### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674770

Phase

Catalog #: 00236OT3E145T-S

Frame : 143/5T Cooling method : IC01 - ODP Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

| , minorative componentario |      | 0 0 10 .0 0          | o tan ting mountain         |                    |
|----------------------------|------|----------------------|-----------------------------|--------------------|
| Altitude                   |      | : 1000 m.a.s.l.      | Approx. weight <sup>3</sup> | : 37.1 lb          |
| Design                     |      | : B                  | Moment of inertia (J)       | : 0.1151 sq.ft.lb  |
| Output [HP]                |      | 2                    | 2                           | 2                  |
| Poles                      |      | 2                    | 2                           | 2                  |
| Frequency [Hz]             |      | 60                   | 50                          | 50                 |
| Rated voltage [V]          |      | 230/460              | 190/380                     | 220/415            |
| Rated current [A]          |      | 4.84/2.42            | 5.82/2.91                   | 5.26/2.79          |
| L. R. Amperes [A]          |      | 43.1/21.5            | 40.2/20.1                   | 40.0/21.2          |
| LRC [A]                    |      | 8.9x(Code K)         | 6.9x(Code H)                | 7.6x(Code J)       |
| No load current [A         | .]   | 1.83/0.917           | 1.81/0.906                  | 1.84/0.978         |
| Rated speed [RPM]          |      | 3510                 | 2890                        | 2900               |
| Slip [%]                   |      | 2.50                 | 3.67                        | 3.33               |
| Rated torque [ft.lb]       |      | 2.99                 | 3.63                        | 3.62               |
| Locked rotor torque [%]    |      | 220                  | 180                         | 200                |
| Breakdown torque [%]       |      | 330                  | 250                         | 280                |
| Service factor             |      |                      | 1.15                        | 1.15               |
| Temperature rise           |      | 80 K                 | 80 K                        | 80 K               |
| Locked rotor time          |      | 25s (cold) 14s (hot) | 0s (cold) 0s (hot)          | 0s (cold) 0s (hot) |
| Noise level <sup>2</sup>   |      | 62.0 dB(A)           | 60.0 dB(A)                  | 60.0 dB(A)         |
|                            | 25%  | 83.7                 | 85.5                        | 85.4               |
| Efficiency (%)             | 50%  | 84.0                 | 85.0                        | 84.7               |
| Efficiency (70)            | 75%  | 85.5                 | 85.1                        | 85.4               |
|                            | 100% | 85.5                 | 84.2                        | 84.3               |
|                            | 25%  | 0.49                 | 0.56                        | 0.52               |
| Power Factor               | 50%  | 0.77                 | 0.83                        | 0.80               |
| i ower i actor             | 75%  | 0.86                 | 0.90                        | 0.88               |
|                            | 100% | 0.91                 | 0.93                        | 0.92               |
|                            |      |                      |                             |                    |

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

Bearing type : 6205 ZZ 6203 ZZ Max. traction : 69 lb Sealing : Without Without Max. compression : 107 lb

Bearing Seal Bearing Seal

Lubrication interval : - - Lubricant amount : - -

Lubricant amount : - - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 5.35A SF 1.00 SFA 5.35A

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         | 13/04/2022 |                 |           | 1 /     |          |

## TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



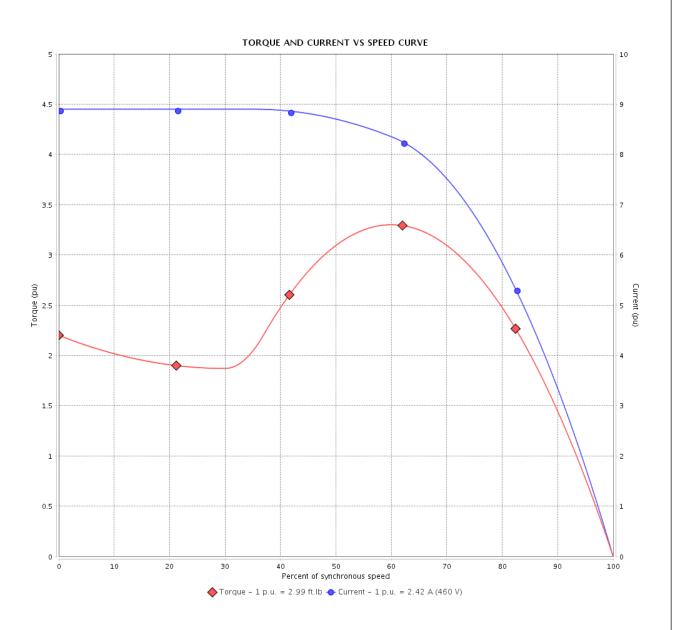
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12674770

Catalog #: 00236OT3E145T-S



| Performance   | : 230/460 V 60 Hz 2P   |  |   |  |
|---|--|--|---|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 4.84/2.42 A<br>: 8.9<br>: 2.99 ft.lb<br>: 220 %<br>: 330 %<br>: 3510 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | : 0.1151 sq.ft.lb<br>: Cont.(S1)<br>: F<br>:<br>: 80 K<br>: B |  |
| Locked rotor time   | · 25s (cold) 14s (hot)   |  |   |  |

Locked rotor time : 25s (cold) 14s (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 : NEMA Premium Efficiency Three-Product code: 12674770 Catalog #: 00236OT3E145T-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6

| Performance         | : 190/380 V 50 Hz 2P |                       |                   |  |
|---------------------|----------------------|-----------------------|-------------------|--|
| Rated current       | : 5.82/2.91 A        | Moment of inertia (J) | : 0.1151 sq.ft.lb |  |
| LRC                 | : 6.9                | Duty cycle            | : Cont.(S1)       |  |
| Rated torque        | : 3.63 ft.lb         | Insulation class      | : F               |  |
| Locked rotor torque | : 180 %              | Service factor        | : 1.15            |  |
| Breakdown torque    | : 250 %              | Temperature rise      | : 80 K            |  |
| Rated speed         | : 2890 rpm           | Design                | : B               |  |
| Raieu speed         | . 2090 IPIN          | Design                | . D               |  |

40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 3.63 ft.lb ♦ Current – 1 p.u. = 2.91 A (380 V)

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

|              |            | (111)           |           |         |          |
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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



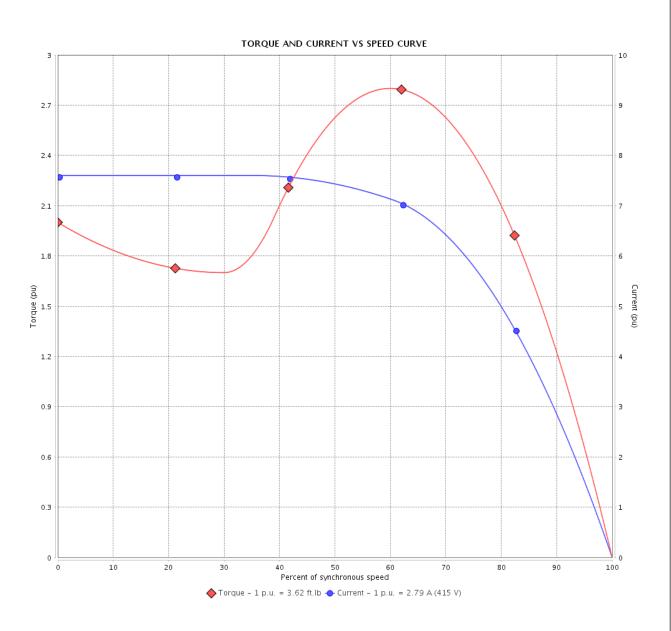
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12674770

Catalog #: 00236OT3E145T-S



Performance : 220/415 V 50 Hz 2P Rated current : 5.26/2.79 A Moment of inertia (J) : 0.1151 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : F : 3.62 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B

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

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



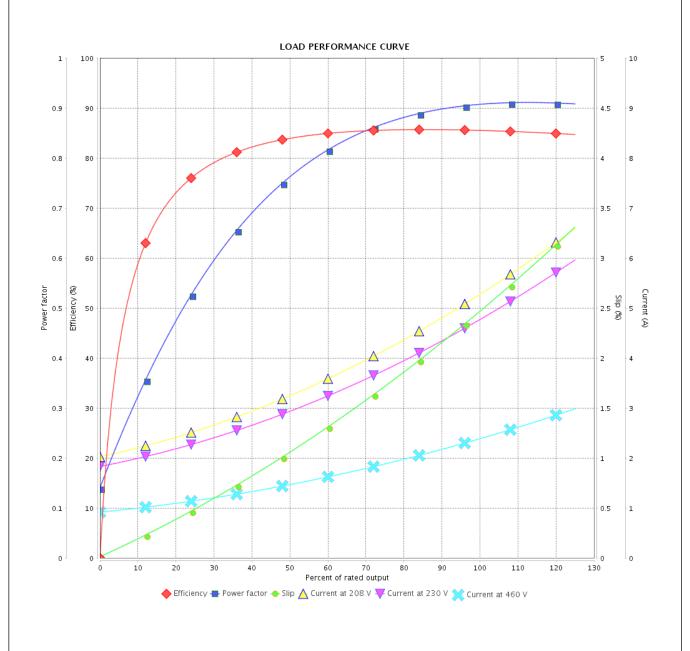
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00236OT3E145T-S

12674770



| Performance       | : 2        | 30/460 V 60 Hz 2P |                  |               |                       |          |
|-------------------|------------|-------------------|------------------|---------------|-----------------------|----------|
| Rated current     | : 4        | .84/2.42 A        | Moment o         | f inertia (J) | (J) : 0.1151 sq.ft.lb |          |
| LRC               | : 8        | .9                | Duty cycle       |               | : Cont.(S1)           |          |
| Rated torque      | : 2        | .99 ft.lb         | Insulation       | class         | : F                   |          |
| Locked rotor torq | ue : 2     | 20 %              | Service fa       | ctor          | :                     |          |
| Breakdown torqu   | ie : 3     | 30 %              | Temperature rise |               | : 80 K                |          |
| Rated speed :     |            | 510 rpm           | rpm Design       |               | : B                   |          |
| Rev.              |            | Changes Summary   |                  | Performed     | Checked               | Date     |
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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

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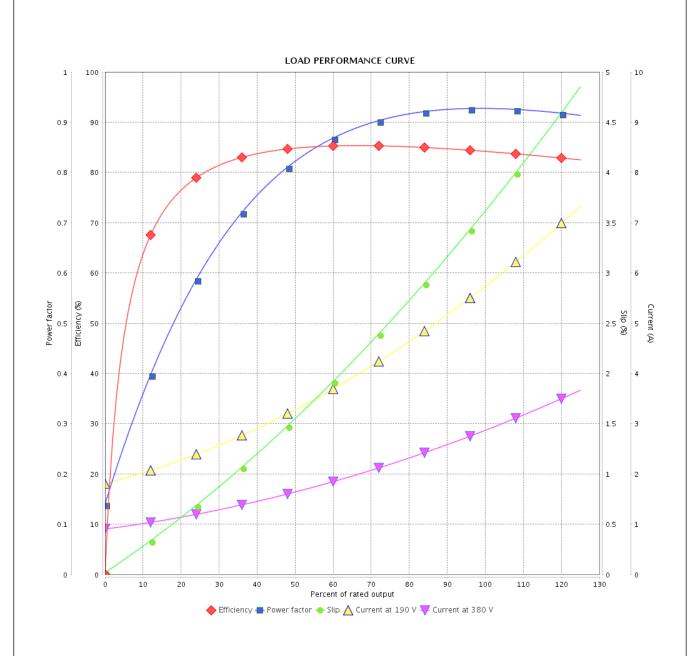
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Product line : NEMA Premium Efficiency Three- Product code : 12674770

Phase

Catalog #: 00236OT3E145T-S



| : 190/380 V 50 Hz 2P   |   |   |  |  |
|--|---|---|--|--|
| : 5.82/2.91 A<br>: 6.9<br>: 3.63 ft.lb<br>: 180 %<br>: 250 %<br>: 2890 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise |   | : 0.1151 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K<br>: B   |  |
| Changes Summary  |   | Performed   | Checked  | Date   |
|  |   |   |  |  |
|  | : 5.82/2.91 A<br>: 6.9<br>: 3.63 ft.lb<br>: 180 %<br>: 250 %<br>: 2890 rpm        | : 5.82/2.91 A Moment of 26.9 Duty cycle 26.9 Insulation 2180 % Service factor 250 % Temperate 2890 rpm Design | : 5.82/2.91 A  : 6.9  : 3.63 ft.lb  : 180 %  : 250 %  : 2890 rpm   Moment of inertia (J)  Duty cycle  Insulation class  Service factor  Temperature rise  Design | : 5.82/2.91 A       Moment of inertia (J)       : 0.1151 sq.ft.         : 6.9       Duty cycle       : Cont.(S1)         : 3.63 ft.lb       Insulation class       : F         : 180 %       Service factor       : 1.15         : 250 %       Temperature rise       : 80 K         : 2890 rpm       Design       : B |

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Revision

# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

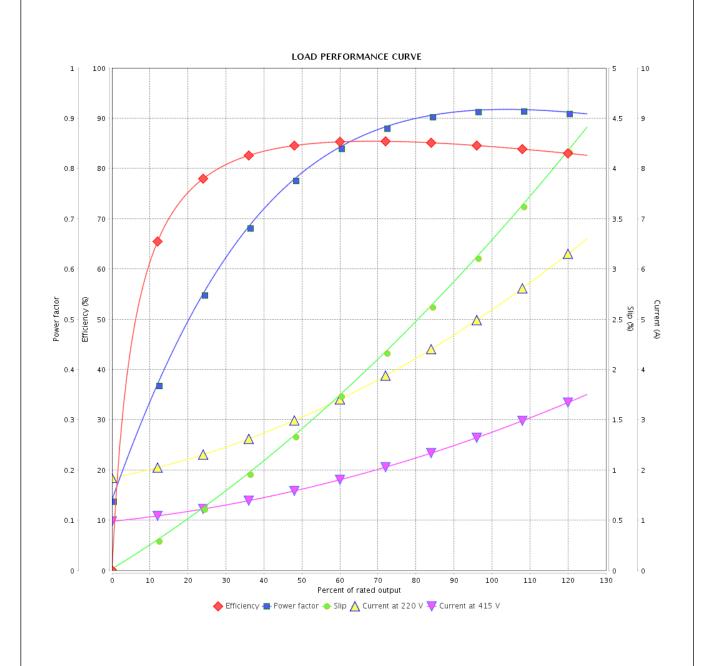


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12674770

Phase

Catalog #: 00236OT3E145T-S



| Performance         | ::                               | 220/415 V 50 Hz 2P |                  |               |                   |          |
|---------------------|----------------------------------|--------------------|------------------|---------------|-------------------|----------|
| Rated current       | : :                              | 5.26/2.79 A        | Moment o         | f inertia (J) | : 0.1151 sq.ft.lb |          |
| LRC                 | : '                              | 7.6                | Duty cycle       | ;             | : Cont.(S1)       |          |
| Rated torque        | ::                               | 3.62 ft.lb         | Insulation       | class         | : F               |          |
| Locked rotor torque | or torque : 200 % Service factor |                    | ctor             | : 1.15        |                   |          |
| Breakdown torque    | : :                              | 280 %              | Temperature rise |               | : 80 K            |          |
| Rated speed         | ::                               | : 2900 rpm         |                  | Design        |                   |          |
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### Three Phase Induction Motor - Squirrel Cage

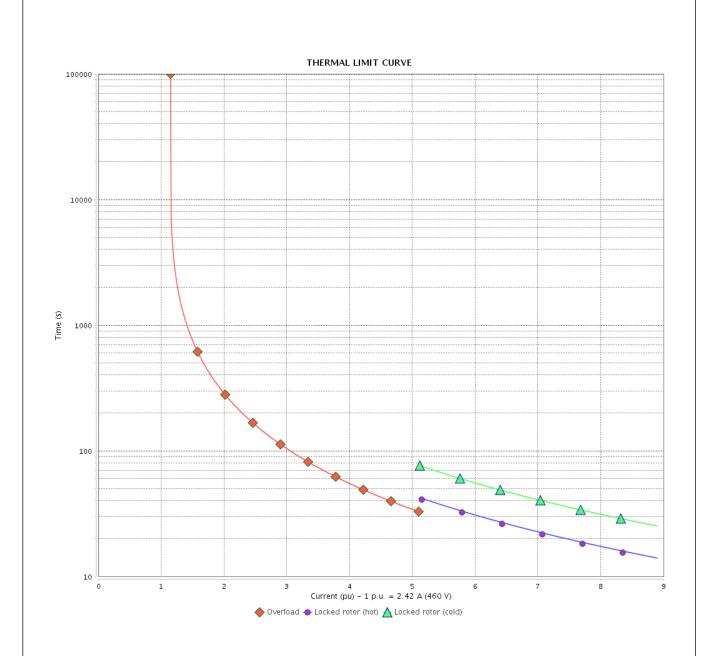


| Customer                          | :                                     |                          |                |                    |          |
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| Product line                      | : NEMA Premium Efficie                | ency Three-              | Product code : | 12674770           |          |
|                                   | Phase                                 |                          | Catalog # :    | 00236OT3E          | 145T-S   |
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|                                   |                                       |                          |                |                    |          |
| Performance                       | : 230/460 V 60 Hz 2P                  |                          |                |                    |          |
| Rated current                     | : 4.84/2.42 A                         | Moment of                | of inertia (J) | : 0.1151 sq.ft.l   | b        |
| LRC<br>Rated torque               | : 8.9<br>: 2.99 ft.lb                 | Duty cycle<br>Insulation | е              | : Cont.(S1)<br>: F |          |
| Locked rotor torque               | : 220 %                               | Service fa               | actor          | :                  |          |
| Breakdown torque<br>Rated speed   | : 330 %<br>: 3510 rpm                 | Temperat<br>Design       | ure rise       | : 80 K<br>: B      |          |
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| Heating constant 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

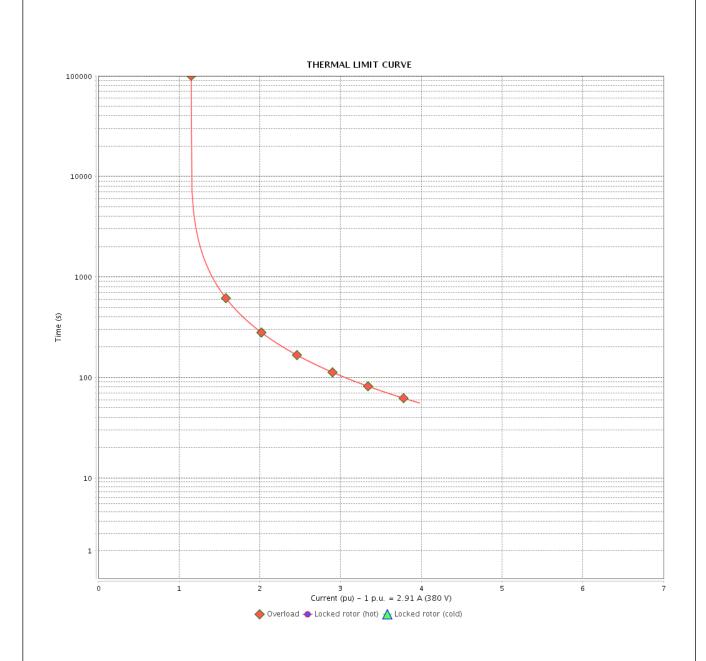


| Customer                       |            | :                                      |                          |                |                    |          |
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| Product line                   |            | : NEMA Premium Efficiency <sup>1</sup> | Three-                   | Product code : | 12674770           |          |
|                                |            |  |                          | Catalog # :    | 00236OT3E1         | 45T-S    |
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|                                |            |  |                          |                |                    |          |
| Performance                    | :          | 190/380 V 50 Hz 2P                     |                          |                |                    |          |
| Rated current                  |            | 5.82/2.91 A                            | Moment o                 | of inertia (J) | : 0.1151 sq.ft.ll  | )        |
| LRC<br>Rated torque            |            | 6.9<br>3.63 ft.lb                      | Duty cycle<br>Insulation |                | : Cont.(S1)<br>: F |          |
| Locked rotor tord              | que :      | 180 %                                  | Service fa               | ctor           | : 1.15             |          |
| Breakdown torqu<br>Rated speed |            | 250 %<br>2890 rpm                      | Temperati<br>Design      | ure rise       | : 80 K<br>: B      |          |
| Heating constant               |            | •                                      | - 5                      |                |                    |          |
| Cooling constant               |            |  |                          |                |                    |          |
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#### Three Phase Induction Motor - Squirrel Cage



Customer :



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### Three Phase Induction Motor - Squirrel Cage

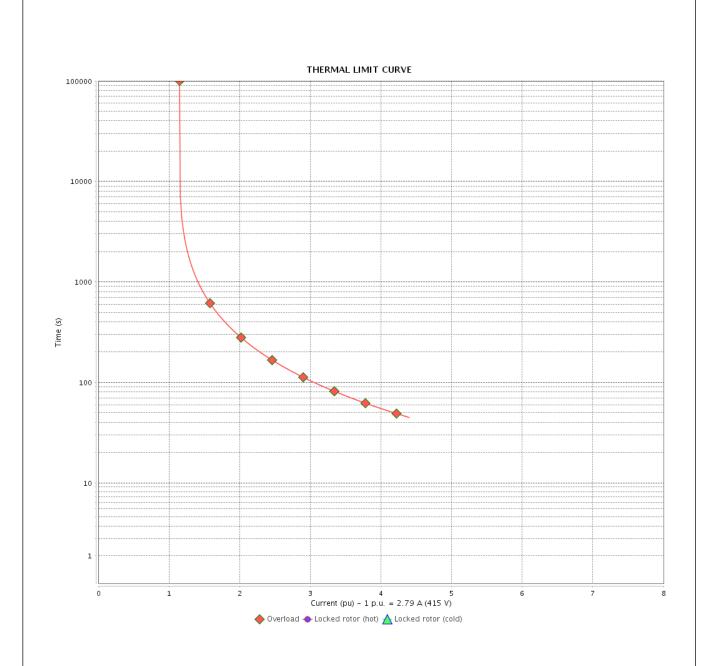


| Customer                             | :            |                         |                     |                |                        |          |
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| Product line                         |              | NEMA Premium Efficiency | Three-              | Product code : | 12674770               |          |
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|                                      |              |                         |                     |                |                        |          |
| Performance                          | : 22         | 20/415 V 50 Hz 2P       |                     |                |                        |          |
| Rated current                        |              | .26/2.79 A              | Moment o            | f inertia (J)  | : 0.1151 sq.ft.l       | b        |
| LRC<br>Rated torque                  | : 7.<br>: 3. | .6<br>.62 ft.lb         | Duty cycle          | ;<br>class     | : Cont.(S1)<br>: F     |          |
| Locked rotor torque                  | : 20         | 00 %                    | Service fa          | ctor           | : 1.15                 |          |
| Breakdown torque<br>Rated speed      |              | 80 %<br>900 rpm         | Temperatu<br>Design | ure rise       | : 80 K<br>: B          |          |
|                                      |              | r                       | 2-13                |                |                        |          |
| 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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# VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



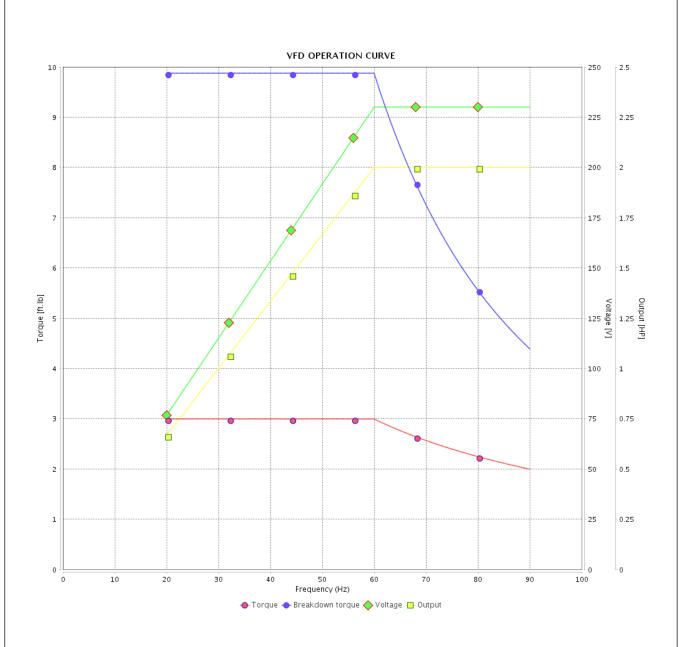
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12674770

Catalog #: 00236OT3E145T-S

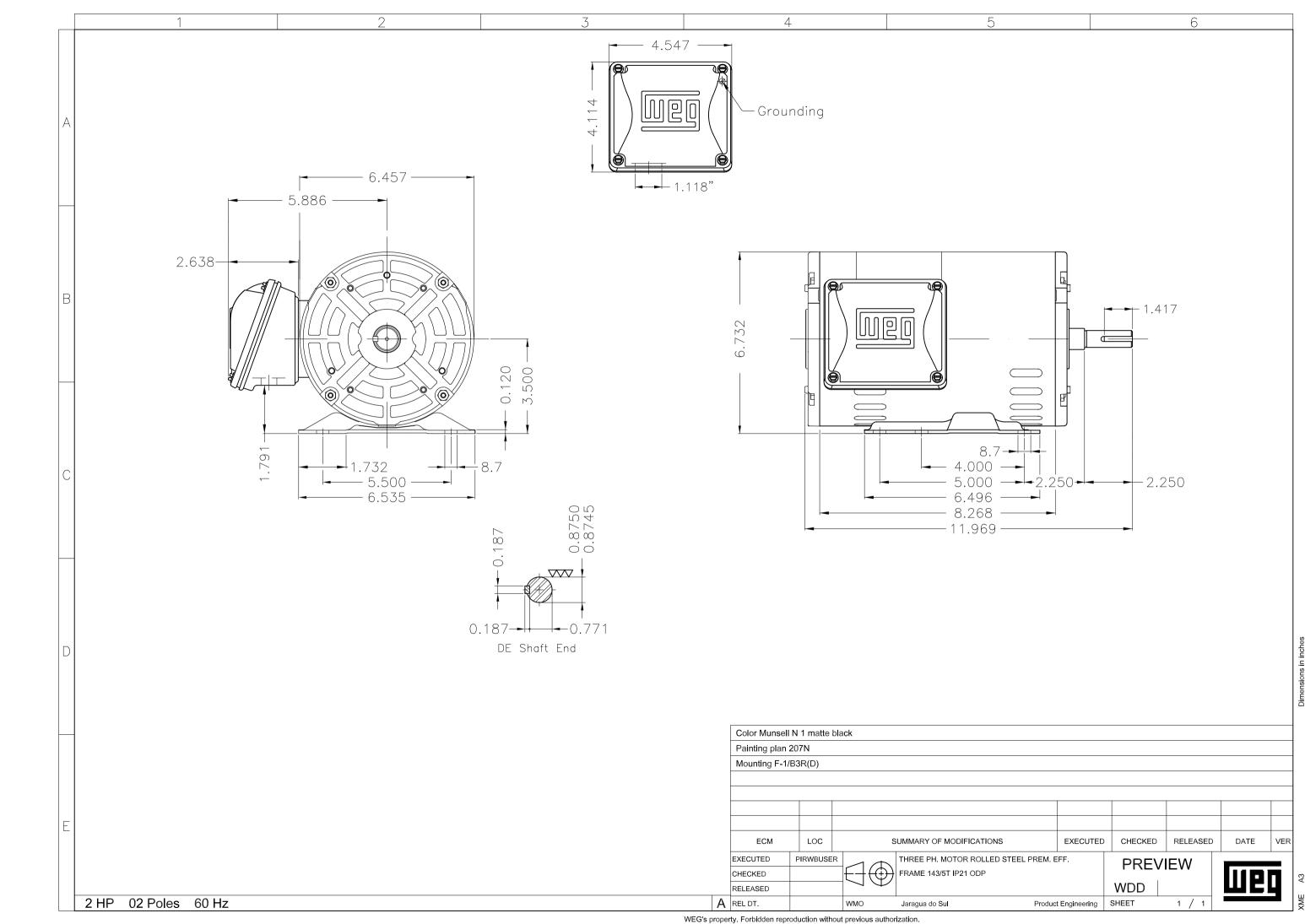


| Performance  | : 230/460 V 60 Hz 2P   |   |               |   |          |
|--|--|---|---------------|---|----------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Rated speed | : 4.84/2.42 A<br>: 8.9<br>: 2.99 ft.lb<br>: 220 %<br>: 330 %<br>: 3510 rpm | Moment of Duty cycle Insulation Service fa Temperate Design | class<br>ctor | : 0.1151 sq.ft.<br>: Cont.(S1)<br>: F<br>:<br>: 80 K<br>: B | lb       |
| Rev.   | Changes Summary  | ,   | Performed     | Checked   | Date     |
| Performed by   |  |   |               |   |          |
| Checked by   |  |   |               | Page  | Revision |

14/

13/04/2022

Date



MADE IN BRAZIL

**&** 

(**UL)**US LISTED

3PT9

Energy Verifi









MODEL 002360T3E145T-S

N01.TODICOXON

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| , |     | 460   |
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| , | 5.0 | 230/2 |

















Hz 60

143/51 8FEB2022

CONT

5.57/2.78

1000 m.a.s.l

F AT 80K

NSC

2°04 900 IEC 60034-1

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 3:1 CT

MOBIL POLYREX EM

8203-ZZ

800

8205-ZZ

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5

SF1.15

190-220/380-415V

85.5%

NOM EFF NEMA ZSOORPIM

50 Hz

2.0HP

5.82-5.11/2.91-2.71A

ALTERNATE RATING:

3510 1.15 0.91

SPM 3FA 냃 쌆

> CODE DES

SABLE @ 208V 5.35A

SF1.00 INC. 2

**EFF 84.2%** 

T6-GRY T2-WHT

13-ORG 1-BLU

T8-RED T4-YEL

> I7-PNK F5-BLK

T9-BRK RED

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

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

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