DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11439852

Catalog #: 07512XT3E405T

Frame : 404/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Starting method Ambient temperature : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 1224 lb Altitude

: IP55 Protection degree Moment of inertia (J) : 40.2 sq.ft.lb

| Design | | : B | | | · |
|--------------------------|-------------|----------------------|----------------------|----------------------|----------------------|
| Output [HP] | | 75 | 60 | 60 | 60 |
| Poles | | 6 | 6 | 6 | 6 |
| Frequency [Hz] | | 60 | 50 | 50 | 50 |
| Rated voltage [V] | | 230/460 | 380 | 400 | 415 |
| Rated current [A] | | 174/87.0 | 86.6 | 84.3 | 81.8 |
| L. R. Amperes [A] | | 1340/670 | 624 | 666 | 687 |
| LRC [A] | | 7.7x(Code J) | 7.2x(Code H) | 7.9x(Code J) | 8.4x(Code K) |
| No load current [A |] | 62.5/31.3 | 31.0 | 33.6 | 36.0 |
| Rated speed [RPN | <i>/</i> I] | 1185 | 985 | 987 | 988 |
| Slip [%] | | 1.25 | 1.50 | 1.30 | 1.20 |
| Rated torque [ft.lb] | | 332 | 320 | 319 | 319 |
| Locked rotor torque [%] | | 250 | 229 | 260 | 280 |
| Breakdown torque | [%] | 260 | 250 | 280 | 300 |
| Service factor | | 1.15 | 1.00 | 1.00 | 1.00 |
| Temperature rise | | 80 K | 80 K | 80 K | 80 K |
| Locked rotor time | | 27s (cold) 15s (hot) |
| Noise level ² | | 65.0 dB(A) | 61.0 dB(A) | 61.0 dB(A) | 61.0 dB(A) |
| | 25% | 94.4 | 93.9 | 93.9 | 93.4 |
| Efficiency (%) | 50% | 94.1 | 94.0 | 93.6 | 93.6 |
| Efficiency (70) | 75% | 95.0 | 94.0 | 94.5 | 94.5 |
| | 100% | 94.5 | 94.0 | 94.0 | 94.5 |
| | 25% | 0.47 | 0.47 | 0.43 | 0.39 |
| Power Factor | 50% | 0.72 | 0.72 | 0.68 | 0.64 |
| I OWEI FACIOI | 75% | 0.81 | 0.81 | 0.78 | 0.76 |
| | 100% | 0.84 | 0.84 | 0.82 | 0.81 |

Drive end Non drive end Foundation loads

Bearing type 6217 C3 6314 C3 Max. traction : 2257 lb Sealing Oil Seal Lip Seal Max. compression : 3481 lb

14267 h

Lubricant amount 27 g 21 g Mobil Polyrex EM

13507 h

Lubricant type

Notes

Lubrication interval

USABLE @208V 192A SF 1.00 SFA 192A

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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| Customer | | |
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Thermal protection

| | | <u> </u> | | |
|----|-------------|----------------------|-----------|---------------------|
| ID | Application | Туре | Quantity | Sensing Temperature |
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | 155 °C |

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Three Phase Induction Motor - Squirrel Cage

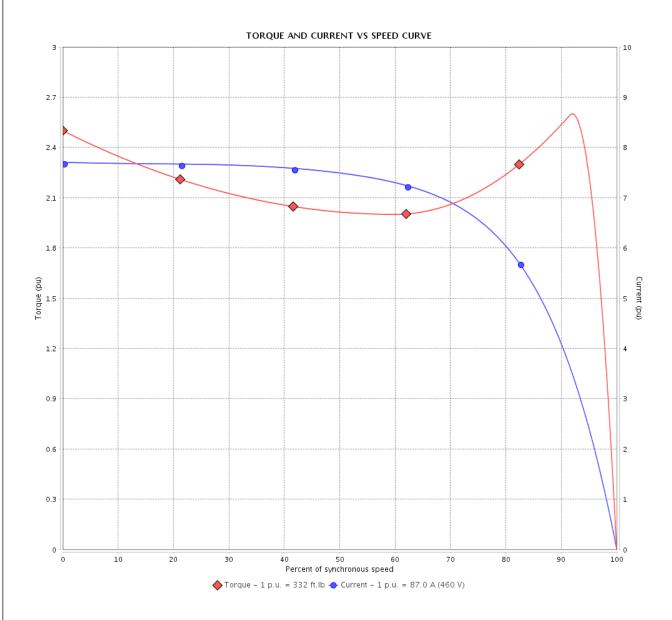


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11439852

Phase

Catalog #: 07512XT3E405T



Performance : 230/460 V 60 Hz 6P Rated current : 174/87.0 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 332 ft.lb Insulation class Rated torque : F : 250 % Locked rotor torque Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 1185 rpm Design

Locked rotor time : 27s (cold) 15s (hot)

| LOCKCO TOTOL UITIN | . 2 | 73 (6014) 103 (1101) | | | |
|--------------------|-----------------|----------------------|-----------|---------|----------|
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Three Phase Induction Motor - Squirrel Cage



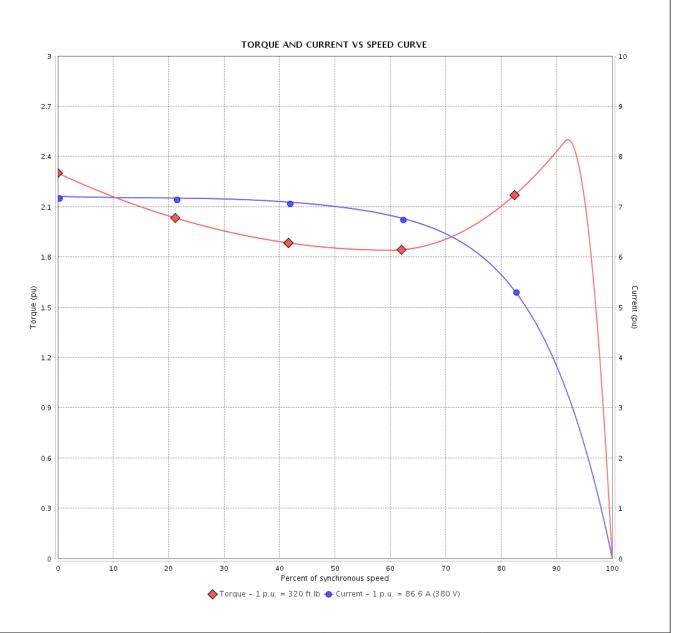
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11439852

Catalog #: 07512XT3E405T



: 380 V 50 Hz 6P IE3 Performance Rated current : 86.6 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 320 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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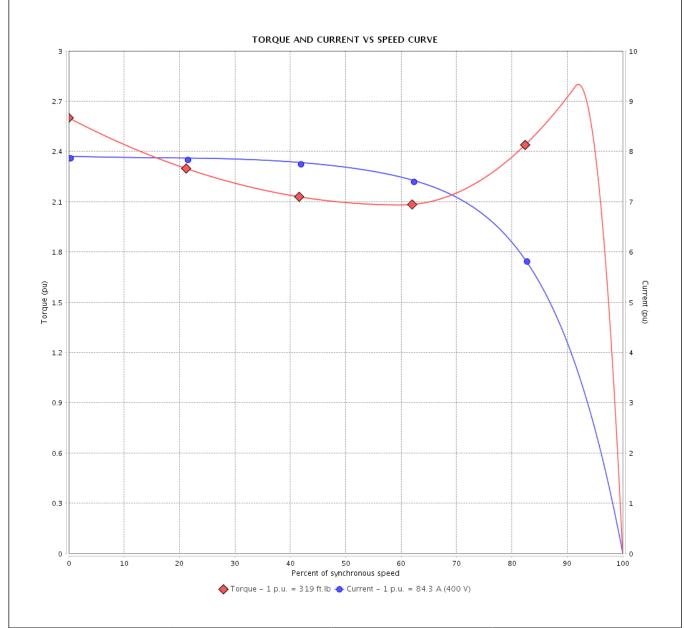
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11439852

Catalog #: 07512XT3E405T



| Performance | : 400 V 50 Hz 6P IE3 | | |
|---------------------|------------------------|-----------------------|-----------------|
| Rated current | : 84.3 A | Moment of inertia (J) | : 40.2 sq.ft.lb |
| LRC | : 7.9 | Duty cycle | : Cont.(S1) |
| Rated torque | : 319 ft.lb | Insulation class | : F |
| Locked rotor torque | : 260 % | Service factor | : 1.00 |
| Breakdown torque | : 280 % | Temperature rise | : 80 K |
| Rated speed | : 987 rpm | Design | : B |
| Locked reter time | : 27s (sold) 15s (hot) | | |

| LOCKEU TOLOT LITTLE | . 2 | 73 (Cold) 133 (110t) | | | |
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Three Phase Induction Motor - Squirrel Cage



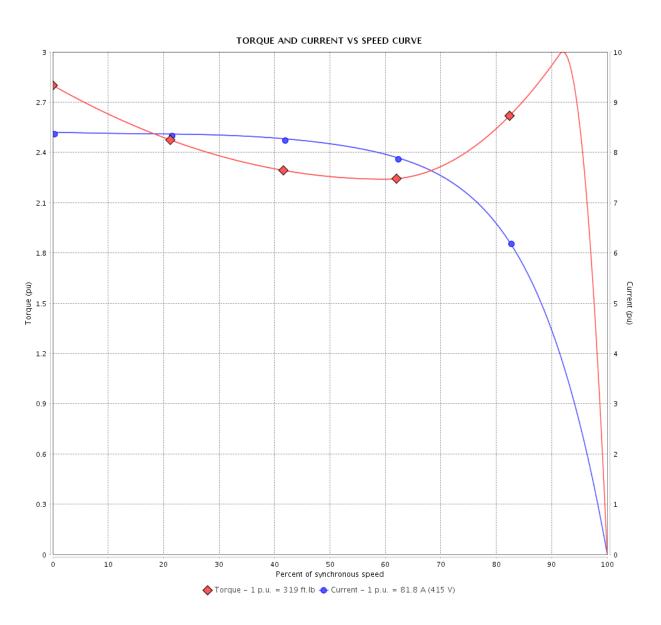
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11439852

Catalog #: 07512XT3E405T



| Performance | : 415 V 50 Hz 6P IE3 | | |
|---|-----------------------------------|--|--------------------------------|
| Rated current LRC | : 81.8 A : 8.4 | Moment of inertia (J) Duty cycle | : 40.2 sq.ft.lb : Cont.(S1) |
| Rated torque Locked rotor torque Breakdown torque | : 319 ft.lb : 280 % : 300 % | Insulation class Service factor Temperature rise | : F : 1.00 : 80 K |
| Rated speed | : 988 rpm | Design | : B |

Locked rotor time : 27s (cold) 15s (hot)

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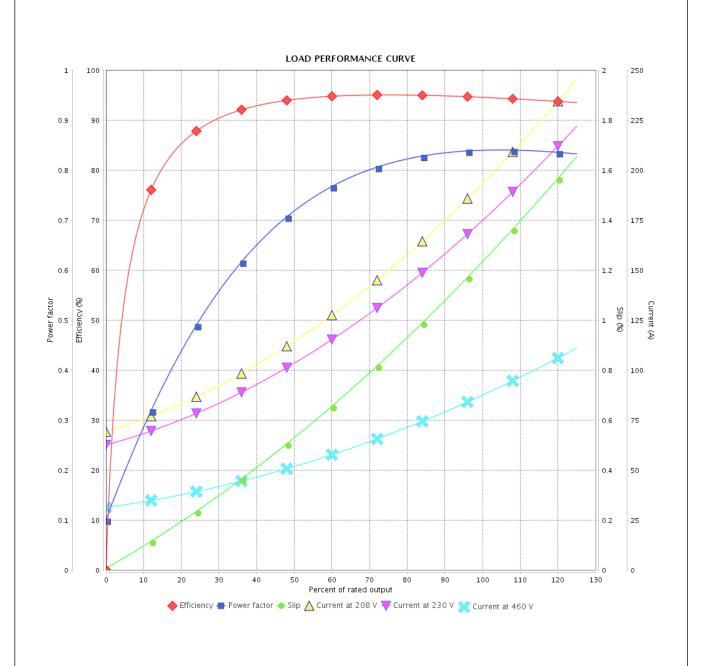


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11439852

Phase

Catalog #: 07512XT3E405T



| Performance | : | 230/460 V 60 Hz 6P | | | | |
|---------------------|------------|--------------------|------------------|---------------|-----------------|----------|
| Rated current | | 174/87.0 A | Moment o | f inertia (J) | : 40.2 sq.ft.lb | |
| LRC | : | 7.7 | Duty cycle | } | : Cont.(S1) | |
| Rated torque | : | 332 ft.lb | Insulation | class | : F | |
| Locked rotor torque | e : | 250 % | Service fa | ctor | : 1.15 | |
| Breakdown torque | | 260 % | Temperature rise | | : 80 K | |
| Rated speed | : | 1185 rpm | Design | | : B | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

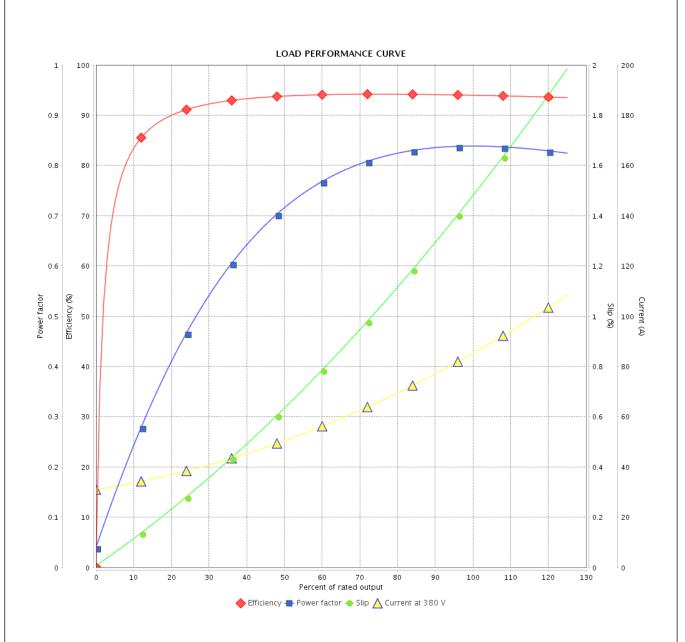
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Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11439852

Catalog #: 07512XT3E405T



| Performance | :: | 380 V 50 Hz 6P IE3 | | | | |
|---|---------|---|--|---------------|--|------|
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed | ine : 2 | 86.6 A 7.2 320 ft.lb 229 % 250 % 985 rpm | Moment of Duty cycle Insulation Service fa Temperation | class ctor | : 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
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Revision

Three Phase Induction Motor - Squirrel Cage

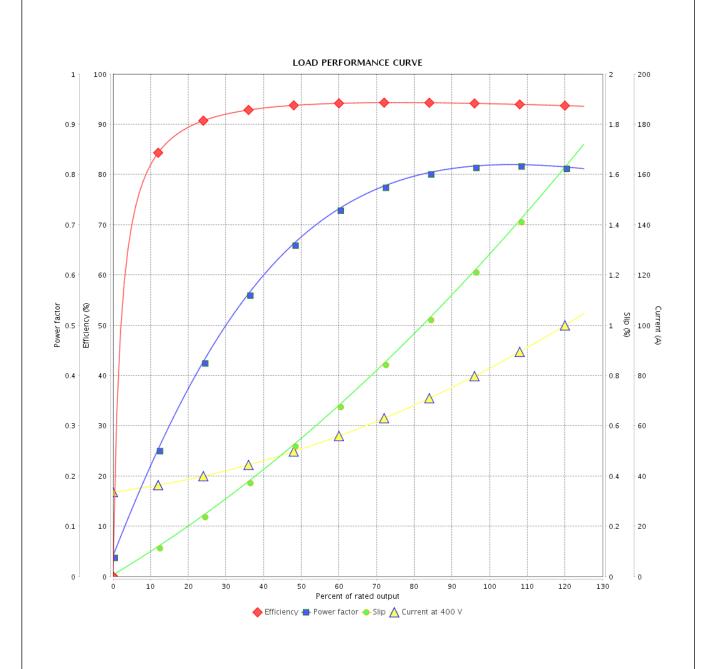


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11439852

Phase

Catalog #: 07512XT3E405T



| Performance | : 4 | 400 V 50 Hz 6P IE3 | } | | | |
|--------------------|------------|--------------------|---------------------------|-----------|-----------------|----------|
| Rated current | : 8 | 84.3 A | 3 A Moment of inertia (J) | | : 40.2 sq.ft.lb | |
| LRC | : 7 | 7.9 | Duty cycle | | , , | |
| Rated torque | : ; | 319 ft.lb | Insulation | class | : F | |
| Locked rotor torqu | ue : 2 | 260 % | Service fa | ctor | : 1.00 | |
| Breakdown torque | e : 2 | 280 % | Temperati | ıre rise | : 80 K | |
| Rated speed | : 9 | 987 rpm | Design | | : B | |
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Three Phase Induction Motor - Squirrel Cage



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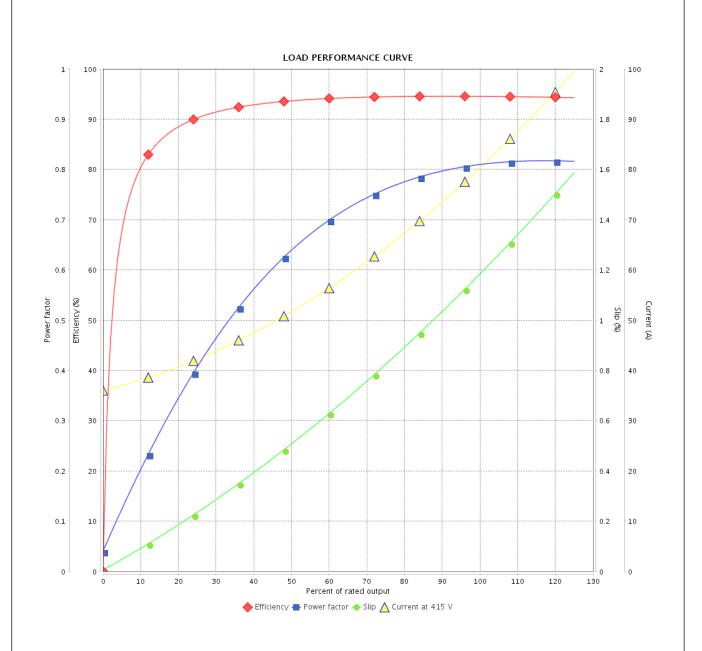
Product line : NEMA Premium Efficiency Three- Product code :

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Catalog #: 07512XT3E405T

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| Performance | : 415 V 50 Hz 6P IE3 | | | | |
|--|---|---|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 81.8 A : 8.4 : 319 ft.lb : 280 % : 300 % : 988 rpm | Moment of Duty cycle Insulation of Service fact Temperatu Design | class | : 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
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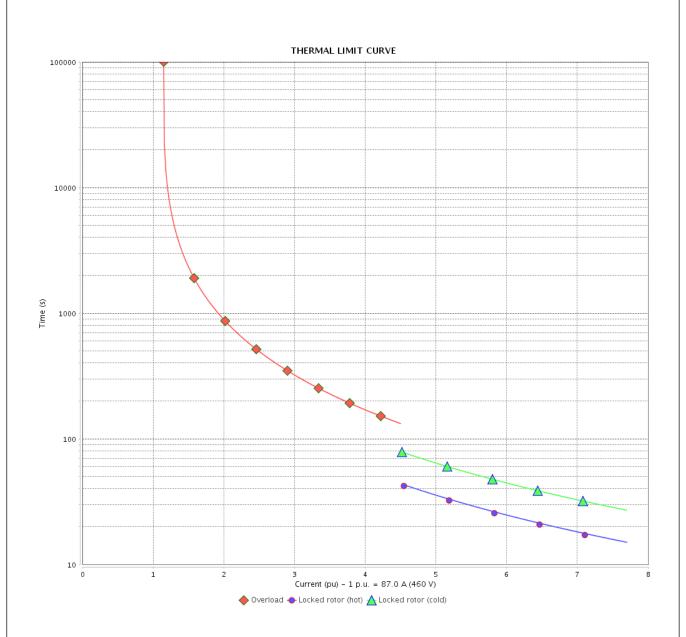


| Product line | : | NEMA Premium Efficiency T | hree- | Product code : | 11439852 | |
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| | l | Phase | | Catalog # : | 07512XT3E4 | 05T |
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| Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed | que : 2 | 7.7 332 ft.lb 250 % 260 % | Moment of Duty cycle Insulation Service fa Temperation Design | class ctor | : 40.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar | que : 2 | 174/87.0 A 7.7 332 ft.lb 250 % 260 % | Duty cycle Insulation Service fa Temperate | e class ictor | : Cont.(S1) : F : 1.15 : 80 K | |
| Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar | que : 2 | 174/87.0 A 7.7 332 ft.lb 250 % 260 % | Duty cycle Insulation Service fa Temperate | e class ictor | : Cont.(S1) : F : 1.15 : 80 K | Date |
| Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar | que : 2 ue : 2 | 174/87.0 A 7.7 332 ft.lb 250 % 260 % 1185 rpm | Duty cycle Insulation Service fa Temperate | class ctor ure rise | : Cont.(S1) : F : 1.15 : 80 K : B | Date |
| Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev. | que : 2 ue : 2 | 174/87.0 A 7.7 332 ft.lb 250 % 260 % 1185 rpm | Duty cycle Insulation Service fa Temperate | class ctor ure rise | : Cont.(S1) : F : 1.15 : 80 K : B | Date |
| Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar | que : 2 ue : 2 | 174/87.0 A 7.7 332 ft.lb 250 % 260 % 1185 rpm | Duty cycle Insulation Service fa Temperate | class ctor ure rise | : Cont.(S1) : F : 1.15 : 80 K : B | Date |

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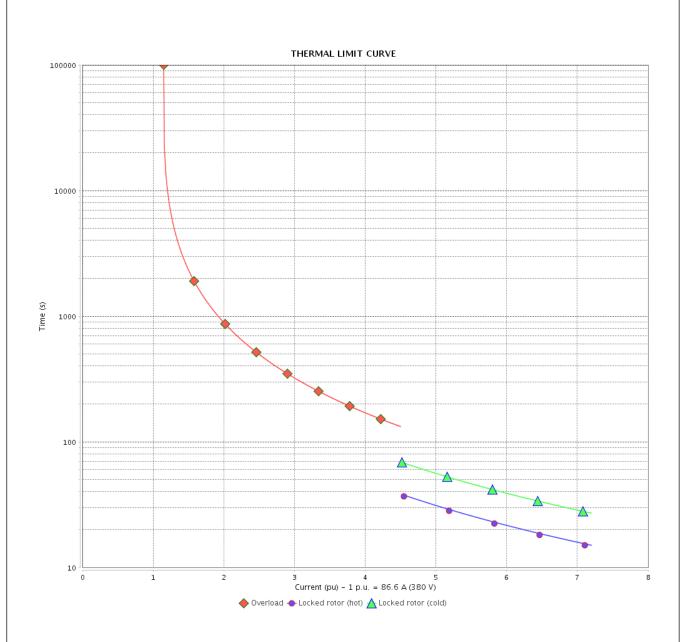


| Product line | | NEMA Premium Efficiency T | hree- | Product code : | 11439852 | |
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| | | 880 V 50 Hz 6P IE3 | | | | |
| Rated current | : 8 | 6.6 A | Moment of | of inertia (J) | : 40.2 sq.ft.lb : Cont.(S1) | |
| Rated current RC Rated torque | : 8 : 7 : 3 | 6.6 A 7.2 120 ft.lb | Duty cycle Insulation | e ı class | : Cont.(S1) : F | |
| Rated current RC Rated torque ocked rotor tord | : 8 : 7 : 3 que : 2 | 66.6 A 7.2 820 ft.lb 829 % | Duty cycle Insulation Service fa | e class actor | : Cont.(S1) : F : 1.00 | |
| Rated current IRC Rated torque ocked rotor tord Breakdown torqu | : 8 : 7 : 3 que : 2 ue : 2 | 66.6 A 7.2 120 ft.lb 129 % 150 % | Duty cycle Insulation | e class actor | : Cont.(S1) : F | |
| Rated current .RC Rated torque .ocked rotor tord Breakdown torqu Rated speed | : 8 : 7 : 3 que : 2 ue : 2 : 9 | 66.6 A 7.2 120 ft.lb 129 % 150 % | Duty cycle Insulation Service fa Temperat | e class actor | : Cont.(S1) : F : 1.00 : 80 K | |
| Performance Rated current IRC Rated torque Locked rotor torque Rated speed Heating constan Cooling constan | : 8 : 7 : 3 que : 2 ue : 2 : 9 | 66.6 A 7.2 120 ft.lb 129 % 150 % | Duty cycle Insulation Service fa Temperat | e I class actor ure rise | : Cont.(S1) : F : 1.00 : 80 K | |
| Rated current RC Rated torque cocked rotor torq Breakdown torqu Rated speed Heating constan | : 8 : 7 : 3 que : 2 ue : 2 : 9 | 66.6 A 7.2 120 ft.lb 129 % 150 % | Duty cycle Insulation Service fa Temperat | e class actor | : Cont.(S1) : F : 1.00 : 80 K | Date |
| Rated current RC Rated torque ocked rotor tord Breakdown torque Rated speed Heating constant Cooling constant Rev. | : 8 : 7 : 3 que : 2 ue : 2 : 9 | 66.6 A 7.2 120 ft.lb 129 % 150 % 185 rpm | Duty cycle Insulation Service fa Temperat | e I class actor ure rise | : Cont.(S1) : F : 1.00 : 80 K : B | Date |
| Rated current RC Rated torque ocked rotor tord Breakdown torque Rated speed Heating constan Cooling constan | : 8 : 7 : 3 que : 2 ue : 2 : 9 | 66.6 A 7.2 120 ft.lb 129 % 150 % 185 rpm | Duty cycle Insulation Service fa Temperat | e I class actor ure rise | : Cont.(S1) : F : 1.00 : 80 K : B | Date |

Three Phase Induction Motor - Squirrel Cage



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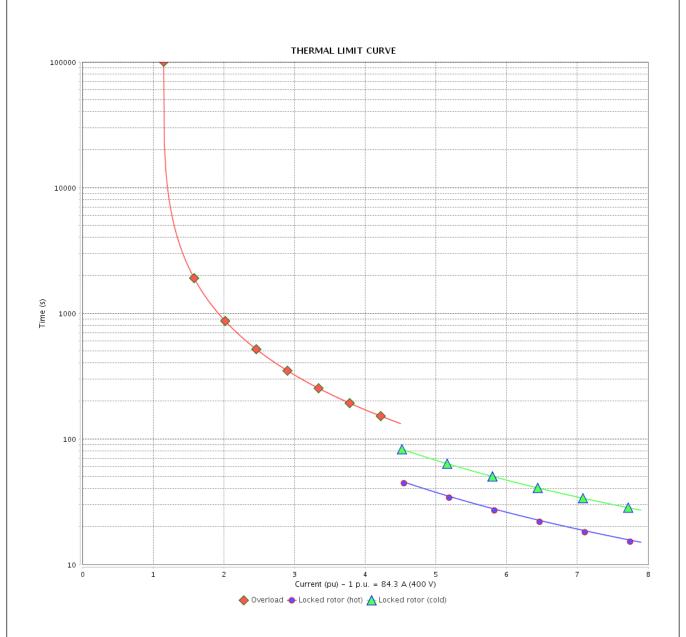


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| | P | Phase | | Catalog # : | 07512XT3E4 | 05T |
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| Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed | : 8 : 7 : 3 que : 2 ue : 2 : 9 | 00 V 50 Hz 6P IE3 4.3 A 9 19 ft.lb 60 % 80 % 87 rpm | Moment of Duty cycle Insulation Service fa Temperation Design | class actor | : 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
| Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar | : 8 : 7 : 3 que : 2 ue : 2 : 9 | 4.3 A .9 .19 ft.lb 60 % 80 % | Duty cycle Insulation Service fa Temperate | e ı class actor | : Cont.(S1) : F : 1.00 : 80 K | |
| Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan | : 8 : 7 : 3 que : 2 ue : 2 : 9 | 4.3 A 9.19 ft.lb 60 % 80 % | Duty cycle Insulation Service fa Temperate | e I class actor ure rise | : Cont.(S1) : F : 1.00 : 80 K : B | Date |
| Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed | : 8 : 7 : 3 que : 2 ue : 2 : 9 | 4.3 A .9 .19 ft.lb 60 % 80 % | Duty cycle Insulation Service fa Temperate | e ı class actor | : Cont.(S1) : F : 1.00 : 80 K | Date |
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| Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan | : 8 : 7 : 3 que : 2 ue : 2 : 9 | 4.3 A 9.19 ft.lb 60 % 80 % | Duty cycle Insulation Service fa Temperate | e I class actor ure rise | : Cont.(S1) : F : 1.00 : 80 K : B | Date |

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Three Phase Induction Motor - Squirrel Cage

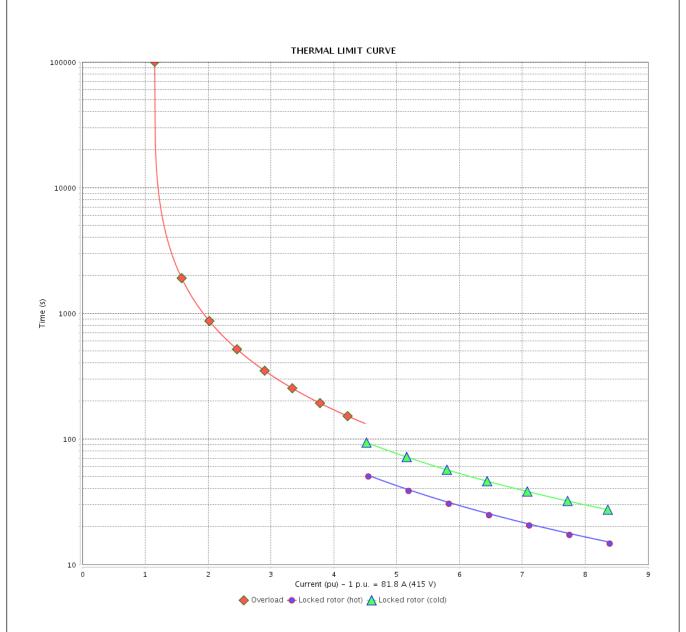


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| | | | | | | |
| Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed | : 8 : 8 : 3 jue : 2 ie : 3 : 9 | 4 19 ft.lb 80 % 00 % | Moment or Duty cycle Insulation Service fa Temperatu Design | class ctor | : 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed | : 8 : 8 : 3 que : 2 ie : 3 : 9 | 1.8 A 4 19 ft.lb 80 % | Duty cycle Insulation Service fa Temperatu | class ctor | : Cont.(S1) : F : 1.00 : 80 K | |
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant | : 8 : 8 : 3 que : 2 ie : 3 : 9 | 1.8 A 4 19 ft.lb 80 % 00 % 88 rpm | Duty cycle Insulation Service fa Temperatu | class ctor ire rise | : Cont.(S1) : F : 1.00 : 80 K : B | Date |
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed | : 8 : 8 : 3 que : 2 ie : 3 : 9 | 1.8 A 4 19 ft.lb 80 % | Duty cycle Insulation Service fa Temperatu | class ctor | : Cont.(S1) : F : 1.00 : 80 K | Date |
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant | : 8 : 8 : 3 que : 2 ie : 3 : 9 | 1.8 A 4 19 ft.lb 80 % 00 % 88 rpm | Duty cycle Insulation Service fa Temperatu | class ctor ire rise | : Cont.(S1) : F : 1.00 : 80 K : B | Date |
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed Heating constant Cooling constant Rev. | : 8 : 8 : 3 que : 2 ie : 3 : 9 | 1.8 A 4 19 ft.lb 80 % 00 % 88 rpm | Duty cycle Insulation Service fa Temperatu | class ctor ire rise | : Cont.(S1) : F : 1.00 : 80 K : B | Date |

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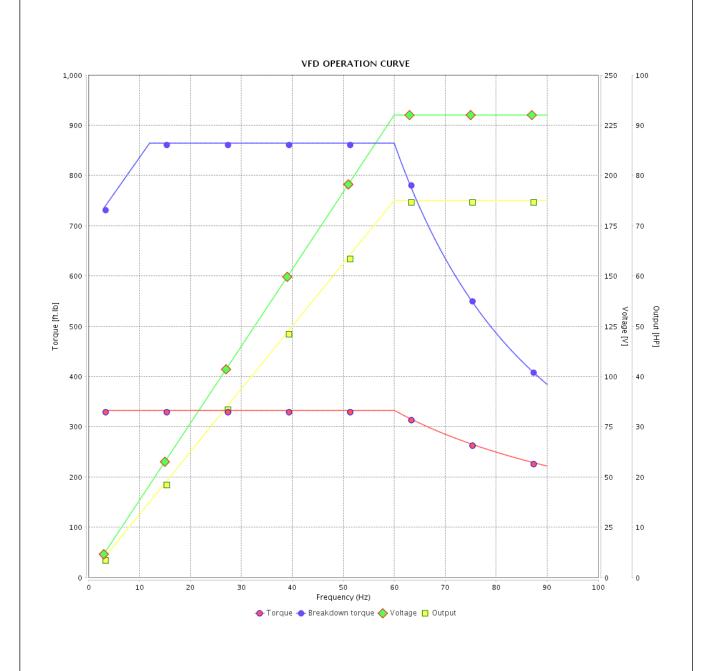


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11439852

Phase

Catalog #: 07512XT3E405T



| Performance | : 23 | 30/460 V 60 Hz 6P | | | | |
|---|-------------------------|--|-----|---|---------------|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque | : 7. : 33 ue : 28 | : 174/87.0 A : 7.7 : 332 ft.lb : 250 % : 260 % | | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise | | |
| Rated speed | | 185 rpm | 7.5 | | : 80 K : B | |
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| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 13/04/2022 | 1 | | | 19 / 22 | |

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

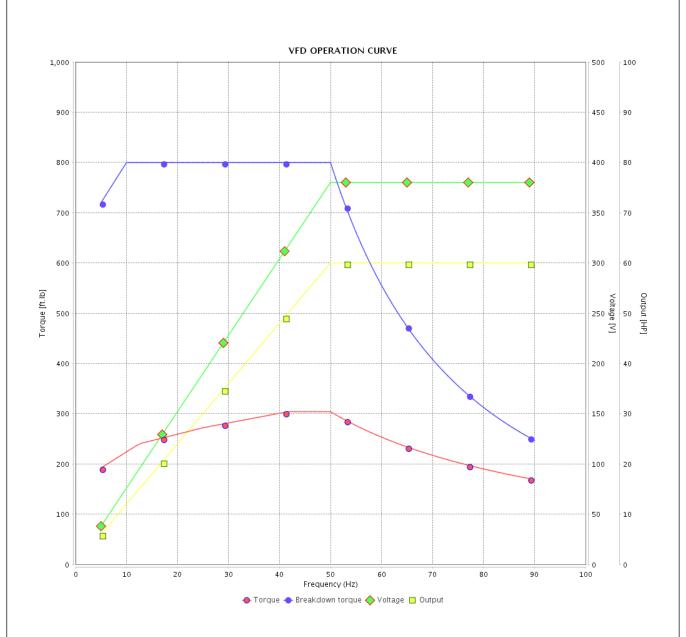
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11439852

Catalog #: 07512XT3E405T



Performance : 380 V 50 Hz 6P IE3 Rated current : 86.6 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 320 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage

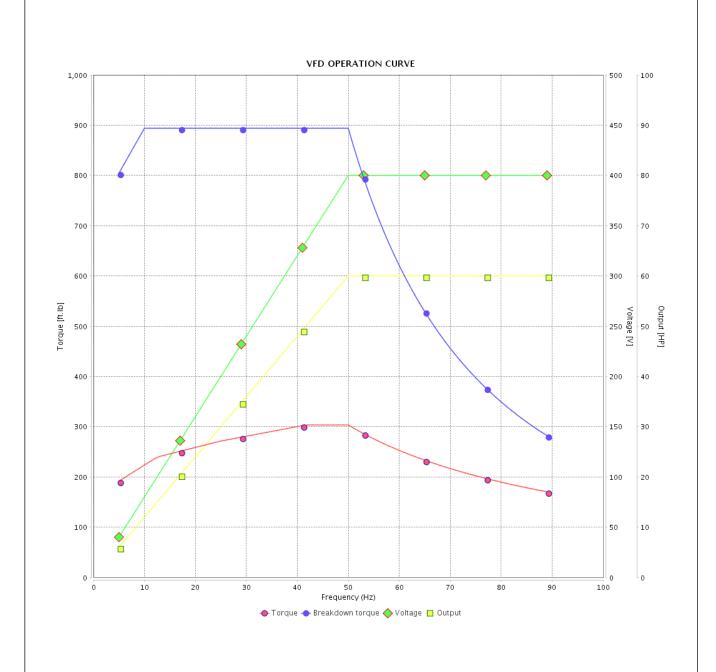


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 07512XT3E405T

11439852



| Performance | : 40 | : 400 V 50 Hz 6P IE3 | | | | | | | |
|--------------------|-----------------|----------------------|------------|------------------|-----------------|----------|--|--|--|
| Rated current | : 84 | : 84.3 A Moment of | | of inertia (J) | : 40.2 sq.ft.lb | | | | |
| LRC | : 7. | : 7.9 | | Duty cycle | | | | | |
| Rated torque | : 3 | 19 ft.lb | Insulation | class | : F | | | | |
| Locked rotor torqu | ue : 20 | 60 % | Service fa | ictor | : 1.00 | | | | |
| Breakdown torque | e : 28 | 80 % | Temperati | Temperature rise | | | | | |
| Rated speed | : 98 | : 987 rpm | | Design | | | | | |
| Rev. | Changes Summary | | | Performed | Checked | Date | | | |
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Three Phase Induction Motor - Squirrel Cage



Customer :

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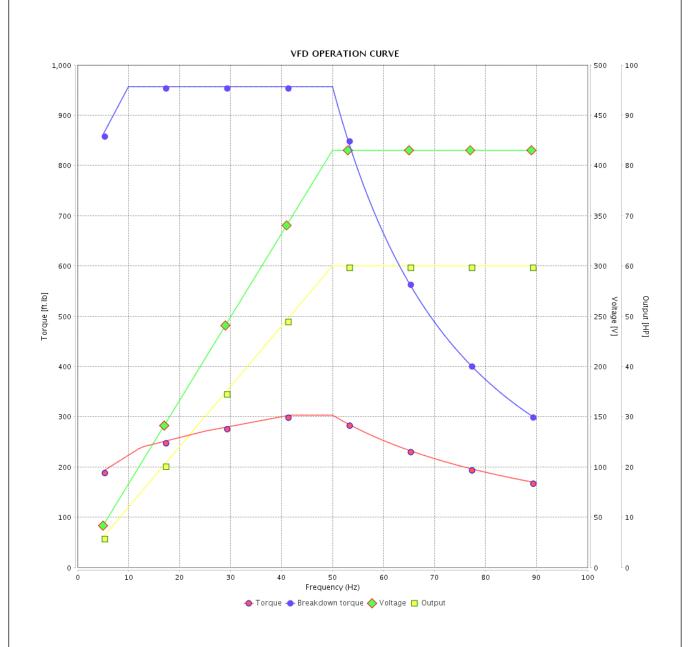
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11439852

Catalog #: 07512XT3E405T



| Performance | : 4 | 415 V 50 Hz 6P IE3 | | | | | |
|---|---------------------------------|---|---|--|---------|--|--|
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed | : 8 : 3 que : 2 ie : 3 | : 81.8 A : 8.4 : 319 ft.lb : 280 % : 300 % : 988 rpm | | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
| Rev. | Changes Summary | | / | Performed | Checked | Date | |
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