DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code:

Efficiency Three-Phase

Catalog #: 00318OT3E182JM-SG

12687789

Frame : 182/4JM Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ Altitude : 74.8 lb

| Design | | : B | Moment of inertia (J) | : 0.3092 sq.ft.lb |
|--------------------------|--------|----------------------|-----------------------|--------------------|
| Output [HP] | | 3 | 3 | 3 |
| Poles | | 4 | 4 | 4 |
| Frequency [Hz] | | 60 | 50 | 50 |
| Rated voltage [V] | | 230/460 | 190/380 | 220/415 |
| Rated current [A] | | 7.72/3.86 | 9.08/4.54 | 8.41/4.46 |
| L. R. Amperes [A] | | 64.8/32.4 | 58.1/29.1 | 59.7/31.7 |
| LRC [A] | | 8.4x(Code K) | 6.4x(Code H) | 7.1x(Code J) |
| No load current [A | .] | 4.14/2.07 | 4.08/2.04 | 4.20/2.22 |
| Rated speed [RPI | Л] | 1765 | 1460 | 1465 |
| Slip [%] | | 1.94 | 2.67 | 2.33 |
| Rated torque [ft.lb |] | 8.93 | 10.8 | 10.8 |
| Locked rotor torqu | ie [%] | 220 | 150 | 170 |
| Breakdown torque | : [%] | 330 | 240 | 280 |
| Service factor | | 1.15 | 1.15 | 1.15 |
| Temperature rise | | 80 K | 80 K | 80 K |
| Locked rotor time | | 27s (cold) 15s (hot) | 0s (cold) 0s (hot) | 0s (cold) 0s (hot) |
| Noise level ² | | 55.0 dB(A) | 53.0 dB(A) | 53.0 dB(A) |
| | 25% | 86.4 | 85.6 | 88.0 |
| Efficiency (%) | 50% | 87.5 | 86.0 | 87.3 |
| Lilicierity (70) | 75% | 88.5 | 86.5 | 87.9 |
| | 100% | 89.5 | 86.7 | 86.9 |
| | 25% | 0.35 | 0.42 | 0.37 |
| Power Factor | 50% | 0.60 | 0.68 | 0.63 |
| I OWEI FACIOI | 75% | 0.73 | 0.79 | 0.76 |
| | 100% | 0.80 | 0.85 | 0.82 |

Drive end Non drive end Foundation loads

Bearing type 6207 ZZ 6205 ZZ : 155 lb Max. traction Sealing Without Without Max. compression : 230 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 8.54A SF 1.00 SFA 8.54A

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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

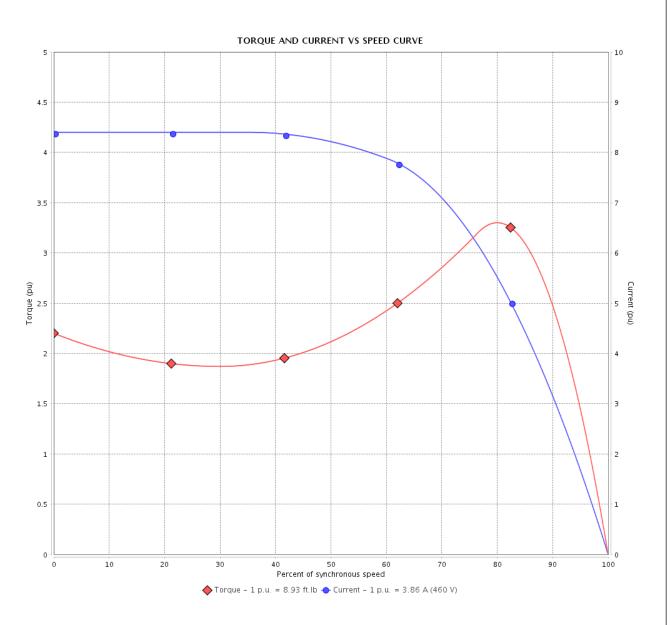


Customer :

Product line : JM Pump NEMA Premium Product code : 12687789

Efficiency Three-Phase

Catalog #: 00318OT3E182JM-SG



Performance : 230/460 V 60 Hz 4P Rated current : 7.72/3.86 A Moment of inertia (J) : 0.3092 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : F : 8.93 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

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

| Rev. | | Changes Summary | Performed | Checked | Date |
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Product line

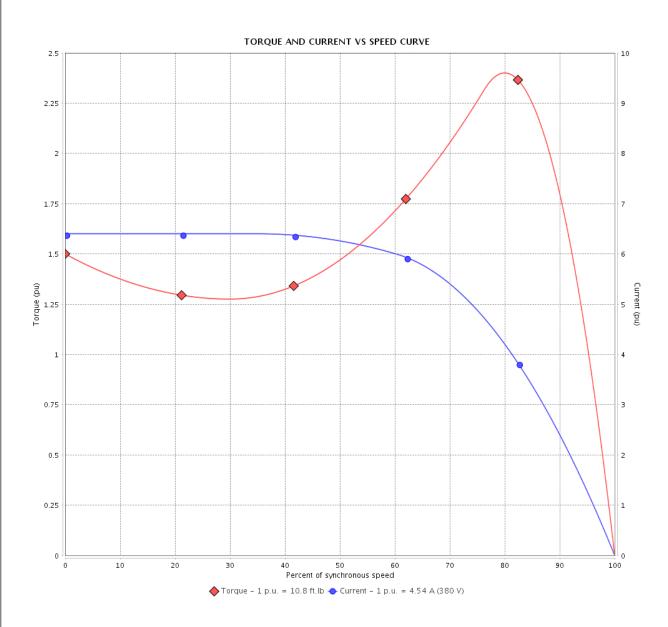


Customer :

: JM Pump NEMA Premium Product code : Efficiency Three-Phase

Catalog #: 00318OT3E182JM-SG

12687789



Performance : 190/380 V 50 Hz 4P Rated current : 9.08/4.54 A Moment of inertia (J) : 0.3092 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 10.8 ft.lb Insulation class : F Rated torque Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K : B Rated speed : 1460 rpm Design

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

| | | ` ' ' ' | | | |
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



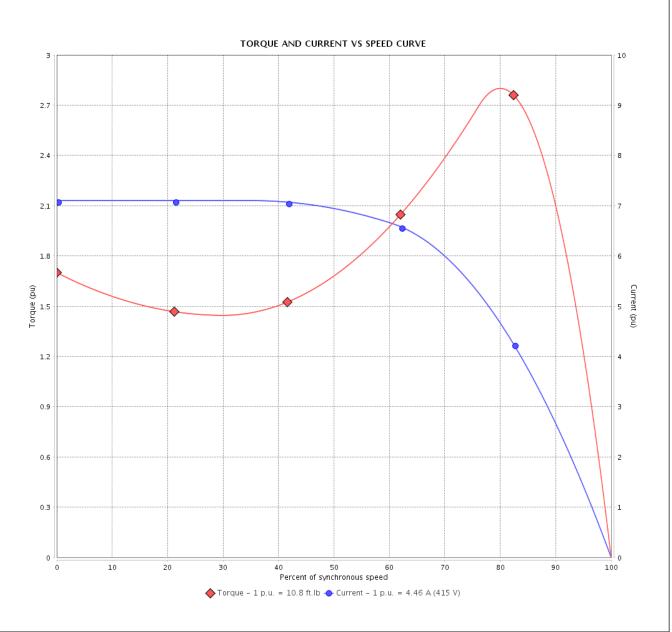
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687789

Catalog #: 00318OT3E182JM-SG



Performance : 220/415 V 50 Hz 4P Rated current : 8.41/4.46 A Moment of inertia (J) : 0.3092 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : F : 10.8 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 170 % : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



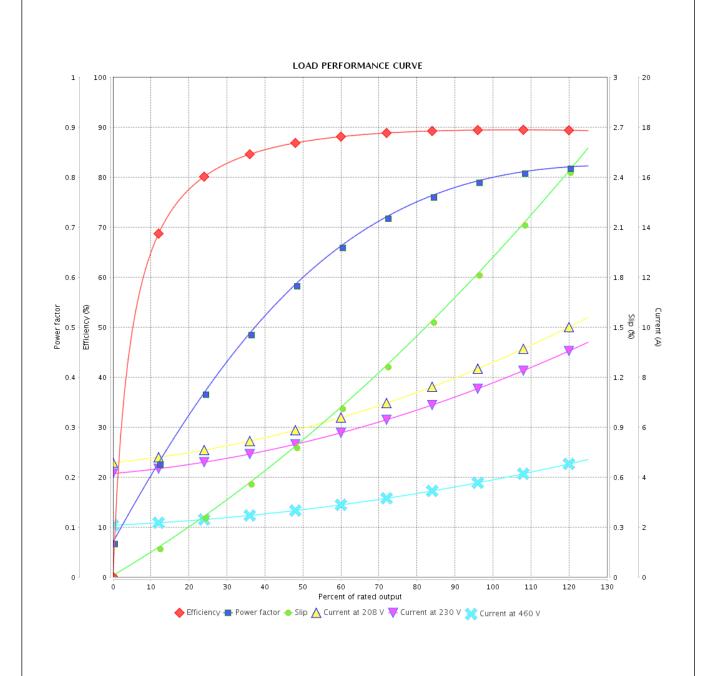
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687789

Catalog #: 00318OT3E182JM-SG



| Performance | : 23 | 30/460 V 60 Hz 4P | | | | |
|-------------------|-------------------|-------------------|------------|------------------|----------------|----------|
| Rated current | : 7.72/3.86 A Mon | | Moment of | f inertia (J) | : 0.3092 sq.ft | .lb |
| LRC | : 8. | 4 | Duty cycle | • | : Cont.(S1) | |
| Rated torque | : 8. | 93 ft.lb | Insulation | class | : F | |
| Locked rotor torq | jue : 22 | 20 % | Service fa | ctor | : 1.15 | |
| Breakdown torque | | 30 % | Temperat | Temperature rise | | |
| Rated speed | : 17 | 765 rpm | Design | | : B | |
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

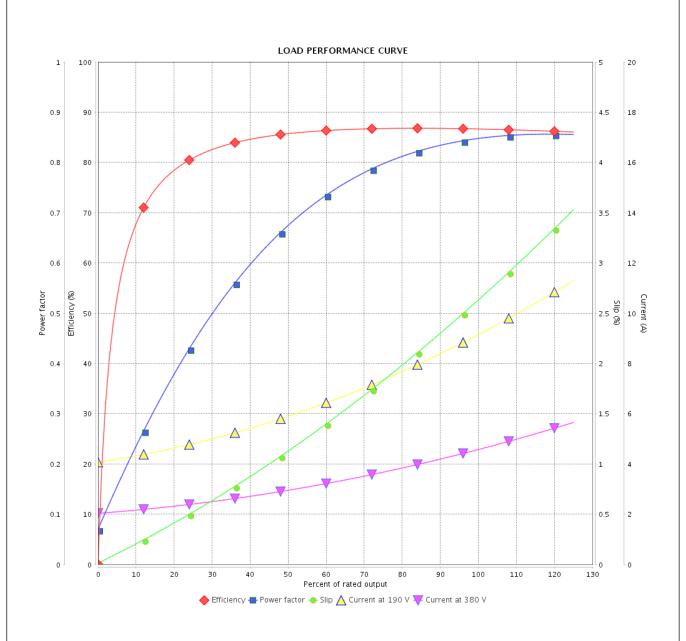
13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687789

Catalog #: 00318OT3E182JM-SG



Performance : 190/380 V 50 Hz 4P Rated current : 9.08/4.54 A Moment of inertia (J) : 0.3092 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 10.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



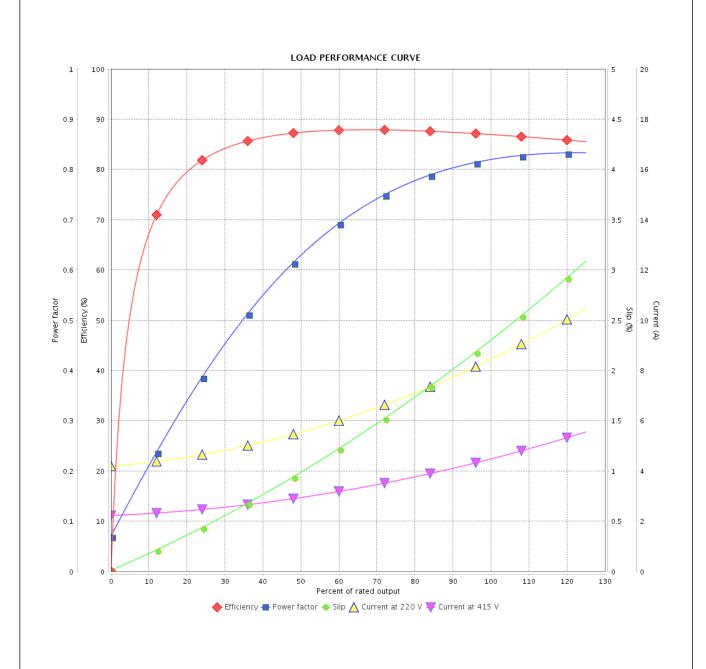
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687789

Catalog #: 00318OT3E182JM-SG



| Performance | : 2 | 220/415 V 50 Hz 4P | | | | |
|------------------|-----------------------------|--------------------|------------|------------------|-------------------|----------|
| Rated current | Rated current : 8.41/4.46 A | | Moment o | f inertia (J) | : 0.3092 sq.ft.lb | |
| LRC | : 7 | 7.1 | Duty cycle |) | : Cont.(S1) | |
| Rated torque | : 1 | 10.8 ft.lb | Insulation | class | : F | |
| | | 170 % | Service fa | ctor | : 1.15 | |
| Breakdown torque | | 280 % | Temperati | Temperature rise | | |
| Rated speed | : 1 | 1465 rpm | Design | | : B | |
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Three Phase Induction Motor - Squirrel Cage

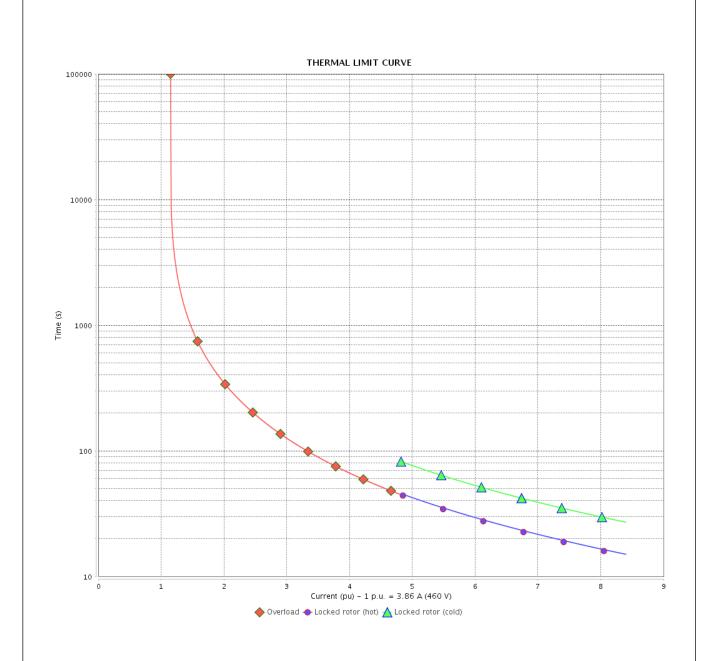


| Customer | | : | | | | |
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| Product line | | : JM Pump NEMA Premium Efficiency Three-Phase | | Product code : | 12687789 | |
| | | Linderley Three-i hase | | Catalog # : | 00318OT3E | 182JM-SG |
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| Performance | : | 230/460 V 60 Hz 4P | | | | |
| Rated current | | 7.72/3.86 A | Moment of | of inertia (J) | : 0.3092 sq.ft.l | b |
| LRC | : | 8.4 | Duty cycle | 9 | : Cont.(S1) | |
| Rated torque Locked rotor torq | | 8.93 ft.lb 220 % | Insulation Service fa | | : F : 1.15 | |
| Breakdown torqu | | 330 % | Temperat | | : 80 K | |
| Rated speed | | 1765 rpm | Design | | : B | |
| Heating constant | t | | | | | |
| Cooling constant | 1 | | | | | |
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

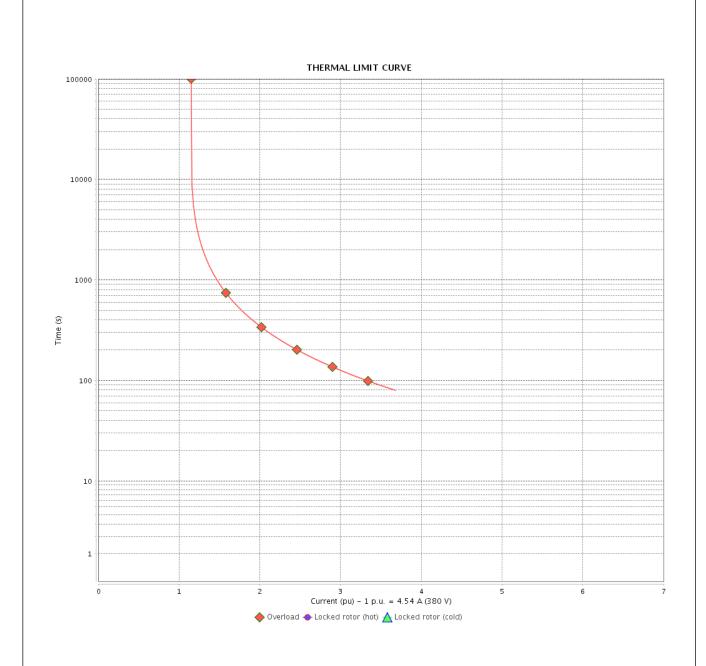


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| Product line | | : JM Pump NEMA Premium Efficiency Three-Phase | | Product code : | 12687789 | |
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| Performance | : | 190/380 V 50 Hz 4P | | | | |
| Rated current | | 9.08/4.54 A | Moment of | of inertia (J) | : 0.3092 sq.ft.l | b |
| LRC | | 6.4 | Duty cycle | 9 | : Cont.(S1) | |
| Rated torque Locked rotor tord | | 10.8 ft.lb 150 % | Insulation Service fa | | : F : 1.15 | |
| Breakdown torqu | ue : | 240 % | Temperat | | : 80 K | |
| Rated speed | <u>:</u> | 1460 rpm | Design | | : B | |
| Heating constan | | | | | | |
| Cooling constant | t | 01 0 | | | | |
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

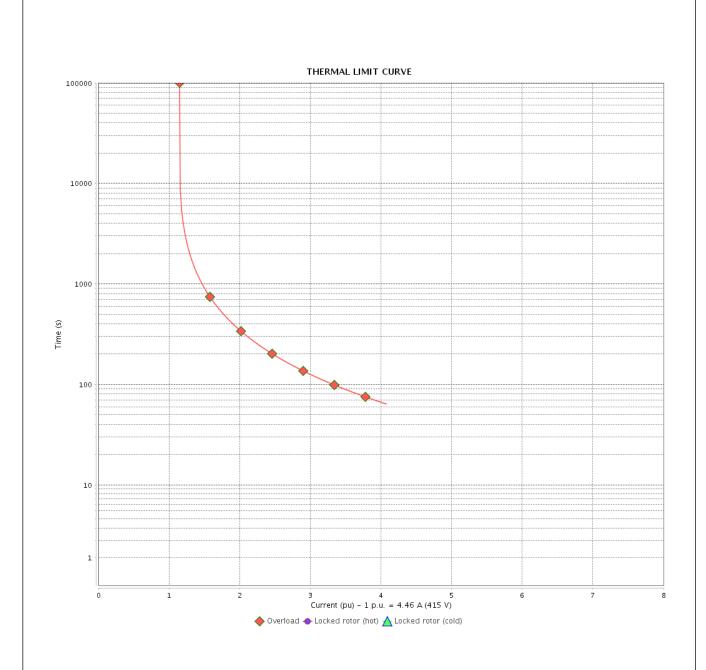


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| Product line | | : JM Pump NEMA Premium Efficiency Three-Phase | | Product code : | 12687789 | |
| | | Emoleticy Three-i hase | | Catalog # : | 00318OT3E1 | 82JM-SG |
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| D (| | 000/445 \/ 50 \ | | | | |
| Performance Rated current | | 220/415 V 50 Hz 4P 8.41/4.46 A | Moment | of inertia (J) | : 0.3092 sq.ft.l | <u> </u> |
| LRC | | 7.1 | Duty cycle | e ineriia (5) | : Cont.(S1) | D |
| Rated torque | | 10.8 ft.lb | Insulation | class | : F | |
| Locked rotor tord Breakdown torqu | | 170 % 280 % | Service fa Temperati | | : 1.15 : 80 K | |
| Rated speed | | 1465 rpm | Design | ure rise | : B | |
| Heating constan | t | | | | | |
| Cooling constant | | | | | | |
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Three Phase Induction Motor - Squirrel Cage



Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

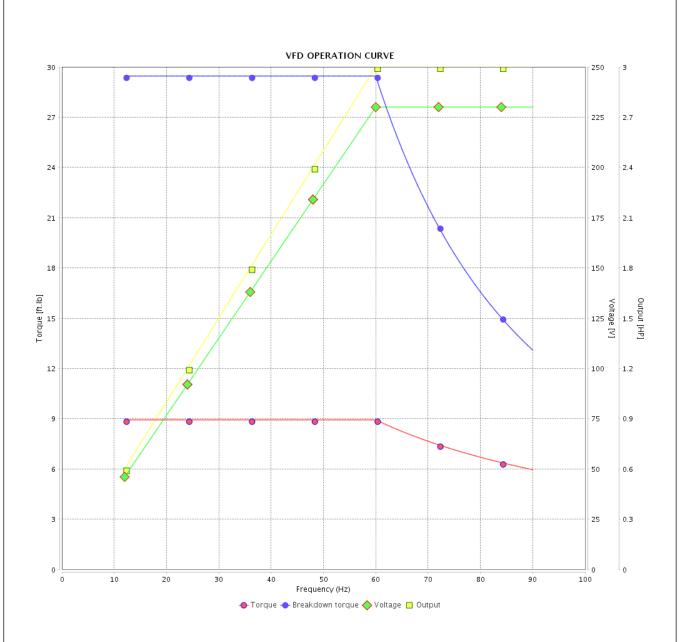
Product code: 12687789

Catalog #: 00318OT3E182JM-SG

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Revision



| Performance | : 230/460 V 60 Hz 4P | : 230/460 V 60 Hz 4P | | | | | | |
|------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------|---------------|--------------------------------------------------------------------|------|--|--|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | | Moment of Duty cycle Insulation Service fa Temperat Design | class ctor | : 0.3092 sq.ft.ll : Cont.(S1) : F : 1.15 : 80 K : B | b | | | |
| Rev. | Changes Summary | | Performed | Checked | Date | | | |
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

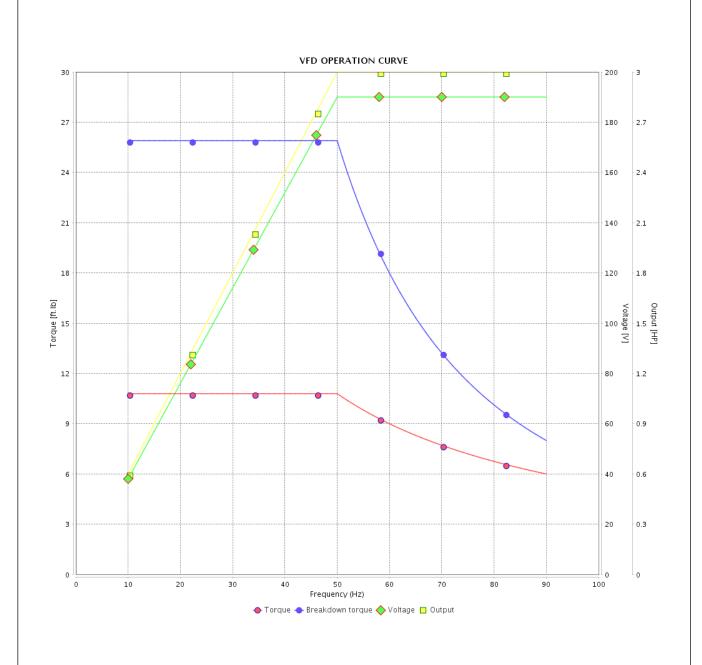
Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687789

Catalog #: 00318OT3E182JM-SG

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| Performance | : 190/380 V 50 Hz 4P | | | | | |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------|---------------|------------------------------------------------------------------|----------|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 9.08/4.54 A : 6.4 : 10.8 ft.lb : 150 % : 240 % : 1460 rpm | Moment of Duty cycle Insulation Service fa Temperatu Design | class ctor | : 0.3092 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B | lb | |
| Rev. | Changes Summary | | Performed | Checked | Date | |
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Date

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

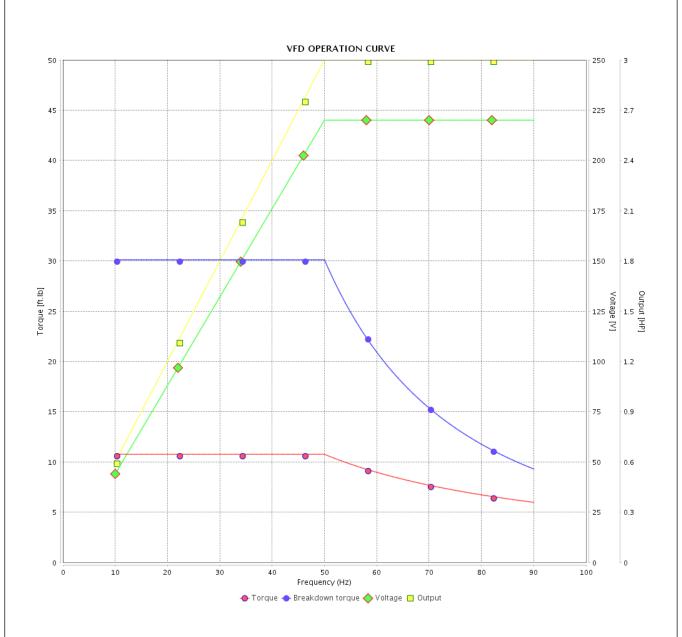
13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

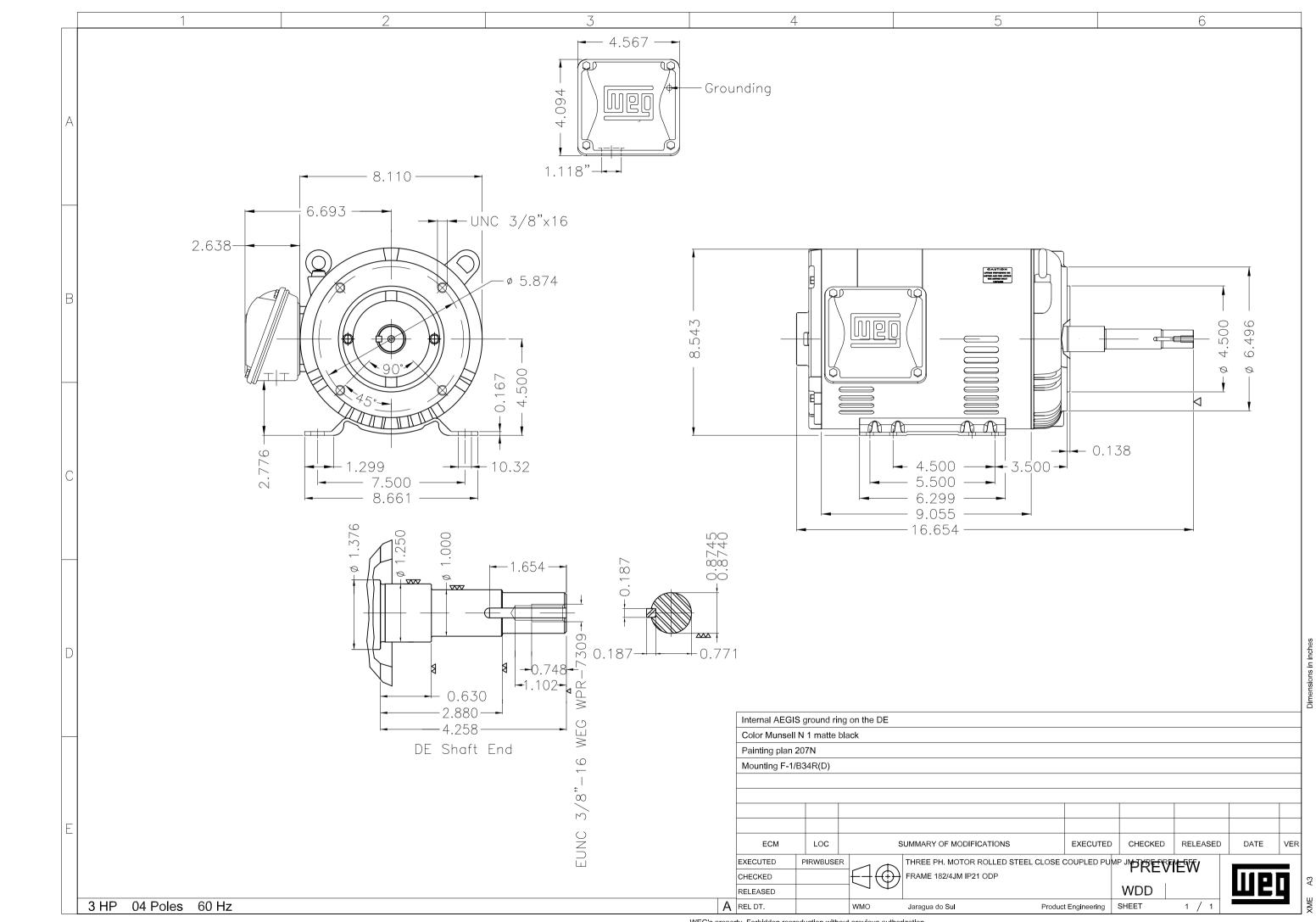
Product code: 12687789

Catalog #: 00318OT3E182JM-SG



Performance : 220/415 V 50 Hz 4P Rated current : 8.41/4.46 A Moment of inertia (J) : 0.3092 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 10.8 ft.lb Insulation class Rated torque : F : 170 % Locked rotor torque Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Energy Verifi

MODEL 003180T3E182JM-SG S/N N01.TODICOXON 33JAN2022

CC029A

12687789

MADE IN MÉXICO

Hz 60 182/4.IM

DES 1000 m.a.s.l F AT 80K 2°04 900

NS CI

3FA 쑮

7.72/3.86

230/460 3.88/4 1.15

CONT

CODE SABLE @ 208V 8.54A

NOM EFF ZPM 쌆 3.0HP

89.5%

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 5:1 CT 1460RPM 50 Hz

9.08-8.17/4.54-4.33A

LTERNATE RATING:

SF1.00 INC. 2

IEC 60034-1

SF1.15

190-220/380-415V

EFF 88.7%

MOBIL POLYREX EM

ODE 6205-22

8207-ZZ

삠

JT6

T2-WHT T4-YEL

r3-org T5-BLK 1-BLU

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



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

