### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13248860

Catalog #: 00712OT3E254TC-SG

Frame : 254/6TC Cooling method : IC01 - ODP Insulation class

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

| Altitude                 |        | : 1000 m.a.s.l.      | Approx. weight <sup>3</sup> | : 202 lb           |
|--------------------------|--------|----------------------|-----------------------------|--------------------|
| Design                   |        | : B                  | Moment of inertia (J)       | : 2.00 sq.ft.lb    |
| Output [HP]              |        | 7.5                  | 7.5                         | 7.5                |
| Poles                    |        | 6                    | 6                           | 6                  |
| Frequency [Hz]           |        | 60                   | 50                          | 50                 |
| Rated voltage [V]        |        | 230/460              | 190/380                     | 220/415            |
| Rated current [A]        |        | 20.4/10.2            | 24.4/12.2                   | 22.1/11.7          |
| L. R. Amperes [A]        |        | 104/52.0             | 97.6/48.8                   | 99.3/52.6          |
| LRC [A]                  |        | 5.1x(Code F)         | 4.0x(Code D)                | 4.5x(Code E)       |
| No load current [A       | .]     | 10.7/5.37            | 10.6/5.30                   | 10.8/5.72          |
| Rated speed [RPN         | Л]     | 1175                 | 970                         | 970                |
| Slip [%]                 |        | 2.08                 | 3.00                        | 3.00               |
| Rated torque [ft.lb]     | ]      | 33.5                 | 40.6                        | 40.6               |
| Locked rotor torqu       | ıe [%] | 200                  | 140                         | 160                |
| Breakdown torque         | : [%]  | 229                  | 180                         | 200                |
| Service factor           |        | 1.15                 | 1.15                        | 1.15               |
| Temperature rise         |        | 80 K                 | 80 K                        | 80 K               |
| Locked rotor time        |        | 66s (cold) 37s (hot) | 0s (cold) 0s (hot)          | 0s (cold) 0s (hot) |
| Noise level <sup>2</sup> |        | 59.0 dB(A)           | 57.0 dB(A)                  | 57.0 dB(A)         |
|                          | 25%    | 88.2                 | 90.1                        | 89.8               |
| Efficiency (9/)          | 50%    | 88.5                 | 89.3                        | 89.0               |
| Efficiency (%)           | 75%    | 90.2                 | 89.1                        | 89.3               |
|                          | 100%   | 90.2                 | 88.0                        | 88.1               |
|                          | 25%    | 0.33                 | 0.39                        | 0.35               |
| Power Factor             | 50%    | 0.56 0.63            |                             | 0.59               |
| 1 OWEI FACIOI            | 75%    | 0.68                 | 0.74                        | 0.71               |
|                          | 100%   | 0.75                 | 0.78                        | 0.77               |

Drive end Non drive end Foundation loads

Bearing type 6309 Z C3 6208 Z C3 Max. traction : 288 lb Sealing Without Without Max. compression : 490 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 22.6A SF 1.00 SFA 22.6A

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.

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



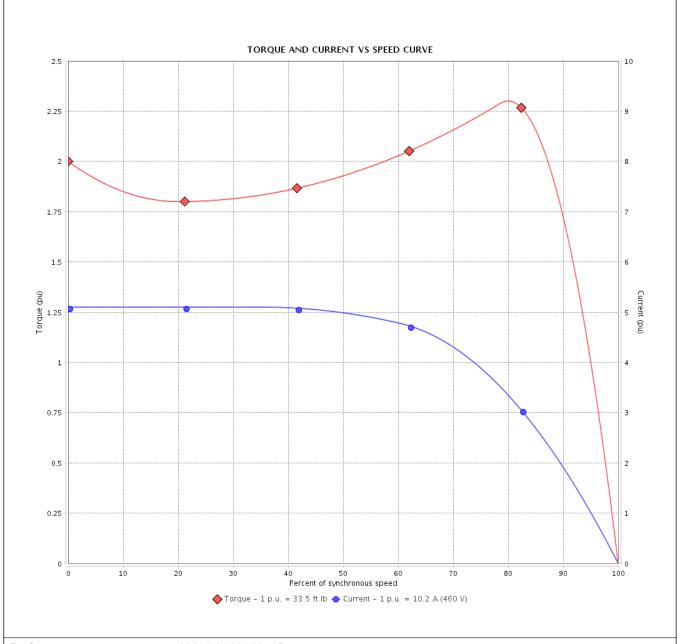
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13248860

Catalog #: 00712OT3E254TC-SG



Performance : 230/460 V 60 Hz 6P Rated current : 20.4/10.2 A Moment of inertia (J) : 2.00 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) : 33.5 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 66s (cold) 37s (hot)

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### TORQUE AND CURRENT VS SPEED CURVE



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13248860 Catalog #: 00712OT3E254TC-SG TORQUE AND CURRENT VS SPEED CURVE 4.5 1.8 3.5 1.4 1.2 Torque (pu) 0.8 0.4 0.2 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 40.6 ft.lb ◆ Current - 1 p.u. = 12.2 A (380 V) Performance : 190/380 V 50 Hz 6P Rated current : 24.4/12.2 A Moment of inertia (J) : 2.00 sq.ft.lb **LRC** : 4.0 Duty cycle : Cont.(S1) : 40.6 ft.lb Insulation class Rated torque : F : 140 % Locked rotor torque Service factor : 1.15 Breakdown torque : 180 % Temperature rise : 80 K Rated speed : 970 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

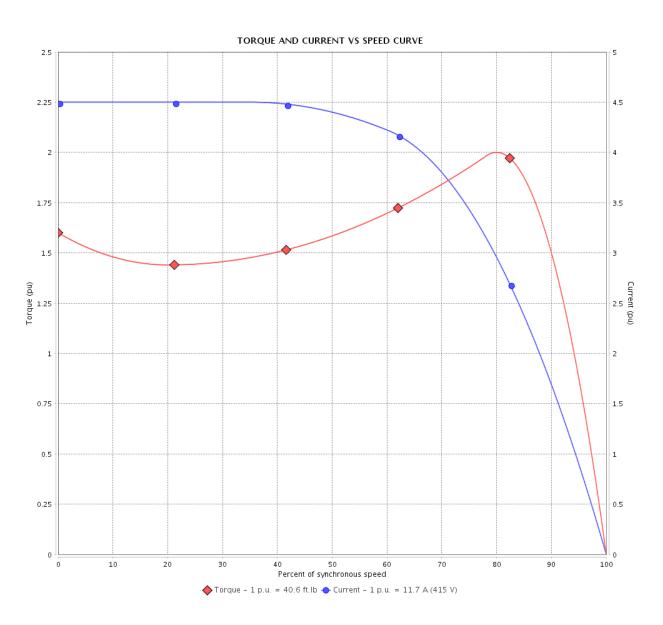
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13248860

Catalog #: 00712OT3E254TC-SG



| Performance                             | : 220/415 V 50 Hz 6P                   |   |                                       |  |
|---|--|---|---------------------------------------|--|
| Rated current<br>LRC<br>Rated torque    | : 22.1/11.7 A<br>: 4.5<br>: 40.6 ft.lb | Moment of inertia (J) Duty cycle Insulation class | : 2.00 sq.ft.lb<br>: Cont.(S1)<br>: F |  |
| Locked rotor torque<br>Breakdown torque | : 160 %<br>: 200 %                     | Service factor Temperature rise                   | : 1.15<br>: 80 K                      |  |
| Rated speed  Locked rotor time          | : 970 rpm<br>: 0s (cold) 0s (hot)      | Design  | : B                                   |  |

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### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



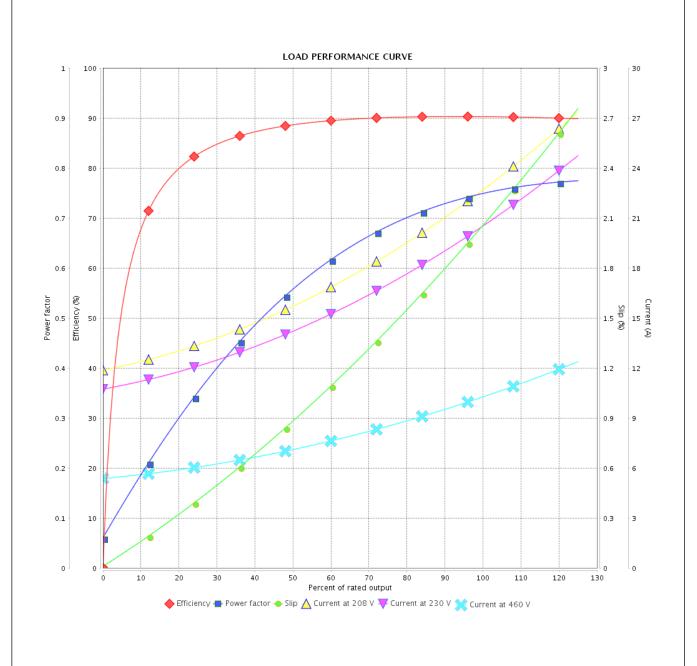
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00712OT3E254TC-SG

13248860



| Performance         | :          | 230/460 V 60 Hz 6P |            |               |                 |          |
|---------------------|------------|--------------------|------------|---------------|-----------------|----------|
| Rated current       | :          | 20.4/10.2 A        | Moment o   | f inertia (J) | : 2.00 sq.ft.lb |          |
| LRC                 | :          | 5.1                | Duty cycle | <b>)</b>      | : Cont.(S1)     |          |
| Rated torque        | :          | 33.5 ft.lb         | Insulation | class         | :F              |          |
| Locked rotor torque | e :        | 200 %              | Service fa | ctor          | : 1.15          |          |
| Breakdown torque    | :          | 229 %              | Temperati  | ıre rise      | : 80 K          |          |
| Rated speed         | :          | 1175 rpm           | Design     |               | : B             |          |
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### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

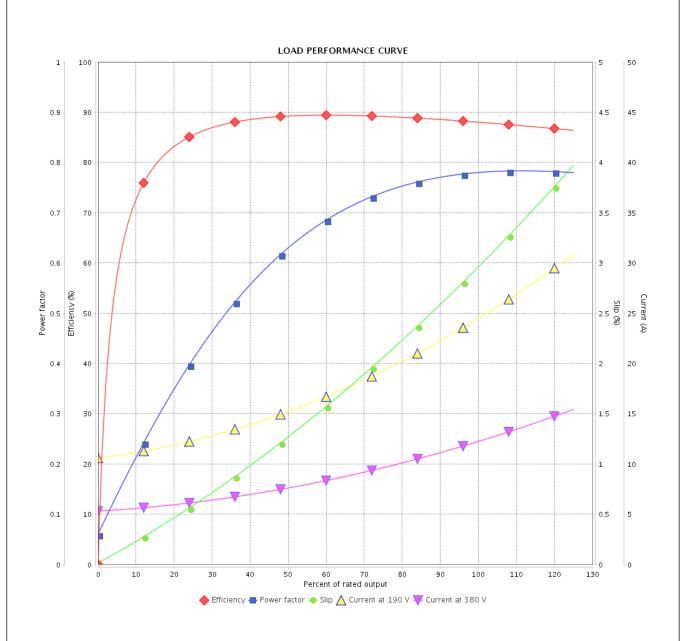
Product code: 13248860

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Revision



| Performance  | : 190/380 V 50 Hz 6P |  |               |  |      |
|--|----------------------|--|---------------|--|------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Rated speed |                      | Moment of Duty cycle Insulation Service fa Temperation | class<br>ctor | : 2.00 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K<br>: B |      |
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

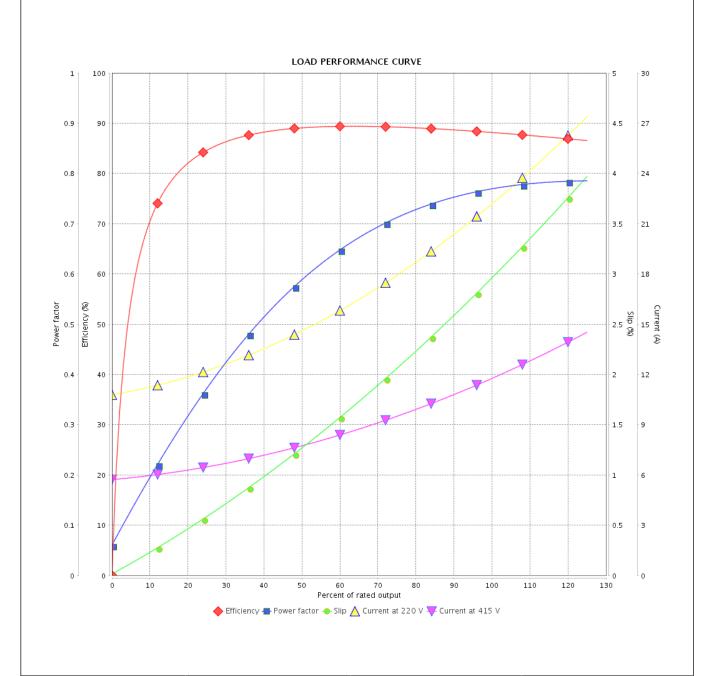


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13248860

Phase

Catalog #: 00712OT3E254TC-SG



| Performance                 | : 220/415 V 50 Hz 6P |                 |                       |           |             |          |
|-----------------------------|----------------------|-----------------|-----------------------|-----------|-------------|----------|
| Rated current : 22.1/11.7 A |                      | Moment o        | Moment of inertia (J) |           |             |          |
| LRC                         | : 4                  | 4.5             | Duty cycle            | ;         | : Cont.(S1) |          |
| Rated torque                | : 4                  | 40.6 ft.lb      | Insulation            | class     | : F         |          |
| Locked rotor torqu          | ie :                 | 160 %           | Service fa            | ctor      | : 1.15      |          |
| Breakdown torque            | e ::                 | 200 %           | Temperati             | ure rise  | : 80 K      |          |
| Rated speed                 | : 9                  | 970 rpm         | Design                |           | : B         |          |
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### Three Phase Induction Motor - Squirrel Cage

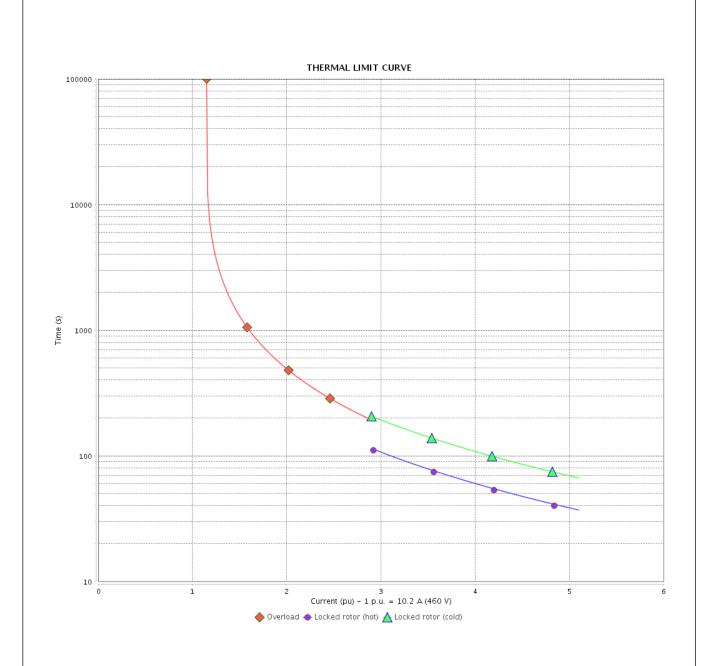


| Customer                            | :          |                              |                          |                |                                |          |
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| Product line                        |            | NEMA Premium Efficiency hase | Three-                   | Product code : | 13248860                       |          |
|                                     | FI         | nase                         |                          | Catalog # :    | 00712OT3E2                     | 54TC-SG  |
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|                                     |            |                              |                          |                |                                |          |
| Performance                         |            | 30/460 V 60 Hz 6P            |                          | 5: (C / D      | 0.00 6.11                      |          |
| Rated current<br>LRC                | : 5.       |                              | Duty cycle               | f inertia (J)  | : 2.00 sq.ft.lb<br>: Cont.(S1) |          |
| Rated torque<br>Locked rotor torque | : 33       | 3.5 ft.lb<br>00 %            | Insulation<br>Service fa | class          | : F<br>: 1.15                  |          |
| Breakdown torque                    |            | 29 %                         | Temperatu                |                | : 80 K                         |          |
| Rated speed                         | : 11       | 175 rpm                      | Design                   |                | : B                            |          |
| Heating constant                    |            |                              |                          |                |                                |          |
| Cooling constant  Rev.              |            | Changes Summary              | 1                        | Performed      | Checked                        | Date     |
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

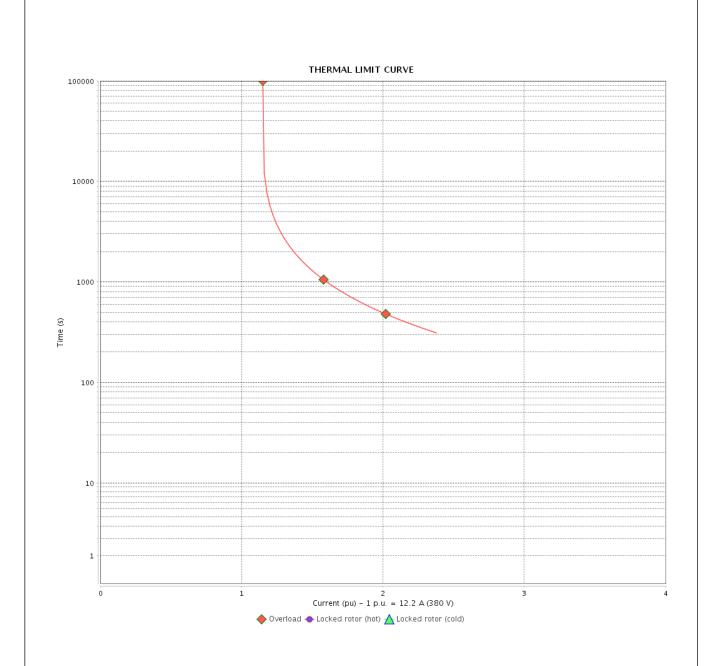


| Customer  |                         | :   |   |                               |  |          |
|---|-------------------------|---|---|-------------------------------|--|----------|
| Product line  |                         | : NEMA Premium Efficiency<br>Phase  |   | Product code :<br>Catalog # : | 13248860<br>00712OT3E2   | 254TC-SG |
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| Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed | :<br>:<br>que :<br>ue : | 190/380 V 50 Hz 6P<br>24.4/12.2 A<br>4.0<br>40.6 ft.lb<br>140 %<br>180 %<br>970 rpm | Moment o<br>Duty cycle<br>Insulation<br>Service fa<br>Temperatu<br>Design | class<br>ctor                 | : 2.00 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K<br>: B |          |
| Heating constan   | t                       |   |   |                               |  |          |
| Cooling constant  |                         | 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

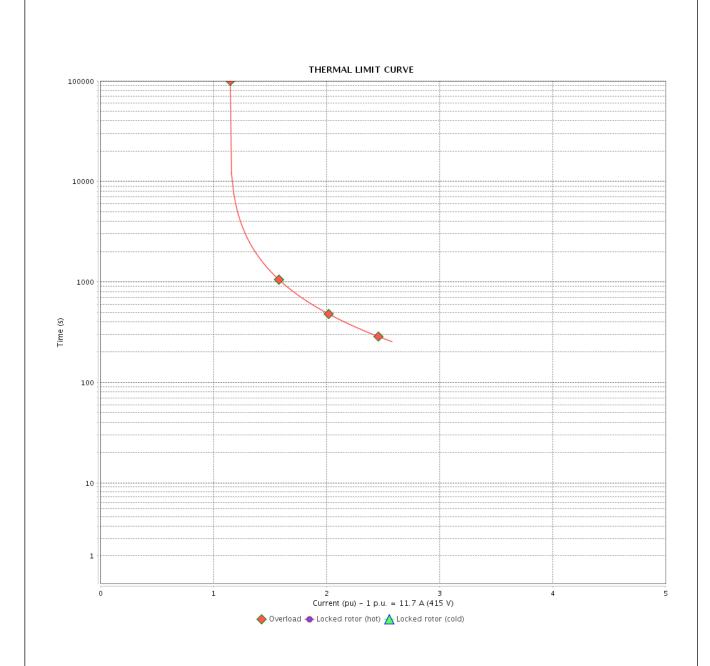


| Customer                             |               | :   |                          |                |                    |          |  |
|--------------------------------------|---------------|---|--------------------------|----------------|--------------------|----------|--|
| Product line                         |               | : NEMA Premium Efficiency Three-<br>Phase |                          | Product code : | 13248860           |          |  |
|                                      |               |   |                          | Catalog # :    | 00712OT3E2         | 641C-SG  |  |
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|                                      |               |   |                          |                |                    |          |  |
|                                      |               |   |                          |                |                    |          |  |
| Performance                          |               | : 220/415 V 50 Hz 6P                      |                          |                |                    |          |  |
| Rated current                        |               | : 22.1/11.7 A                             | Moment of                | of inertia (J) | : 2.00 sq.ft.lb    |          |  |
| LRC<br>Rated torque                  |               | : 4.5<br>: 40.6 ft.lb                     | Duty cycle<br>Insulation |                | : Cont.(S1)<br>: F |          |  |
| Locked rotor tore                    | que           | : 160 %                                   | Service fa               |                | . г<br>: 1.15      |          |  |
| Breakdown torque : 200 %             |               |   | Temperature rise         |                | : 80 K<br>: B      |          |  |
| Rated speed                          |               | : 970 rpm                                 | Design                   |                | . U                |          |  |
| Heating constant<br>Cooling constant |               |   |                          |                |                    |          |  |
| Rev.                                 |               | Changes Summary                           | <u> </u>                 | Performed      | Checked            | Date     |  |
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### Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

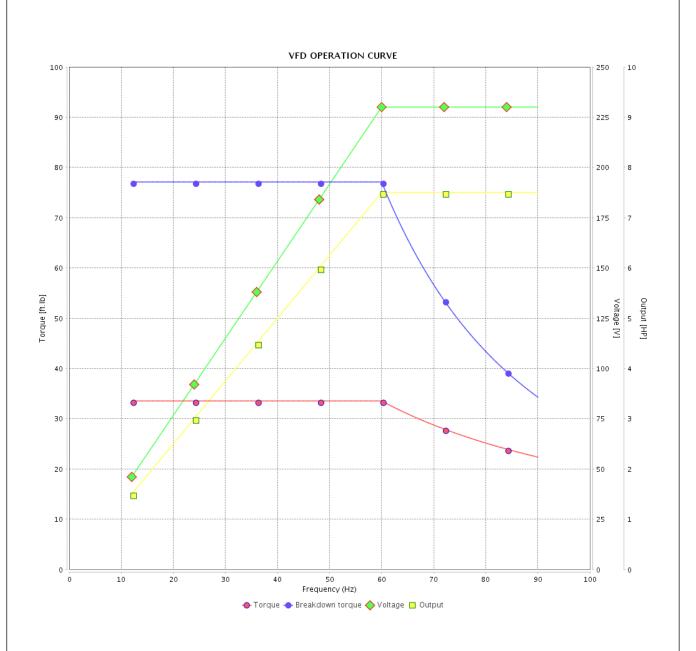
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13248860

Catalog #: 00712OT3E254TC-SG



Performance : 230/460 V 60 Hz 6P : 20.4/10.2 A Rated current Moment of inertia (J) : 2.00 sq.ft.lb : 5.1 **LRC** Duty cycle : Cont.(S1) Insulation class Rated torque : 33.5 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1175 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

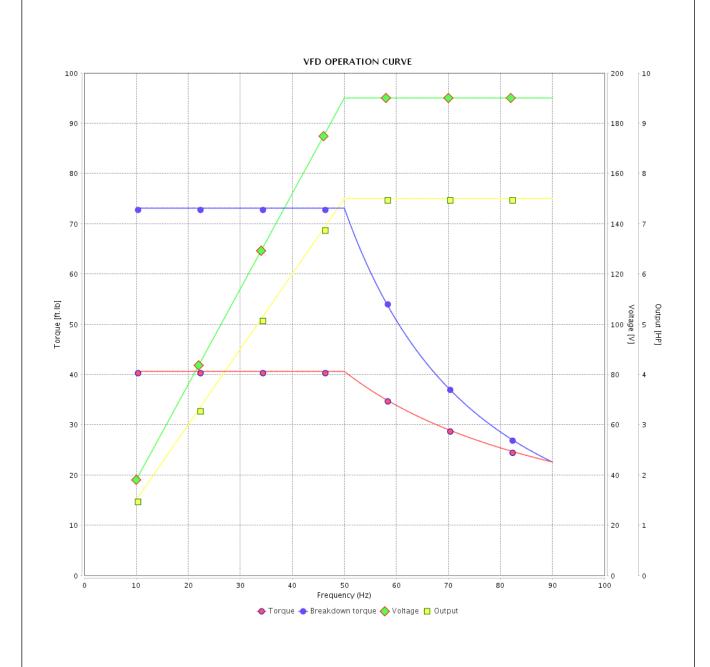


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13248860

Phase

Catalog #: 00712OT3E254TC-SG



| Performance :      |            | 90/380 V 50 Hz 6P   |            |                  |                 |          |
|--------------------|------------|---------------------|------------|------------------|-----------------|----------|
|                    |            | 4.4/12.2 A          | Moment o   | f inertia (J)    | : 2.00 sq.ft.lb |          |
| LRC                |            | 0                   | Duty cycle |                  | : Cont.(S1)     |          |
| Rated torque       | : 40       | 40.6 ft.lb Insulati |            |                  | : F             |          |
| Locked rotor torqu | e : 14     |                     | Service fa | ctor             | : 1.15          |          |
| Breakdown torque   | : 18       |                     | Temperati  | Temperature rise |                 |          |
| Rated speed        | : 9        | : 970 rpm           |            | Design           |                 |          |
| Rev.               |            | Changes Summary     | /          | Performed        | Checked         | Date     |
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### VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

Product line : NEMA Premium Efficiency Three- Product of

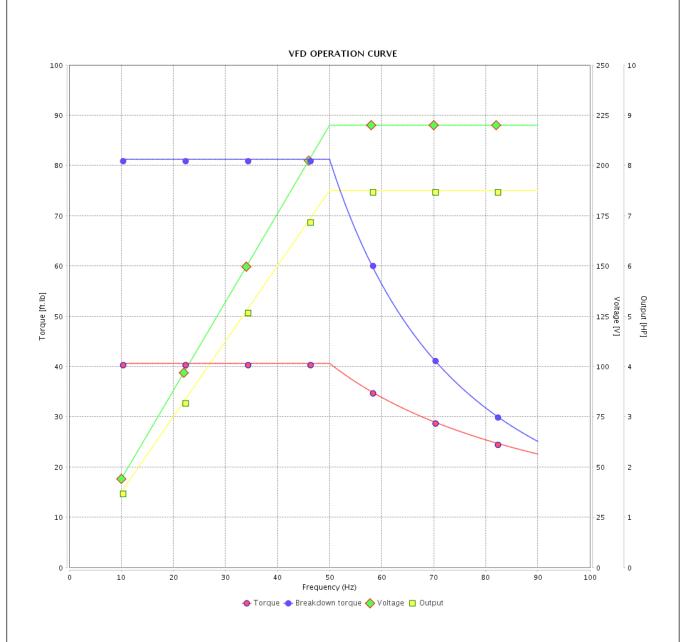
Phase

Product code: 13248860

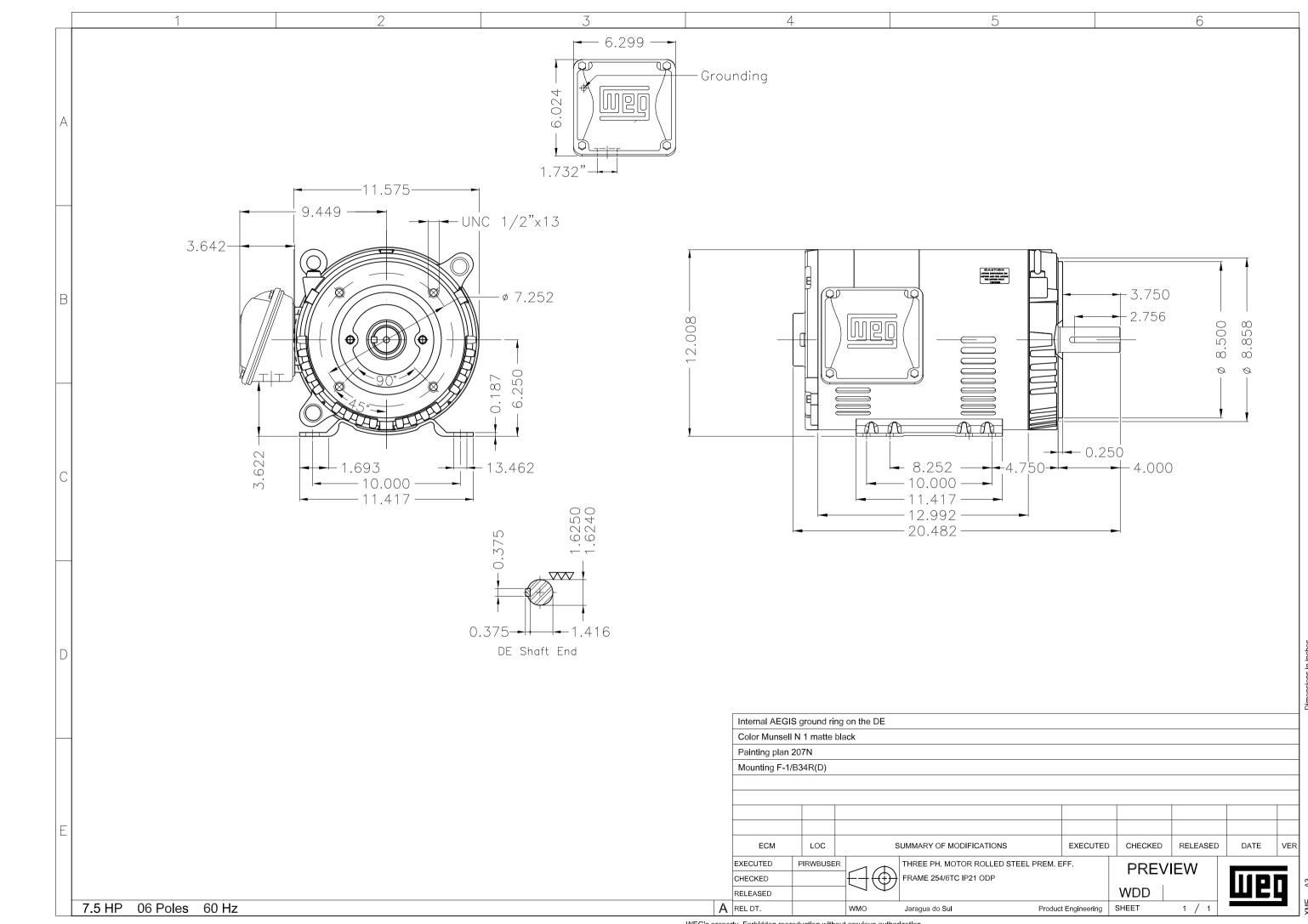
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| Performance   |  | : 220/415 V 50 Hz   | : 6P                                 |  |         |  |  |
|---|--|---|--------------------------------------|--|---------|--|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed |  | : 22.1/11.7 A<br>: 4.5<br>: 40.6 ft.lb<br>: 160 %<br>: 200 %<br>: 970 rpm | Duty of<br>Insula<br>Servic<br>Tempe | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design |         | : 2.00 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K<br>: B |  |
| Rev.  |  | Changes Summary   |                                      | Performed  | Checked | Date   |  |
| Performed by  |  |   |                                      |  |         |  |  |





USABLE @ 208V NEMA NOM.EFF. 7.5HP HP(kW) INS CL F AT ALTERNATE RATING: 254/6TC m.a.s.l. SFA 23.5/11 20.4/10.2 1000 쏦 230/460

0.75 SF 1.15

9

ENCL

0°C CONT 1175 CODE

DES

PUTY 80K AMB

RPM 7.5(5.5)

MODEL 007120T3E254TC-SG

W01.TO0IC0X0N

S/N

22JAN2019

m

9

ř

HIGH 24.4-21.7/12.2-11.5A T12

IEC 60034-1 SF1.15

EFF 88.0% (IE3)

190-220/380-415V

50Hz 970RPM

SF1.00

22.5A 90.2%

T2-WHT T4-YEL T6-GRY T8-RED

13-ORG T1-BLU T5-BLK T7-PNK T114T12

MOT

T9-BRK RED T10-CURRY T11-GRN

T12-VLT

Inverter duty For 60Hz use on VPWM 1000:1 VT, 5:1 CT O LINE WIRES TO REVERSE THE ROTATION

WARNING: Motor must be grounded in accordance with local and nationa 6208-Z-C3 6309-Z-C3 ODE:

MOBIL POLYREX EM electrical codes to prevent serious electrical shocks. Disconnect power AVERTISSEMENT: Le moteur doit être mis à la terre conformément

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

source before servicing unit.

