### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Pro

Efficiency Three-Phase

Product code: 12687788

Catalog #: 02018OT3E256JM-SG

Frame : 254/6JM Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1
Duty cycle : Cont.(S1) Rotation¹ : Both (

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 227 lb

Design : B | Moment of inertia (J) : 2.23 sq.ft.lb

|                          |        |                      | , ,                | •                  |  |
|--------------------------|--------|----------------------|--------------------|--------------------|--|
| Output [HP]              |        | 20                   | 20                 | 20                 |  |
| Poles                    |        | 4                    | 4                  | 4                  |  |
| Frequency [Hz]           |        | 60                   | 50                 | 50                 |  |
| Rated voltage [V]        |        | 230/460              | 190/380            | 220/415            |  |
| Rated current [A]        |        | 50.0/25.0            | 59.8/29.9          | 54.0/28.6          |  |
| L. R. Amperes [A]        |        | 315/158              | 311/155            | 313/166            |  |
| LRC [A]                  |        | 6.3x(Code G)         | 5.2x(Code F)       | 5.8x(Code G)       |  |
| No load current [A       | .]     | 22.9/11.4            | 22.4/11.2          | 23.6/12.5          |  |
| Rated speed [RPI         | Л]     | 1770                 | 1460               | 1465               |  |
| Slip [%]                 |        | 1.67                 | 2.67               | 2.33               |  |
| Rated torque [ft.lb      |        | 59.3                 | 71.9               | 71.7               |  |
| Locked rotor torqu       | ie [%] | 240                  | 180                | 200                |  |
| Breakdown torque         | : [%]  | 290                  | 220                | 250                |  |
| 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 <sup>2</sup> |        | 64.0 dB(A)           | 62.0 dB(A)         | 62.0 dB(A)         |  |
|                          | 25%    | 91.7                 | 93.0               | 92.2               |  |
| Efficiency (%)           | 50%    | 92.4                 | 91.8               | 91.4               |  |
| Elliciency (70)          | 75%    | 92.4                 | 91.2               | 91.3               |  |
|                          | 100%   | 93.0                 | 89.7               | 90.2               |  |
|                          | 25%    | 0.38                 | 0.46               | 0.41               |  |
| Power Factor             | 50%    | 0.63                 | 0.72               | 0.68               |  |
| 1 GWC1 1 actor           | 75%    | 0.74                 | 0.82               | 0.79               |  |

<u>Drive end</u> <u>Non drive end</u> Foundation loads

0.81

Bearing type : 6309 Z C3 6208 Z C3 Max. traction : 746 lb Sealing : Without Without Max. compression : 973 lb

Bearing Seal Bearing Seal

Lubrication interval:20000 h20000 hLubricant amount:13 g8 gLubricant type:Mobil Polyrex EM

Notes

USABLE @208V 55.3A SF 1.00 SFA 55.3A

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.

0.84

0.85

| (1)710 10070 0110 | in load.   |                 |           |         |          |
|-------------------|------------|-----------------|-----------|---------|----------|
| Rev.              |            | Changes Summary | Performed | Checked | Date     |
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| Date              | 14/04/2022 |                 |           | 1 / 16  |          |

### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



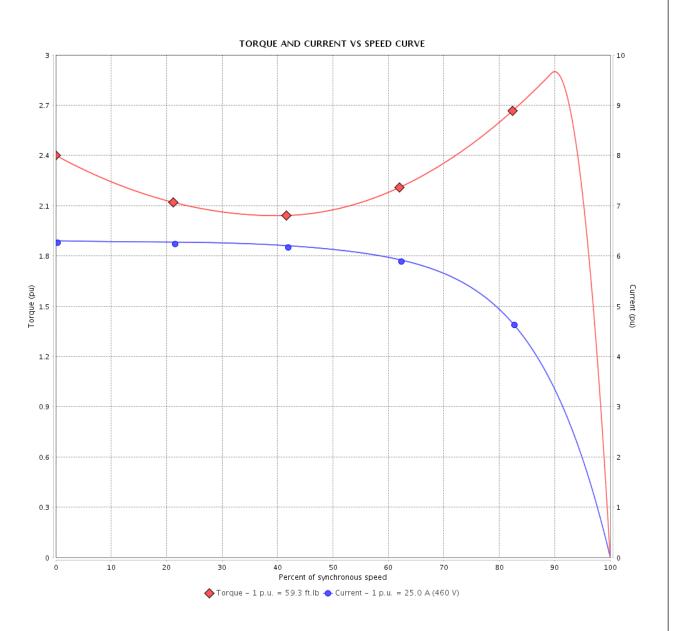
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687788

Catalog #: 02018OT3E256JM-SG



Performance : 230/460 V 60 Hz 4P Rated current : 50.0/25.0 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 : 1.15 Locked rotor torque : 240 % 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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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



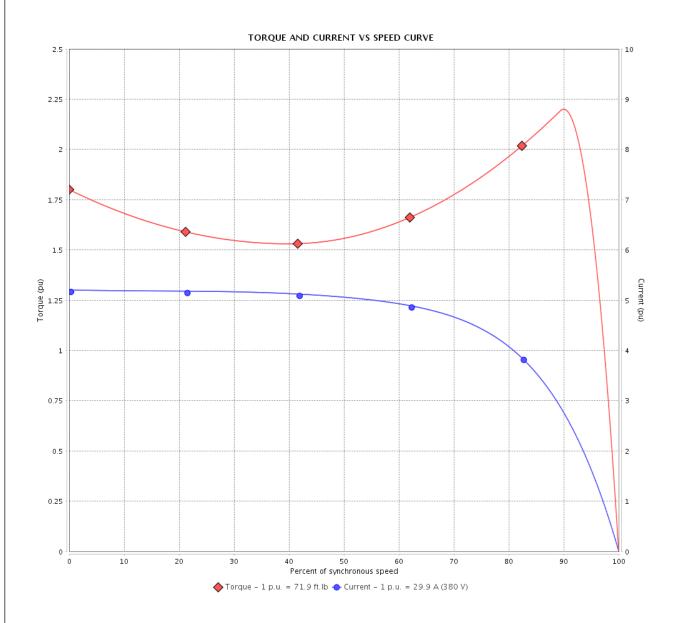
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687788

Catalog #: 02018OT3E256JM-SG



Performance : 190/380 V 50 Hz 4P Rated current : 59.8/29.9 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) : 71.9 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 220 % 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



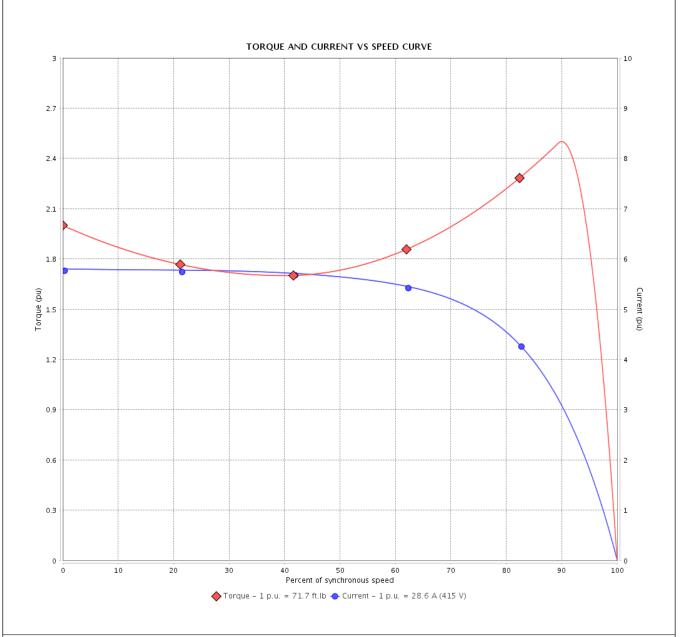
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687788

Catalog #: 02018OT3E256JM-SG



| Performance   | : 220/415 V 50 Hz 4P   |   |   |
|---|--|---|---|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque | : 54.0/28.6 A<br>: 5.8<br>: 71.7 ft.lb<br>: 200 %<br>: 250 % | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise | : 2.23 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K |
| Rated speed   | : 1465 rpm   | Design  | : B   |
| Lastradurata etimos   | . 0- (1-1) 0- (14)   |   |   |

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

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



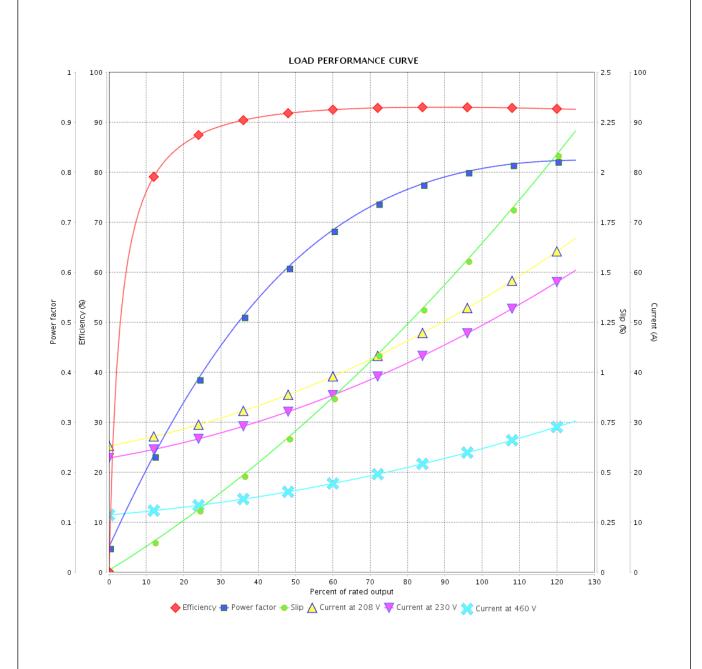
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687788

Catalog #: 02018OT3E256JM-SG



| Performance        | :          | 230/460 V 60 Hz 4P |            |                  |                 |          |
|--------------------|------------|--------------------|------------|------------------|-----------------|----------|
| Rated current      | :          | 50.0/25.0 A        | Moment o   | f inertia (J)    | : 2.23 sq.ft.lb |          |
| LRC                | :          | 6.3                | Duty cycle | <b>;</b>         | : Cont.(S1)     |          |
| Rated torque       | :          | 59.3 ft.lb         | Insulation | class            | : F             |          |
| Locked rotor torqu | ie :       | 240 %              | Service fa | ctor             | : 1.15          |          |
| Breakdown torque   |            | 290 %              | Temperati  | Temperature rise |                 |          |
| Rated speed        | :          | 1770 rpm           | Design     |                  | : B             |          |
| Rev.               |            | Changes Summary    | ,          | Performed        | Checked         | Date     |
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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

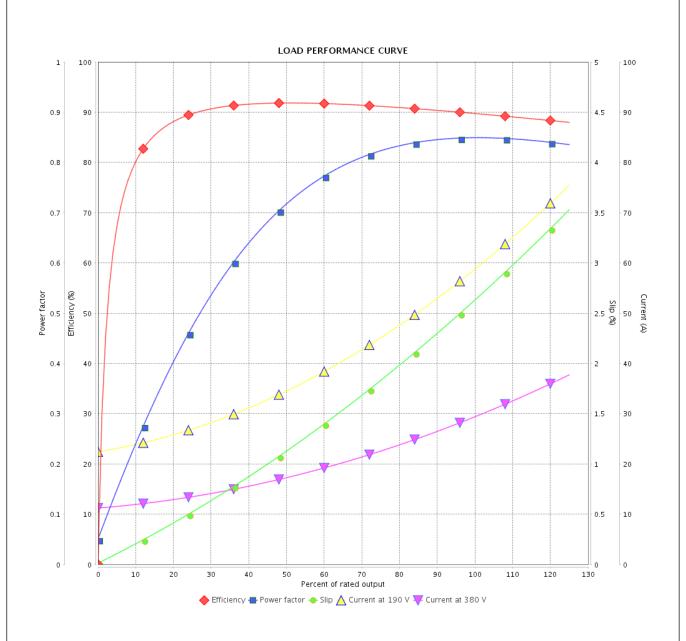
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687788

Catalog #: 02018OT3E256JM-SG



Performance : 190/380 V 50 Hz 4P Rated current : 59.8/29.9 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) : 71.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 220 % 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



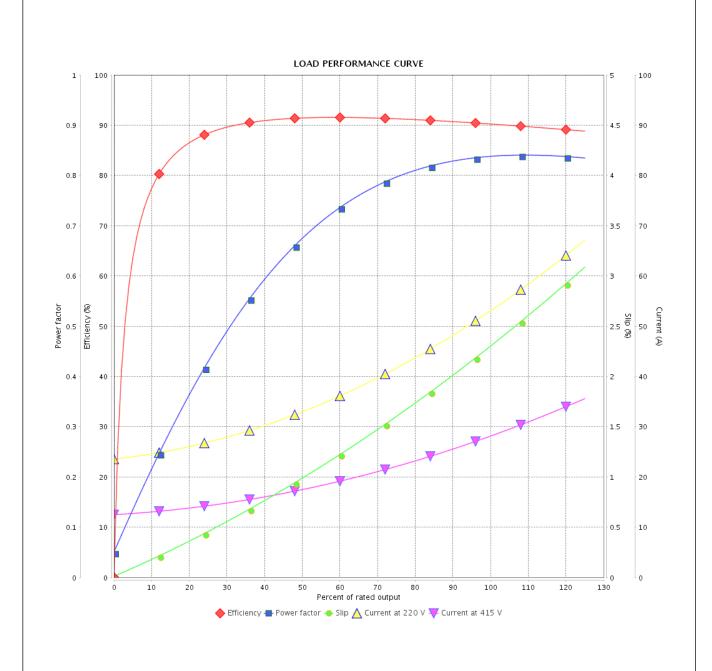
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687788

Catalog #: 02018OT3E256JM-SG



| Performance        | : 2        | 20/415 V 50 Hz 4P |                       |                  |                 |          |
|--------------------|------------|-------------------|-----------------------|------------------|-----------------|----------|
| Rated current      | : 5        | 4.0/28.6 A        | Moment of inertia (J) |                  | : 2.23 sq.ft.lb |          |
| LRC                | : 5        | .8                | Duty cycle            | )                | : Cont.(S1)     |          |
| Rated torque       | : 7        | 1.7 ft.lb         | Insulation            | class            | : F             |          |
| Locked rotor torqu | ie : 2     | 00 %              | Service fa            | ctor             | : 1.15          |          |
| Breakdown torque   |            | 50 %              | Temperati             | Temperature rise |                 |          |
| Rated speed        | : 1        | 465 rpm           | Design                |                  | : B             |          |
| Rev.               |            | Changes Summary   | <br>                  | Performed        | Checked         | Date     |
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### Three Phase Induction Motor - Squirrel Cage

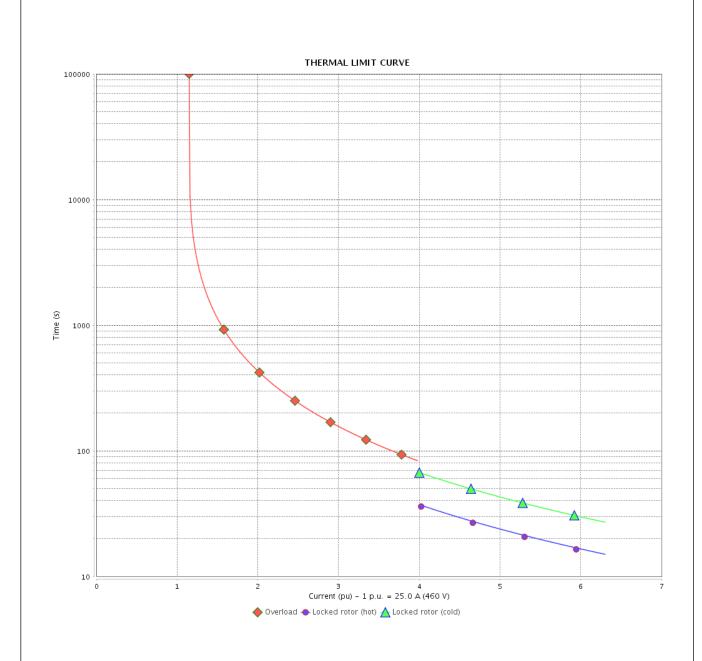


| Customer                             | :            |                        |                          |                |                                |          |
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| Product line                         | : .          | JM Pump NEMA Premium   | ı                        | Product code : | 12687788                       |          |
|                                      | Ef           | Efficiency Three-Phase |                          | Catalog # :    | 02018OT3E2                     | 56JM-SG  |
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|                                      |              |                        |                          |                |                                |          |
|                                      |              |                        |                          |                |                                |          |
| Performance                          |              | 30/460 V 60 Hz 4P      | Managart                 | Finantia (I)   | . 2 22 az # lb                 |          |
| Rated current<br>LRC                 | : 50<br>: 6. | 0.0/25.0 A<br>3        | Duty cycle               | f inertia (J)  | : 2.23 sq.ft.lb<br>: Cont.(S1) |          |
| Rated torque                         | : 59         | 9.3 ft.lb              | Insulation               | class          | : F                            |          |
| Locked rotor tord<br>Breakdown torqu |              | 40 %<br>90 %           | Service fac<br>Temperatu |                | : 1.15<br>: 80 K               |          |
| Rated speed                          |              | 770 rpm                | Design                   |                | : B                            |          |
| Heating constant                     | t            |                        |                          |                |                                |          |
| Cooling constant                     |              |                        |                          |                |                                |          |
| Rev.                                 |              | Changes Summary        |                          | Performed      | Checked                        | Date     |
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

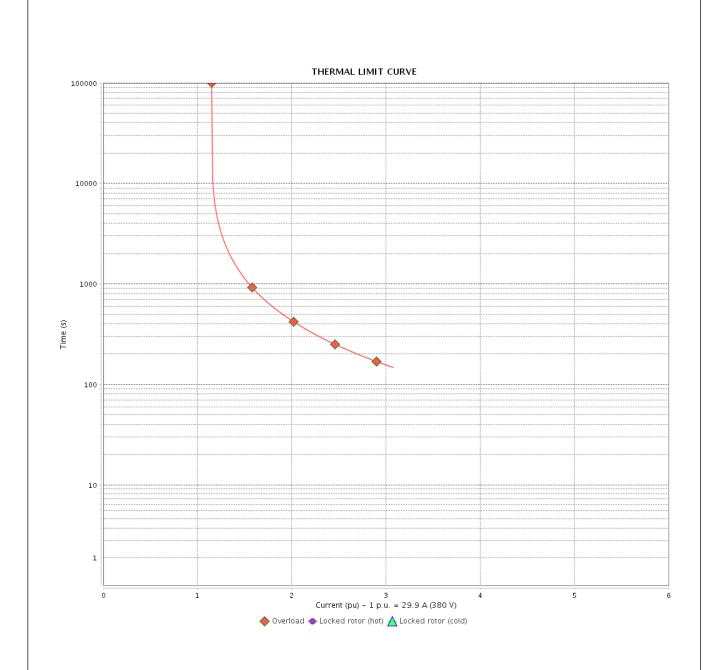


| Customer                             | :             |                                 |                          |                | ·                              |          |
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|                                      |               |                                 |                          |                |                                |          |
| Product line                         | : .           | JM Pump NEMA Premium            | 1                        | Product code : | 12687788                       |          |
|                                      | Ei            | fficiency Three-Phase           | (                        | Catalog # :    | 02018OT3E2                     | 56JM-SG  |
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|                                      |               |                                 |                          |                |                                |          |
| <b>5</b>                             |               | 20/2021/ 52/1 45                |                          |                |                                |          |
| Performance                          |               | 90/380 V 50 Hz 4P<br>9.8/29.9 A | Moment                   | finartia (I)   | : 2 22 og ft lb                |          |
| Rated current<br>LRC                 | : 5.          | 2                               | Duty cycle               | f inertia (J)  | : 2.23 sq.ft.lb<br>: Cont.(S1) |          |
| Rated torque                         |               | 1.9 ft.lb<br>30 %               | Insulation               | class          | : F<br>: 1.15                  |          |
| Locked rotor tord<br>Breakdown torqu |               | 30 %<br>20 %                    | Service far<br>Temperatu |                | : 1.15<br>: 80 K               |          |
| Rated speed                          |               | 160 rpm                         | Design                   |                | : B                            |          |
| Heating constant                     | t             |                                 |                          |                |                                |          |
| Cooling constant                     |               |                                 |                          |                |                                |          |
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

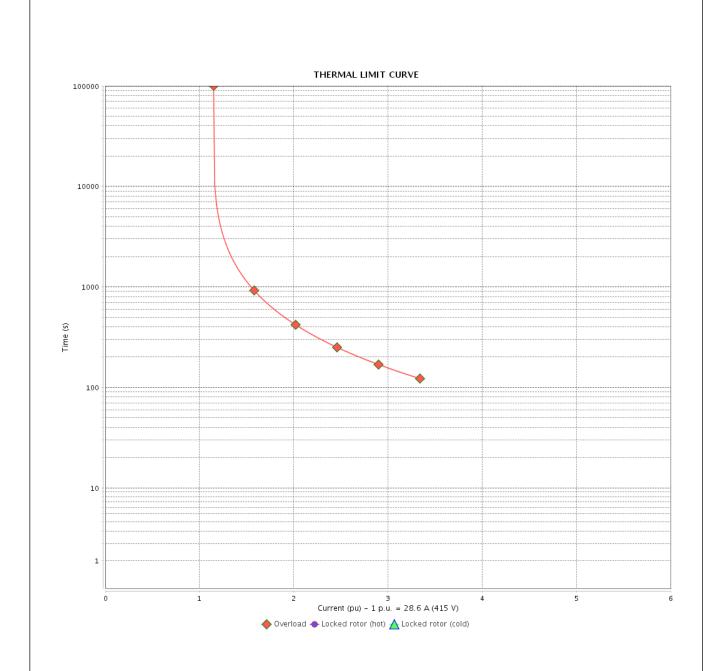


| Customer   |                  | :  |   |                | ·  |           |
|--|------------------|--|---|----------------|--|-----------|
| Product line   |                  | IM D NEMA D  |   | D              | 40007700   |           |
|  |                  | : JM Pump NEMA Premium<br>Efficiency Three-Phase               |   | Product code : | 12687788   |           |
|  |                  | Emoisting Three Thrace   |   | Catalog # :    | 02018OT3E2   | 56JM-SG   |
|  |                  |  |   |                |  |           |
| Dorformana   |                  | 220/445 V 50 Hz 4D   |   |                |  |           |
| Performance Rated current  |                  | 220/415 V 50 Hz 4P<br>54.0/28.6 A                              | Moment o  | f inertia ( I) | · 2 23 sa ft lh  |           |
| LRC<br>Rated torque<br>Locked rotor torq<br>Breakdown torqu<br>Rated speed | :<br>ue :<br>e : | 54.0/28.6 A<br>5.8<br>71.7 ft.lb<br>200 %<br>250 %<br>1465 rpm | Duty cycle Insulation Service fa Temperatu Design | class<br>ctor  | : 2.23 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K<br>: B |           |
| 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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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

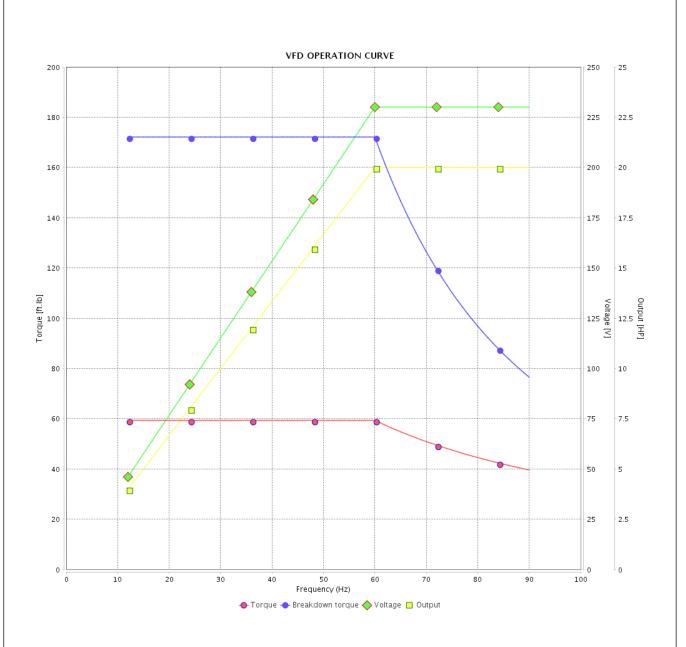
Product code: 12687788

Catalog #: 02018OT3E256JM-SG

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Revision



Performance : 230/460 V 60 Hz 4P : 50.0/25.0 A Rated current Moment of inertia (J) : 2.23 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class : 59.3 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

# VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer

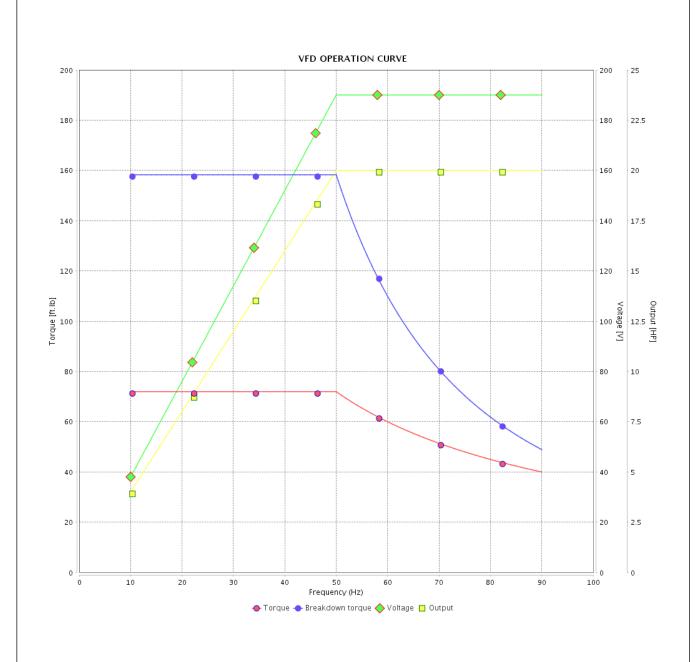
Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687788

Catalog #: 02018OT3E256JM-SG

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| Performance   | : 190/380       | ) V 50 Hz 4P |  |  |      |          |
|---|-----------------|--------------|--|--|------|----------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torqu<br>Breakdown torque<br>Rated speed |                 | 0            | Duty cycle<br>Insulation<br>Service fa | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design |      |          |
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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Revision

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Customer :

Checked by

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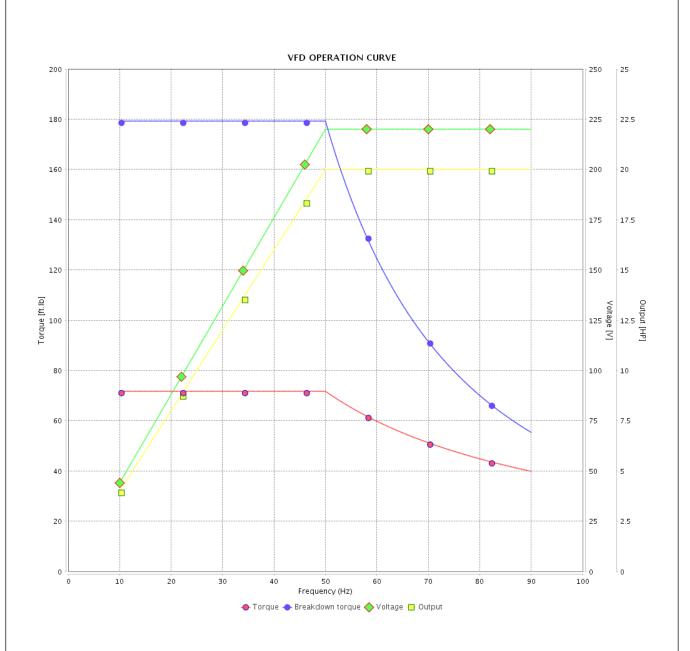
14/04/2022

Product line : JM Pump NEMA Premium

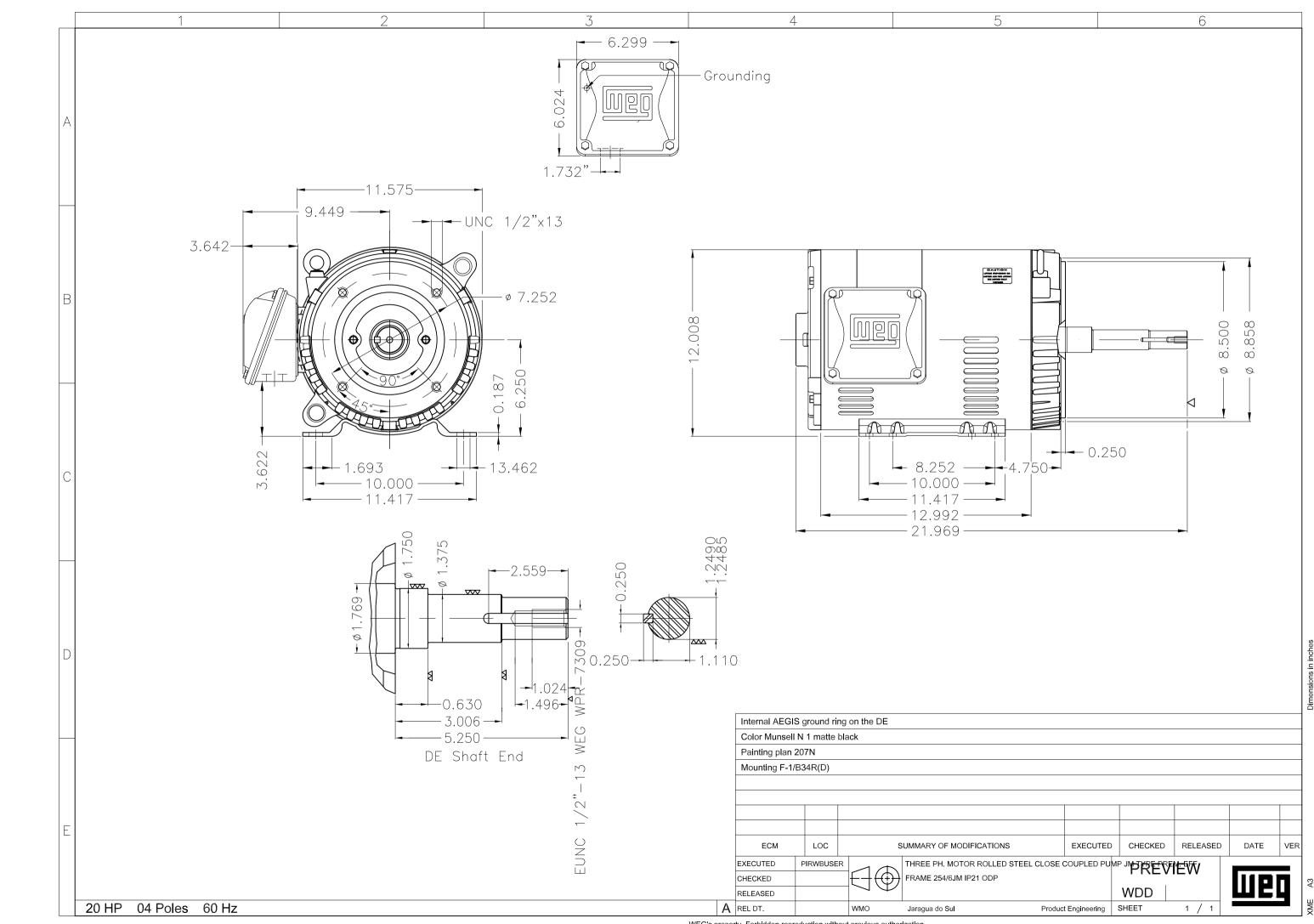
Efficiency Three-Phase

Product code: 12687788

Catalog #: 02018OT3E256JM-SG



Performance : 220/415 V 50 Hz 4P Rated current : 54.0/28.6 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class : 71.7 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by



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**8** Energy Verifi (**UL)**US LISTED 3PT9

> 9 S/N ¥ 254/6JM 27AUG2021

MODEL 020180T3E256JM-SG

N01.TODICOXON

CC029A

12687788

MADE IN MÉXICO

1000 m.a.s.l CONT

F AT 80K

50.0/25.0 57.5/28.7

1.15

230/460

U CODE DES SABLE @ 208V 55.3A

20°C 900

NSC

NOM EFF 1480RPM 50 Hz ODE 6208-Z-C3 20HP

59.8-53.0/29.9-28.1A

8309-Z-C3

牌

LTERNATE RATING:

SF1.00 NCL 2

93.0%

NEMA

ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT MOBIL POLYREX EM **EFF 89.7%** 

190-220/380-415V

IEC 60034-1 2000bh

E 1

SF1.15

T11 OT12

13-ORG F5-BLK L7-PNK

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MOT

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NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local





conformément aux codes électriques locaux et nationaux afin d'éviter tout shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre ind national electrical codes to prevent serious electrical

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