DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14495150 Three-Phase Catalog #: 02518OT3H284T-W40 Frame : 284T Locked rotor time : 64s (cold) 36s (hot) Output : 25 HP (18.5 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 : 23.6 A Protection degree : IP23 L. R. Amperes : 149 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 8.80 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 74.2 ft.lb Approx. weight³ : 349 lb Locked rotor torque : 250 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.71 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 93.6 Efficiency (%) 93.0 93.6 Max. traction Power Factor 0.69 0.80 0.84 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3 Sealing Without Bearing Seal Without Bearing Seal

Lubrication interval 20000 h 20000 h Lubricant amount 18 g

11 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



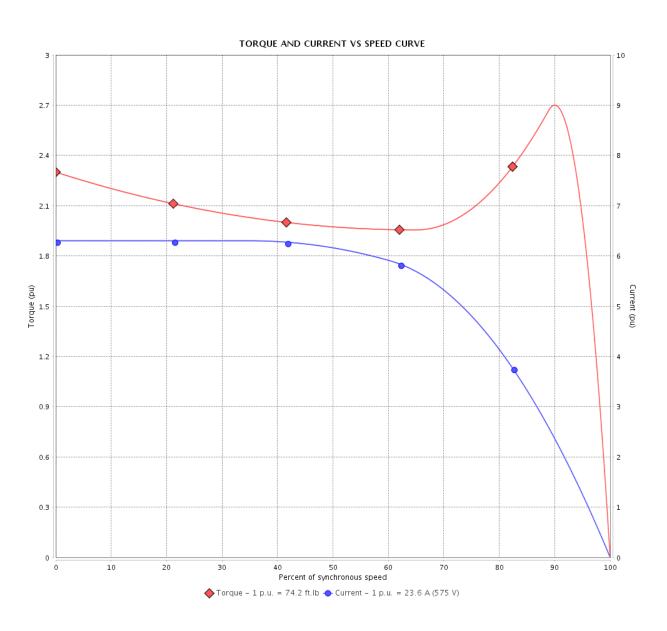
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495150

Catalog #: 02518OT3H284T-W40



Performance : 575 V 60 Hz 4P Rated current : 23.6 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

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

Three Phase Induction Motor - Squirrel Cage

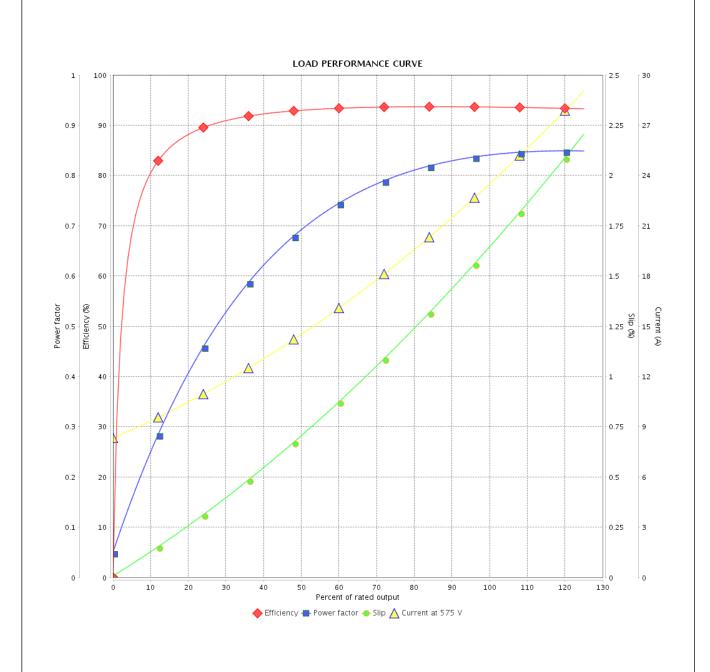


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14495150

Three-Phase

Catalog #: 02518OT3H284T-W40



| Performance | | : 575 V 60 Hz 4P | | | | | | |
|---------------------|------------|-------------------------------|--|------------------|-------------|----------|--|--|
| Rated current | | 8.6 A Moment of inertia (J) | | : 3.71 sq.ft.lb | | | | |
| LRC | | 6.3 Duty | |) | : Cont.(S1) | | | |
| Rated torque | : 7 | 74.2 ft.lb Insulation | | class | : F | | | |
| Locked rotor torque | | 250 % Service | | ctor | : 1.25 | | | |
| Breakdown torqu | ie : 2 | : 270 % Tem : 1765 rpm Des | | Temperature rise | | | | |
| Rated speed | : 1 | | | | : B | | | |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



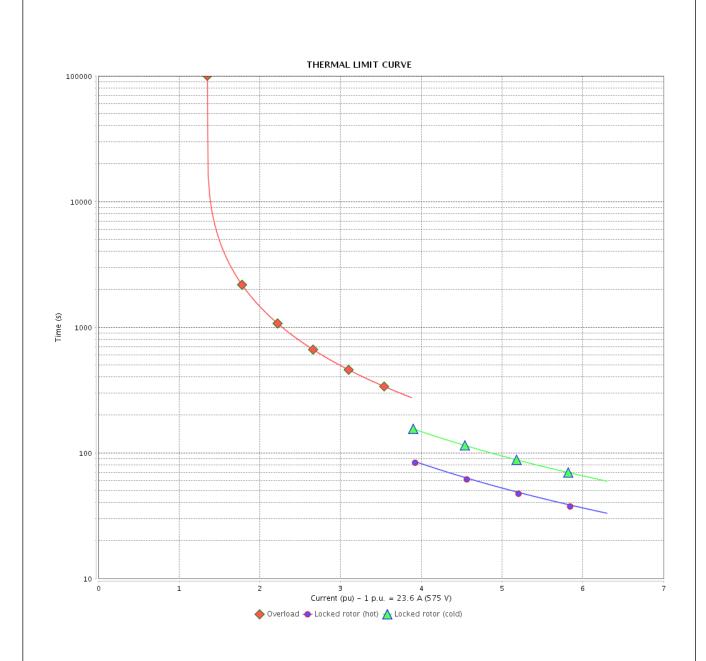
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| Product line | | N40 NEMA Premium Effici nree-Phase | ency I | Product code : | 14495150 | |
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| Performance | | 75 V 60 Hz 4P 3.6 A | Mamont | finartia (I) | . 2 71 og ft lb | |
| Rated current LRC | : 6. | 3 | Duty cycle | f inertia (J) | : 3.71 sq.ft.lb : Cont.(S1) | |
| Rated torque Locked rotor torqu | | 4.2 ft.lb 50 % | Insulation Service fa | | : F : 1.25 | |
| Breakdown torque | | 70 % | Temperatu | | : 80 K | |
| Rated speed | | 765 rpm | Design | | : B | |
| Heating constant | | | | | | |
| Cooling constant Rev. | | Changes Summers | | Performed | Checked | Date |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

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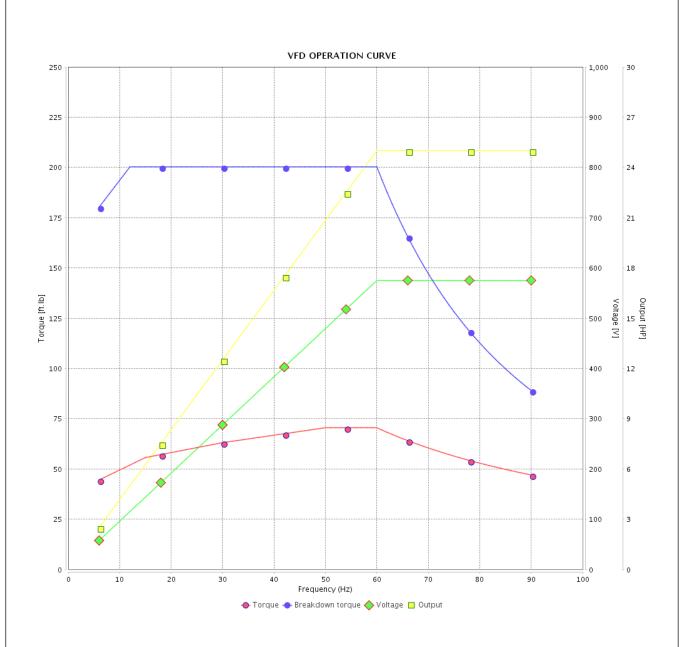
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