DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | <u>-</u> | | |
|--|------|--|--|---|---|--|
| Customer | | : | | | | |
| Product line | | : NEI Phas | | m Efficiency ⅂ | Fhree- Product code : Catalog # : | 13413919 00336OT3V145TC-S |
| Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design | | : 3 H : 2 : 60 I : 200 : 8.20 : 66. : 8.0; : 2.99 : 348 : 3.3; : 4.5; : 229 : 300 : F | 6/400 V 6/4.13 A 1/33.0 A x(Code J) 9/1.49 A 60 rpm 3 % 3 ft.lb | | Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³ | : 16s (cold) 9s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IC01 - ODP : F-1 : Both (CW and CCW) : 62.0 dB(A) : Direct On Line : 39.9 lb |
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 83.7 | 84.0 | 85.5 | 85.5 | Max. traction | : 98 lb |
| Power Factor | 0.50 | 0.76 | 0.86 | 0.90 | Max. compression | : 138 lb |
| Bearing type : | | 62 | e end 05 ZZ Bearing Seal | Non drive end 6203 ZZ Without Bearing | _ | |

Lubrication interval

Lubricant amount

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 |
|--------------|------------|-----------------|-----------|---------|----------|
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| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 13/04/2022 | | | 1/6 | |

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



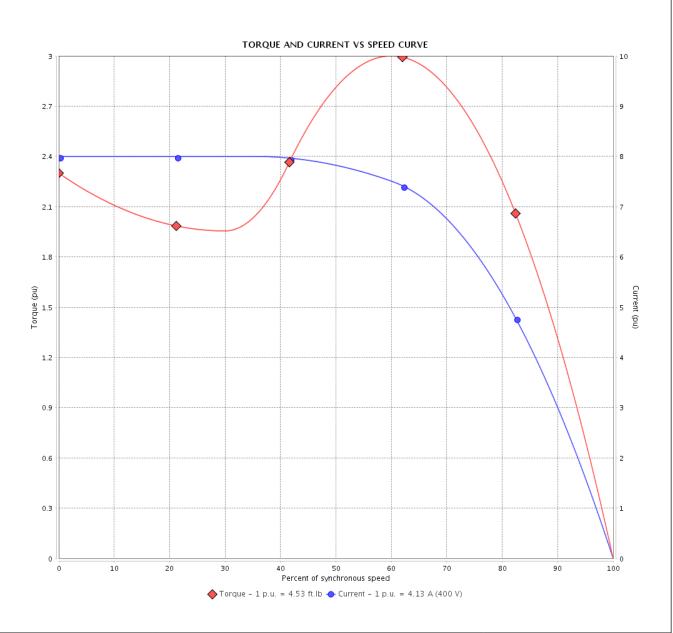
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 13413919

Catalog #: 00336OT3V145TC-S



Performance : 200/400 V 60 Hz 2P Rated current : 8.26/4.13 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F : 4.53 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 229 % Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3480 rpm Design : B

Locked rotor time : 16s (cold) 9s (hot)

| Rev. | | Changes Summary | Performed | Checked | Date |
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



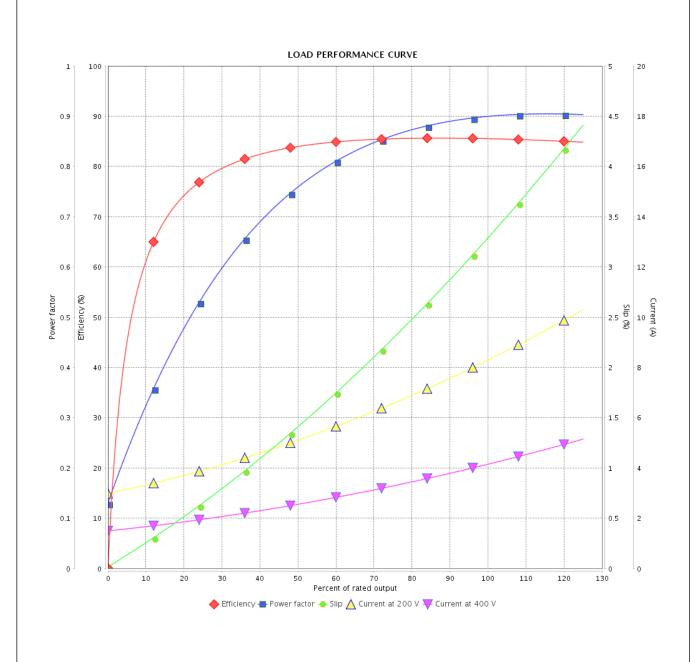
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00336OT3V145TC-S

13413919



| Performance | : 2 | : 200/400 V 60 Hz 2P | | | | | |
|---------------------|------------|----------------------------------|------------------|---------------|-------------------|----------|--|
| Rated current | : 8 | .26/4.13 A Moment of inertia (J) | | f inertia (J) | : 0.1279 sq.ft.lb | | |
| LRC | : 8 | 3.0 | Duty cycle | | : Cont.(S1) | | |
| Rated torque | : 4 | 4.53 ft.lb | Insulation class | | :F | | |
| Locked rotor torque | e : 2 | 229 % | Service factor | | : 1.15 | | |
| Breakdown torque | : : | 300 % | Temperature rise | | : 80 K | | |
| Rated speed | : 3 | : 3480 rpm | | Design | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date | |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



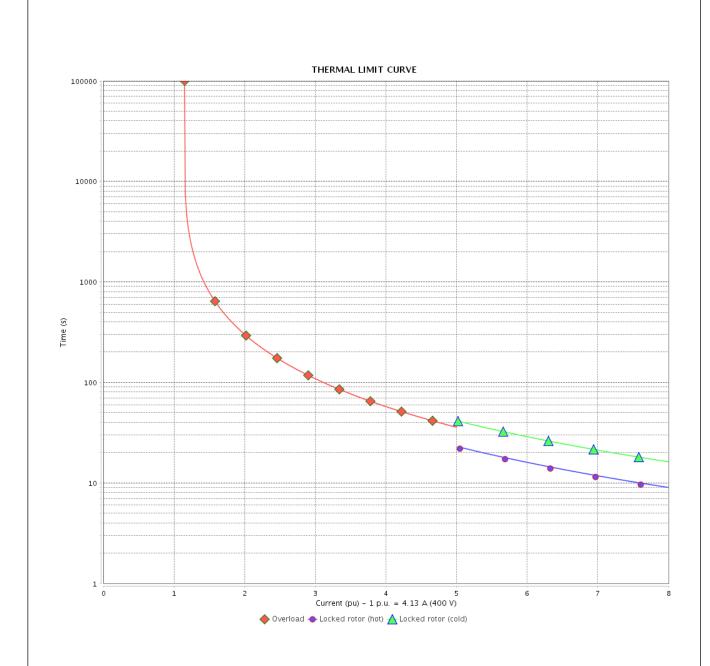
| Customer | : | | | | |
|------------------------------|---------------------------|--------------------------|-----------------------|--------------------|----------|
| | | | | | |
| Product line | : NEMA Premium Efficiency | Three- | Product code : | 13413919 | |
| | Phase | | Catalog # : | 00336OT3V1 | 45TC-S |
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| | | | | | |
| Performance | : 200/400 V 60 Hz 2P | | | | |
| Rated current LRC | : 8.26/4.13 A : 8.0 | Moment o | f inertia (J) | : 0.1279 sq.ft.l | b |
| Rated torque | : 4.53 ft.lb | Duty cycle Insulation | ; class | : Cont.(S1) : F | |
| Locked rotor torque | : 229 % | Service fa | ctor | : 1.15 | |
| Breakdown torque Rated speed | : 300 % : 3480 rpm | Temperatu Design | ure rise | : 80 K : B | |
| Heating constant | • | | | | |
| Cooling constant | | | | | |
| Rev. | Changes Summary | l | Performed | Checked | Date |
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THERMAL LIMIT CURVE

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Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
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VFD OPERATION CURVE

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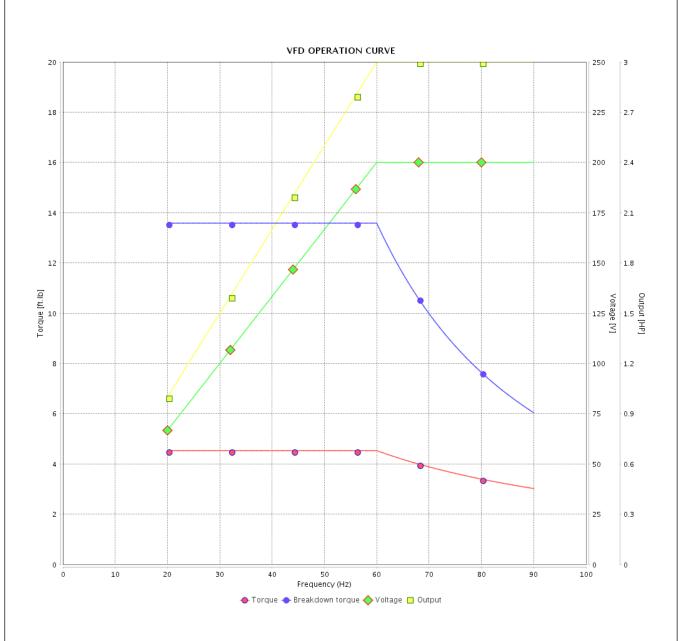
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13413919

Catalog #: 00336OT3V145TC-S



| Performance | : 200/400 V 60 Hz 2P | | | | | |
|--|--|--|-----------|--|----------|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 8.26/4.13 A : 8.0 : 4.53 ft.lb : 229 % : 300 % : 3480 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.1279 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | | |
| Rev. | Changes Summary | | Performed | Checked | Date | |
| Performed by | | | | | | |
| Checked by | | | | Page | Revision | |

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13/04/2022

Date

