DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-Product code: 14432928

Cooling method Frame : 444/5T : IC01 - ODP

Insulation class : F Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ Altitude : 1000 m.a.s.l. : 600 kg : 1.77 kgm²

Protection degree : IP23 Moment of inertia (J)

| Design | | : B | | | |
|--------------------------|----------------|----------------------|----------------------|----------------------|----------------------|
| Output [HP] | | 150 | 125 | 125 | 125 |
| Poles | | 4 | 4 | 4 | 4 |
| Frequency [Hz] | | 60 | 50 | 50 | 50 |
| Rated voltage [V] | | 460 | 380 | 400 | 415 |
| Rated current [A] | | 170 | 169 | 162 | 158 |
| L. R. Amperes [A] | | 1105 | 1183 | 1199 | 1138 |
| LRC [A] | | 6.5x(Code G) | 7.0x(Code G) | 7.4x(Code H) | 7.2x(Code H) |
| No load current [A | .] | 58.0 | 57.7 | 62.5 | 66.5 |
| Rated speed [RPI | Л] | 1784 | 1485 | 1485 | 1485 |
| Slip [%] | | 0.89 | 1.00 | 1.00 | 1.00 |
| Rated torque [kgfm] | | 61.0 | 61.1 | 61.1 | 61.1 |
| Locked rotor torque [%] | | 200 | 190 | 220 | 240 |
| Breakdown torque [%] | | 240 | 240 | 270 | 290 |
| Service factor | Service factor | | 1.00 | 1.00 | 1.00 |
| Temperature rise | | 80 K | 80 K | 80 K | 80 K |
| Locked rotor time | | 39s (cold) 22s (hot) | 37s (cold) 21s (hot) | 36s (cold) 20s (hot) | 39s (cold) 22s (hot) |
| Noise level ² | | 78.0 dB(A) | | | |
| | 25% | | | | |
| Efficiency (%) | 50% | 95.4 | 94.9 | 94.9 | 95.1 |
| Elliciency (70) | 75% | 95.8 | 95.3 | 95.3 | 95.3 |
| | 100% | 95.8 | 95.3 | 95.3 | 95.3 |
| | 25% | | | | |
| Power Factor | 50% | 0.74 | 0.74 | 0.70 | 0.68 |
| I OWEI Facior | 75% | 0.82 | 0.82 | 0.80 | 0.78 |
| | 100% | 0.85 | 0.85 | 0.84 | 0.83 |

Non drive end Foundation loads Drive end Bearing type 6319 C3 6212 Z C3

Max. traction : 1249 kgf Sealing Without Without Max. compression : 1849 kgf

Bearing Seal Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 45 g 13 g

Mobil Polyrex EM Lubricant type

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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| Date | 15/01/2024 | | | 1/5 | |

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

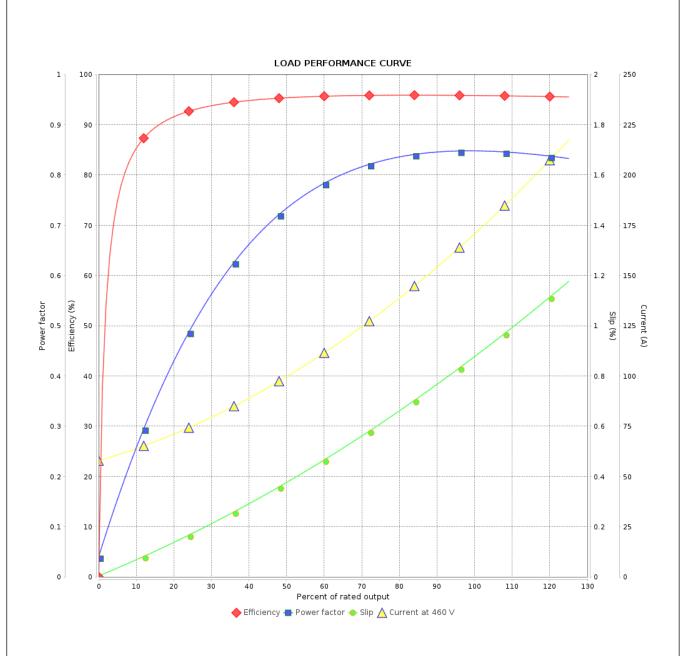
Product code:

14432928

Phase

15/01/2024

Date



| | | 10- | | | |
|--|------------------|--|--|--|----------|
| Performance | : 460 V 60 Hz 4P | | | | |
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 1.77 kgm² : Cont.(S1) : F : 1.25 : 80 K : B | |
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Three Phase Induction Motor - Squirrel Cage



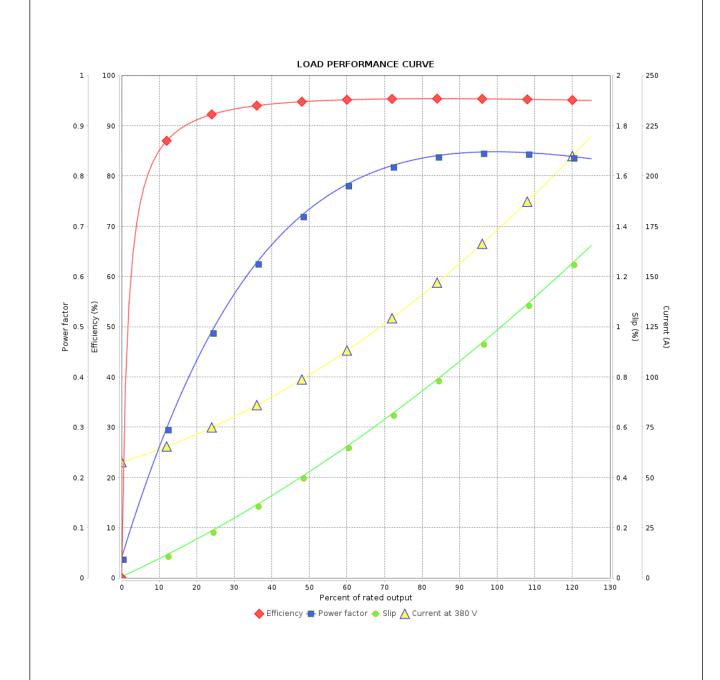
Customer :

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Product code:

14432928



| Performance | : 3 | 80 V 50 Hz 4P IE3 | | | | |
|--------------------|------------|-------------------|------------------|---------------|-------------|----------|
| Rated current | : 10 | 69 A | Moment o | f inertia (J) | : 1.77 kgm² | |
| LRC | : 7. | .0 | Duty cycle | | : Cont.(S1) | |
| Rated torque | : 6 | 1.1 kgfm | Insulation class | | : F | |
| Locked rotor torqu | ue : 19 | 90 % | Service factor | | : 1.00 | |
| Breakdown torque | e : 24 | 40 % | Temperati | ure rise | : 80 K | |
| Rated speed | : 14 | 485 rpm | Design | | : B | |
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-

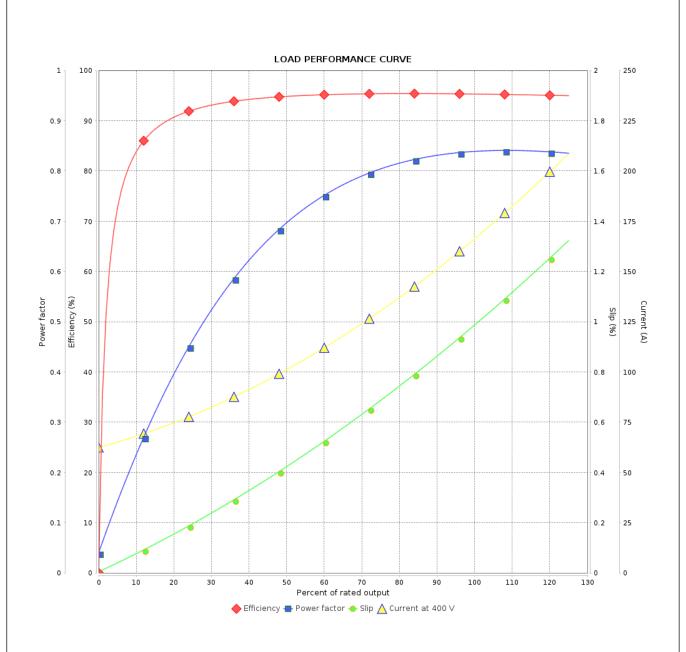
Product code:

14432928



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Date



| Performance | : 400 V 50 Hz 4P IE | ≣3 | | | |
|--|---------------------|--|---|---------|----------|
| Rated current LRC Rated torque Locked rotor torq Breakdown torqu | | Duty cycle Insulation of Service fac | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise | | |
| Rated speed | : 1485 rpm | • | Design | | |
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Three Phase Induction Motor - Squirrel Cage

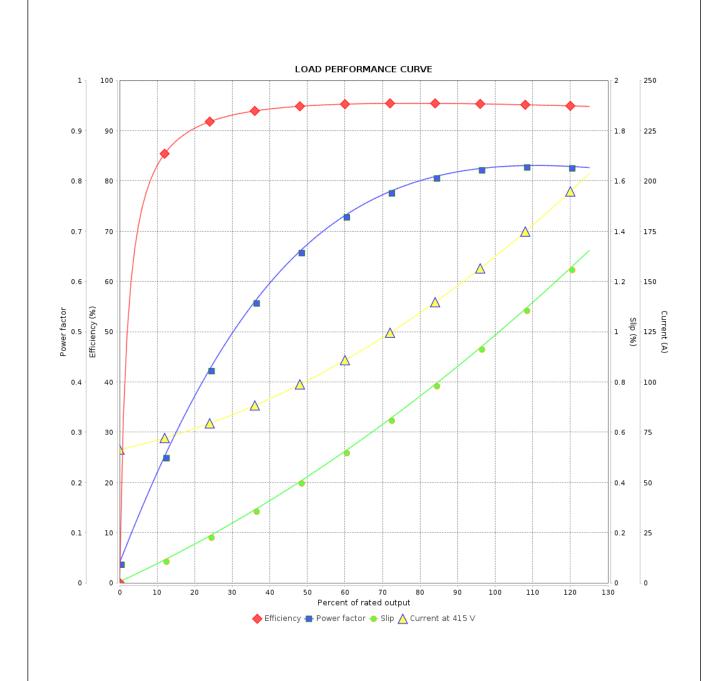


14432928

Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code :

Phase



| Performance | : 4 | 415 V 50 Hz 4P IE3 | | | | |
|----------------------|------------|--------------------|-----------------------|---------|-------------|----------|
| Rated current | : . | 158 A | Moment of inertia (J) | | : 1.77 kgm² | |
| LRC | | 7.2 | Duty cycle | | : Cont.(S1) | |
| Rated torque | : (| 61.1 kgfm | Insulation class | | : F | |
| Locked rotor torque | | 240 % | Service factor | | : 1.00 | |
| Breakdown torque | : 2 | 290 % | Temperature rise | | : 80 K | |
| Rated speed | : ' | 1485 rpm | Design | | : B | |
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| Checked by | | | | | Page | Revision |
| Date | 15/01/2024 | | | | 5/5 | |