### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Product code : 13405270

Efficiency Three-Phase

Catalog #: 00158OT3E145JMV-S

Frame : 143/5JM Cooling method : IC01 - ODP

Insulation class : F Mounting : W-6
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> : 43.3 lb

Design : B Moment of inertia (J) : 0.1426 sq.ft.lb

| 200ig.1                  |             | . 5                  | moment of mortia (o) | . 0.1 120 oq.16.15 |
|--------------------------|-------------|----------------------|----------------------|--------------------|
| Output [HP]              |             | 1.5                  | 1.5                  | 1.5                |
| Poles                    |             | 4                    | 4                    | 4                  |
| Frequency [Hz]           |             | 60                   | 50                   | 50                 |
| Rated voltage [V]        |             | 230/460              | 190/380              | 220/415            |
| Rated current [A]        |             | 4.14/2.07            | 4.84/2.42            | 4.41/2.34          |
| L. R. Amperes [A]        |             | 36.0/18.0            | 31.0/15.5            | 30.9/16.4          |
| LRC [A]                  |             | 8.7x(Code L)         | 6.4x(Code H)         | 7.0x(Code J)       |
| No load current [A       | ]           | 2.40/1.20            | 2.36/1.18            | 2.41/1.28          |
| Rated speed [RPI         | <b>/</b> [] | 1760                 | 1440                 | 1445               |
| Slip [%]                 |             | 2.22                 | 4.00                 | 3.67               |
| Rated torque [ft.lb]     |             | 4.48                 | 5.47                 | 5.45               |
| Locked rotor torque [%]  |             | 280                  | 190                  | 220                |
| Breakdown torque         | [%]         | 330                  | 250                  | 280                |
| Service factor           |             |                      | 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> |             | 52.0 dB(A)           | 49.0 dB(A)           | 49.0 dB(A)         |
|                          | 25%         | 83.6                 | 85.3                 | 84.0               |
| Efficiency (%)           | 50%         | 84.0                 | 84.3                 | 83.6               |
| Efficiency (70)          | 75%         | 86.5                 | 84.7                 | 84.8               |
|                          | 100%        | 86.5                 | 83.2                 | 83.9               |
|                          | 25%         | 0.32                 | 0.38                 | 0.35               |
| Power Factor             | 50%         | 0.56                 | 0.64                 | 0.60               |
| I OWEI FACIOI            | 75%         | 0.69                 | 0.77                 | 0.73               |
|                          | 100%        | 0.77                 | 0.83                 | 0.81               |

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

Bearing type : 6206 ZZ 6203 ZZ Max. traction : 111 lb Sealing : Without Without Max. compression : 154 lb

Bearing Seal Bearing Seal

Lubrication interval : - - - Lubricant amount : - - - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 4.58A SF 1.00 SFA 4.58A

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.

| (4) / 11 100 /0 01 10 | iii load.  |                 |                           |  |         |          |
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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage

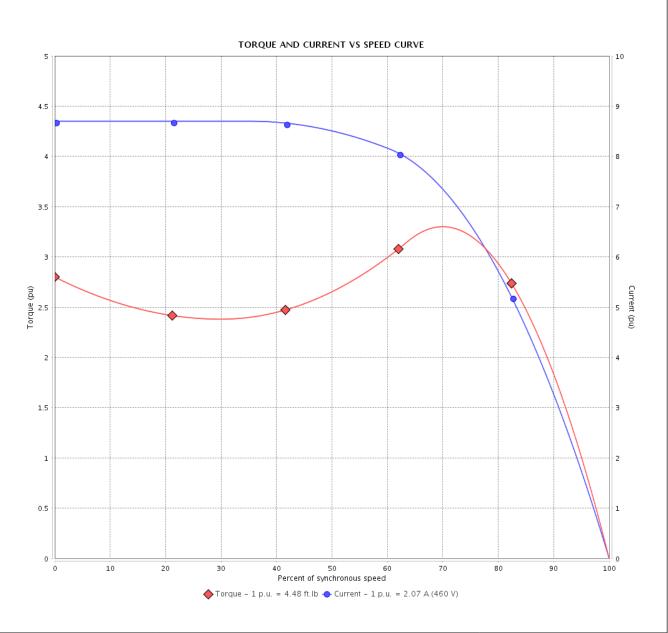


Customer :

Product line : JM Pump NEMA Premium Product code : 13405270

Efficiency Three-Phase

Catalog #: 00158OT3E145JMV-S



Performance : 230/460 V 60 Hz 4P Rated current : 4.14/2.07 A Moment of inertia (J) : 0.1426 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 4.48 ft.lb Locked rotor torque : 280 % Service factor : 80 K Breakdown torque : 330 % Temperature rise Rated speed : 1760 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



Revision

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Three Phase Induction Motor - Squirrel Cage Customer Product line : JM Pump NEMA Premium Product code: 13405270 Efficiency Three-Phase Catalog #: 00158OT3E145JMV-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.47 ft.lb ◆ Current - 1 p.u. = 2.42 A (380 V) Performance : 190/380 V 50 Hz 4P Rated current : 4.84/2.42 A Moment of inertia (J) : 0.1426 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 5.47 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Date Rev. **Changes Summary** Performed Checked

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### TORQUE AND CURRENT VS SPEED CURVE

### Three Phase Induction Motor - Squirrel Cage



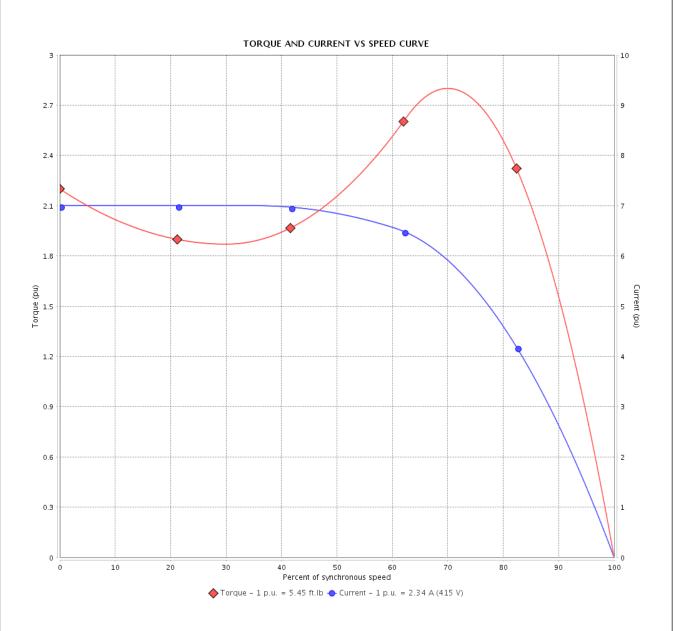
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13405270

Catalog #: 00158OT3E145JMV-S



| Performance  | : 220/415 V 50 Hz 4P                              |  |   |
|--|---|--|---|
| Rated current LRC Rated torque Locked rotor torque | : 4.41/2.34 A<br>: 7.0<br>: 5.45 ft.lb<br>: 220 % | Moment of inertia (J) Duty cycle Insulation class Service factor | : 0.1426 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.15 |
| Breakdown torque<br>Rated speed                    | : 280 %<br>: 1445 rpm                             | Temperature rise Design  | : 80 K<br>: 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



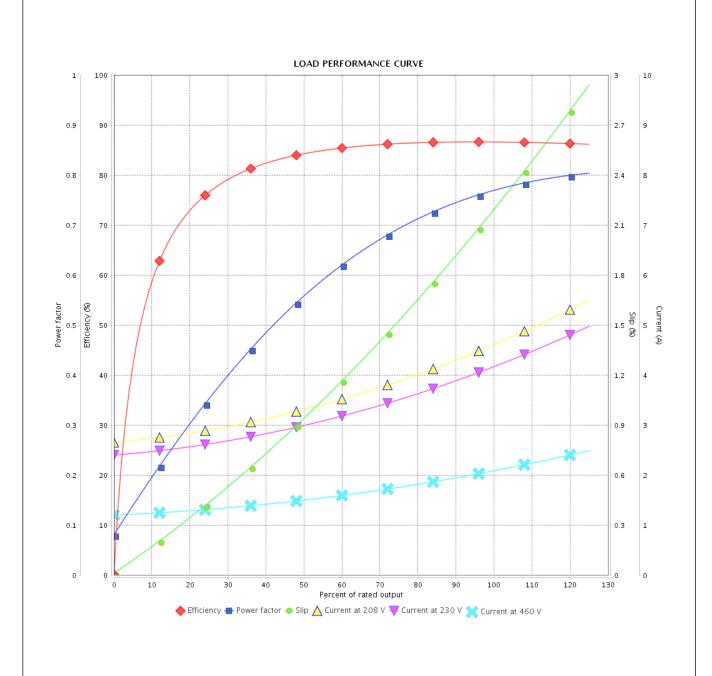
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13405270

Catalog #: 00158OT3E145JMV-S



| Performance              | : 2                        | 230/460 V 60 Hz 4P |            |                  |                   |          |
|--------------------------|----------------------------|--------------------|------------|------------------|-------------------|----------|
| Rated current            | ated current : 4.14/2.07 A |                    | Moment o   | f inertia (J)    | : 0.1426 sq.ft.lb |          |
| LRC                      | : 8                        | 3.7                | Duty cycle | )                | : Cont.(S1)       |          |
| Rated torque             | : 4                        | 1.48 ft.lb         | Insulation | class            | : F               |          |
| Locked rotor torq        | ue : 2                     | 280 %              | Service fa | ctor             | :                 |          |
| Breakdown torque : 330 % |                            | 330 %              | Temperati  | Temperature rise |                   |          |
| Rated speed : 1760 rpm   |                            | 1760 rpm           | Design     |                  | : B               |          |
| Rev.                     |                            | Changes Summary    |            | Performed        | Checked           | Date     |
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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

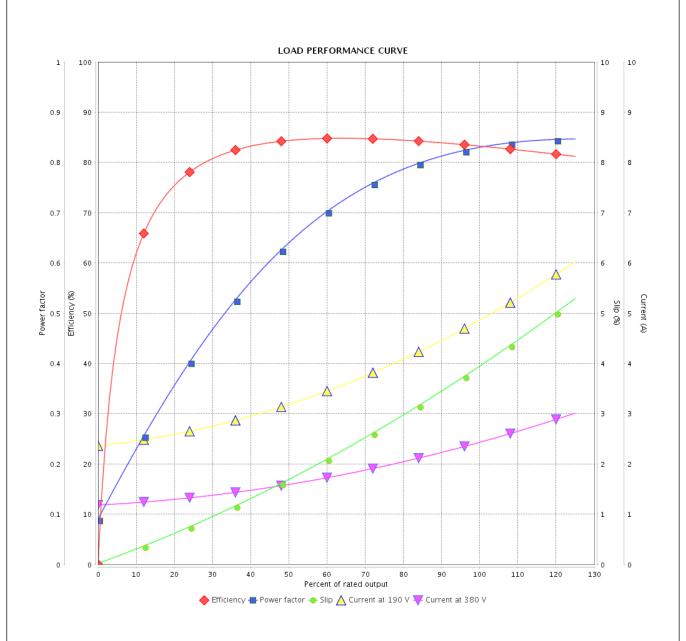
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13405270

Catalog #: 00158OT3E145JMV-S



Performance : 190/380 V 50 Hz 4P Rated current : 4.84/2.42 A Moment of inertia (J) : 0.1426 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 : 5.47 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1440 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

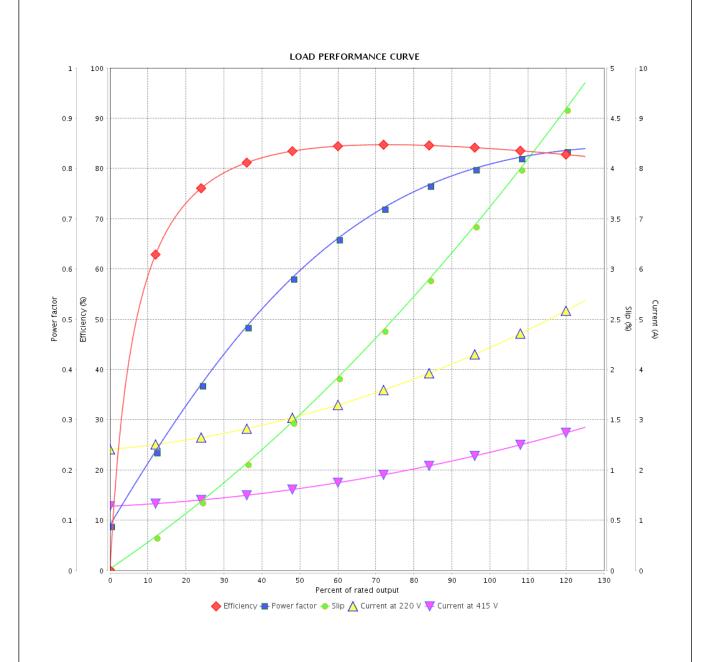
Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13405270

Catalog #: 00158OT3E145JMV-S

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| Performance  | : 220/415 V 50 Hz 4P   |  |           |  |          |
|--|--|--|-----------|--|----------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Rated speed | : 4.41/2.34 A<br>: 7.0<br>: 5.45 ft.lb<br>: 220 %<br>: 280 %<br>: 1445 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design |           | : 0.1426 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K<br>: B |          |
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### Three Phase Induction Motor - Squirrel Cage

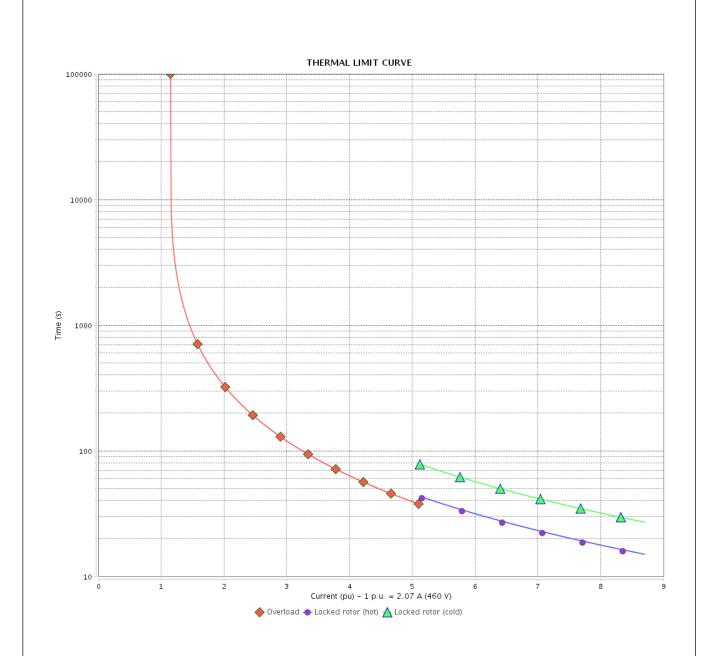


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| Product line                   |            | : JM Pump NEMA Premium<br>Efficiency Three-Phase |                      | Product code : | 13405270                       |          |
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|                                |            |  |                      |                |                                |          |
|                                |            |  |                      |                |                                |          |
| Performance                    |            | 230/460 V 60 Hz 4P                               |                      |                |                                |          |
| Rated current LRC              |            | 4.14/2.07 A<br>8.7                               | Moment of Duty cycle | of inertia (J) | : 0.1426 sq.ft.<br>: Cont.(S1) | b        |
| Rated torque                   |            | 4.48 ft.lb                                       | Insulation           |                | : Cont.(S1)<br>: F             |          |
| Locked rotor torc              | jue :      | 280 %  | Service fa           | actor          | :                              |          |
| Breakdown torqu<br>Rated speed |            | 330 %<br>1760 rpm                                | Temperate Design     | ure rise       | : 80 K<br>: B                  |          |
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| Heating 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

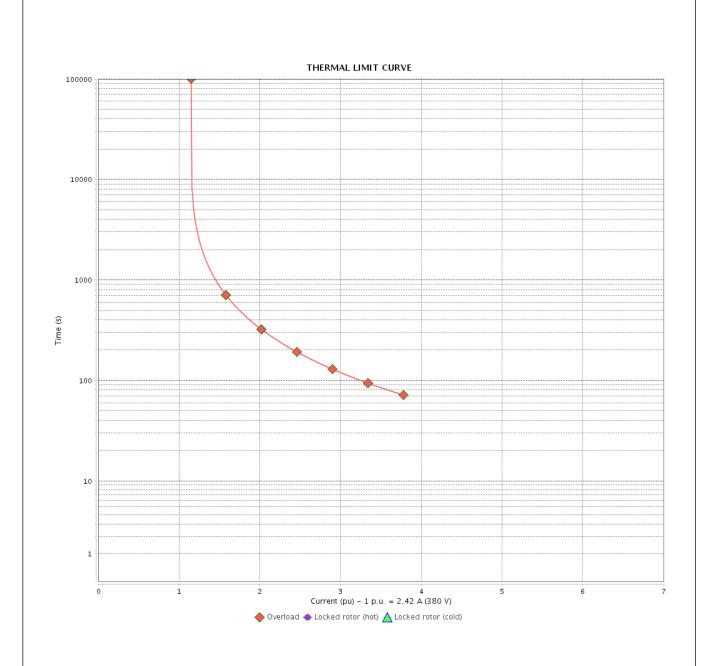


| Customer                             |             | :  |                         |                |                  |          |
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| Product line                         |             | : JM Pump NEMA Premium<br>Efficiency Three-Phase   |                         | Product code : | 13405270         |          |
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|                                      |             |  |                         |                |                  |          |
| Performance                          |             | 100/200 V 50 H= 4D   |                         |                |                  |          |
| Rated current                        |             | : 190/380 V 50 Hz 4P<br>: 4.84/2.42 A  | Moment o                | of inertia (J) | : 0.1426 sq.ft.l | h        |
| LRC                                  | :           | : 6.4  | Duty cycle              | 9              | : Cont.(S1)      | •        |
| Rated torque                         |             | : 5.47 ft.lb   | Insulation              |                | : F              |          |
| Locked rotor tord<br>Breakdown torqu |             | : 190 %<br>: 250 %   | Service fa<br>Temperati |                | : 1.15<br>: 80 K |          |
| Rated speed                          |             | : 1440 rpm   | Design                  | aro 1100       | : B              |          |
| Heating constan                      | t           |  |                         |                |                  |          |
| Cooling constan                      |             |  |                         |                |                  |          |
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

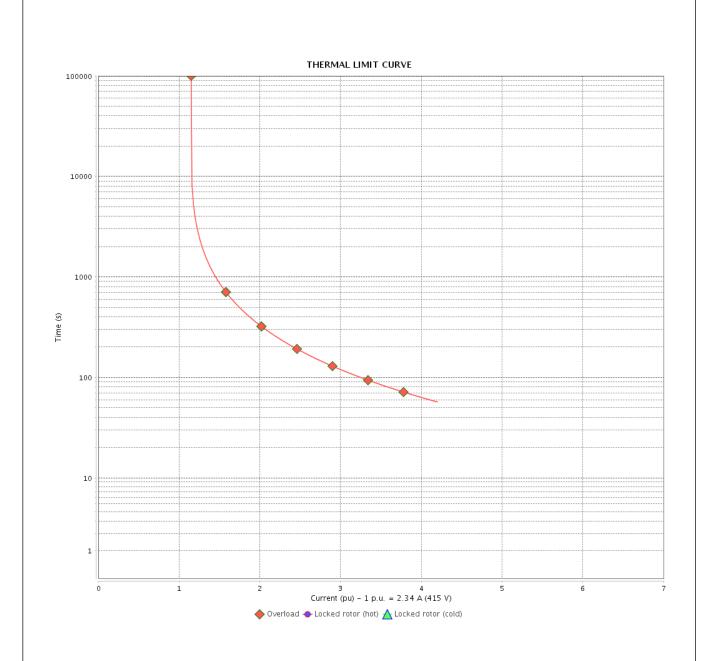


| Customer                          | :               |                                     |                          |                |                    |          |
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|                                   |                 |                                     |                          |                |                    |          |
| Product line                      | : JM<br>Effic   | Pump NEMA Premium iency Three-Phase | F                        | Product code : | 13405270           |          |
|                                   | Line            | ichey Thice Thase                   | (                        | Catalog # :    | 00158OT3E1         | 45JMV-S  |
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|                                   |                 |                                     |                          |                |                    |          |
| Performance                       | : 220/          | /415 V 50 Hz 4P                     |                          |                |                    |          |
| Rated current                     | : 4.41          | /2.34 A                             | Moment of                |                | : 0.1426 sq.ft.lt  | )        |
| LRC                               | : 7.0<br>: 5.45 | ft lb                               | Duty cycle<br>Insulation |                | : Cont.(S1)<br>: F |          |
| Rated torque<br>Locked rotor torc |                 |                                     | Service fac              |                | . г<br>: 1.15      |          |
| Breakdown torqu                   | ie : 280        | %                                   | Temperatu                | re rise        | : 80 K             |          |
| Rated speed                       | : 1445          | o thw                               | Design                   |                | : B                |          |
| Heating constant                  |                 |                                     |                          |                |                    |          |
| Cooling constant Rev.             |                 | hanges Summary                      | T                        | 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



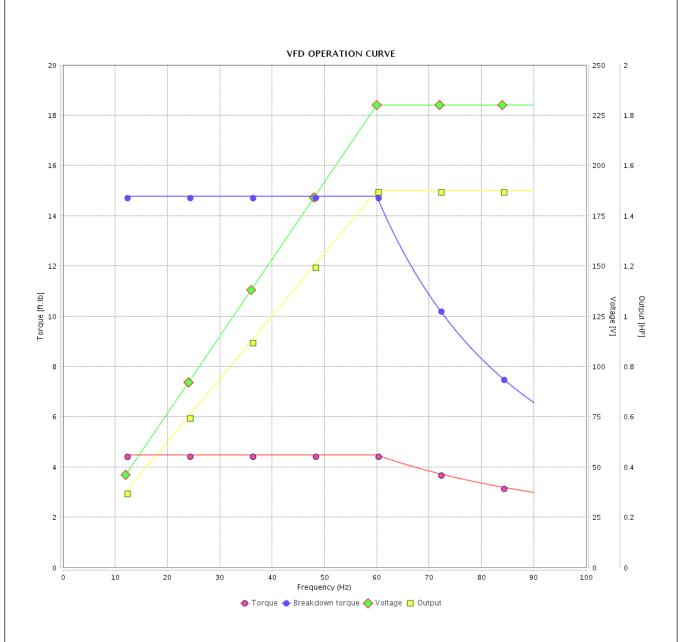
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13405270

Catalog #: 00158OT3E145JMV-S



| Performance         | : 230/460 V 60 Hz 4P |                       |                  |                    |          |  |  |
|---------------------|----------------------|-----------------------|------------------|--------------------|----------|--|--|
| Rated current       | : 4.14/2.07 A        | Moment of inertia (J) |                  | : 0.1426 sq.ft.lb  |          |  |  |
| LRC                 | : 8.7                | Duty cycle            |                  | : Cont.(S1)        |          |  |  |
| Rated torque        | : 4.48 ft.lb         | Insulation            | Insulation class |                    | : F      |  |  |
| Locked rotor torque | : 280 %              | % Temperature rise    |                  | :<br>: 80 K<br>: B |          |  |  |
| Breakdown torque    | : 330 %              |                       |                  |                    |          |  |  |
| Rated speed         | : 1760 rpm           |                       |                  |                    |          |  |  |
| Rev.                | Changes Summary      |                       | Performed        | Checked            | Date     |  |  |
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Date

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



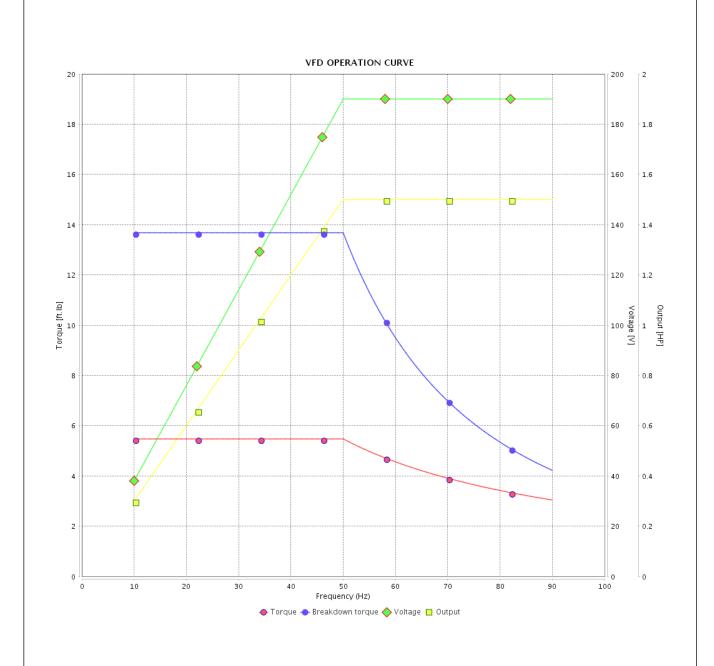
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13405270

Catalog #: 00158OT3E145JMV-S



| Performance           |                 | : 190/380 V 50 Hz 4P             |                  |                   |         |             |  |
|-----------------------|-----------------|----------------------------------|------------------|-------------------|---------|-------------|--|
| Rated current         |                 | .84/2.42 A Moment of inertia (J) |                  | : 0.1426 sq.ft.lb |         |             |  |
| LRC : 6               |                 | .4                               | Duty cycle       | Duty cycle        |         | : Cont.(S1) |  |
| Rated torque          |                 | .47 ft.lb                        | Insulation class |                   | : F     |             |  |
| Locked rotor torque : |                 | 90 %                             | Service factor   |                   | : 1.15  |             |  |
| Breakdown torqu       | e : 2           | 50 %                             | Temperati        | Temperature rise  |         | : 80 K      |  |
| Rated speed           | : 1             | 440 rpm                          | Design           |                   | : B     |             |  |
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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

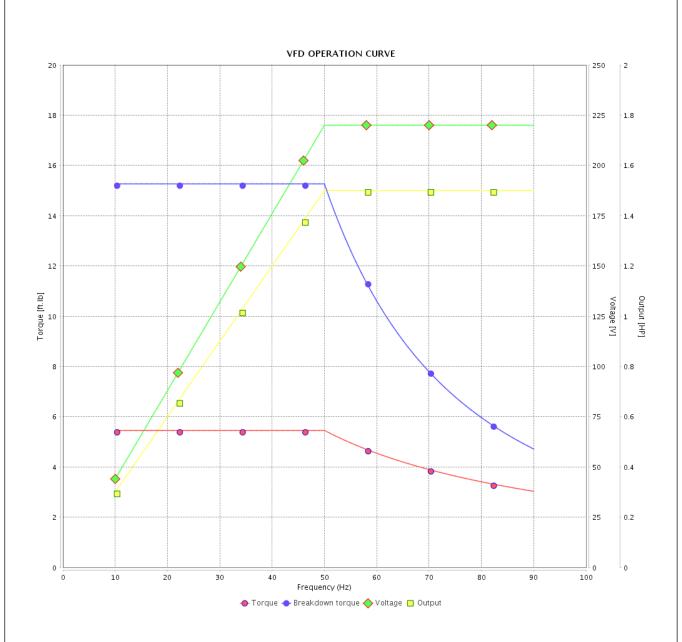
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

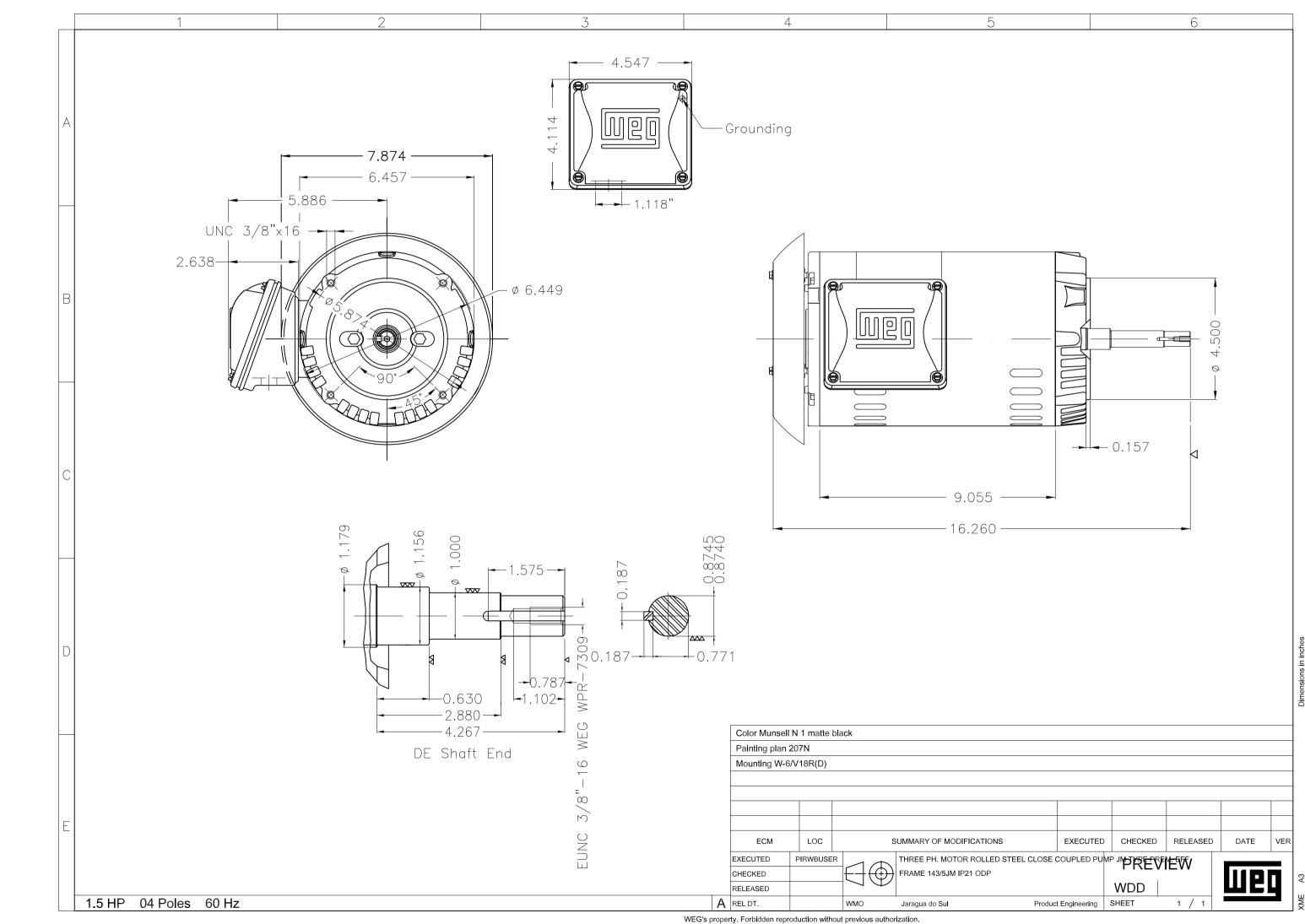
Product code: 13405270

Catalog #: 00158OT3E145JMV-S



Performance : 220/415 V 50 Hz 4P Rated current : 4.41/2.34 A Moment of inertia (J) : 0.1426 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 5.45 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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**&** 

3PT9

Energy Verifi

(**UL)**US LISTED

MODEL 001580T3E145JMV-S N01.TODICOXON

CC029A

13405270

MADE IN BRAZIL

8 걒 143/5.IM 9APR2022

DES 1000 m.a.s.l F AT 80K CONT 2°04 900

NSC

4.76/2.38

1.15

CODE SABLE @ 208V 4.58A LTERNATE RATING:

SF1.00 INC. 2

ZPM 3FA 냃 쌆

1.5FP

86.5%

NOM EFF 1440RPM 50 Hz

84-4.34/2.42-2.30A

IEC 60034

5:1 CT

SF1.15

190-220/380-415V

8203-ZZ

ago

8206-ZZ

牌

9

2

**EFF 83.2%** 

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. MOBIL POLYREX EM

5

T2-WHT

1-BLU

T4-YEL

T9-BRK RED 13-ORG I7-PNK F5-BLK

T6-GRY

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION







WARNING: Motor must be grounded in accordance with local