DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11449318 Catalog #: 07518ST3HIE365T-W22 Frame : 364/5T Locked rotor time : 25s (cold) 14s (hot) Output : 75 HP (55 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 69.8 A Protection degree : IP55 L. R. Amperes : 446 A Cooling method : IC411 - TEFC LRC : 6.4x(Code G) Mounting : F-1 No load current : 26.4 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 67.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 221 ft.lb Approx. weight³ : 930 lb Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 23.3 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 94.0 95.4 Efficiency (%) 94.5 95.0 Max. traction : 1504 lb Power Factor 0.83 0.44 0.68 0.78 Max. compression : 2434 lb Drive end Non drive end Bearing type 6314 C3 6314 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 12000 h 12000 h Lubricant amount 27 g 27 g 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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

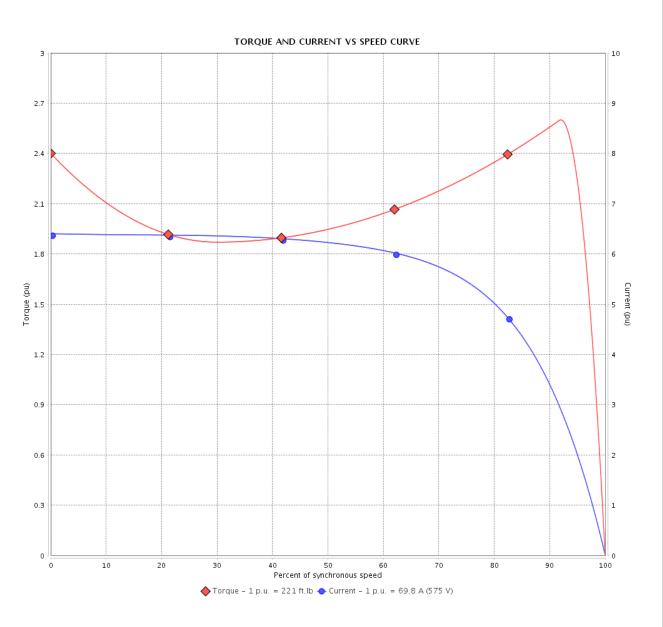


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11449318

Phase

Catalog #: 07518ST3HIE365T-W22



| Performance | : 575 V 60 Hz 4P | | | |
|---------------------|------------------------|-----------------------|-----------------|--|
| Rated current | : 69.8 A | Moment of inertia (J) | : 23.3 sq.ft.lb | |
| LRC | : 6.4 | Duty cycle | : Cont.(S1) | |
| Rated torque | : 221 ft.lb | Insulation class | : F | |
| Locked rotor torque | : 240 % | Service factor | : 1.25 | |
| Breakdown torque | : 260 % | Temperature rise | : 80 K | |
| Rated speed | : 1780 rpm | Design | : B | |
| Locked rotor time | : 25s (cold) 14s (hot) | 1 | | |

Locked rotor time : 25s (cold) 14s (hot)

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

Three Phase Induction Motor - Squirrel Cage



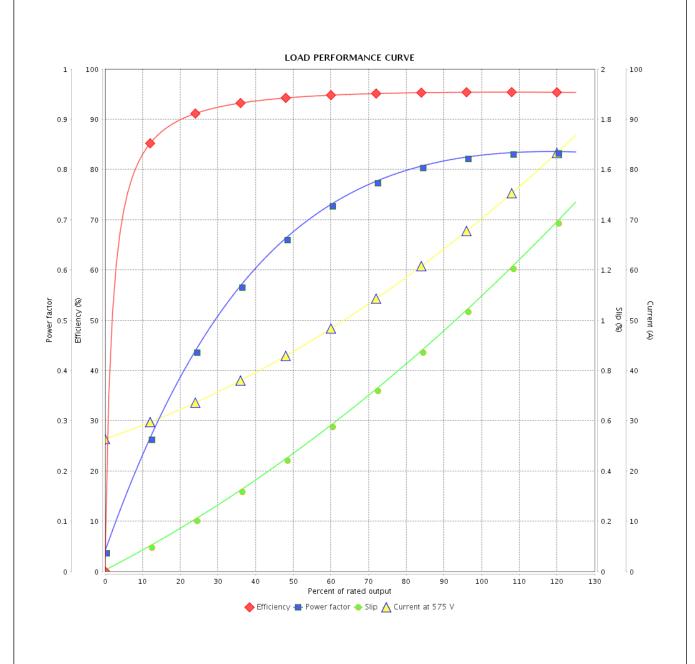
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07518ST3HIE365T-W22

11449318



| Performance | : 5 | 575 V 60 Hz 4P | | | | |
|---------------------|------------|---|------------|---------------|----------------------------|----------|
| Rated current | : 6 | 69.8 A Moment of inertia | | f inertia (J) | nertia (J) : 23.3 sq.ft.lb | |
| LRC | : 6 | 6.4 | Duty cycle | | : Cont.(S1) | |
| Rated torque | : 2 | : 221 ft.lb Insulation cl : 240 % Service fact : 260 % Temperature : 1780 rpm Design | | class | : F | |
| Locked rotor torque | e : 2 | | | ctor | : 1.25 | |
| Breakdown torque | : 2 | | | ıre rise | : 80 K | |
| Rated speed | : 1 | | | : B | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



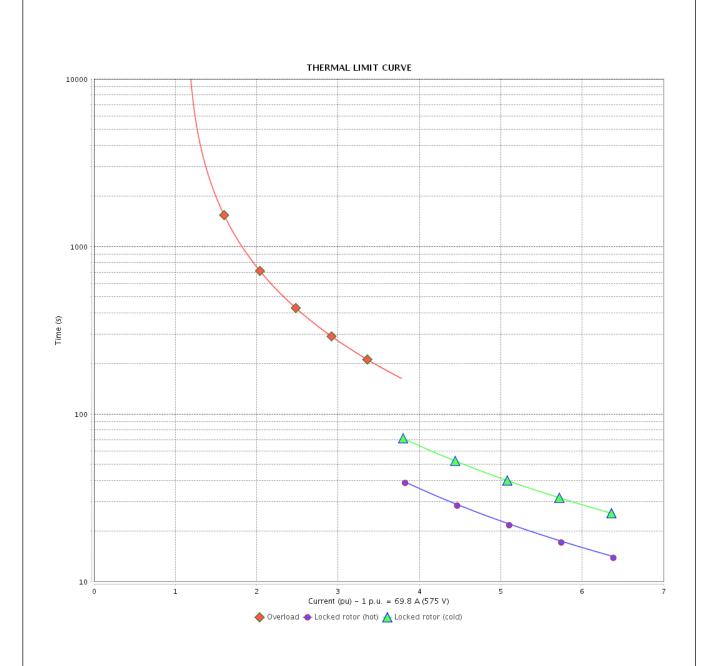
| Customer | : | | | | | |
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| | | | | | | |
| Product line | : 1 | NEMA Premium Efficier | ncy Three- | Product code : | 11449318 | |
| | Pi | nase | | Catalog # : | 07518ST3HIE | 365T-W22 |
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| Performance | : 57 | 75 V 60 Hz 4P | | | | |
| Rated current | : 69 | 9.8 A | Moment o | of inertia (J) | : 23.3 sq.ft.lb | |
| LRC Rated torque | : 6. · 22 | 4 21 ft.lb | Duty cycle Insulation | e class | : Cont.(S1) : F | |
| Locked rotor torque | e : 24 | 10 % | Service fa | ictor | : 1.25 | |
| Breakdown torque | : 26 | 60 % | Temperati | ure rise | : 80 K : B | |
| Rated speed | . 17 | 780 rpm | Design | | . Б | |
| Heating constant | | | | | | |
| Cooling constant Rev. | | Changes Summary | | Performed | Checked | Date |
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| D-4 | 40/04/0000 | 1 | | | 4.70 | |

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



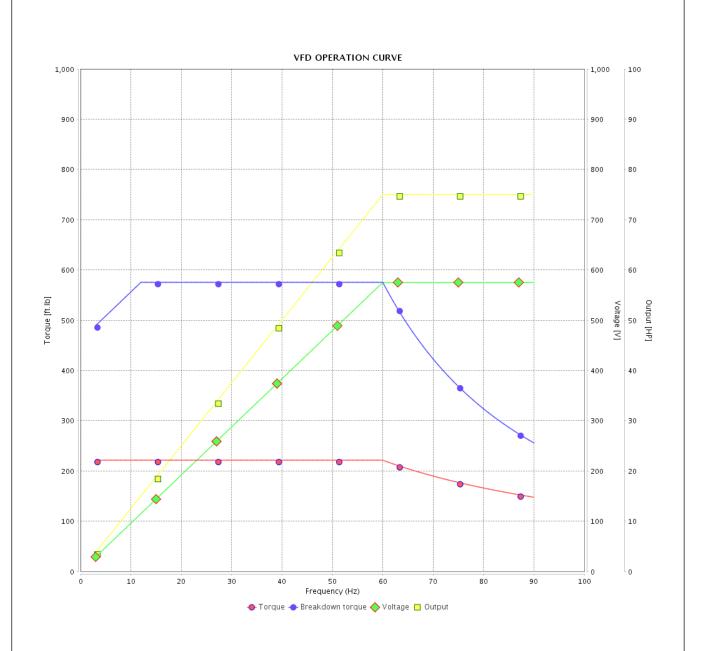
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11449318

Phase

Catalog #: 07518ST3HIE365T-W22

6/6



| Performance | : 575 V 60 Hz 4P | | | | |
|--|--|--|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 69.8 A : 6.4 : 221 ft.lb : 240 % : 260 % : 1780 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 23.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B | |
| Rev. | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |

13/04/2022

Date

