DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| Customer | | : | | | | | | | |
|--|---------------------|--|---|--|--|---|----|---|--|
| Product line | | : NEN Phas | | m Efficiency | , | Product code : Catalog # : | : | 14495395 00156XT3H143T | |
| 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 | : 2 : 60 F : 575 : 1.64 : 15.1 : 9.2x : 0.80 : 350 : 2.78 : 2.25 : 340 : 440 : F | HP (1.1 kV HZ V HA I A ((Code M) 00 A 0 rpm 3 % 5 ft.lb % | | Tempel Duty cy Ambier Altitude Protect Cooling Mountil Rotatio Noise I | nt temperature e ion degree g method ng n ¹ | | : 36s (cold) 20s (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 : 69.8 lb | |
| Output Efficiency (%) Power Factor | 25% 76.9 0.38 | 50% 78.5 0.62 | 75% 82.5 0.73 | 100% 84.0 0.80 | Foundati Max. trac Max. con | | | : 51 lb : 121 lb | |
| Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type | | : : : : | 620 | <u>e end</u> 05 2RS il Seal - - - N | 1obil Polyrex | Non drive 6204 2f Lip Se - - EM | RS | | |

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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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| Customer | | |
|----------|--|--|

| Thermal | protection |
|---------|------------|
|---------|------------|

| | | • | | |
|----|-------------|----------------------|-----------|---------------------|
| ID | Application | Туре | Quantity | Sensing Temperature |
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | 155 °C |

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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: 14495395 Catalog #: 00156XT3H143T TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 0.5

Performance : 575 V 60 Hz 2P Rated current : 1.64 A Moment of inertia (J) : 0.0413 sq.ft.lb LRC : 9.2 Duty cycle : Cont.(S1) : 2.25 ft.lb Insulation class : F Rated torque : 340 % Locked rotor torque Service factor : 1.15 : 440 % Breakdown torque Temperature rise : 80 K : B Rated speed : 3500 rpm Design

Percent of synchronous speed

◆ Torque - 1 p.u. = 2.25 ft.lb ◆ Current - 1 p.u. = 1.64 A (575 V)

Locked rotor time : 36s (cold) 20s (hot)

| Lookod rotor tim | | 00 (00.0) 200 (1.01) | | | |
|------------------|------------|----------------------|--|---------|----------|
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



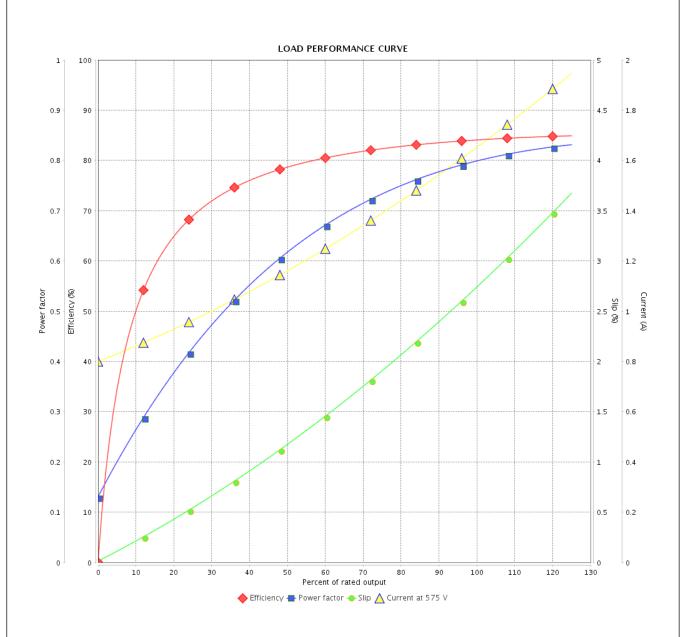
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14495395

Catalog #: 00156XT3H143T



| Performance | : 575 V 60 Hz 2P | | | |
|-------------------------------------|-------------------------|----------------------------------|----------------------------------|----------|
| Rated current LRC | : 1.64 A : 9.2 | Moment of inertia (J) Duty cycle | : 0.0413 sq.ft.lb : Cont.(S1) | |
| Rated torque Locked rotor torque | : 2.25 ft.lb : 340 % | Insulation class Service factor | : F : 1.15 | |
| Breakdown torque Rated speed | : 440 % : 3500 rpm | Temperature rise Design | : 80 K : B | |
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



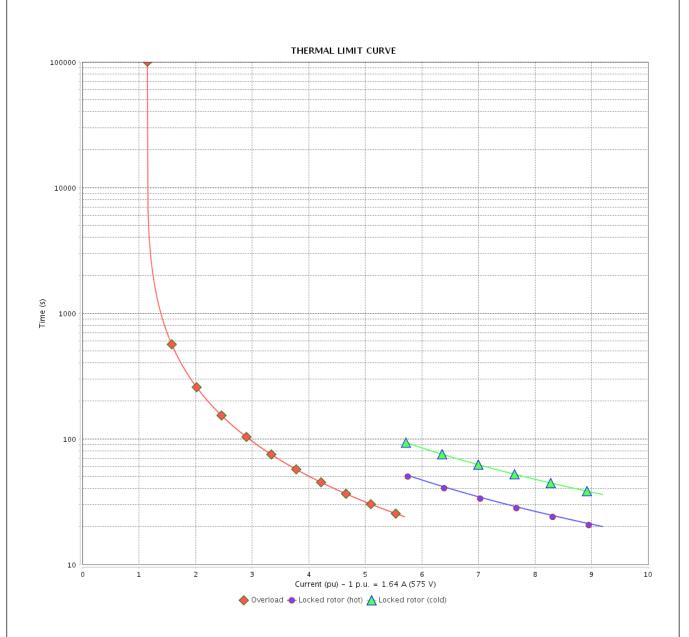
| Customer | : | | | | | |
|---|-------------------------------------|--|--|----------------------------|---|----------|
| Product line | : I P | NEMA Premium Efficiency hase | | Product code : Catalog # : | 14495395 00156XT3H | 143T |
| | | | | | | |
| Performance | : 57 | 75 V 60 Hz 2P | | | | |
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed | : 9. : 2. que : 34 ue : 44 | 64 A 2 25 ft.lb 40 % 40 % 500 rpm | Moment of Duty cycle Insulation Service fa Temperate Design | class ictor | : 0.0413 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B | lb |
| Heating constan | t | | | | , | |
| Cooling constan | | | | | | |
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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

Checked by

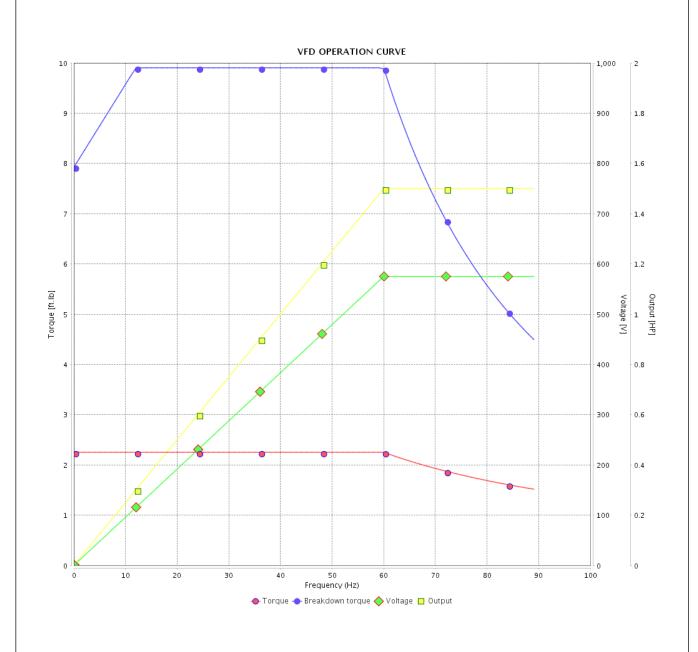
Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 14495395

Phase

Catalog #: 00156XT3H143T



| Performance | : 575 V 60 Hz 2P | | | | | |
|----------------------|------------------|-----------------------|-----------|-------------------|------|--|
| Rated current | : 1.64 A | Moment of inertia (J) | | : 0.0413 sq.ft.lb | | |
| LRC | : 9.2 | Duty cycle | ; | : Cont.(S1) | | |
| Rated torque | : 2.25 ft.lb | Insulation | class | : F | | |
| Locked rotor torque | : 340 % | Service factor | | : 1.15 | | |
| Breakdown torque | : 440 % | Temperati | ure rise | : 80 K | | |
| Rated speed | : 3500 rpm | Design | | : B | | |
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Revision

