DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| Customer | | : | | | | |
|---|---------------------|--|---|------------------------------|---|--|
| Product line | | : NEN Phas | | m Efficiency | Three- Product code : Catalog # : | 12588463 00518ET3H184JP-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 torque Insulation class Service factor Moment of inerti Design | ie | : 4 : 60 H : 575 : 5.16 : 38.7 : 7.55 : 2.56 : 175 : 2.50 : 15.0 : 229 : 320 : F | P (3.7 kW) Hz V 6 A 7 A K(Code J) 6 A 5 rpm 0 % 0 ft.lb 1 % | | Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³ | : 27s (cold) 15s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 56.0 dB(A) : Direct On Line : 103 lb |
| Output Efficiency (%) Power Factor | 25% 88.2 0.37 | 50% 88.5 0.62 | 75% 89.5 0.74 | 100% 89.5 0.80 | Foundation loads Max. traction | : 254 lb : 357 lb |
| Bearing type Sealing Lubrication inter Lubricant amour Lubricant type | val | : | Drive 63 | e end 07 ZZ 'Ring - | Max. compression Non drive end 6206 ZZ V'Ring obil 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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| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 13/04/2022 | | | 1/6 | |

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

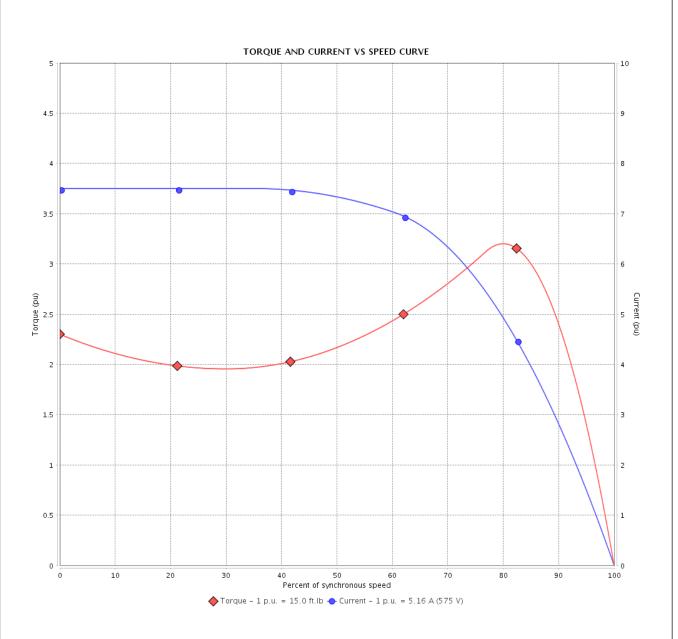


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12588463

Phase

Catalog #: 00518ET3H184JP-W22



| Performance | : 575 V 60 Hz 4P | | |
|---------------------|------------------------|-----------------------|-------------------|
| Rated current | : 5.16 A | Moment of inertia (J) | : 0.4003 sq.ft.lb |
| LRC | : 7.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 15.0 ft.lb | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.25 |
| Breakdown torque | : 320 % | Temperature rise | : 80 K |
| Rated speed | : 1755 rpm | Design | : B |
| Locked rotor time | : 27s (cold) 15s (hot) | 1 | |

Locked rotor time : 27s (cold) 15s (hot)

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

Three Phase Induction Motor - Squirrel Cage



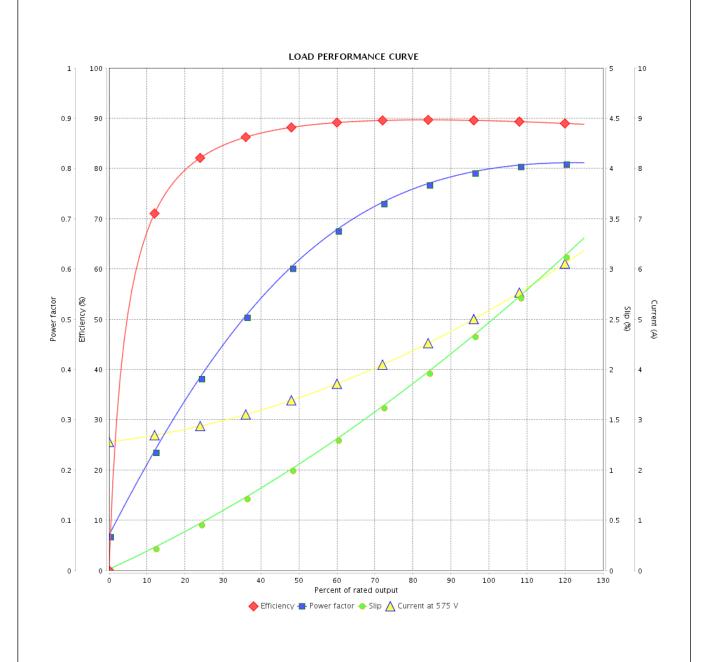
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12588463

Phase

Catalog #: 00518ET3H184JP-W22

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| Performance | : 575 V 60 Hz 4P | | | | |
|--|--|--|-------------------------|----------|--|
| Rated current LRC Rated torque | : 5.16 A : 7.5 : 15.0 ft.lb : 229 % | Moment of inertia (J) Duty cycle Insulation class Service factor | : Cont.(S1) : F | • • | |
| Locked rotor torque Breakdown torque Rated speed | : 229 % : 320 % : 1755 rpm | Temperature rise Design | : 1.25 : 80 K : B | : 80 K | |
| Rev. | Changes Summary | Performe | d Checked | Date | |
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



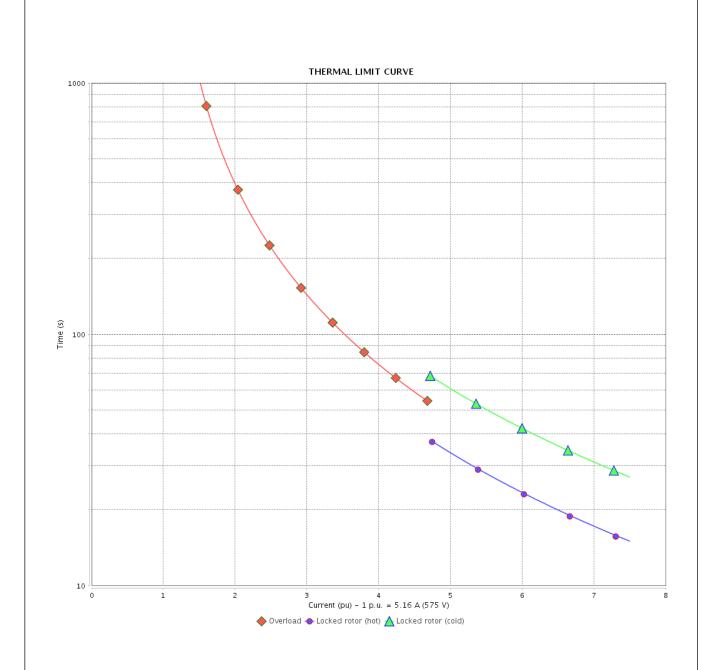
| Customer | : | | | | | |
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| | | | | | | |
| Product line | | NEMA Premium Efficiency | Three- | Product code : | 12588463 | |
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| | | | | | | |
| Performance Rated current | | 75 V 60 Hz 4P .16 A | Moment o | f inertia (J) | : 0.4003 sq.ft.l | h |
| LRC | : 7. | .5 | Duty cycle | ; | : Cont.(S1) | |
| Rated torque Locked rotor torqu | | 5.0 ft.lb 29 % | Insulation Service fa | | : F : 1.25 | |
| Breakdown torque | : 32 | 20 % | Temperatu | | : 80 K | |
| Rated speed | : 17 | 755 rpm | Design | | : B | |
| Heating constant | | | | | | |
| Cooling constant Rev. | | Changes Summary | | Performed | Checked | Date |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
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| Performed by | | | | | |
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

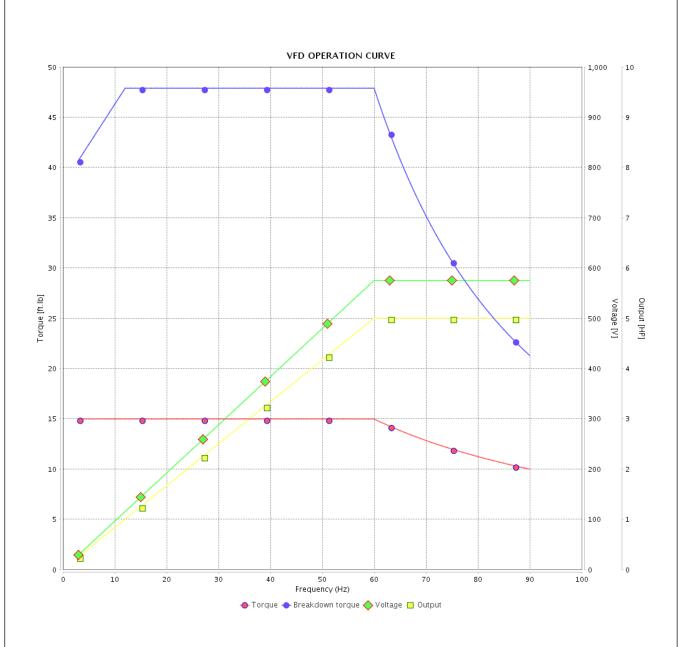
Product code: 12588463

Catalog #: 00518ET3H184JP-W22

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Revision



| Performance | : 575 V 60 Hz 4P | : 575 V 60 Hz 4P | | | | | |
|--|------------------|---|-----------|------------------------------------|------|--|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | | : 7.5 Duty cycle : 15.0 ft.lb Insulation cla : 229 % Service factor : 320 % Temperature | | : Cont.(S1) class : F actor : 1.25 | | | |
| Rev. Changes Summary | | | Performed | Checked | Date | | |
| Performed by | | | | | | | |
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