### **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



| Customer   |     | :  |              |  |   |   |  |
|--|-----|--|--------------|--|---|---|--|
| Product line   |     | : JM Pump NEMA Premium<br>Efficiency Three-Phase   |              |  | Product code : Catalog # :  | 14218467<br>01018ET3H215JM-SG   |  |
| Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design |     | : 213/5JM<br>: 10 HP (7.5 kW)<br>: 4<br>: 60 Hz<br>: 575 V<br>: 9.76 A<br>: 68.3 A<br>: 7.0x(Code H)<br>: 4.43 A<br>: 1760 rpm<br>: 2.22 %<br>: 29.8 ft.lb<br>: 250 %<br>: 300 %<br>: F<br>: 1.15<br>: 1.07 sq.ft.lb |              | /)                                       | Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³ | : 27s (cold) 15s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 60.0 dB(A) : Direct On Line : 142 lb |  |
| Output   | 25% | 50%  | 75%          | 100%                                     | Foundation loads  |   |  |
| Efficiency (%) 90.2<br>Power Factor 0.41   |     | 91.0<br>0.67   | 91.0<br>0.78 | 91.7<br>0.84                             | Max. traction Max. compression  | : 434 lb<br>: 576 lb  |  |
| Bearing type Sealing Lubrication interval Lubricant amount Lubricant type  |     | :<br>:<br>:<br>:   | 62           | e end<br>109 ZZ<br>'Ring<br>-<br>-<br>Mo | Non drive end 6206 ZZ Without Bearing Seal obil Polyrex EM  |   |  |
| NI-1   |     |  |              |  |   |   |  |

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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| Date         | 12/04/2022 |                 |           | 1/6     |          |

### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



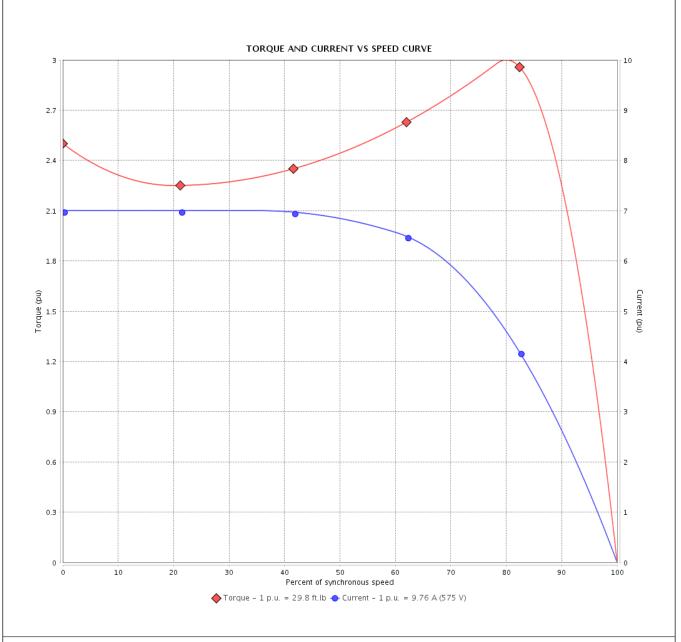
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14218467

Catalog #: 01018ET3H215JM-SG



Performance : 575 V 60 Hz 4P Rated current : 9.76 A Moment of inertia (J) : 1.07 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 29.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.15 Breakdown torque : 300 % Temperature rise : 80 K

Rated speed : 1760 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



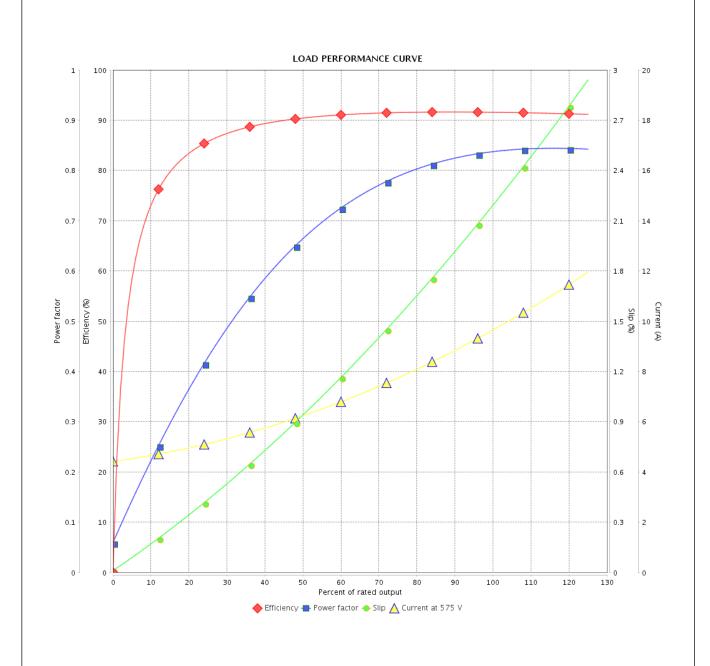
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14218467

Catalog #: 01018ET3H215JM-SG



| Performance         |            | : 575 V 60 Hz 4P                     |                |               |                 |          |  |  |
|---------------------|------------|--------------------------------------|----------------|---------------|-----------------|----------|--|--|
| Rated current       |            | .76 A Moment of inertia (J)          |                | f inertia (J) | : 1.07 sq.ft.lb |          |  |  |
|                     |            | 7.0 Duty cycle 29.8 ft.lb Insulation |                | )             | : Cont.(S1)     |          |  |  |
|                     |            |                                      |                | class         | : F             |          |  |  |
| Locked rotor torque |            | 250 %                                | Service factor |               | : 1.15          |          |  |  |
| Breakdown torque    | : 3        | : 300 % Temperature rise Design      |                | ıre rise      | : 80 K          |          |  |  |
| Rated speed         | : 1        |                                      |                |               | : B             |          |  |  |
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



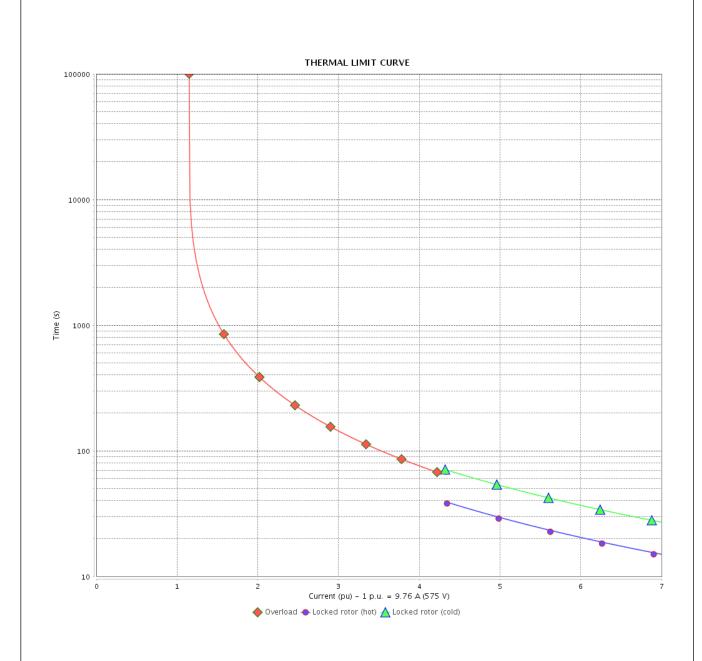
| Customer                             | :            |                        |                          |                |                                |          |
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| Product line                         | : •          | : JM Pump NEMA Premium |                          | Product code : | 14218467                       |          |
|                                      | Eí           | fficiency Three-Phase  | (                        | Catalog # :    | 01018ET3H2 <sup>-</sup>        | 15JM-SG  |
|                                      |              |                        |                          |                | 01010210112                    |          |
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|                                      |              |                        |                          |                |                                |          |
| Performance                          |              | 75 V 60 Hz 4P          | Managart                 | Finantia (I)   | . 1 07 on fills                |          |
| Rated current<br>LRC                 | : 9.<br>: 7. | 76 A<br>0              | Duty cycle               | f inertia (J)  | : 1.07 sq.ft.lb<br>: Cont.(S1) |          |
| Rated torque                         | : 29         | 9.8 ft.lb              | Insulation               | class          | : F                            |          |
| Locked rotor tord<br>Breakdown torqu |              | 50 %<br>00 %           | Service fac<br>Temperatu |                | : 1.15<br>: 80 K               |          |
| Rated speed                          |              | 760 rpm                | Design                   |                | : B                            |          |
| Heating constant                     | <u> </u>     |                        |                          |                |                                |          |
| Cooling constant                     | <u> </u>     |                        |                          |                |                                |          |
| 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     |
|--------------|------------|-----------------|-----------|---------|----------|
|              |            |                 |           |         |          |
| Performed by |            |                 |           |         |          |
| Checked by   |            |                 |           | Page    | Revision |
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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Revision

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Customer :

Checked by

Date

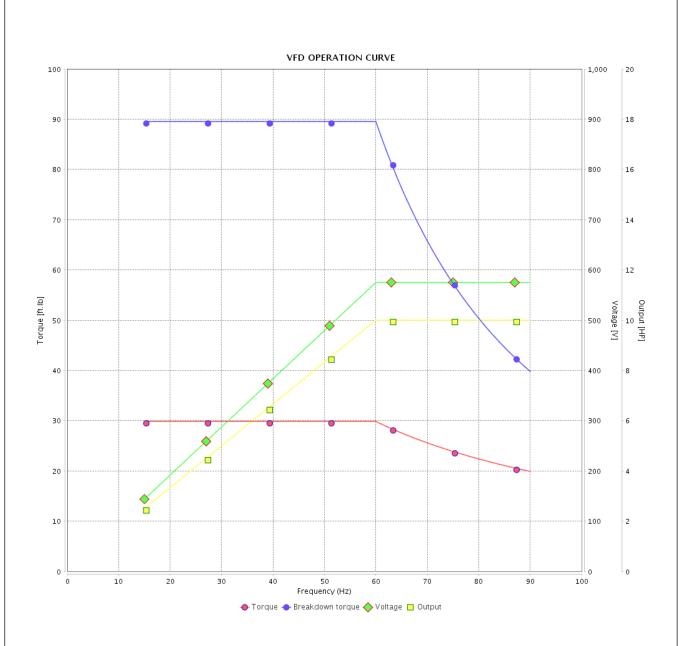
12/04/2022

Product line : JM Pump NEMA Premium

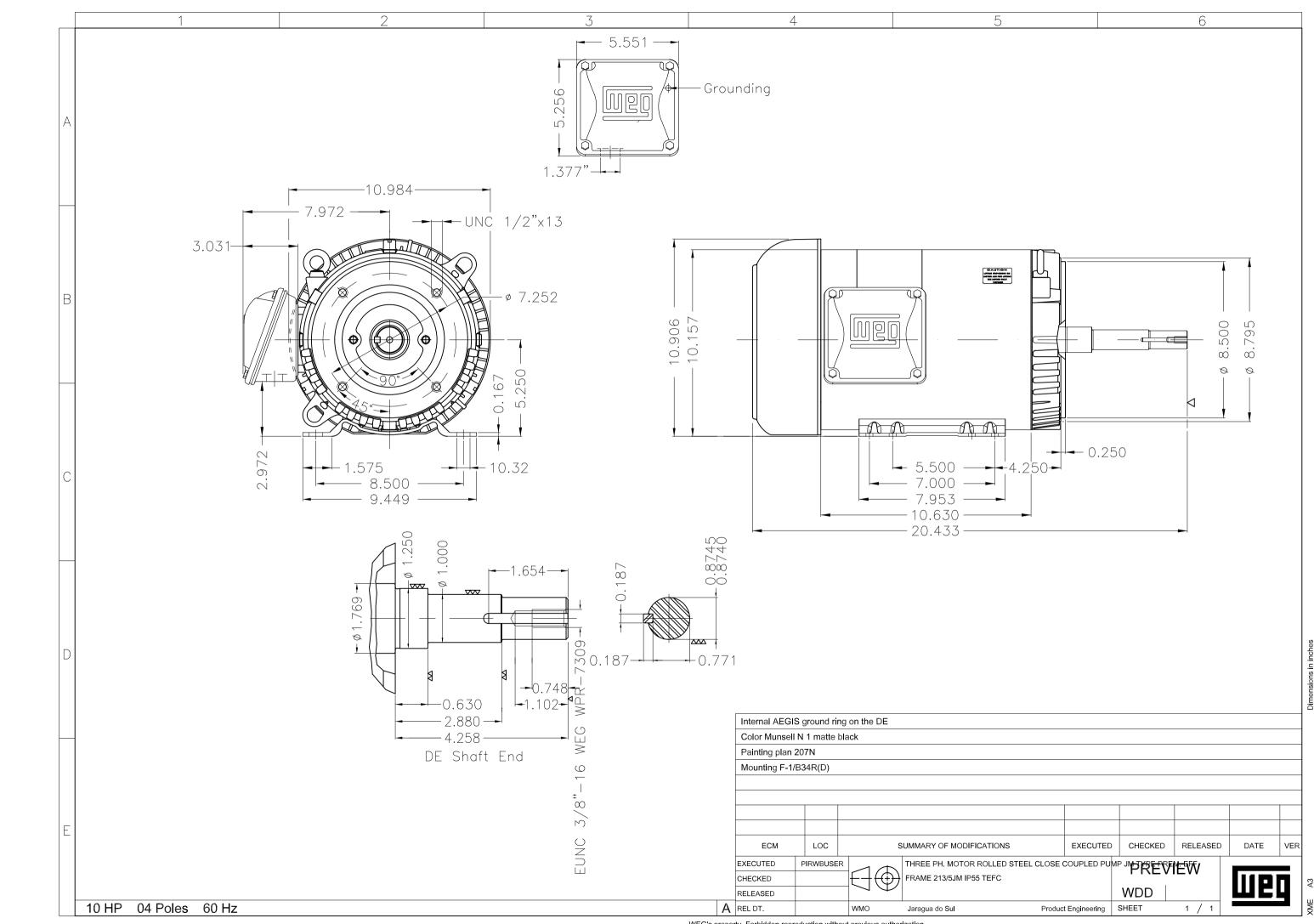
Efficiency Three-Phase

Product code: 14218467

Catalog #: 01018ET3H215JM-SG



Performance : 575 V 60 Hz 4P Rated current : 9.76 A Moment of inertia (J) : 1.07 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 29.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by





<u>₹</u> CC029A 14218467 MADE IN MÉXICO

(**VL)**US LISTED

**&** Energy Verifi

3PT9

N01.TE0IC0X0N

JM010504NPW01GR S/N 25FEB2022

Hz 60 213/5JM

CONT

1000 m.a.s.l

9.76 1.15 575

> P55 CODE SH

> > TEFC <del>6</del>

F AT 80K

NSC INC. WB

NOM EFF 91.7%

NEMA ZPM 3FA 냃 监

Inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT ZZ-9029 300

8209-ZZ

牌

MOBIL POLYREX EM

T2-WHT r3-ORG

T1-BLU

T4-YEL 15-BLK F6-GRY

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION





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

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