DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : ODP NEMA Premium Efficiency Product code: 11997391

Three-Phase

: 324TC Frame Cooling method : IC01 - ODP Insulation class Mounting : F : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 218 kg

| Protection degree | | : IP23 | | Momer | nt of inertia (J) | : 0 | .2551 kgm² | |
|--------------------------|-------|-----------------|-----------------|--------------|-------------------|--------------|---|-----------------|
| Design | | : B | | | | | | |
| Output [HP] | | 40 | 30 | 30 | 30 | 40 | 40 | 40 |
| Poles | | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Frequency [Hz] | | 60 | 50 | 50 | 50 | 50 | 50 | 50 |
| Rated voltage [V] | | 230/460 | 380 | 400 | 415 | 380 | 400 | 415 |
| Rated current [A] | | 96.4/48.2 | 42.8 | 41.6 | 41.1 | 58.1 | 55.8 | 54.4 |
| L. R. Amperes [A] | | 598/299 | 270 | 291 | 312 | 279 | 301 | 321 |
| LRC [A] | | 6.2x(Code G) | 6.3x(Code G) | 7.0x(Code H) | 7.6x(Code J) | 4.8x(Code E) | 5.4x(Code F) | 5.9x(Code G) |
| No load current [A] | | 37.0/18.5 | 15.4 | 16.8 | 18.1 | 15.4 | 16.8 | 18.1 |
| Rated speed [RPM |] | 1775 | 1475 | 1475 | 1480 | 1465 | 1470 | 1475 |
| Slip [%] | | 1.39 | 1.67 | 1.67 | 1.33 | 2.33 | 2.00 | 1.67 |
| Rated torque [kgfm | | 16.4 | 14.8 | 14.8 | 14.7 | 19.8 | 19.7 | 19.7 |
| Locked rotor torque | e [%] | 220 | 240 | 270 | 290 | 180 | 200 | 220 |
| Breakdown torque | [%] | 229 | 340 | 370 | 400 | 250 | 280 | 300 |
| Service factor | | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| Temperature rise | | 80 K | 80 K | 80 K | 80 K | 80 K | 80 K | 80 K |
| Locked rotor time | | 50s (cold) | 36s (cold) | 32s (cold) | 30s (cold) | 36s (cold) | 32s (cold) | 30s (cold) |
| | | 28s (hot) | 20s (hot) | 18s (hot) | 17s (hot) | 20s (hot) | 18s (hot) | 17s (hot) |
| Noise level ² | | 64.0 dB(A) | | | | | | |
| | 25% | | | | | | | |
| Efficiency (%) | 50% | 93.6 | 90.1 | 89.9 | 89.8 | 91.7 | 91.7 | 91.7 |
| Eπiciency (%) | 75% | 94.1 | 91.7 | 91.7 | 92.0 | 91.7 | 91.7 | 92.4 |
| | 100% | 94.1 | 93.0 | 93.0 | 93.0 | 92.3 | 2.00 19.7 200 280 1.15 80 K 32s (cold) 18s (hot) 91.7 91.7 92.3 | 92.4 |
| | 25% | | | | | | | |
| Power Factor | 50% | 0.68 | 0.70 | 0.66 | 0.63 | 0.77 | 0.74 | 0.71 |
| I OWELL ACTOL | 75% | 0.78 | 0.80 | 0.77 | 0.74 | 0.84 | 0.82 | 0.80 |
| | 100% | 0.83 | 0.84 | 0.82 | 0.80 | 0.85 | 0.84 | 0.83 |

Drive end Non drive end Bearing type 6312 Z C3 6212 Z C3 Max. traction

> Without Without Bearing Seal Bearing Seal

20000 h Lubrication interval 20000 h Lubricant amount 21 g 13 g Mobil Polyrex EM Lubricant type

Foundation loads

: 634 kgf Max. compression : 852 kgf

Notes

Sealing

USABLE @208V 107A SF 1.15 SFA 123A

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 | | | | | |
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| Date | 13/11/2025 | | | 1/8 | |

Three Phase Induction Motor - Squirrel Cage

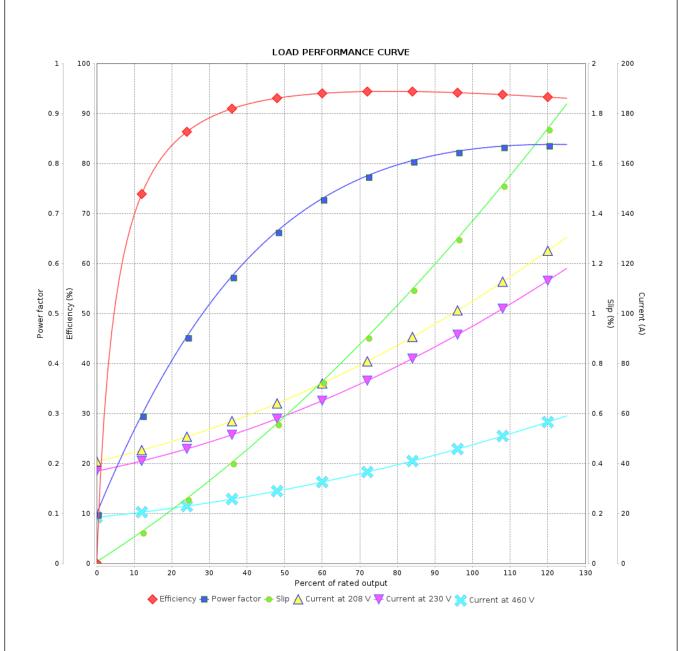


Customer :

Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 11997391



| Performance | : 230/460 V 60 Hz 4P | | | | |
|--|---|---|---------------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 96.4/48.2 A : 6.2 : 16.4 kgfm : 220 % : 229 % : 1775 rpm | Moment of Duty cycle Insulation of Service fact Temperatu Design | class ctor | : 0.2551 kgm² : Cont.(S1) : F : 1.15 : 80 K : B | 2 |
| Rev. | Changes Summary | | Performed | Checked | Date |
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Three Phase Induction Motor - Squirrel Cage



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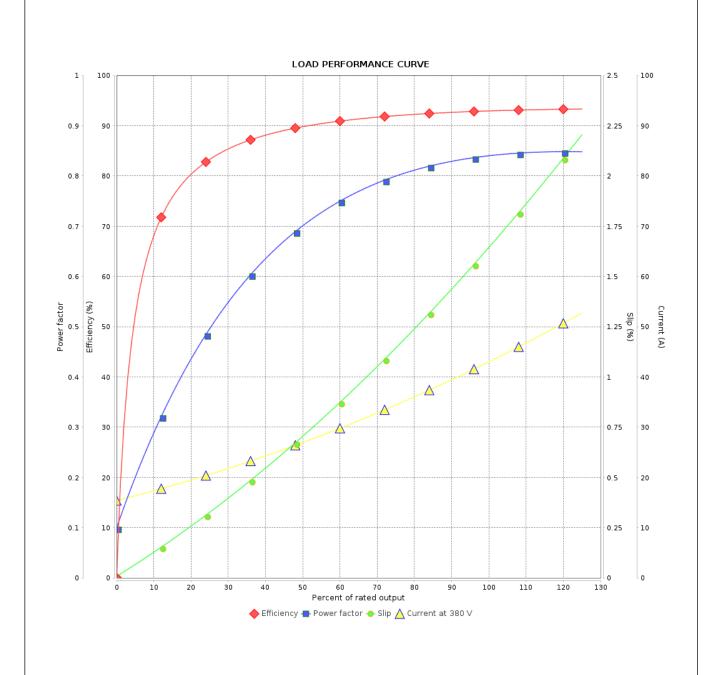
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Three-Phase



| Rev. | Changes Summary | , | Performed | Checked | Date | |
|---------------------|----------------------|-----------------------|------------------|---------------|--------|--|
| Rated speed | : 1475 rpm | Design | | : B | | |
| Breakdown torque | : 340 % | Temperat | Temperature rise | | : 80 K | |
| Locked rotor torque | : 240 % | Service fa | Service factor | | : 1.15 | |
| Rated torque | : 14.8 kgfm | Insulation | Insulation class | | : F | |
| LRC | : 6.3 | Duty cycle | | : Cont.(S1) | | |
| Rated current | : 42.8 A | Moment of inertia (J) | | : 0.2551 kgm² | | |
| Performance | : 380 V 50 Hz 4P IE3 | | | | | |

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Revision

Three Phase Induction Motor - Squirrel Cage



Customer :

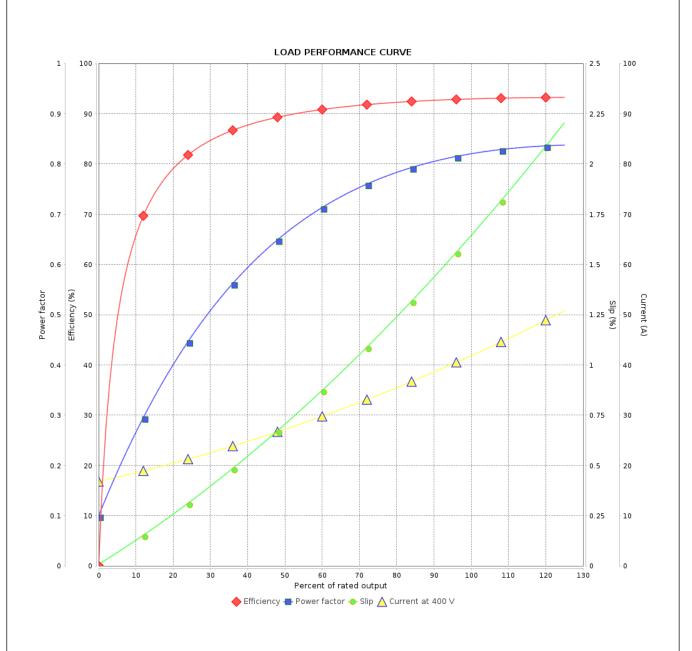
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Performance : 400 V 50 Hz 4P IE3 : 0.2551 kgm² Rated current : 41.6 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.0 Insulation class Rated torque : 14.8 kgfm : F Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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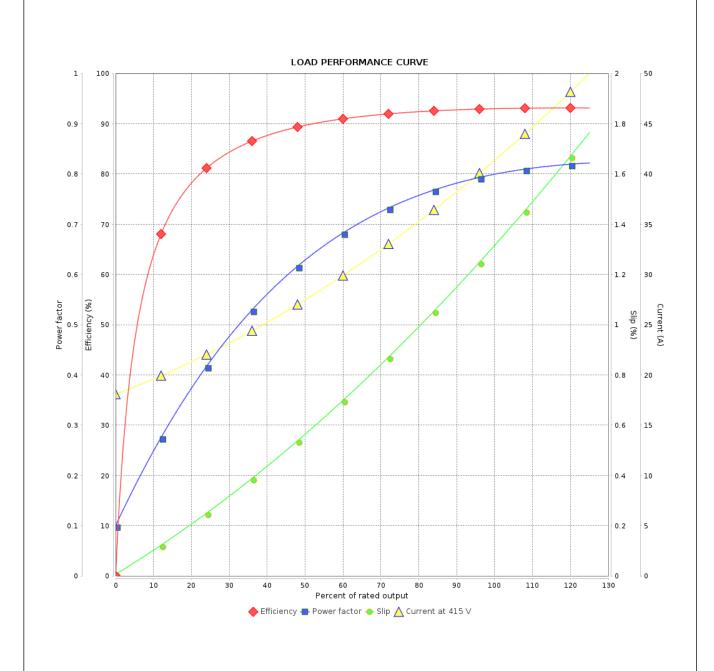
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase



| Performance | : 41 | 15 V 50 Hz 4P IE3 | | | | |
|---------------------|------------|-------------------|------------|-----------------------|---------|----------|
| Rated current | | 1.1 A | Moment of | Moment of inertia (J) | | 2 |
| LRC : | | 6 | Duty cycle | Duty cycle | | |
| Rated torque | | 1.7 kgfm | Insulation | Insulation class | | |
| Locked rotor torque | | 90 % | Service fa | ctor | : 1.15 | |
| Breakdown torqu | e : 40 | 00 % | Temperati | Temperature rise | | |
| Rated speed | : 14 | 180 rpm | Design | | : B | |
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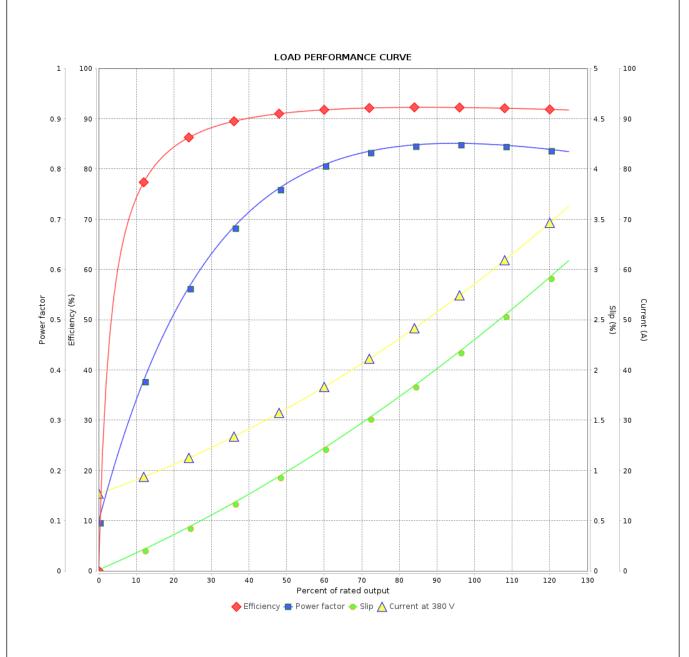


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| D (| | 0001/5011 4515 | | | | |
|-------------------|----------|-------------------|------------|-----------------------|---------|----------|
| Performance | <u>:</u> | 380 V 50 Hz 4P IE | :2 | | | |
| Rated current | | 58.1 A | 1 | Moment of inertia (J) | | 2 |
| LRC | | 4.8 | • | Duty cycle | | |
| Rated torque | | 19.8 kgfm | Insulation | Insulation class | | |
| Locked rotor torq | jue : | 180 % | Service fa | Service factor | | |
| Breakdown torqu | ie : | 250 % | Temperati | Temperature rise | | |
| Rated speed | : | 1465 rpm | Design | | : B | |
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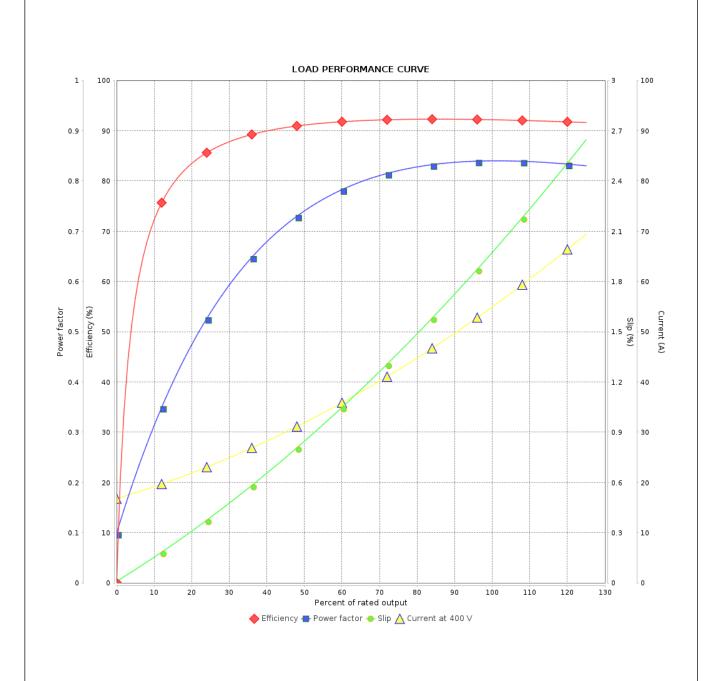
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Product line : ODP NEMA Premium Efficiency Product code : 11997391

Three-Phase



| Performance | : 400 V 50 Hz 4P IE2 | | | | |
|------------------------|----------------------|-----------------------|-----------|---------------|------|
| Rated current : 55.8 A | | Moment of inertia (J) | | : 0.2551 kgm² | |
| LRC | : 5.4 | Duty cycle |) | : Cont.(S1) | |
| Rated torque | : 19.7 kgfm | Insulation class | | :F | |
| Locked rotor torque | : 200 % | Service factor | | : 1.15 | |
| Breakdown torque | : 280 % | Temperature rise | | : 80 K | |
| Rated speed | : 1470 rpm | Design | | : B | |
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Three Phase Induction Motor - Squirrel Cage



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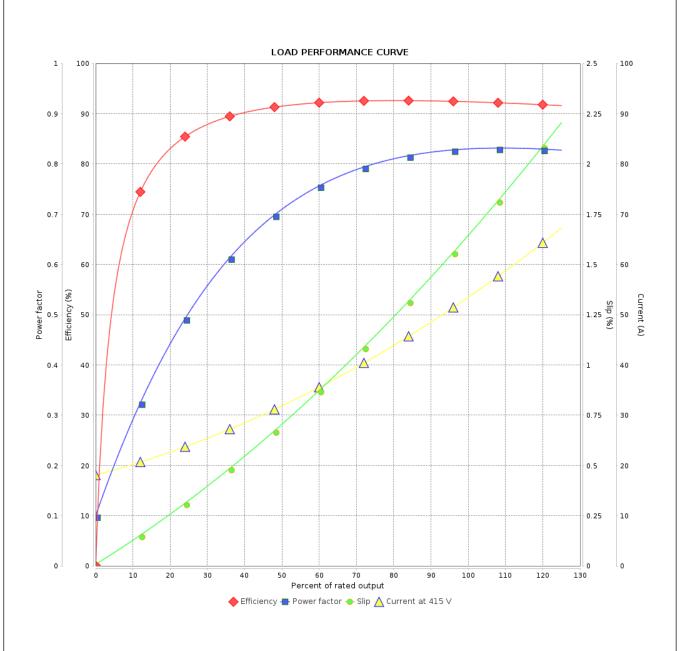
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Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 11997391



Performance : 415 V 50 Hz 4P IE2 : 0.2551 kgm² Rated current : 54.4 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 5.9 Insulation class Rated torque : 19.7 kgfm : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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