DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| Customer | | : | | | | | | |
|--|-------------|---|--|----------------------------------|--|--|---|---|
| Product line | | : NEN Phas | | m Efficiency | Three- | Product code : Catalog # : | 12076591 10018ET3H405TC-W22 | |
| Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tord Breakdown torqu Insulation class Service factor Moment of inertia | ie | : 4 : 60 H : 575 : 90.4 : 660 : 7.3> : 30.4 : 1.11 : 295 : 240 : 260 : F | HP (75 kV Hz V 4 A A k(Code H) 4 A 0 rpm I % ft.lb % | V) | Temp Duty Ambi Altitude Prote Cooli Moun Rotat Noise Starti | ent temperature de ction degree ng method tting | : 23s (cold) 13s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 68.0 dB(A) : Direct On Line : 1195 lb | |
| Output Efficiency (%) | 25% 94.6 | 50% 95.0 | 75% 95.0 | 100% 95.4 | Max. tra | | : 1705 lb | |
| Power Factor | 0.51 | 0.77 | .77 0.84 0.87 Drive end | | Max. compression | | : 2900 lb | |
| Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type | | : : : : | 63 W 10 | 16 C3 /Seal 0000 h 34 g | obil Polyre | Non drive end 6314 C3 WSeal 12000 h 27 g | | |
| Notos | | | | | | | | _ |

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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| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 1/6 | |

TORQUE AND CURRENT VS SPEED CURVE

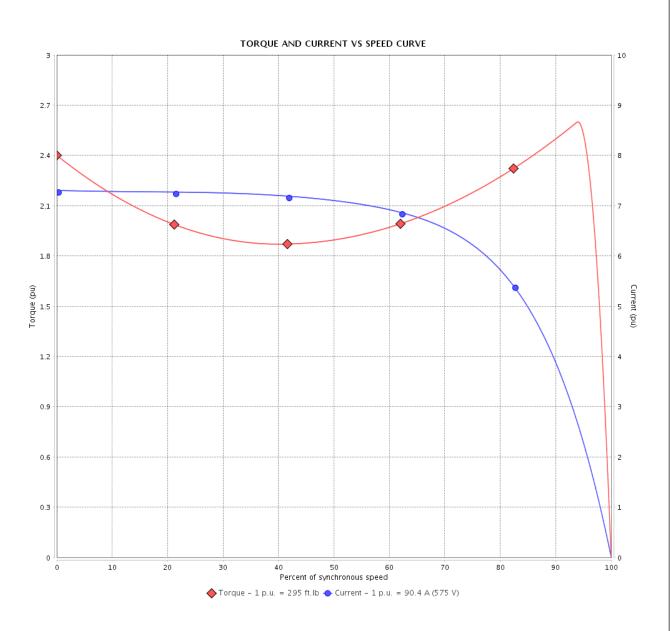
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12076591

Catalog #: 10018ET3H405TC-W22



Performance : 575 V 60 Hz 4P Rated current : 90.4 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 295 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

| Rev. | | Changes Summary | Performed | Checked | Date |
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| Date | 14/04/2022 | | | 2/6 | |

LOAD PERFORMANCE CURVE

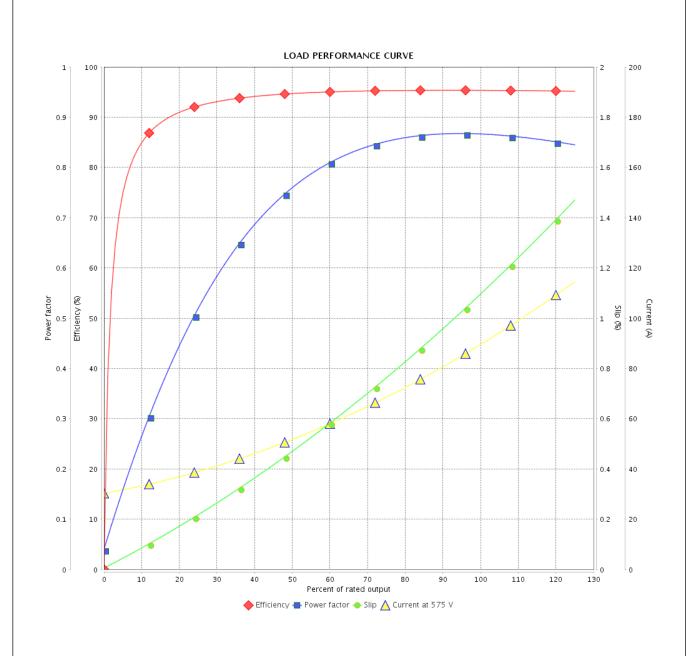
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12076591

Catalog #: 10018ET3H405TC-W22



| Performance | | : 575 V 60 Hz 4P | | | | | | |
|---|---------------------|------------------|--|---------|---|----------|--|--|
| Rated current LRC Rated torque Locked rotor torque | : 7 : 2 e : 2 | 95 ft.lb 40 % | Duty cycle ft.lb Insulation class Service factor | | : 29.9 sq.ft.lb : Cont.(S1) : F : 1.25 | | | |
| Breakdown torque Rated speed | | 60 % 780 rpm | Temperature rise Design | | : 80 K : B | | | |
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| Date | 14/04/2022 | 1 | | | 3/6 | | | |

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



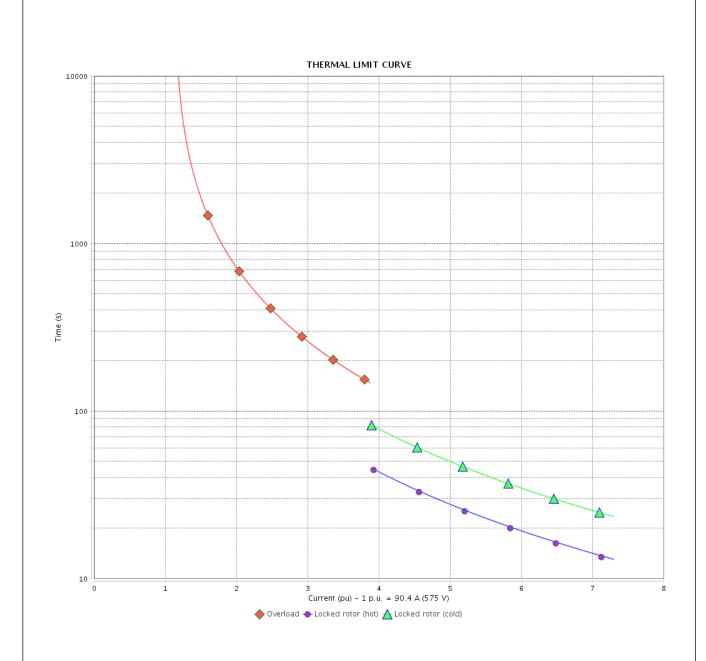
| Customer | : | | | | |
|-------------------------------------|------------------------------------|--------------------------|-------------------------------|--------------------------------|----------|
| Product line | : NEMA Premium Efficiency Phase | | Product code : Catalog # : | 12076591 10018ET3H40 | 05TC-W22 |
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| Performance | : 575 V 60 Hz 4P | | | | |
| Rated current LRC | : 90.4 A : 7.3 | Moment o | f inertia (J) | : 29.9 sq.ft.lb : Cont.(S1) | |
| Rated torque Locked rotor torque | : 7.5 : 295 ft.lb : 240 % | Insulation Service fa | class | : F : 1.25 | |
| Breakdown torque Rated speed | : 240 % : 260 % : 1780 rpm | Temperati Design | | : 1.25 : 80 K : B | |
| Heating constant | | 2001911 | | | |
| Cooling constant | 01 0 | | | | |
| Rev. | Changes Summary | | Performed | Checked | Date |
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| Checked by | 22 | | | Page | Revision |

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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| Date | 14/04/2022 | | | 5/6 | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

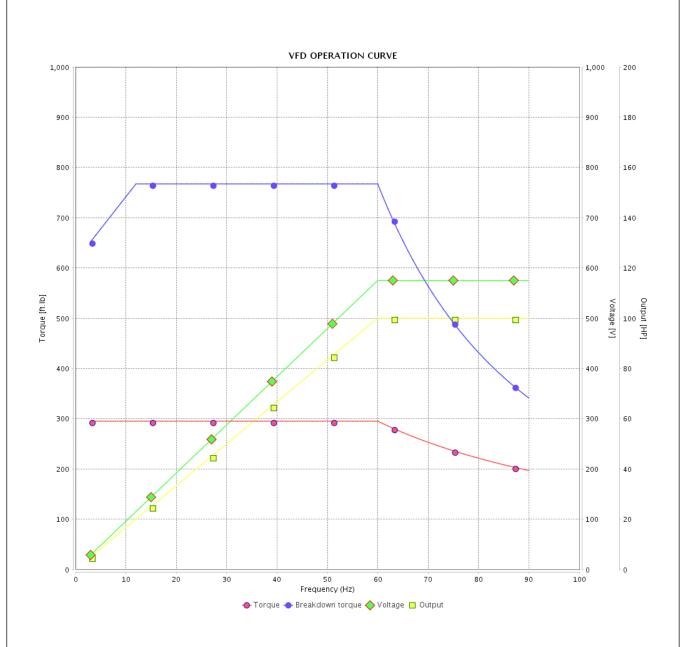
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12076591

Catalog #: 10018ET3H405TC-W22

6/6



| Performance | : 575 V 60 Hz 4P | | | | |
|---------------------|------------------|-----------------------|-----------|-----------------|----------|
| Rated current | : 90.4 A | Moment of inertia (J) | | : 29.9 sq.ft.lb | |
| LRC | : 7.3 | Duty cycle | | : Cont.(S1) | |
| Rated torque | : 295 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 | |
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14/04/2022

Date

