#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Product

Efficiency Three-Phase

Product code: 13199370

Catalog #: 02036ET3E256JM-SG

Frame : 254/6JM Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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> : 235 lb

: IP55 Moment of inertia (J) Protection degree : 1.22 sq.ft.lb Design : B Output [HP] 20 15 15 Poles 2 2 2 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 45.4/22.7 40.8/20.4 36.8/19.5 L. R. Amperes [A] 300/150 298/158 302/151 LRC [A] 8.1x(Code J) 6.6x(Code G) 7.4x(Code H) No load current [A] 13.8/6.88 13.6/6.79 13.7/7.26 Rated speed [RPM] 3515 2925 2935 Slip [%] 2.36 2.50 2.17 Rated torque [ft.lb] 29.9 26.9 26.8 Locked rotor torque [%] 200 210 240 Breakdown torque [%] 290 310 340 Service factor 1.15 1.00 1.00 Temperature rise 80 K 105 K 80 K Locked rotor time 21s (cold) 12s (hot) 0s (cold) 0s (hot) 0s (cold) 0s (hot) Noise level<sup>2</sup> 75.0 dB(A) 72.0 dB(A) 72.0 dB(A) 25% 89.7 91.9 91.8 50% 90.0 91.6 91.5 Efficiency (%) 75% 91.7 92.0 91.0 100% 91.2 91.0 91.4 25% 0.48 0.55 0.52 50% 0.79 0.75 0.81 Power Factor 75% 0.88 0.87 0.85

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

0.90

Bearing type : 6309 Z C3 6208 Z C3 Max. traction : 320 lb Sealing : V'Ring Without Max. compression : 555 lb

0.91

Bearing Seal

Lubrication interval : 15797 h 20000 h Lubricant amount : 13 g 8 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 50.2A SF 1.00 SFA 50.2A

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.

0.89

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

#### Three Phase Induction Motor - Squirrel Cage



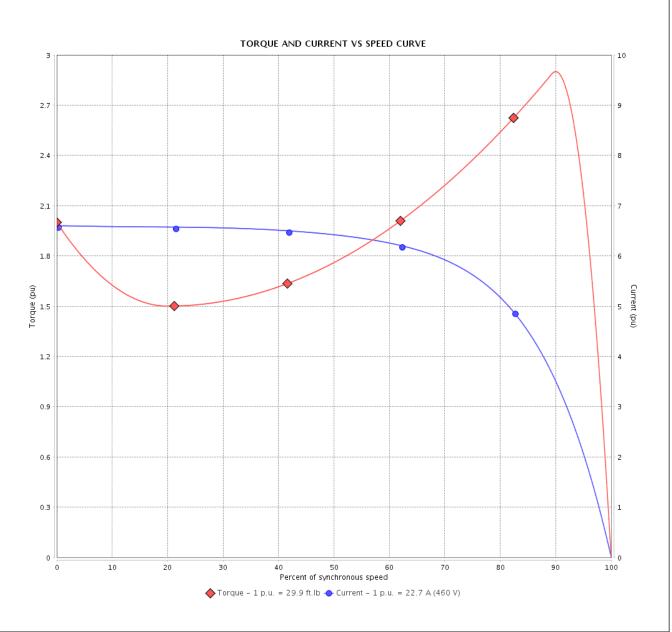
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13199370

Catalog #: 02036ET3E256JM-SG



Performance : 230/460 V 60 Hz 2P Rated current : 45.4/22.7 A Moment of inertia (J) : 1.22 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 29.9 ft.lb : F Service factor : 1.15 Locked rotor torque : 200 % Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B

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

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

#### Three Phase Induction Motor - Squirrel Cage

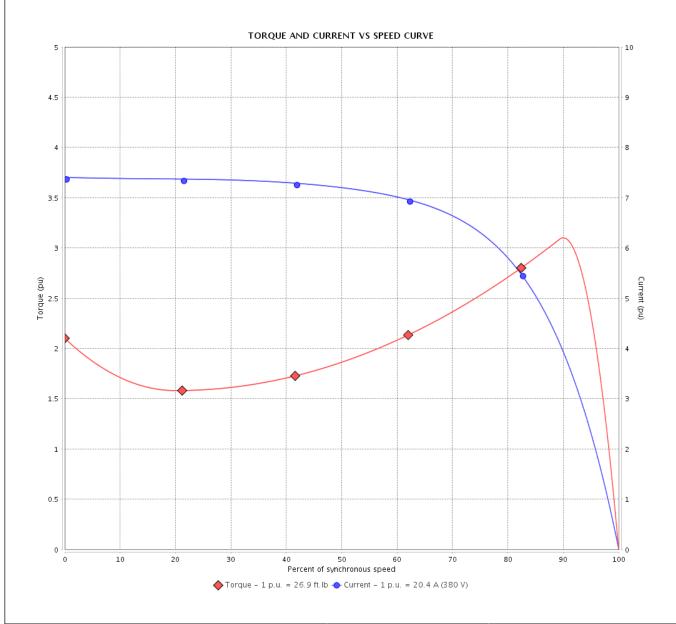


Customer :

Product line : JM Pump NEMA Premium Product code : 13199370

Efficiency Three-Phase

Catalog #: 02036ET3E256JM-SG



Performance : 190/380 V 50 Hz 2P Rated current : 40.8/20.4 A Moment of inertia (J) : 1.22 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 26.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 105 K Rated speed : 2925 rpm Design : B

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

|              |            | ` , ` ,         |           |         |          |
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#### TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



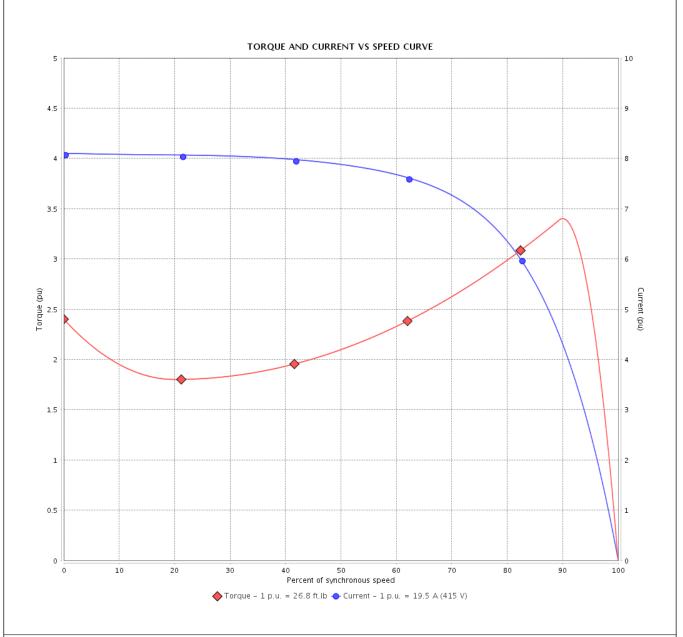
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13199370

Catalog #: 02036ET3E256JM-SG



| Performance                      | : 220/415 V 50 Hz 2P  |                             |                    |  |
|----------------------------------|-----------------------|-----------------------------|--------------------|--|
| Rated current                    | : 36.8/19.5 A         | Moment of inertia (J)       | : 1.22 sq.ft.lb    |  |
| LRC                              | : 8.1<br>: 26.8 ft.lb | Duty cycle Insulation class | : Cont.(S1)<br>: F |  |
| Rated torque Locked rotor torque | : 240 %               | Service factor              | . F<br>: 1.00      |  |
| Breakdown torque                 | : 340 %               | Temperature rise            | : 80 K             |  |
| Rated speed                      | : 2935 rpm            | Design                      | : B                |  |
|                                  |                       |                             |                    |  |

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

| Rev.         | Changes Summary |  | Performed | Checked | Date     |
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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



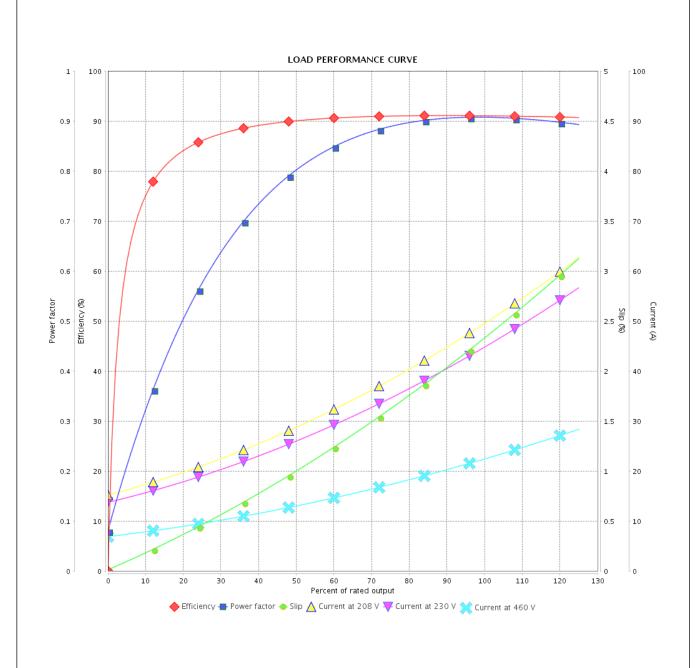
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13199370

Catalog #: 02036ET3E256JM-SG



| Performance : 230/460 V 60 Hz 2P |            |                        |            |               |                 |          |
|----------------------------------|------------|------------------------|------------|---------------|-----------------|----------|
| Rated current                    | :          | 45.4/22.7 A            | Moment o   | f inertia (J) | : 1.22 sq.ft.lb |          |
| LRC                              | :          | 6.6                    | Duty cycle | <b>;</b>      | : Cont.(S1)     |          |
| Rated torque                     | :          | 29.9 ft.lb             | Insulation | class         | : F             |          |
| Locked rotor torqu               | ie :       | 200 %                  | Service fa | ctor          | : 1.15          |          |
| Breakdown torque                 | :          | 290 % Temperature rise |            | ıre rise      | : 80 K          |          |
| Rated speed                      | : 3515 rpm |                        | Design     | Design        |                 |          |
| Rev.                             |            | Changes Summary        | /          | Performed     | Checked         | Date     |
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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Revision

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Customer :

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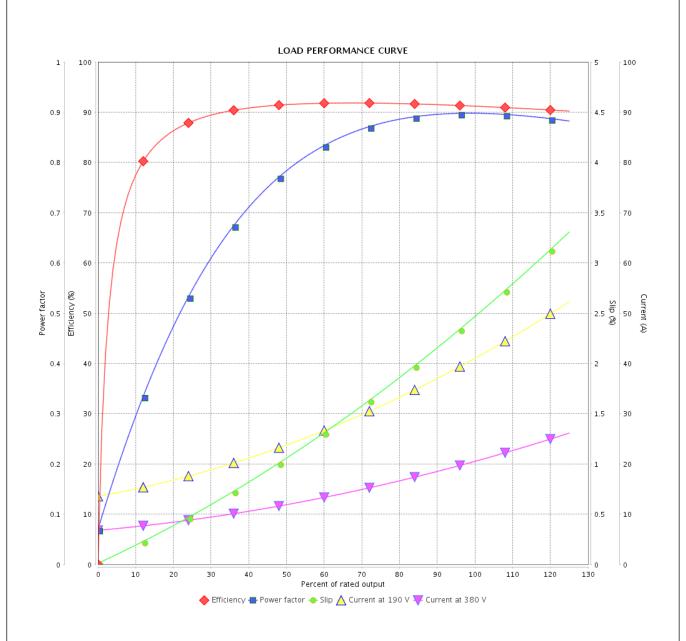
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13199370

Catalog #: 02036ET3E256JM-SG



Performance : 190/380 V 50 Hz 2P Rated current : 40.8/20.4 A Moment of inertia (J) : 1.22 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 26.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 105 K Rated speed : 2925 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



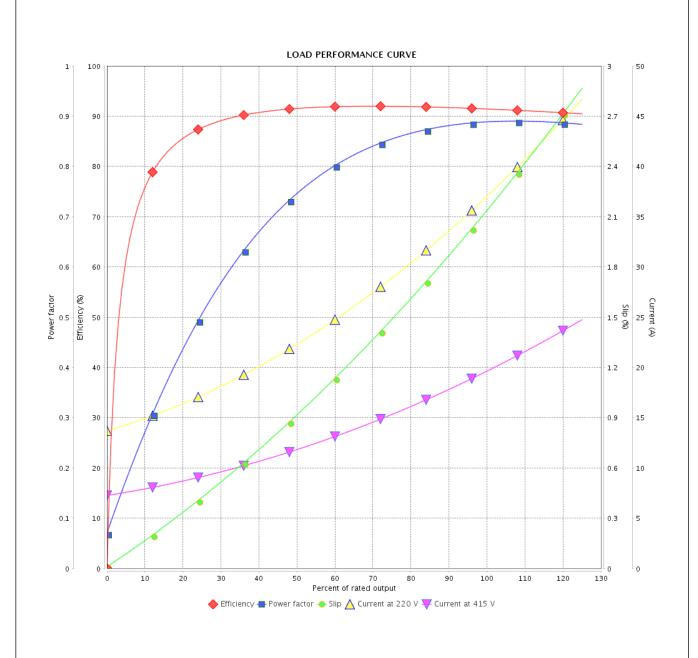
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13199370

Catalog #: 02036ET3E256JM-SG



| Performance  | : 220/415 V 50 Hz 2P   |       |           |                  |          |
|--|--|-------|-----------|------------------|----------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Rated speed | : 36.8/19.5 A<br>: 8.1<br>: 26.8 ft.lb<br>: 240 %<br>: 340 %<br>: 2935 rpm | • • • |           | : 1.00<br>: 80 K |          |
| Rev.   | Changes Summary  |       | Performed | Checked          | Date     |
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#### Three Phase Induction Motor - Squirrel Cage

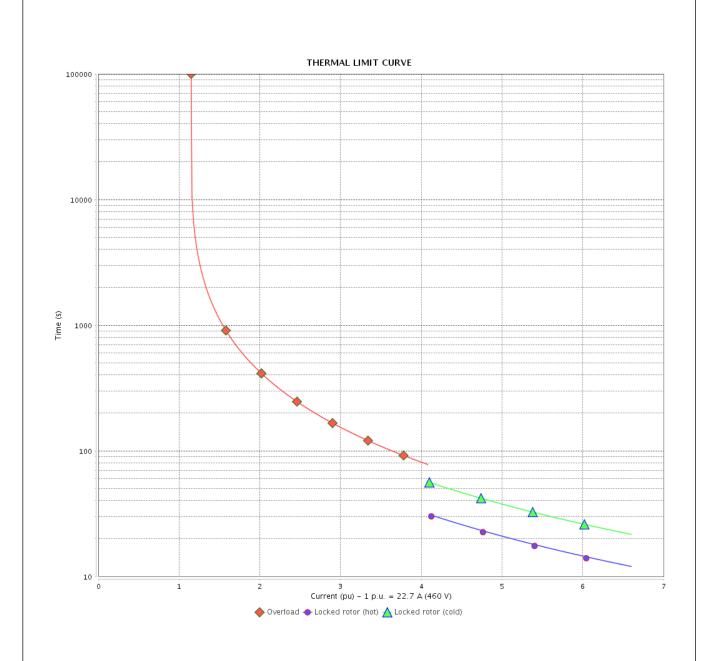


| Customer                                | :  |                                  |                                |          |
|---|--|----------------------------------|--------------------------------|----------|
| Product line                            | : JM Pump NEMA Premium<br>Efficiency Three-Phase | Product code : Catalog # :       | 13199370<br>02036ET3E2         | 256JM-SG |
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|   |  |                                  |                                |          |
| Performance                             | : 230/460 V 60 Hz 2P                             |                                  |                                |          |
| Rated current<br>LRC                    | : 45.4/22.7 A<br>: 6.6                           | Moment of inertia (J) Duty cycle | : 1.22 sq.ft.lb<br>: Cont.(S1) |          |
| Rated torque                            | : 29.9 ft.lb                                     | Insulation class                 | : F                            |          |
| Locked rotor torque<br>Breakdown torque | : 200 %<br>: 290 %                               | Service factor Temperature rise  | : 1.15<br>: 80 K               |          |
| Rated speed                             | : 3515 rpm                                       | Design                           | : B                            |          |
| Heating constant                        |  |                                  |                                |          |
| 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

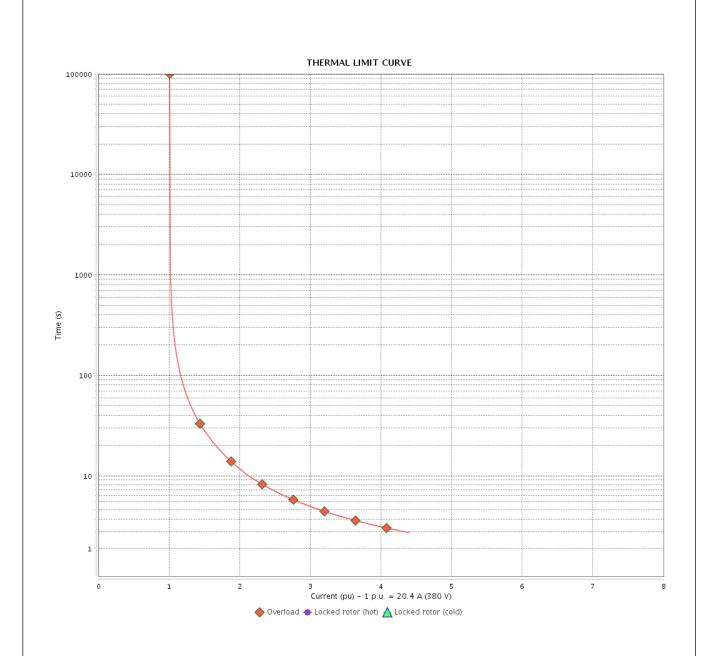


| Customer                             | :             |                        |                          |                |                    |          |
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| Product line                         | : .           | : JM Pump NEMA Premium |                          | Product code : | 13199370           |          |
|                                      | E             | fficiency Three-Phase  | (                        | Catalog # :    | 02036ET3E25        | 6JM-SG   |
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|                                      |               |                        |                          |                |                    |          |
| Performance                          | : 19          | 90/380 V 50 Hz 2P      |                          |                |                    |          |
| Rated current                        | : 40          | 0.8/20.4 A             | Moment of                | f inertia (J)  | : 1.22 sq.ft.lb    |          |
| LRC<br>Rated torque                  | : 7.<br>· 26  | 4<br>5.9 ft.lb         | Duty cycle<br>Insulation | class          | : Cont.(S1)<br>: F |          |
| Locked rotor tord                    | μe : 2′       | 10 %                   | Service fac              | ctor           | : 1.00             |          |
| Breakdown torqu<br>Rated speed       |               | 10 %<br>925 rpm        | Temperatu<br>Design      | ire rise       | : 105 K<br>: B     |          |
|                                      |               | 20 Ipili               | Design                   |                |                    |          |
| Heating constant<br>Cooling constant |               |                        |                          |                |                    |          |
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#### Three Phase Induction Motor - Squirrel Cage



Customer



| Rev.         |            | Changes Summary | Performed | Checked | Date     |
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#### Three Phase Induction Motor - Squirrel Cage

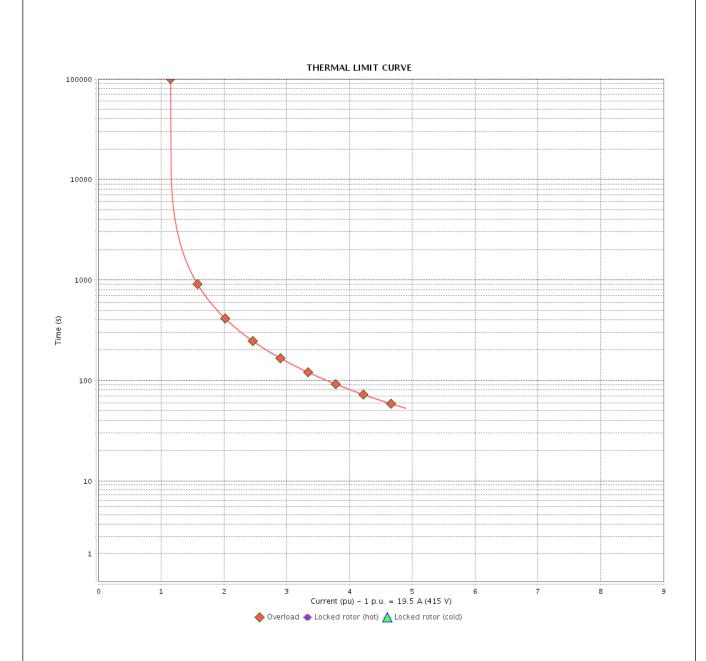


| Customer                             | :             |                       |                          |                |                                |          |
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| Product line                         | :.            | JM Pump NEMA Premium  | I                        | Product code : | 13199370                       |          |
|                                      |               | fficiency Three-Phase | (                        | Catalog # :    | 02036ET3E25                    | 6JM-SG   |
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|                                      |               |                       |                          |                |                                |          |
| Performance                          |               | 20/415 V 50 Hz 2P     |                          |                |                                |          |
| Rated current<br>LRC                 | : 36<br>: 8.  | 6.8/19.5 A<br>1       | Moment of<br>Duty cycle  | f inertia (J)  | : 1.22 sq.ft.lb<br>: Cont.(S1) |          |
| Rated torque                         | : 26          | 6.8 ft.lb             | Insulation               | class          | : F                            |          |
| Locked rotor tord<br>Breakdown torqu |               | 40 %<br>40 %          | Service far<br>Temperatu |                | : 1.00<br>: 80 K               |          |
| Rated speed                          |               | 935 rpm               | Design                   |                | : B                            |          |
| Heating constant                     |               |                       |                          |                |                                |          |
| Cooling constant                     |               |                       | r                        |                |                                |          |
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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 :

Date

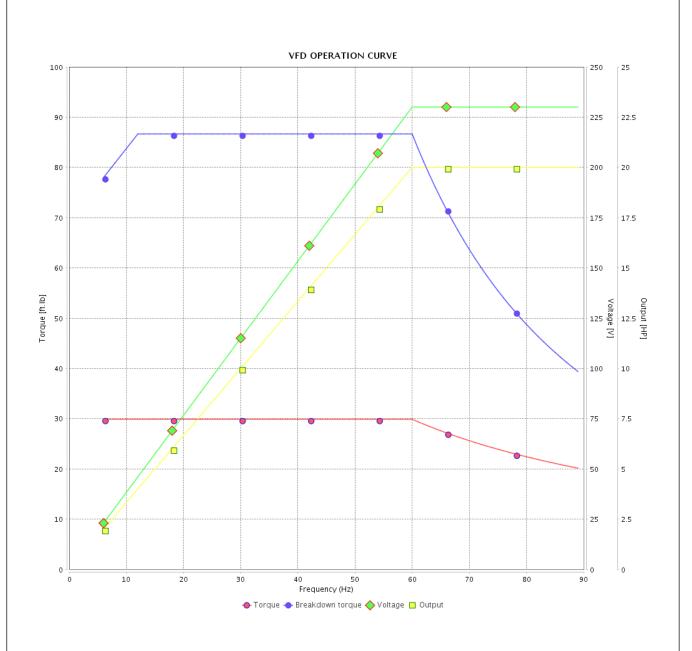
14/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13199370

Catalog #: 02036ET3E256JM-SG



Performance : 230/460 V 60 Hz 2P Rated current : 45.4/22.7 A Moment of inertia (J) : 1.22 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 29.9 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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# VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



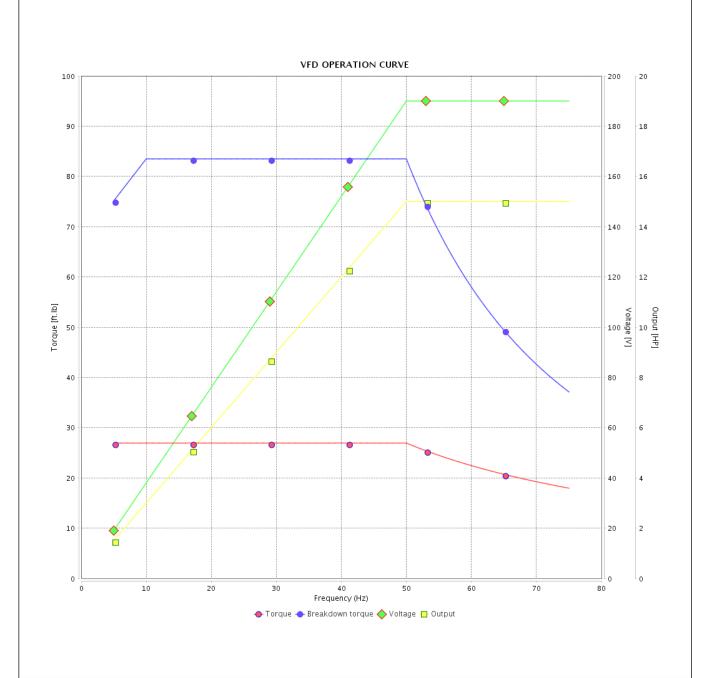
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13199370

Catalog #: 02036ET3E256JM-SG



| Performance :     |                 | : 190/380 V 50 Hz 2P |                       |                  |                 |             |  |  |
|-------------------|-----------------|----------------------|-----------------------|------------------|-----------------|-------------|--|--|
| Rated current     |                 | 0.8/20.4 A           | Moment of inertia (J) |                  | : 1.22 sq.ft.lb |             |  |  |
| LRC               |                 | .4                   | Duty cycle            | Duty cycle       |                 | : Cont.(S1) |  |  |
| Rated torque      | : 2             | 6.9 ft.lb            | Insulation class      |                  | : F             |             |  |  |
| Locked rotor torq | ue : 2          | 10 %                 | Service fa            | Service factor   |                 | : 1.00      |  |  |
| Breakdown torqu   | ie : 3          | 10 %                 | Temperati             | Temperature rise |                 | : 105 K     |  |  |
| Rated speed       | : 2             | 925 rpm              | Design                |                  | : B             |             |  |  |
| 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

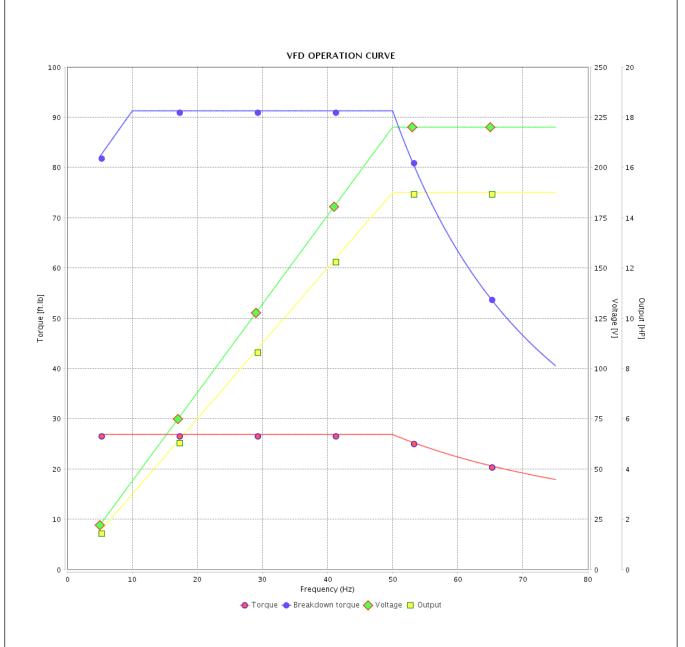
Product code: 13199370

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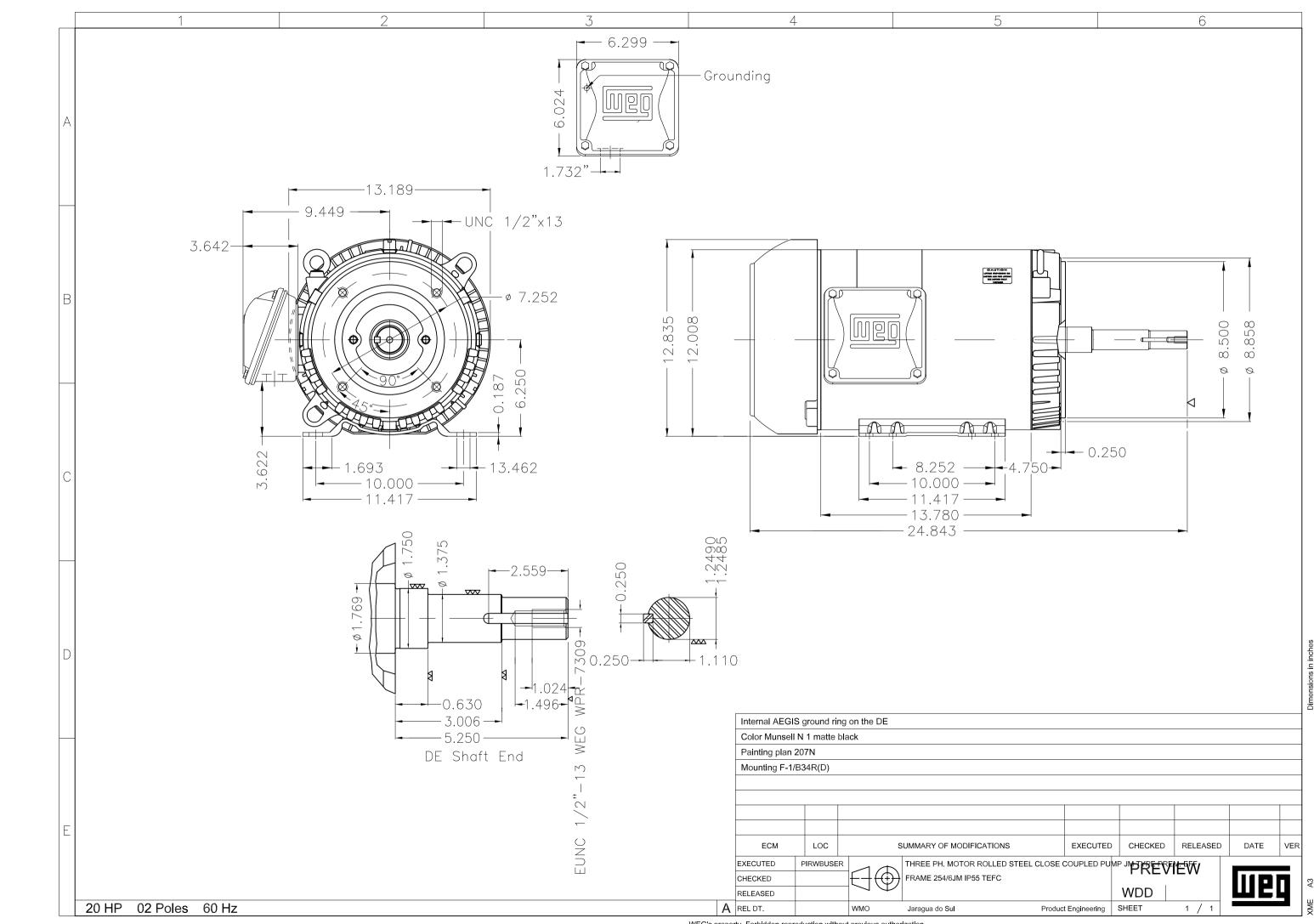
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Revision



| Performance   | :               | : 220/415 V 50 Hz 2  | P   |               |  |      |
|---|-----------------|--|---|---------------|--|------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor tord<br>Breakdown torqu<br>Rated speed | jue<br>ie       | : 36.8/19.5 A<br>: 8.1<br>: 26.8 ft.lb<br>: 240 %<br>: 340 %<br>: 2935 rpm | Moment of Duty cycle Insulation Service fa Temperate Design | class<br>ctor | : 1.22 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.00<br>: 80 K<br>: B |      |
| Rev.  | Changes Summary |  |   | Performed     | Checked  | Date |
|   |                 |  |   |               |  |      |
| Performed by  |                 |  |   |               |  |      |





¥EX V

3PT9

CC029A

13199370

MADE IN MÉXICO

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

MODEL 02036ET3E256JM-SG

0JAN2022

N01.TE0IC0X0N

9 S/N

걒

254/6JM

CONT

230/460

15.4/22.7

1000 m.a.s.l

F AT 80K

S

1.15 16.0

IEC 60034-1 SF1.00

190-220/380-415V

91.0%

NOM EFF 2925RPM

50 Hz

15HP

10.8-35.8/20.4-19.0A

SPM 3FA 냃 쌆

U P55 CODE SH

SABLE @ 208V 50.2A LTERNATE RATING:

SF1.00 INC. 2

TEFC 20°C

**EFF 91.2%** 

MOBIL POLYREX EM

ODE 6208-Z-C3

6309-Z-C3

牌

T11 OT12

T2-WHT

T4-YEL T6-GRY T8-RED

F11-GRN T12-VLT

нон

MOT

T9-BRK RED T10-CURRY 71-BLU 13-ORG F5-BLK L7-PNK

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 777

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

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

# 15797h Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT