DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12744391 Catalog #: 02018OT3H256TC-S Frame : 254/6TC Locked rotor time : 27s (cold) 15s (hot) Output : 20 HP (15 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 Cooling method Rated current : 20.0 A : IC01 - ODP L. R. Amperes : 126 A Mounting : F-1 : Both (CW and CCW) LRC : 6.3x(Code G) Rotation¹ No load current : 9.15 A Noise level² : 64.0 dB(A) Rated speed : 1770 rpm Starting method : Direct On Line : 226 lb Slip : 1.67 % Approx. weight³ Rated torque : 59.3 ft.lb Locked rotor torque : 240 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 2.23 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 93.0 : 712 lb Efficiency (%) 91.7 92.4 92.4 Max. traction Power Factor 0.74 0.81 : 938 lb 0.38 0.63 Max. compression Non drive end Drive end 6208 Z C3 Bearing type 6309 Z C3

Bearing type : 6309 Z C3 6208 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h
Lubricant amount : 13 g 8 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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| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 1/6 | |

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



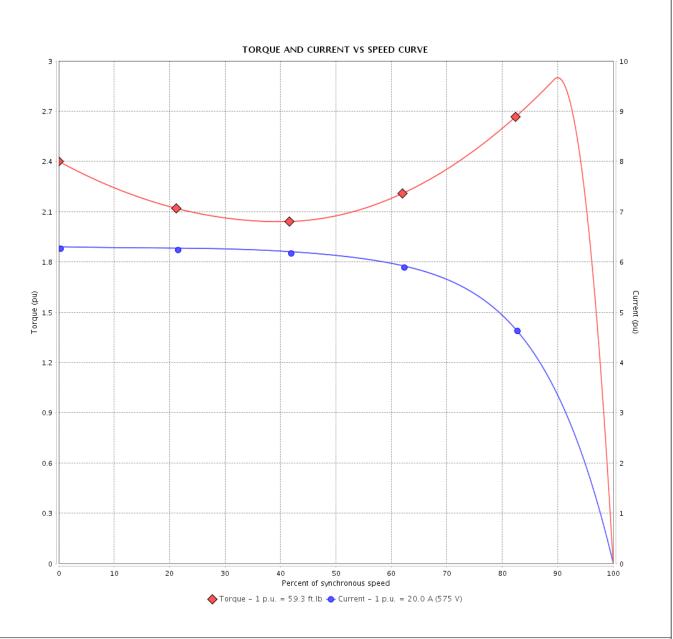
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12744391

Catalog #: 02018OT3H256TC-S



Performance : 575 V 60 Hz 4P Rated current : 20.0 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Service factor Locked rotor torque : 240 % : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

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

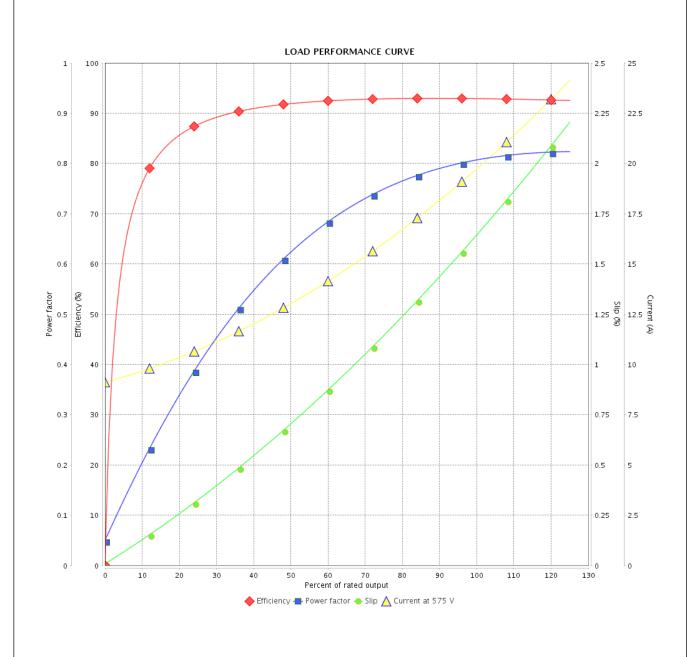


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12744391

Phase

Catalog #: 02018OT3H256TC-S



| Performance | | : 575 V 60 Hz 4P | | | | | |
|-------------------|------------|-----------------------------|------------|------------------|---------|-------------|--|
| Rated current | | 0.0 A Moment of inertia (J) | | : 2.23 sq.ft.lb | | | |
| LRC | | .3 | Duty cycle | Duty cycle | | : Cont.(S1) | |
| Rated torque | : 5 | 9.3 ft.lb | Insulation | Insulation class | | | |
| Locked rotor torq | jue : 2 | 40 % | Service fa | Service factor | | | |
| Breakdown torqu | ie : 2 | 90 % | Temperati | Temperature rise | | | |
| Rated speed | : 1 | 770 rpm | n Design | | : B | | |
| Rev. | | Changes Summary | | Performed | Checked | Date | |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



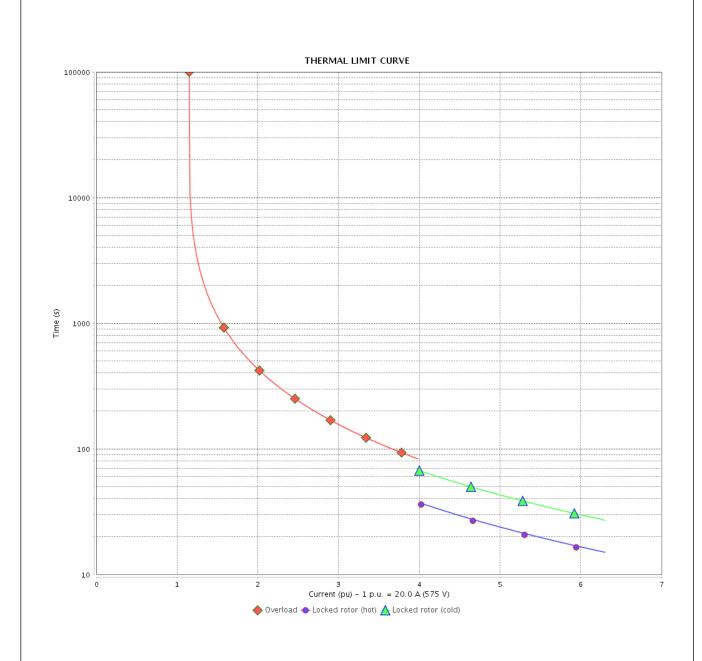
| Customer | : | | | | |
|---|---|---|----------------|--|----------|
| Product line | : NEMA Premium Efficien Phase | | Product code : | 12744391 02018OT3H2 | :56TC-S |
| | | | | | |
| Performance | : 575 V 60 Hz 4P | | | | |
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 20.0 A : 6.3 : 59.3 ft.lb : 240 % : 290 % : 1770 rpm | Moment of Duty cycle Insulation Service fa Temperate Design | class ctor | : 2.23 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : 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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

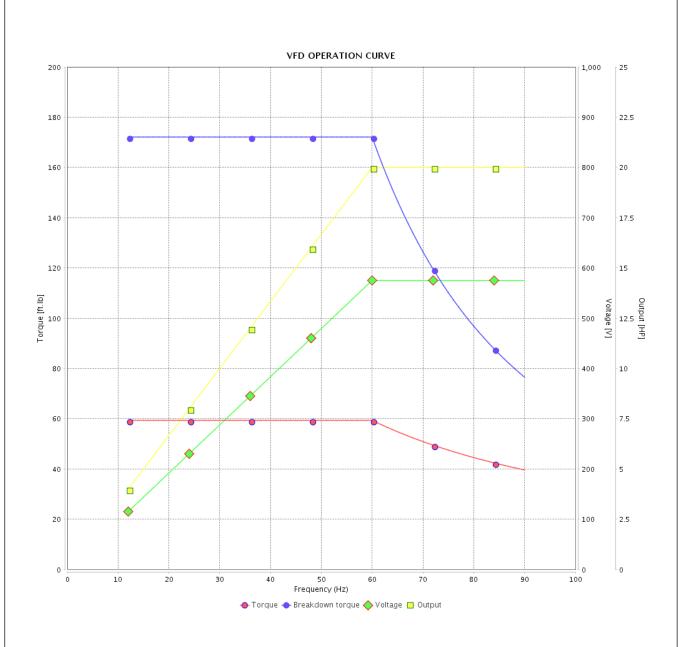
Product code: 12744391

Catalog #: 02018OT3H256TC-S

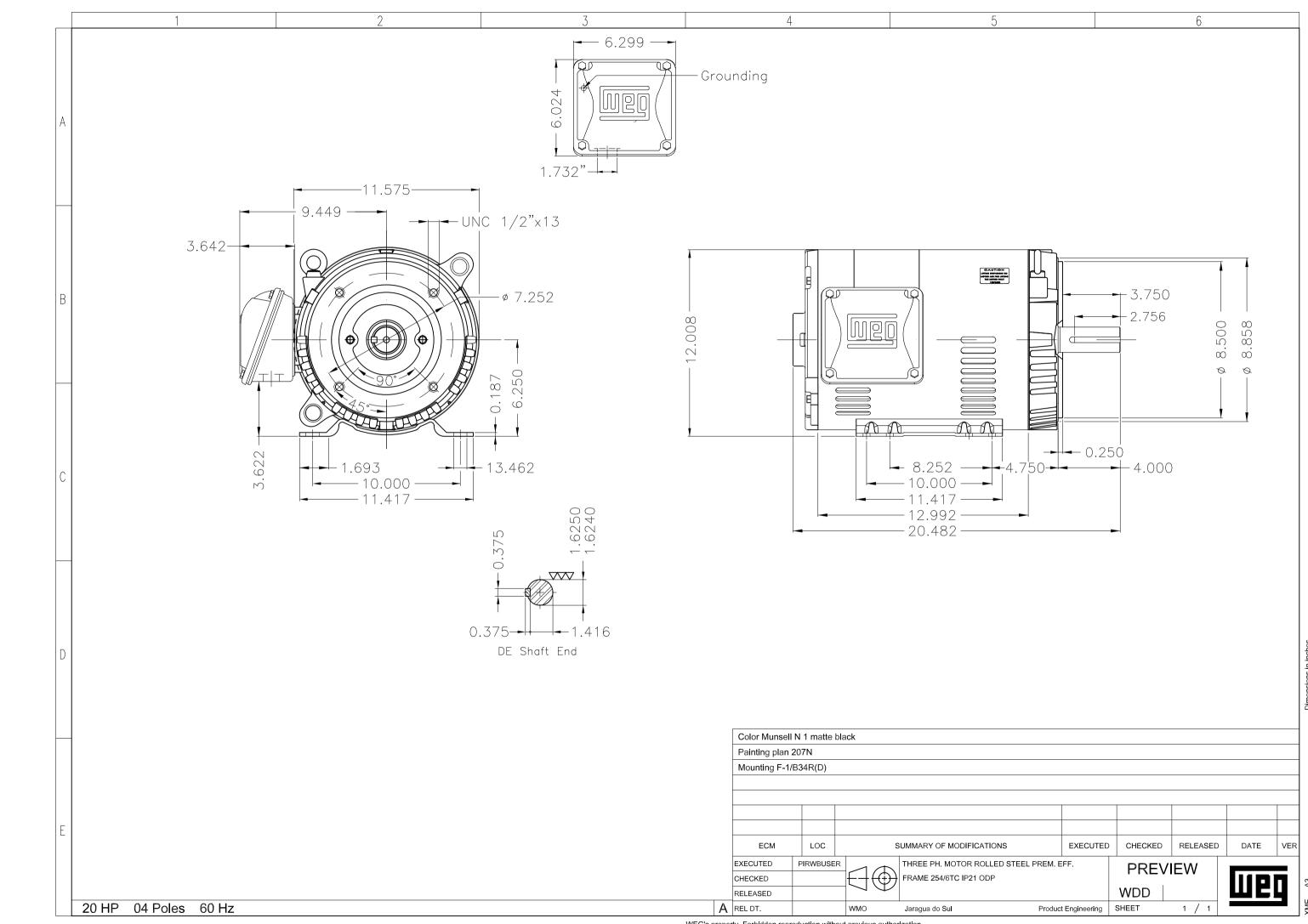
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Revision



| Performance | : 5 | 575 V 60 Hz 4P | | | | |
|---|-----------------------|---|--|-----------|--|------|
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed | : (: ! que : 2 | 20.0 A 6.3 59.3 ft.lb 240 % 290 % 1770 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 2.23 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Rev. | Changes Summary | | | Performed | Checked | Date |
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(**VL)**US LISTED

& Energy Verified

3PT9

MODEL 020180T3H256TC-S S/N N01.TODICOXON 3FEB2022

MAT: 12744391

MADE IN MÉXICO

Hz 60 254/6TC

CONT

1000 m.a.s.l F AT 80K

23.0 1.15 575 20.0

r3-ORG T4-YEL r6-GRY 15-BLK

T2-WHT

T1-BLU

2000bh

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT

NOM. EFF 93.0%

NEMA RPM 3FA 쑮 쌆

> U CODE DES

2°04 음

SCI NCL WB

ME XERY POLYREX EM

ODE 6208-Z-C3

8309-Z-C3

牌

9

conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine