DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12792537 Catalog #: 00518OT3V184T-SG Frame : 182/4T Locked rotor time : 21s (cold) 12s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200/400 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 14.6/7.28 A : IC01 - ODP L. R. Amperes : 105/52.4 A Mounting : F-1 : Both (CW and CCW) LRC : 7.2x(Code J) Rotation¹ No load current : 7.24/3.62 A Noise level² : 55.0 dB(A) Rated speed : 1760 rpm Starting method : Direct On Line Slip : 2.22 % Approx. weight³ : 82.2 lb Rated torque : 14.9 ft.lb : 200 % Locked rotor torque Breakdown torque : 310 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.4003 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 88.5 88.5 89.5 : 254 lb Efficiency (%) 87.5 Max. traction : 337 lb Power Factor 0.76 0.82 0.38 0.63 Max. compression Drive end Non drive end Bearing type 6206 ZZ 6205 ZZ Sealing Without Bearing Seal Without Bearing Seal

Lubrication interval

Lubricant amount

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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| Date | 12/04/2022 | | | 1/6 | |

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



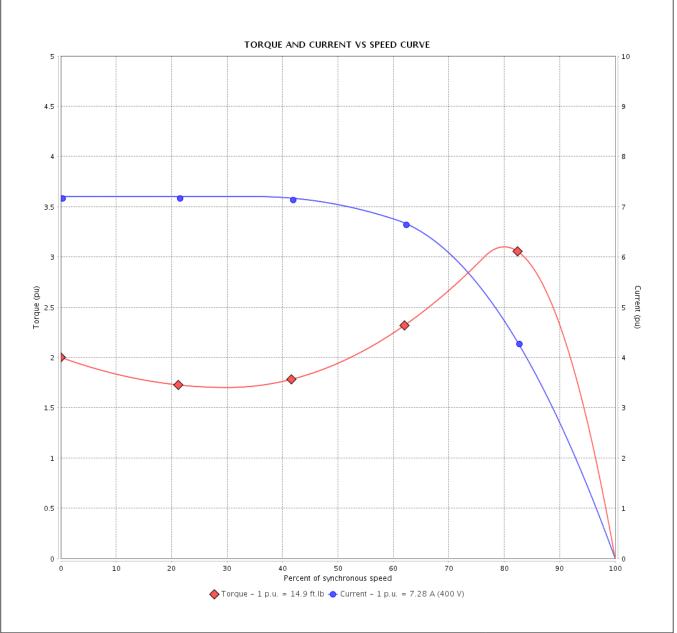
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12792537

Catalog #: 00518OT3V184T-SG



| Performance | : 200/400 V 60 Hz 4P | | | |
|---|--|--|--|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 14.6/7.28 A : 7.2 : 14.9 ft.lb : 200 % : 310 % : 1760 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | : 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Locked reter time | : 21s (cold) 12s (bot) | | ·- | |

Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

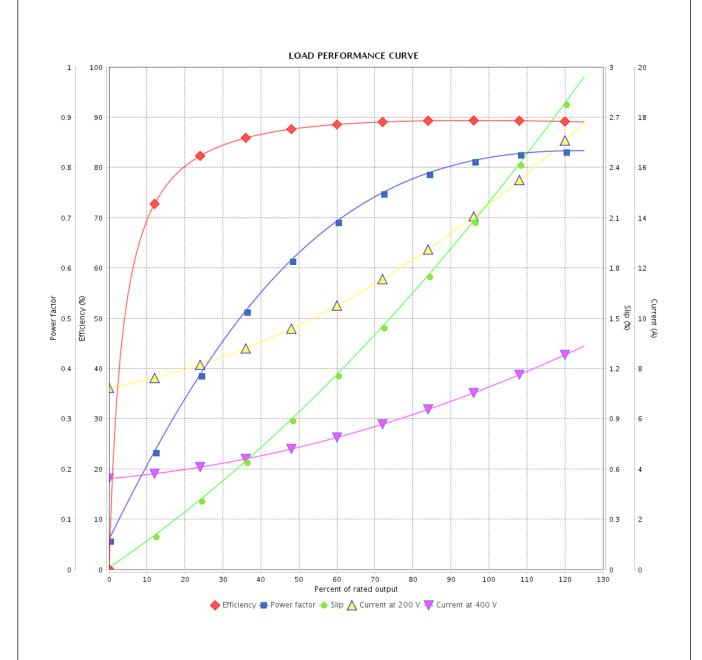


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12792537

Phase

Catalog #: 00518OT3V184T-SG



| Performance | : 200/400 V 60 Hz 4P | | | | |
|---|--|--|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 14.6/7.28 A : 7.2 : 14.9 ft.lb : 200 % : 310 % : 1760 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Rev. Changes Summary | | | Performed | Checked | Date |
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12/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



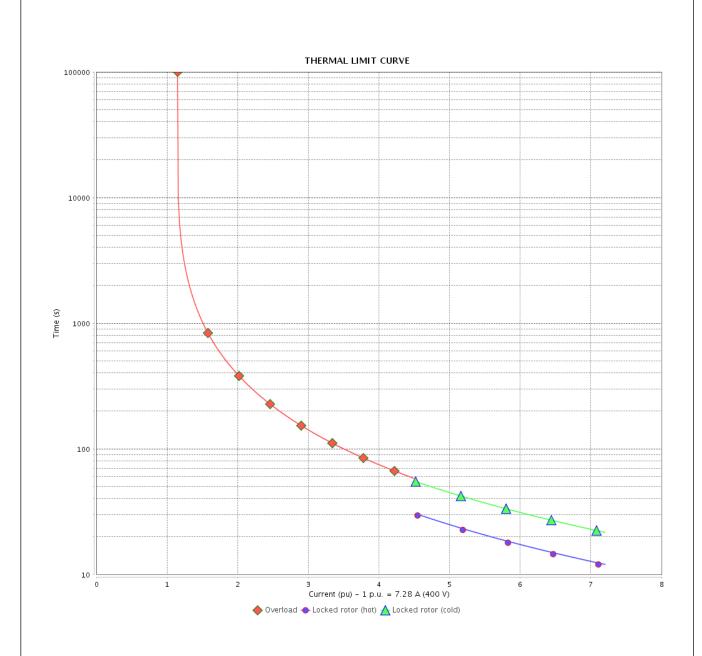
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| Product line | : NEMA Premium Efficiency Phase | Three- | Product code : | 12792537 | |
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| Performance | : 200/400 V 60 Hz 4P | | | | |
| Rated current | : 14.6/7.28 A | Moment o | of inertia (J) | : 0.4003 sq.ft.l | b |
| LRC | : 7.2 | Duty cycle | 9 | : Cont.(S1) | - |
| Rated torque Locked rotor torque | : 14.9 ft.lb : 200 % | Insulation Service fa | | : F : 1.15 | |
| Breakdown torque | : 310 % | Temperati | | : 80 K | |
| Rated speed | : 1760 rpm | Design | | : B | |
| Heating constant | | | | | |
| Cooling constant | | | , | | |
| Rev. | Changes Summary | | Performed | Checked | Date |
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| Checked by | 2/04/2022 | | | Page 4 / 6 | Revision |

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



Revision

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Customer :

Checked by

Date

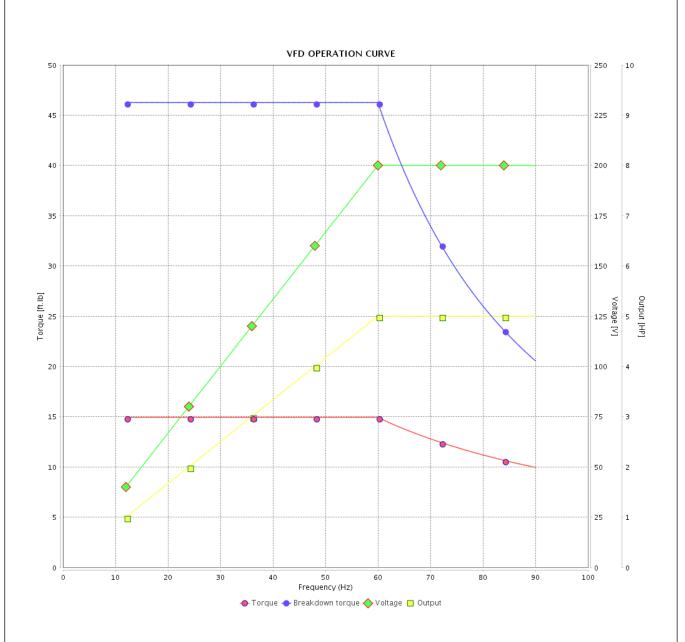
12/04/2022

Product line : NEMA Premium Efficiency Three-

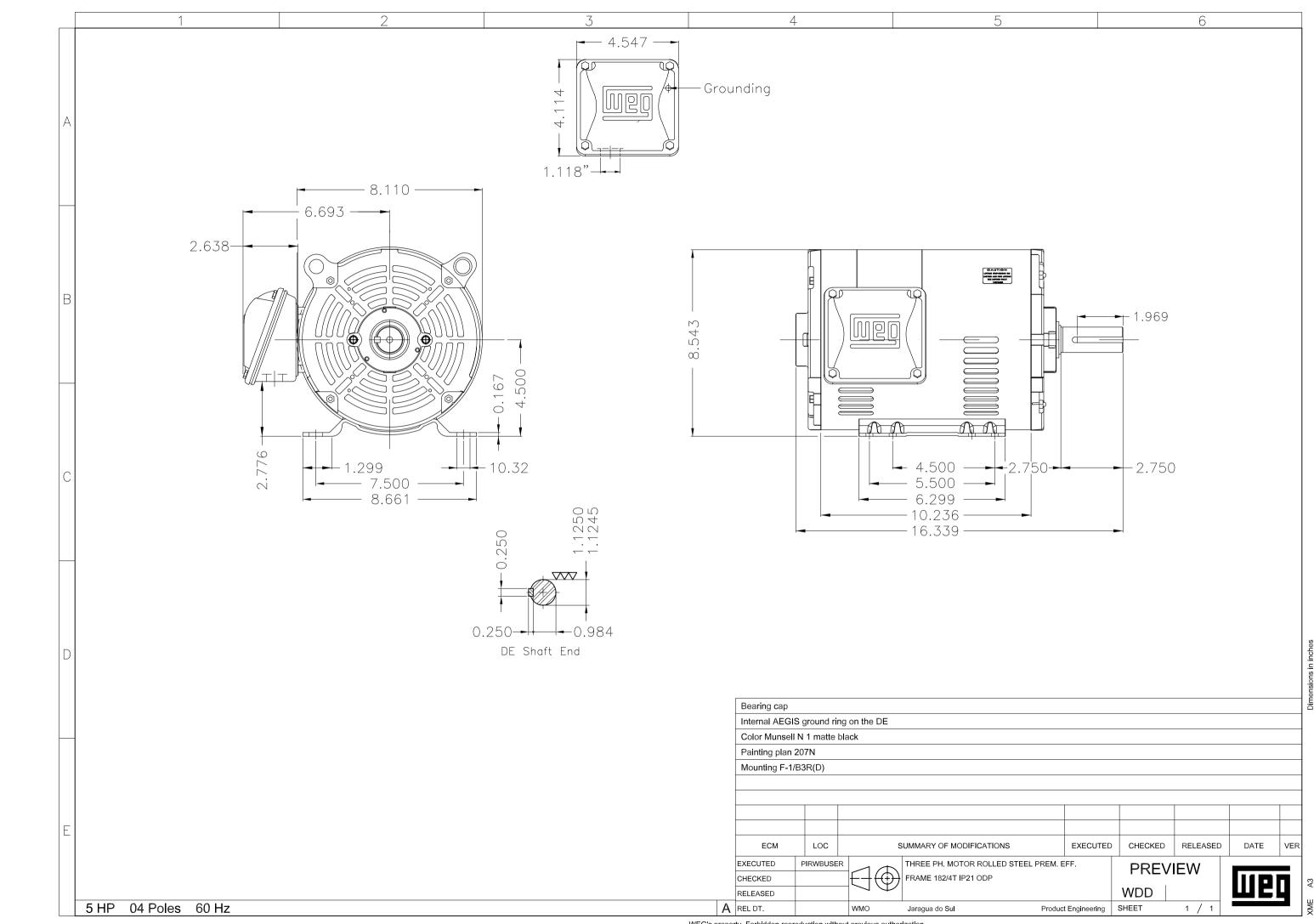
Phase

Product code: 12792537

Catalog #: 00518OT3V184T-SG



Performance : 200/400 V 60 Hz 4P : 14.6/7.28 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 14.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by







5.0(3.7) HP(kW) MODEL 00518OT3V184T-SG

CC029A

W01.TO0IC0X0N

MAT: 12792537

S/N 182/4T

01NOV2018

æ 200/400

H

90

Ä 1760

T2-WHT T8-RED T4-YEL T6-GRY ZN: 0.82 띪 Ή 73-ORG T7-PNK 11-BLU T5-BLK 40°C CONT CODE 89.5% M 80K AMB RPM NEMA NOM.EFF.

ALTERNATE RATING:

INS CL F AT

16.8/8.37

14.6/7.28 ... 1000

T12-VLT T9-BRK RED NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION T10-CURRY T11-GRN HIGH

MOT

MOBIL POLYREX EM Inverter duty For use on VPWM 1000:1 VT, 5:1 CT 6205-ZZ ODE

WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit. 6206-ZZ

électrique grave. Déconnectez l'allmentation avant l'entretien de la machine

AVERTISSEMENT: Le moteur doit être mis à la terre conformément

aux codes électriques locaux et nationaux afin d'éviter tout choc