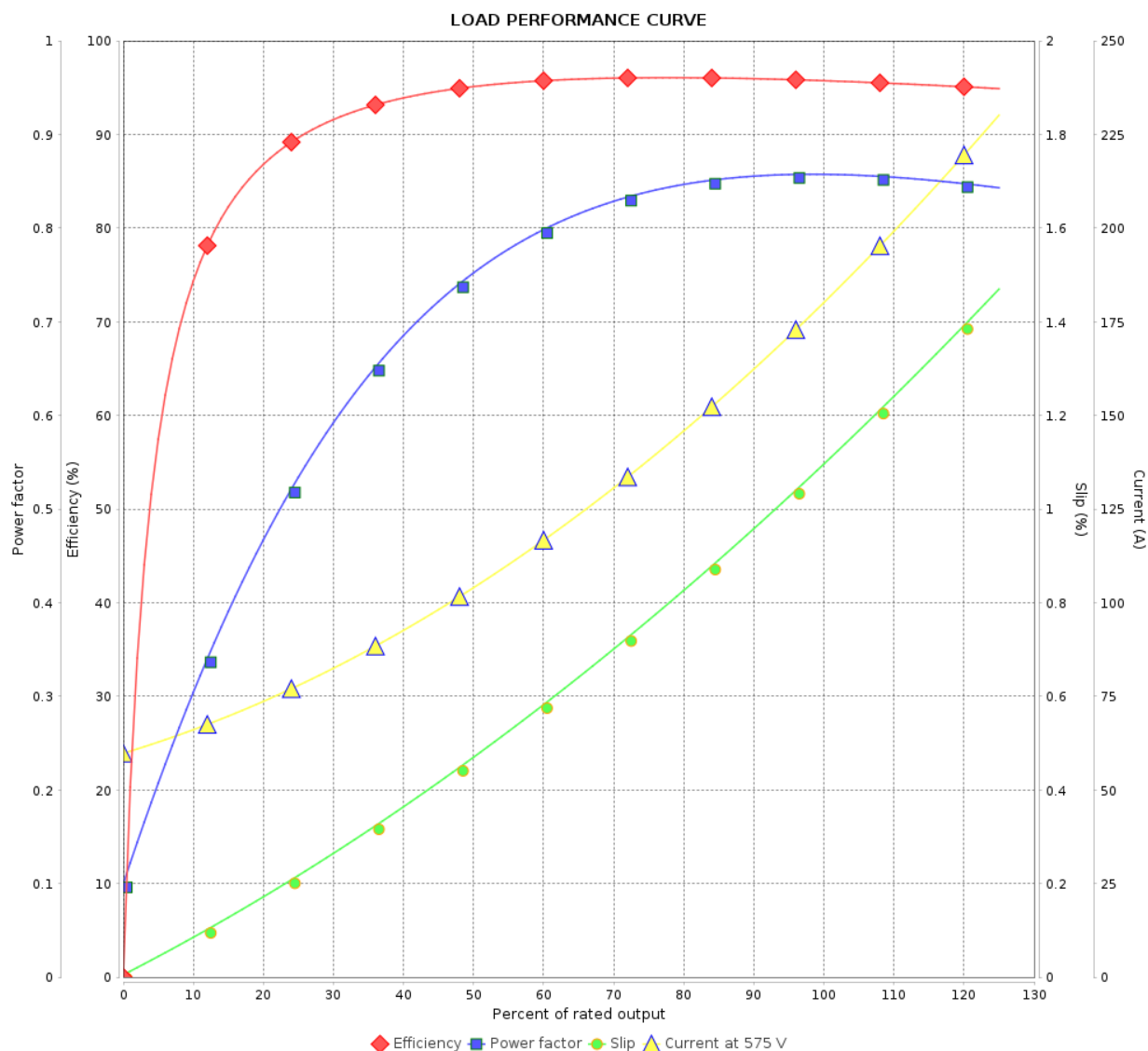
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13030141



Performance : 575 V 60 Hz 4P

|                     |             |                       |                         |
|---------------------|-------------|-----------------------|-------------------------|
| Rated current       | : 183 A     | Moment of inertia (J) | : 2.09 kgm <sup>2</sup> |
| LRC                 | : 6.1       | Duty cycle            | : Cont.(S1)             |
| Rated torque        | : 81.5 kgfm | Insulation class      | : F                     |
| Locked rotor torque | : 200 %     | Service factor        | : 1.15                  |
| Breakdown torque    | : 229 %     | Temperature rise      | : 80 K                  |
| Rated speed         | : 1780 rpm  | Design                | : B                     |

| Rev.         | Changes Summary | Performed             | Checked | Date |
|--------------|-----------------|-----------------------|---------|------|
|              |                 |                       |         |      |
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