DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272903 Three-Phase Catalog #: 06018OT3E364TC-W40G Frame : 364/5TC Locked rotor time : 34s (cold) 19s (hot) Output : 60 HP (45 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 140/69.9 A Protection degree : IP23 L. R. Amperes : 909/454 A Cooling method : IC01 - ODP : 6.5x(Code G) LRC Mounting : F-1 No load current : 49.4/24.7 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 177 ft.lb Approx. weight³ : 771 lb Locked rotor torque : 200 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25

Drive end
Bearing typeDrive end
6314 C3Non drive end
6212 Z C3Sealing: Without Bearing Seal
Lubrication interval
Lubricant amount: 20000 hWithout Bearing Seal
20000 h

100%

95.0

0.85

Foundation loads

Max. compression

Max. traction

Lubricant type : Mobil Polyrex EM

: 15.6 sq.ft.lb

75%

95.0

0.82

: B

50%

94.5

0.73

Notes

Moment of inertia (J)

Design

Output

Efficiency (%)

Power Factor

USABLE @208V 155A SF 1.15 SFA 178A

25%

94.4

0.48

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.

: 1250 lb

: 2021 lb

| Rev. | | Changes Summary | Performed | Checked | Date |
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



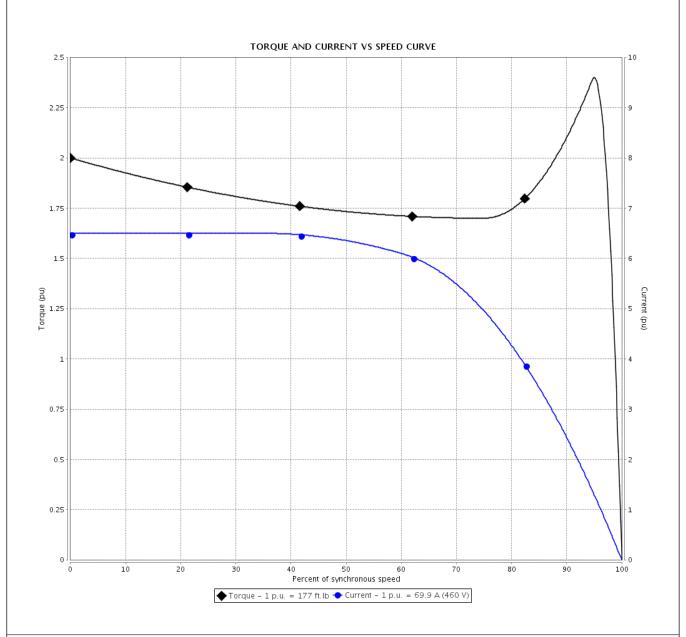
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272903

Catalog #: 06018OT3E364TC-W40G



: 230/460 V 60 Hz 4P Performance Rated current : 140/69.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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

Three Phase Induction Motor - Squirrel Cage

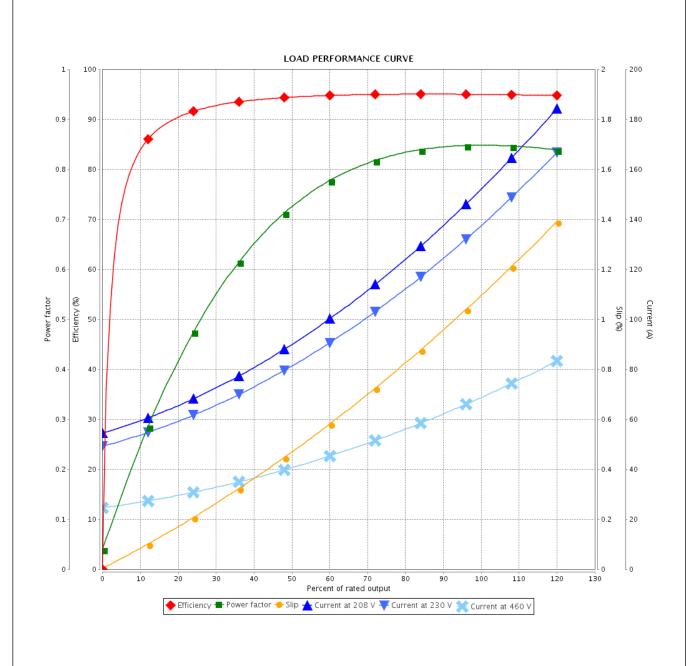


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272903

Three-Phase

Catalog #: 06018OT3E364TC-W40G



| Performance | : 2: | : 230/460 V 60 Hz 4P | | | | | | |
|---------------------|------------|---------------------------------|----------------|------------------|-------------|----------|--|--|
| Rated current | : 14 | 40/69.9 A Moment of inertia (J) | | : 15.6 sq.ft.lb | | | | |
| LRC | | 5 | Duty cycle | | : Cont.(S1) | | | |
| Rated torque | | 77 ft.lb Insulation class | | : F | | | | |
| Locked rotor torque | e : 20 | 00 % | Service factor | | : 1.25 | | | |
| Breakdown torque | : 24 | : 240 % | | Temperature rise | | : 80 K | | |
| Rated speed | : 1 | : 1780 rpm | | Design | | | | |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



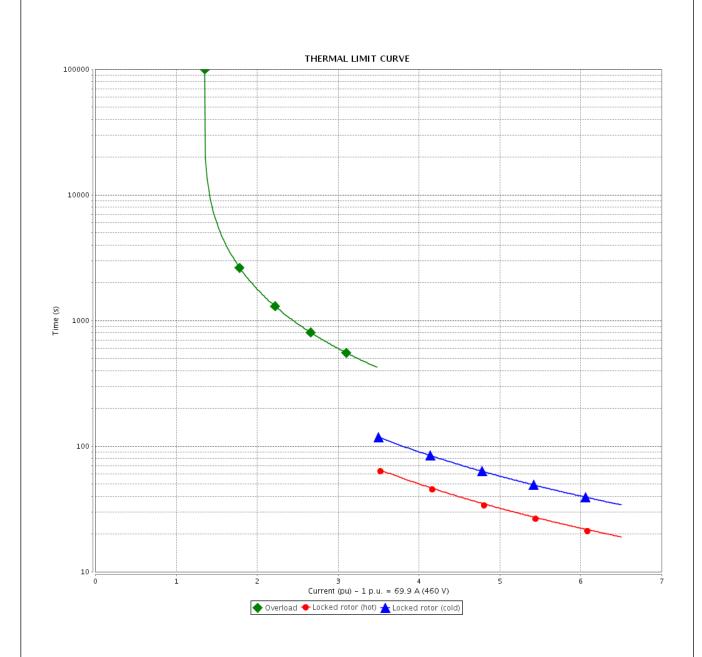
| Customer | : | | | | _ | |
|--------------------------------------|--------------------------|--------------------------|--------------------------|-------------|--------------------------------|------------|
| Product line | | N40 NEMA Premium Efficie | ency Product code : | | 14272903 | |
| | II | nree-Phase | (| Catalog # : | 06018OT3E3 | 64TC-W40G |
| | | | | | | |
| Performance | | 30/460 V 60 Hz 4P | | | | |
| Rated current LRC | : 1 ₄ : 6. | 40/69.9 A 5 | Moment of Duty cycle | inertia (J) | : 15.6 sq.ft.lb : Cont.(S1) | |
| Rated torque | | 77 ft.lb | Insulation | class | : F | |
| Locked rotor torq Breakdown torqu | | 00 % 40 % | Service fac Temperatu | | : 1.25 : 80 K | |
| Rated speed | | 780 rpm | Design | 10 1100 | : B | |
| Heating constant | | | | | | |
| Cooling constant | | | | | 1 | |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

10/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

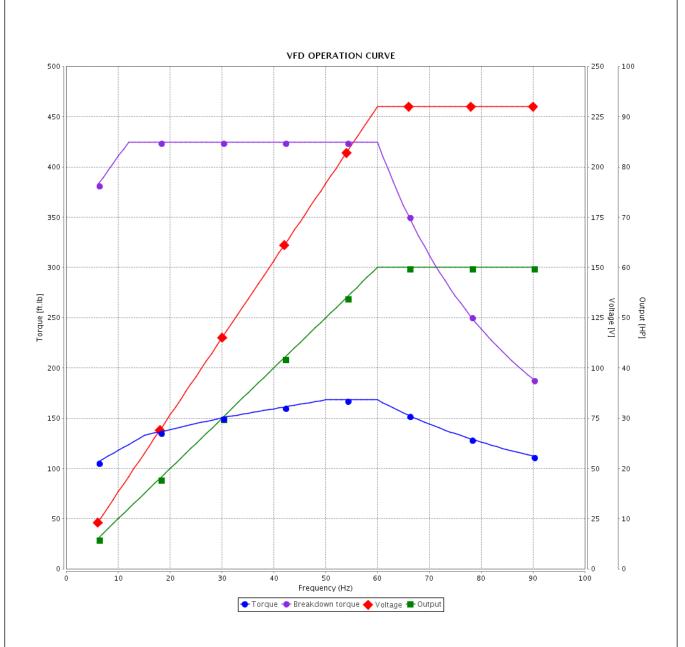
Product code: 14272903

Catalog #: 06018OT3E364TC-W40G

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Revision



| Performance | : | : 230/460 V 60 H | Hz 4P | | | | |
|---|---|--|--------|--|-----------|--|------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | | : 140/69.9 A : 6.5 : 177 ft.lb : 200 % : 240 % : 1780 rpm | | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 15.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B | |
| Rev. | | Changes Su | ımmary | | Performed | Checked | Date |
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