

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | |
|-----------------------|---|-----------------------------|------------------------|
| Customer | : | | |
| Product line | : W40 NEMA Premium Efficiency Three-Phase | Product code : | 14427829 |
| Frame | : 404/5TSC | Locked rotor time | : 21s (cold) 12s (hot) |
| Output | : 125 HP | 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 | : 109 A | Protection degree | : IP23 |
| L. R. Amperes | : 740 A | Cooling method | : IC01 - ODP |
| LRC | : 6.8x(Code G) | Mounting | : F-1 |
| No load current | : 28.8 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3557 rpm | Noise level ² | : 84.0 dB(A) |
| Slip | : 1.19 % | Starting method | : Direct On Line |
| Rated torque | : 25.5 kgfm | Approx. weight ³ | : 402 kg |
| Locked rotor torque | : 170 % | | |
| Breakdown torque | : 260 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.3468 kgm ² | | |
| Design | : B | | |
| Output | 50% | 75% | 100% |
| Efficiency (%) | 93.0 | 94.1 | 94.1 |
| Power Factor | 0.79 | 0.86 | 0.88 |
| | | Foundation loads | |
| | | Max. traction | : 451 kgf |
| | | Max. compression | : 853 kgf |

| | Drive end | Non drive end |
|----------------------|------------------------|----------------------|
| Bearing type | : 6314 C3 | 6212 Z C3 |
| Sealing | : Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : 14418 h | 20000 h |
| Lubricant amount | : 27 g | 13 g |
| Lubricant type | : Mobil Polyrex EM | |

Notes:

| | |
|---|---|
| <p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p> | <p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p> |
|---|---|

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|----------|
| | | | | |
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 15/01/2024 | | 1 / 2 | |

LOAD PERFORMANCE CURVE

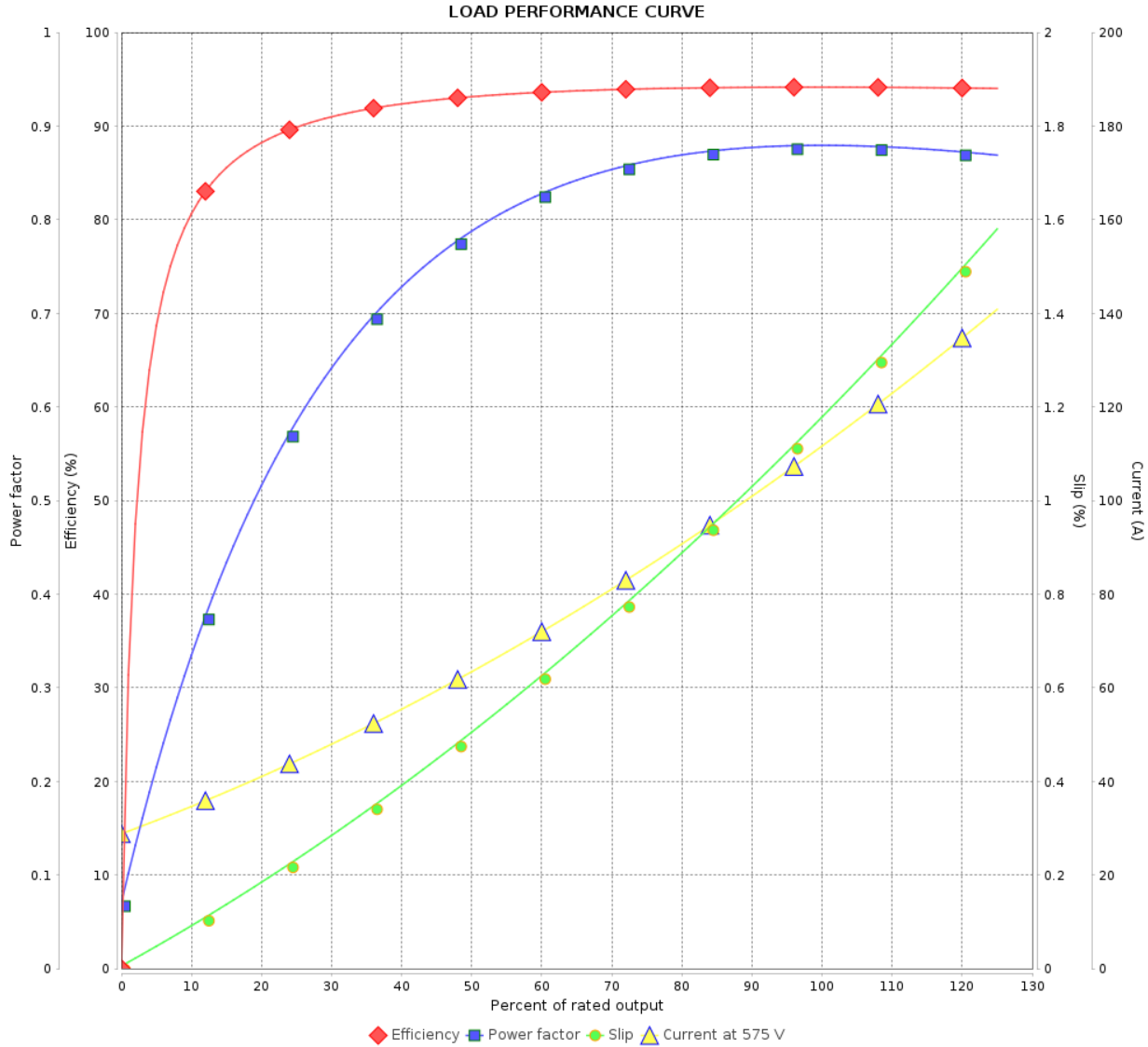
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14427829



Performance : 575 V 60 Hz 2P

Rated current : 109 A
 LRC : 6.8
 Rated torque : 25.5 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 260 %
 Rated speed : 3557 rpm

Moment of inertia (J) : 0.3468 kgm²
 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 2 / 2 | Revision |
| Checked by | | | | |
| Date | 15/01/2024 | | | |