DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12751163

Catalog #: 00518OT3E184TC-S Frame : 182/4TC Cooling method : IC01 - ODP Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 90.5 lb Altitude Design : B Moment of inertia (J) : 0.4003 sq.ft.lb Output [HP] 5 5 5 Poles 4 4 Frequency [Hz] 60 50 50 220/415 Rated voltage [V] 230/460 190/380 Rated current [A] 12.7/6.33 15.4/7.71 13.8/7.32 L. R. Amperes [A] 91.2/45.6 89.4/44.7 89.8/47.6 LRC [A] 7.2x(Code J) 5.8x(Code G) 6.5x(Code H) No load current [A] 6.29/3.15 6.19/3.10 6.38/3.38 Rated speed [RPM] 1760 1445 1450 Slip [%] 2.22 3.67 3.33 Rated torque [ft.lb] 14.9 18.2 18.1 Locked rotor torque [%] 200 140 160 Breakdown torque [%] 310 220 250 Service factor 1.15 1.15 1.15 80 K 80 K 80 K Temperature rise 0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 21s (cold) 12s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 87.5 90.4 89.3 50% 88.5 88.2 87.9 Efficiency (%) 75% 88.5 87.3 87.6 100% 89.5 84.8 85.8

0.44

0.71

0.82

0.86

Non drive end Foundation loads Drive end

Bearing type 6206 ZZ 6205 ZZ : 244 lb Max. traction Sealing Without Without Max. compression : 334 lb

> Bearing Seal Bearing Seal

0.38

0.63

0.76

0.82

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Power Factor

USABLE @208V 14.0A SF 1.00 SFA 14.0A

25%

50%

75%

100%

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.

0.40

0.67

0.79

0.85

| Rev. | | Changes Summary | Performed | Checked | Date |
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| Date | 12/04/2022 | | | 1 / 16 | |

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



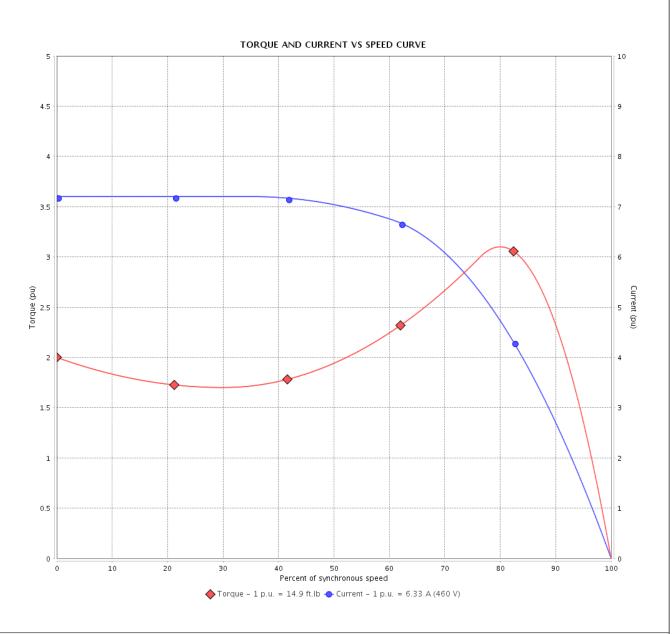
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12751163

Catalog #: 00518OT3E184TC-S



Performance : 230/460 V 60 Hz 4P Rated current : 12.7/6.33 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F : 14.9 ft.lb Insulation class Rated torque : 200 % Service factor Locked rotor torque : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

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

| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
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| Date | 12/04/2022 | | | 2/16 | |

TORQUE AND CURRENT VS SPEED CURVE

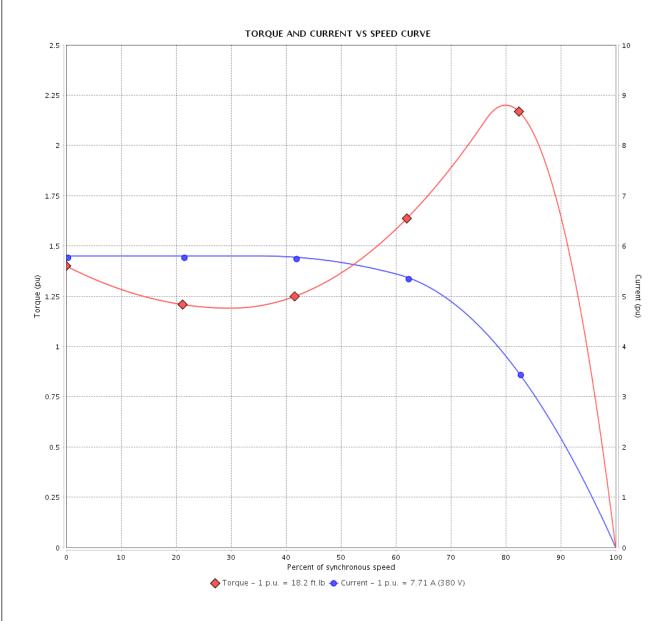
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12751163

Catalog #: 00518OT3E184TC-S



Performance : 190/380 V 50 Hz 4P Rated current : 15.4/7.71 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Rated torque : 18.2 ft.lb Insulation class : F : 140 % Service factor Locked rotor torque : 1.15 : 80 K Breakdown torque : 220 % Temperature rise : B Rated speed : 1445 rpm Design Locked rotor time : 0s (cold) 0s (hot)

| LOCKCO TOTOL UITIN | . 0. | 3 (6014) 63 (1161) | | | |
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| Date | 12/04/2022 | _ | | 3 / 16 | |

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



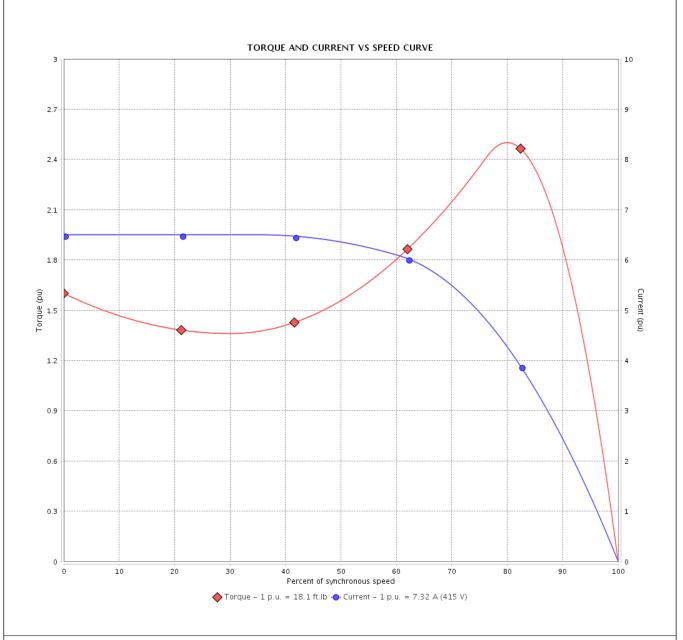
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12751163

Catalog #: 00518OT3E184TC-S



Performance : 220/415 V 50 Hz 4P Rated current : 13.8/7.32 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 18.1 ft.lb Locked rotor torque : 160 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

Locked rotor time : 0s (cold) 0s (hot)

| Rev. | | Changes Summary | Performed | Checked | Date |
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| Date | 12/04/2022 | | | 4 / 16 | |

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

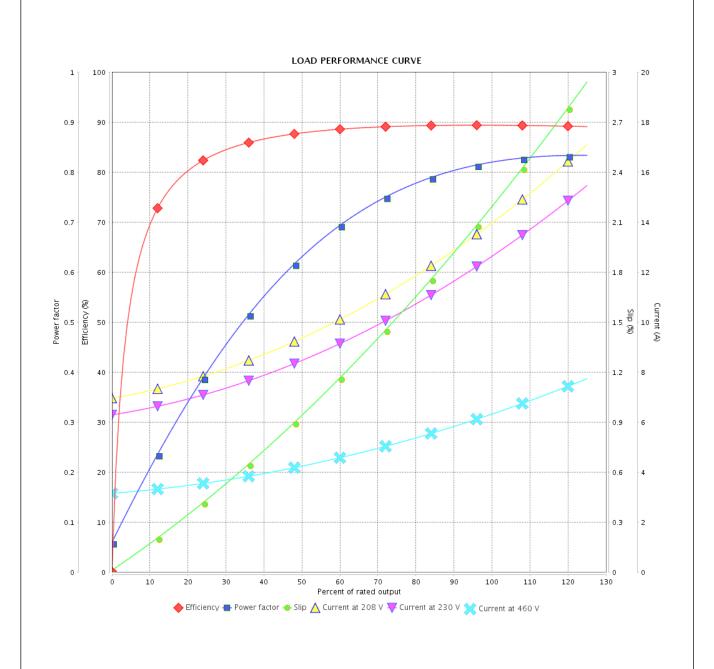


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751163

Phase

Catalog #: 00518OT3E184TC-S



| Performance : 230/460 V 60 Hz 4P | | | | | | |
|----------------------------------|------------|-----------------|------------------|---------------|-------------------|----------|
| Rated current | : | 12.7/6.33 A | Moment o | f inertia (J) | : 0.4003 sq.ft.lb | |
| LRC | : | 7.2 | Duty cycle | ; | : Cont.(S1) | |
| Rated torque | : | 14.9 ft.lb | Insulation | class | : F | |
| Locked rotor torque | e : | 200 % | Service fa | ctor | : 1.15 | |
| Breakdown torque | : | 310 % | Temperature rise | | : 80 K | |
| Rated speed | : 1760 rpm | | Design | Design | | |
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| Date | 12/04/2022 | | | | 5 / 16 | |

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

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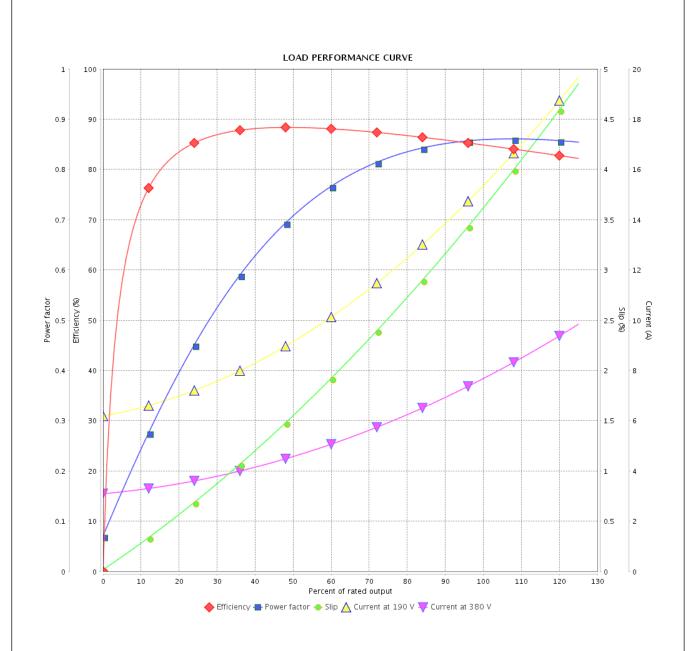
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00518OT3E184TC-S

12751163

6/16



Performance : 190/380 V 50 Hz 4P : 15.4/7.71 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class Rated torque : 18.2 ft.lb : F Locked rotor torque : 140 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

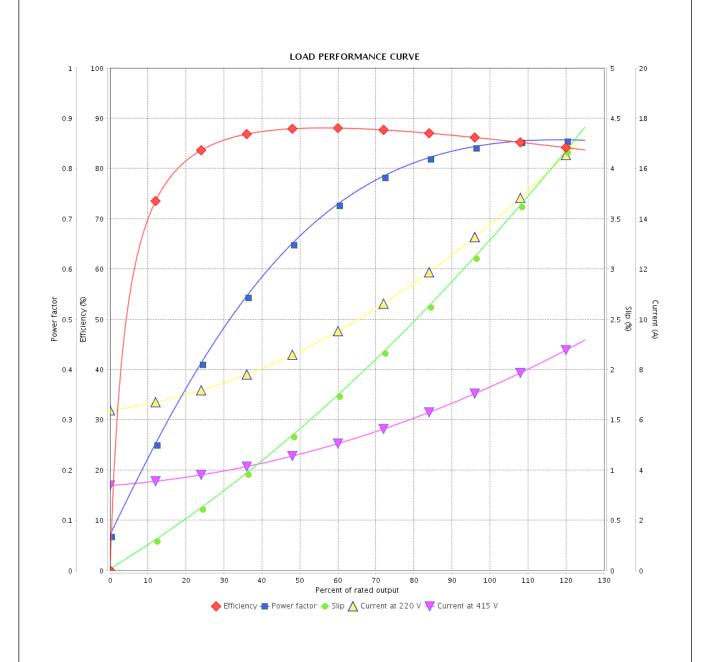


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751163

Phase

Catalog #: 00518OT3E184TC-S



| Performance | : 220/415 V 50 Hz 4P | | | | |
|--|--|--|------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 13.8/7.32 A : 6.5 : 18.1 ft.lb : 160 % : 250 % : 1450 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.4003 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B | lb |
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7 / 16

12/04/2022

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Three Phase Induction Motor - Squirrel Cage

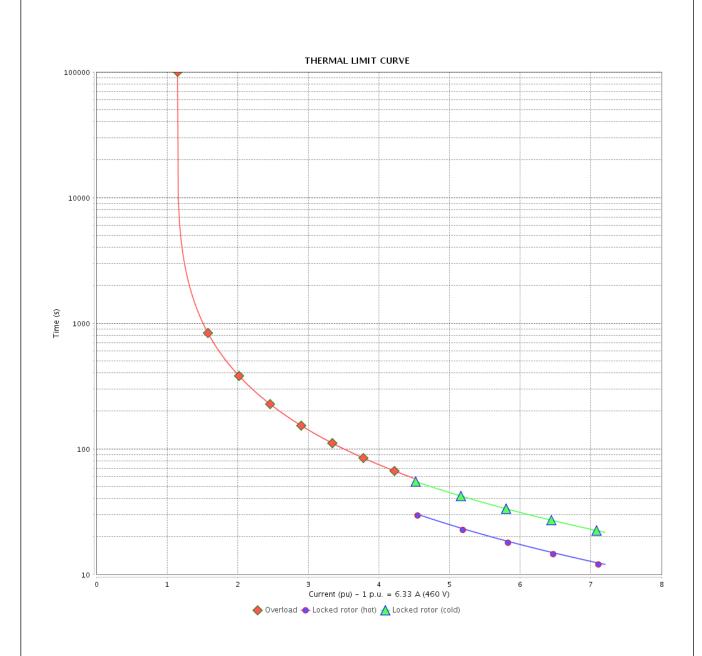


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| Product line | : NEMA Premium Efficiency | Three- | Product code : | 12751163 | |
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| Performance | : 230/460 V 60 Hz 4P | | | | |
| Rated current | : 12.7/6.33 A | Moment o | f inertia (J) | : 0.4003 sq.ft.l | b |
| LRC Rated torque | : 7.2 : 14.9 ft.lb | Duty cycle Insulation | : class | : Cont.(S1) : F | |
| Locked rotor torque | : 200 % | Service fa | ctor | : 1.15 | |
| Breakdown torque Rated speed | : 310 % : 1760 rpm | Temperatu Design | ıre rise | : 80 K : B | |
| | 00 .p.iii | 2 3 Oigii | | | |
| Heating constant Cooling constant | | | | | |
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Three Phase Induction Motor - Squirrel Cage



Customer



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| Date | 12/04/2022 | | | 9 / 16 | |

Three Phase Induction Motor - Squirrel Cage

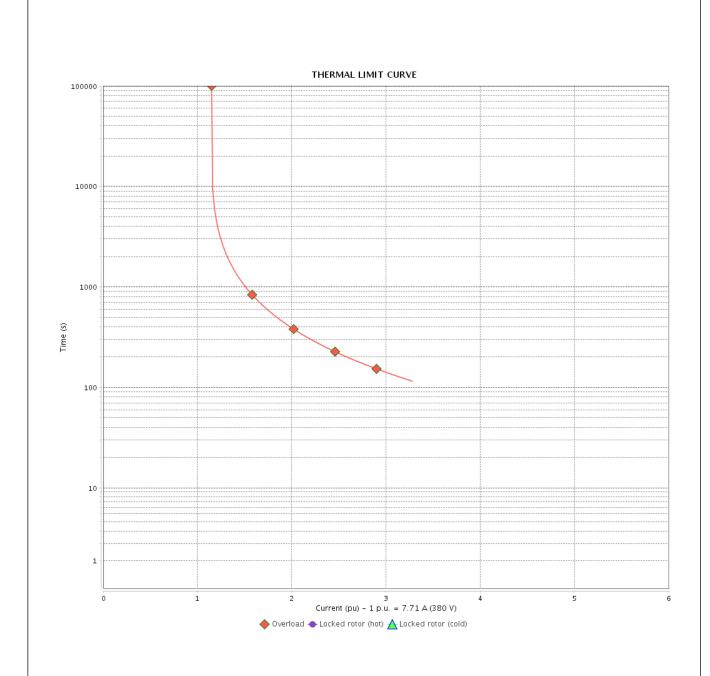


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| Performance | : 190/380 V 50 Hz 4P | | | | |
| Rated current | : 15.4/7.71 A | Moment of | of inertia (J) | : 0.4003 sq.ft.l | b |
| LRC | : 5.8 | Duty cycle | е | : Cont.(S1) | |
| Rated torque Locked rotor torqu | : 18.2 ft.lb e : 140 % | Insulation Service fa | | : F : 1.15 | |
| Breakdown torque | : 220 % | Temperat | ure rise | : 80 K | |
| Rated speed | : 1445 rpm | Design | | : B | |
| Heating constant | | | | | |
| Cooling constant Rev. | Changes Summary | | Performed | Checked | Date |
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| Date | 12/04/2022 | | | 10 / 16 | |

Three Phase Induction Motor - Squirrel Cage



Customer



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| Date | 12/04/2022 | | | 11 / 16 | |

Three Phase Induction Motor - Squirrel Cage

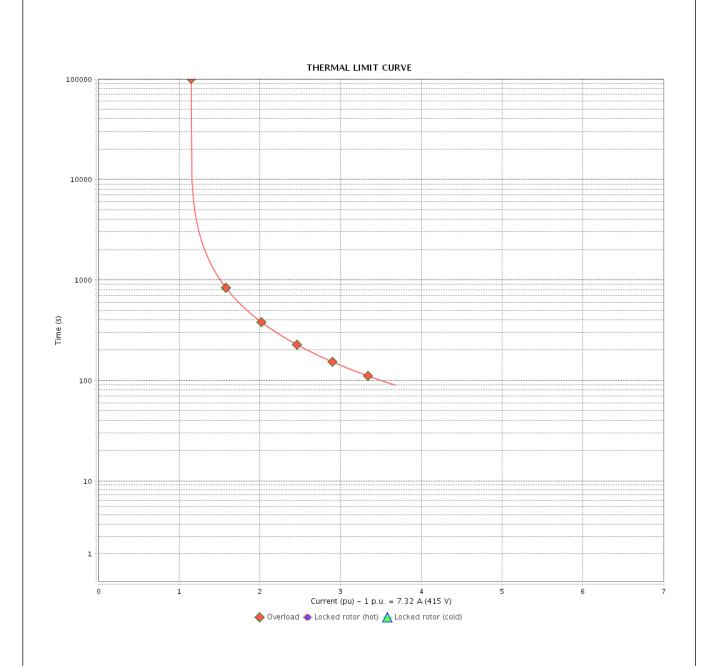


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| Product line | :1 | NEMA Premium Efficiency | Three- | Product code : | 12751163 | |
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| Performance | : 22 | 20/415 V 50 Hz 4P | | | | |
| Rated current | | 3.8/7.32 A | Moment o | f inertia (J) | : 0.4003 sq.ft.l | b |
| LRC Rated torque | : 6. : 18 | .5 8.1 ft.lb | Duty cycle Insulation | ; class | : Cont.(S1) : F | |
| Locked rotor torqu | ie : 16 | 60 % | Service fa | ctor | : 1.15 | |
| Breakdown torque Rated speed | | 50 % 450 rpm | Temperatu Design | ıre rise | : 80 K : B | |
| | . !- | | 2301911 | | . <i>5</i> | |
| Heating constant | | | | | | |
| Cooling constant Rev. | | Changes Summary | | Performed | Checked | Date |
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Three Phase Induction Motor - Squirrel Cage



Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
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| Performed by | | | | | |
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| Date | 12/04/2022 | | | 13 / 16 | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

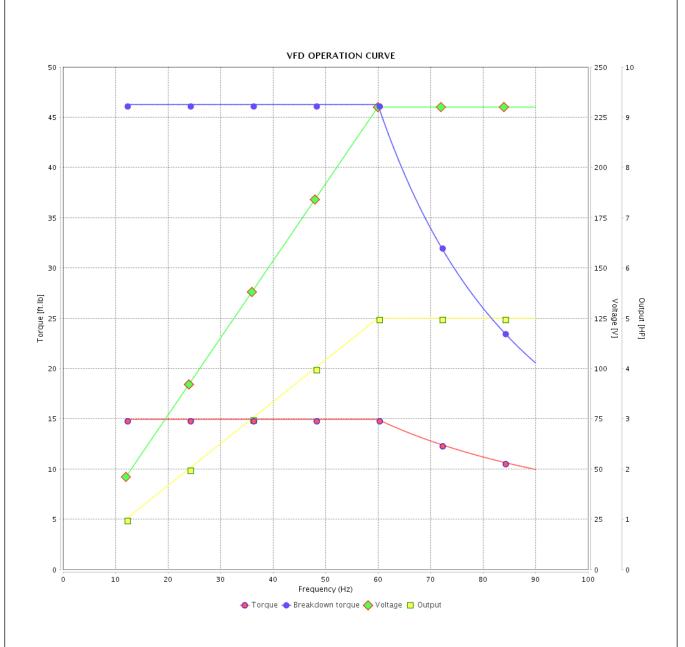
Product code: 12751163

Catalog #: 00518OT3E184TC-S

Page

14/16

Revision



| Performance | | : 230/460 V 60 H | Hz 4P | | | | |
|---|-----------------|--|-------|-----------|--|------|--|
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed | lue le | : 12.7/6.33 A Moment of inert control in the contro | | class | : 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | | |
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

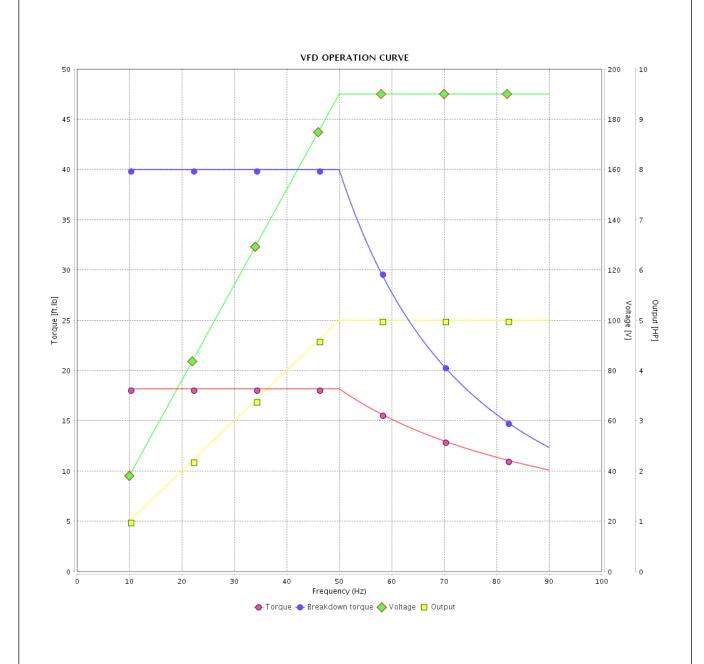


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751163

Phase

Catalog #: 00518OT3E184TC-S



| Performance | : 19 | 90/380 V 50 Hz 4P | | | | |
|---|-------------------------|----------------------------------|--|-------------------------|---|----------|
| Rated current LRC Rated torque Locked rotor torque | : 5. : 18 ue : 14 | : 5.8 : 18.2 ft.lb : 140 % | | class actor | : 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K | |
| Breakdown torque Rated speed | | : 220 % : 1445 rpm | | Temperature rise Design | | |
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| Date | 12/04/2022 | 1 | | | 15 / 16 | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page 16 / 16

Customer :

Checked by

Date

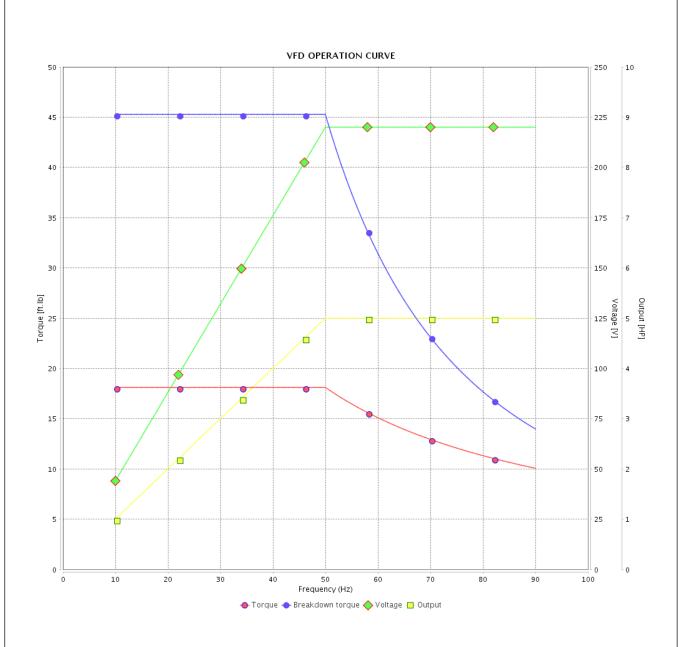
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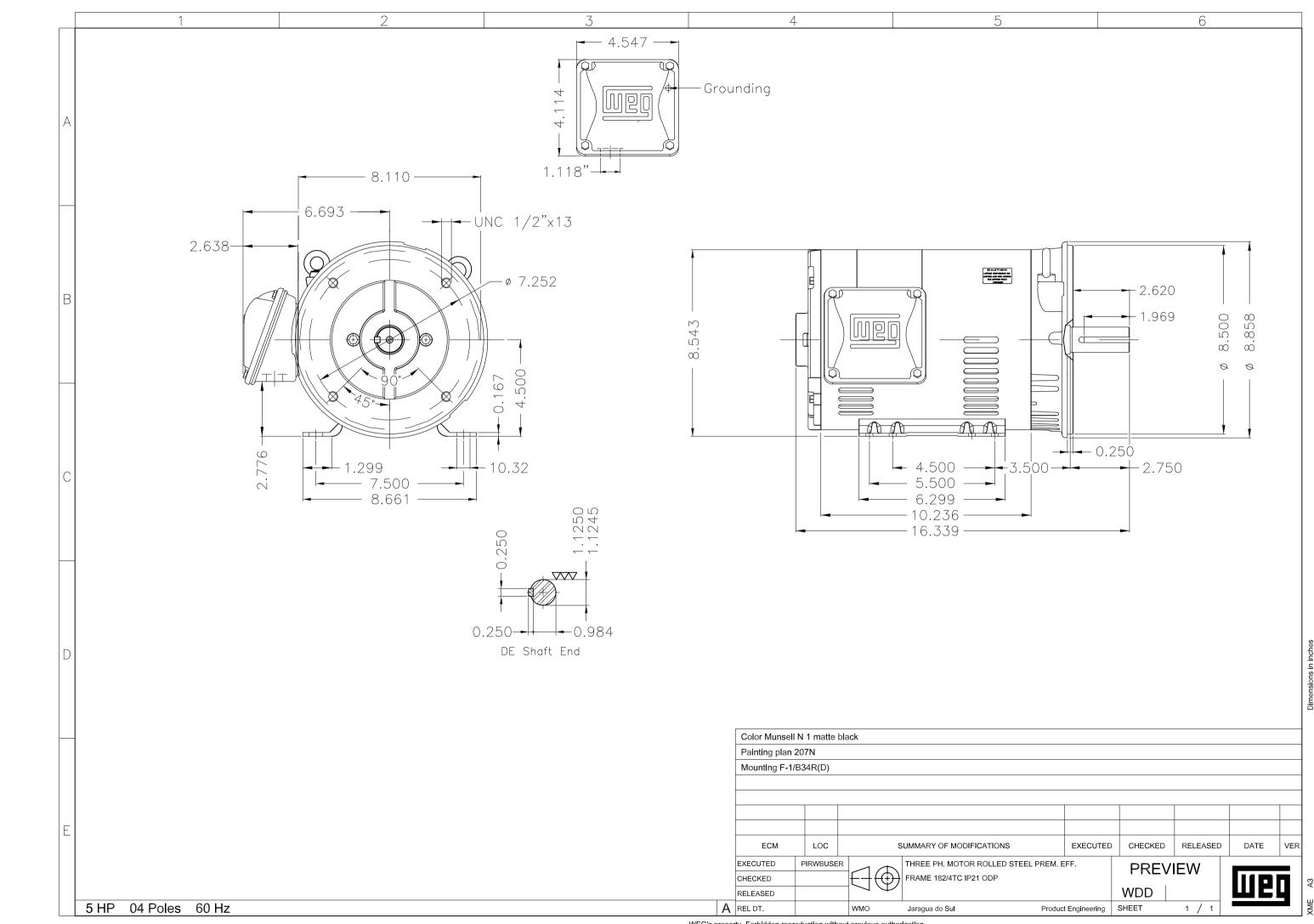
Phase

Product code: 12751163

Catalog #: 00518OT3E184TC-S



Performance : 220/415 V 50 Hz 4P : 13.8/7.32 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class : 18.1 ft.lb : F Rated torque Locked rotor torque : 160 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by





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S Su Su Energy Verifi (**UL)**US LISTED

> MODEL 005180T3E184TC-S Hz 60 S/N :0MAR2022

N01.TODICOXON

12751163

MADE IN MÉXICO

DES 1000 m.a.s.l F AT 80K 182/4TC CONT 2°04

NSC

12.7/6.33 14.6/7.28 230/460

1.15

3FA 냃

> CODE SABLE @ 208V 14.0A

900

1445RPM ZPM 쌆 50 Hz 5.0HP

89.5% NOM EFF

15.4-13.5/7.71-7.18A

ALTERNATE RATING:

SF1.00 INC. 2

IEC 60034-1

SF1.15

190-220/380-415V

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 5:1 CT **EFF 84.8%**

6205-ZZ

ODE

8206-ZZ

牌

MOBIL POLYREX EM

T6

T2-WHT

T4-YEL

r3-org

T5-BLK 11-BLU







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