DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12822412

00218ST3QIER145TC-W2 Catalog #:

Frame : 145TC Cooling method : IC411 - TEFC

Insulation class Mounting : W-6

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Starting method Ambient temperature : Direct On Line Altitude : 1000 m.a.s.l.

Approx. weight³ : 59.6 lb

| Attitude | | . 1000 III.a. | J.I. | / \ppio/ | t. Weigitt | | 0.0 10 | |
|--------------------------|------|---------------|--------------|------------|------------------|--------------|-----------------|-------------|
| Protection degre | е | : IP55 | | Momer | nt of inertia (J |) : 0 |).1561 sq.ft.lb | |
| Design | | : B | | | | | | |
| Output [HP] | | 2 | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 |
| Poles | | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Frequency [Hz] | | 60 | 50 | 50 | 50 | 50 | 50 | 50 |
| Rated voltage [V] | | 460 | 380 | 400 | 415 | 380 | 400 | 415 |
| Rated current [A] | | 2.76 | 2.57 | 2.57 | 2.56 | 3.33 | 3.22 | 3.14 |
| L. R. Amperes [A] | | 22.9 | 21.1 | 22.4 | 21.5 | 20.0 | 21.3 | 22.9 |
| LRC [A] | | 8.3x(Code L) | 8.2x(Code L) | 8.7x(Code | 8.4x(Code | 6.0x(Code H) | 6.6x(Code J) | 7.3x(Code K |
| | | | | M) | M) | | | |
| No load current [A |] | 1.63 | 1.61 | 1.80 | 1.97 | 1.61 | 1.80 | 1.97 |
| Rated speed [RPM] | | 1750 | 1460 | 1465 | 1465 | 1435 | 1440 | 1450 |
| Slip [%] | | 2.78 | 2.67 | 2.33 | 2.33 | 4.33 | 4.00 | 3.33 |
| Rated torque [ft.lb] | | 6.00 | 5.40 | 5.38 | 5.38 | 7.32 | 7.29 | 7.24 |
| Locked rotor torque [%] | | 270 | 290 | 320 | 350 | 220 | 229 | 250 |
| Breakdown torque | [%] | 320 | 330 | 380 | 409 | 240 | 260 | 290 |
| Service factor | | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 |
| Temperature rise | | 80 K | 80 K | 80 K | 80 K | 80 K | 80 K | 80 K |
| Locked rotor time | | 23s (cold) | 32s (cold) | 28s (cold) | 27s (cold) | 23s (cold) | 21s (cold) | 21s (cold) |
| | | 13s (hot) | 18s (hot) | 16s (hot) | 15s (hot) | 13s (hot) | 12s (hot) | 12s (hot) |
| Noise level ² | | 51.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) |
| | 25% | 85.2 | 83.5 | 80.9 | 80.3 | 86.7 | 83.7 | 83.8 |
| Efficiency (9/) | 50% | | 84.0 | 82.0 | 81.4 | 85.5 | 84.0 | 84.0 |
| Efficiency (%) | 75% | 86.5 | 84.2 | 83.5 | 83.1 | 84.0 | 84.0 | 84.0 |
| 100% | | 86.5 | 84.5 | 84.5 | 84.1 | 82.5 | 84.0 | 84.0 |
| 25% | | 0.32 | 0.31 | 0.27 | 0.25 | 0.39 | 0.35 | 0.32 |
| Power Factor | 50% | | 0.55 | 0.50 | 0.47 | 0.66 | 0.62 | 0.60 |
| Fower Factor | 75% | 0.70 | 0.69 | 0.64 | 0.61 | 0.78 | 0.74 | 0.72 |
| | 100% | 0.79 | 0.77 | 0.73 | 0.71 | 0.83 | 0.80 | 0.79 |

Drive end Non drive end Foundation loads

Bearing type 6205 C3 6204 C3 Max. traction : 153 lb Sealing Inpro/Seal Inpro/Seal Max. compression : 213 lb 20000 h Lubrication interval 20000 h

Lubricant amount 4 g 4 g

Mobil Polyrex EM Lubricant type

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 |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 1 / 36 | |

Three Phase Induction Motor - Squirrel Cage



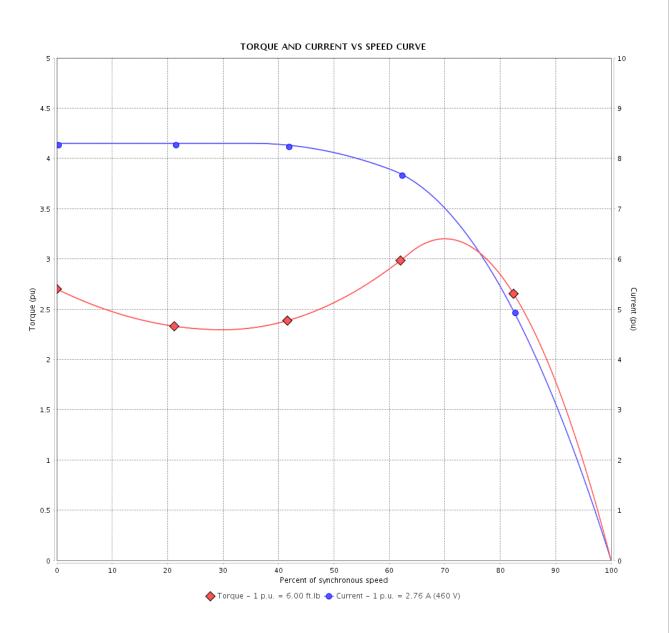
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12822412

Catalog #: 00218ST3QIER145TC-W2



Performance : 460 V 60 Hz 4P Rated current : 2.76 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : F : 6.00 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.25 : 320 % Breakdown torque Temperature rise : 80 K Rated speed : 1750 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 2 / 36 | |



Revision

Page

3/36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12822412 Catalog #: 00218ST3QIER145TC-W2 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.40 ft.lb ◆ Current - 1 p.u. = 2.57 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 5.40 ft.lb : 290 % Locked rotor torque Service factor : 1.25 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Date Rev. Performed Checked **Changes Summary**

Performed by Checked by

Date

14/04/2022

Three Phase Induction Motor - Squirrel Cage



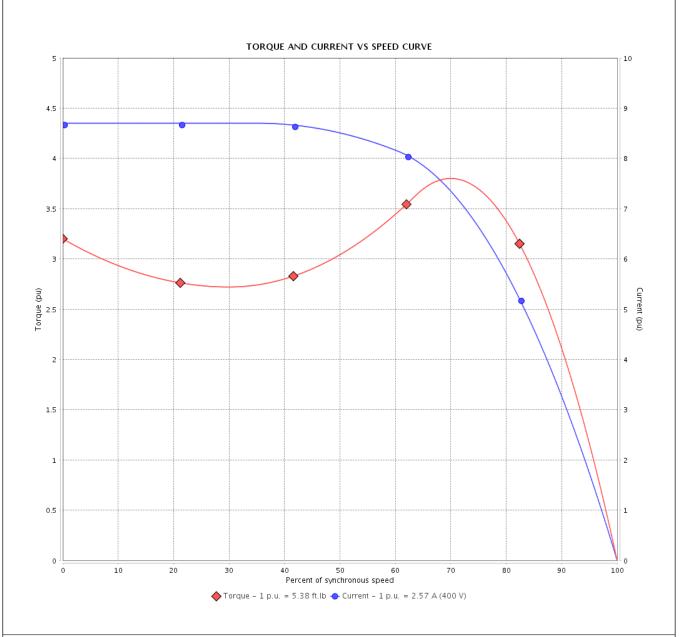
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 12822412

Catalog #: 00218ST3QIER145TC-W2



Performance : 400 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) : F : 5.38 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 320 % : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 4 / 36 | |



Revision

Page

5/36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12822412 Catalog #: 00218ST3QIER145TC-W2 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.38 ft.lb ◆ Current - 1 p.u. = 2.56 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 2.56 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 5.38 ft.lb Insulation class : F Rated torque : 350 % Locked rotor torque Service factor : 1.25 Breakdown torque : 409 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Date Rev. Performed Checked **Changes Summary**

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A. Subject to change without notice

Performed by Checked by

Date

14/04/2022

Three Phase Induction Motor - Squirrel Cage

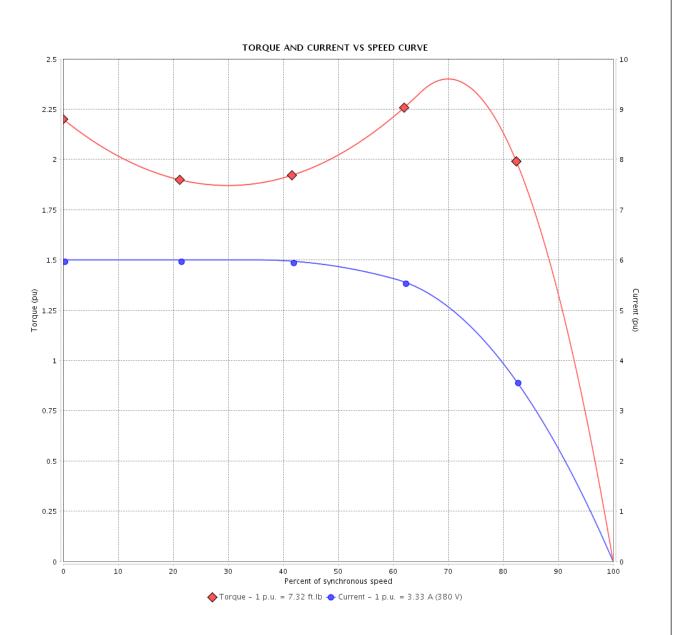


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00218ST3QIER145TC-W2

12822412



Performance : 380 V 50 Hz 4P IE1 Rated current : 3.33 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 7.32 ft.lb Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1435 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

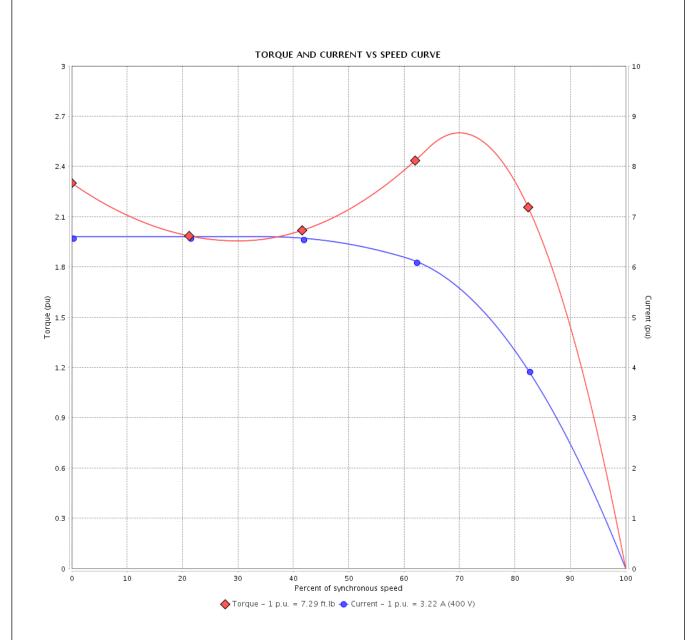
| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 6 / 36 | |

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12822412

> Catalog #: 00218ST3QIER145TC-W2



| Performance | : 400 V 50 Hz 4P IE2 | | |
|---------------------|------------------------|-----------------------|-------------------|
| Rated current | : 3.22 A | Moment of inertia (J) | : 0.1561 sq.ft.lb |
| LRC | : 6.6 | Duty cycle | : Cont.(S1) |
| Rated torque | : 7.29 ft.lb | Insulation class | :F |
| Locked rotor torque | : 229 % | Service factor | : 1.25 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1440 rpm | Design | : B |
| Locked rotor time | : 21s (cold) 12s (hot) | | <u> </u> |

| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 7 / 36 | |

Three Phase Induction Motor - Squirrel Cage



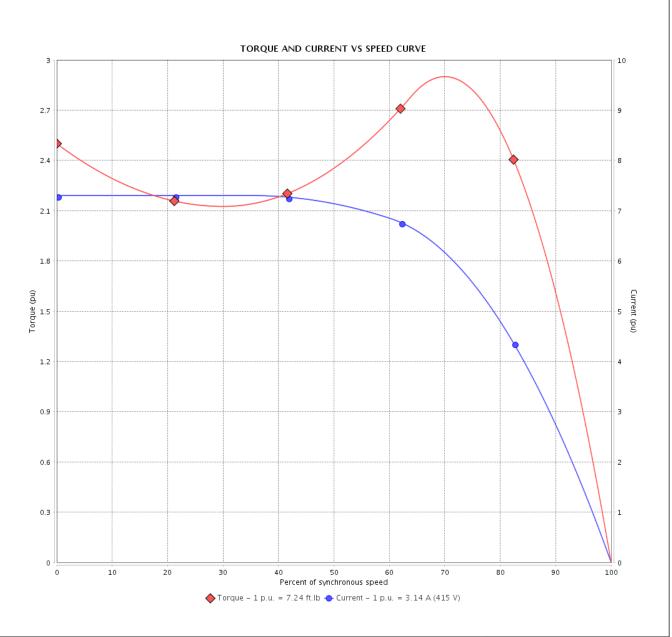
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12822412

Catalog #: 00218ST3QIER145TC-W2



Performance : 415 V 50 Hz 4P IE2 Rated current : 3.14 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.24 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

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

| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 8 / 36 | |

Three Phase Induction Motor - Squirrel Cage

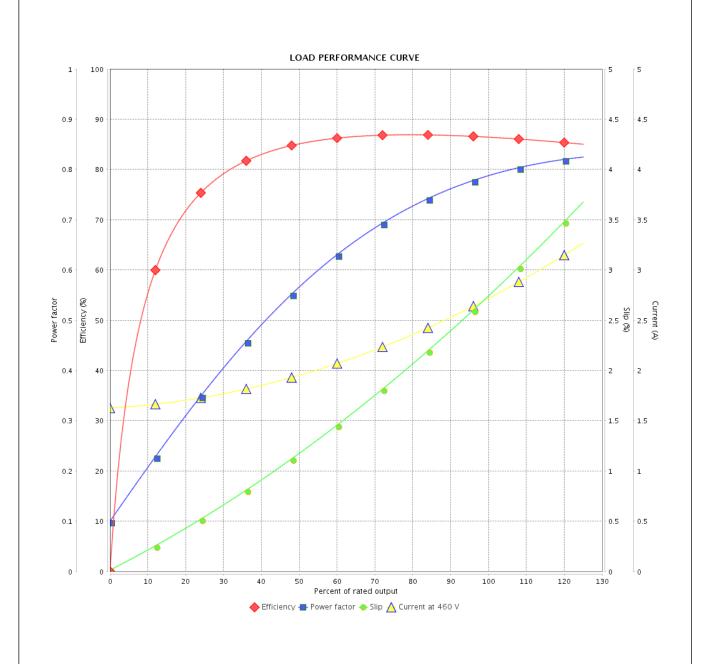


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12822412

Phase

Catalog #: 00218ST3QIER145TC-W2



| Performance | : 4 | 460 V 60 Hz 4P | | | | |
|--------------------|---------------------------|----------------|------------|---------------|-------------------|----------|
| Rated current | ated current : 2.76 A Mom | | Moment o | f inertia (J) | : 0.1561 sq.ft.lb | |
| LRC | : 8 | 8.3 | Duty cycle |) | : Cont.(S1) | |
| Rated torque | : (| 6.00 ft.lb | Insulation | class | : F | |
| Locked rotor torqu | ie : : | 270 % | Service fa | ctor | : 1.25 | |
| Breakdown torque | :: | 320 % | Temperati | ıre rise | : 80 K | |
| Rated speed | : | 1750 rpm | Design | | : B | |
| Rev. | | Changes Summa | ry | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 14/04/2022 | | | | 9 / 36 | |

Three Phase Induction Motor - Squirrel Cage



Customer :

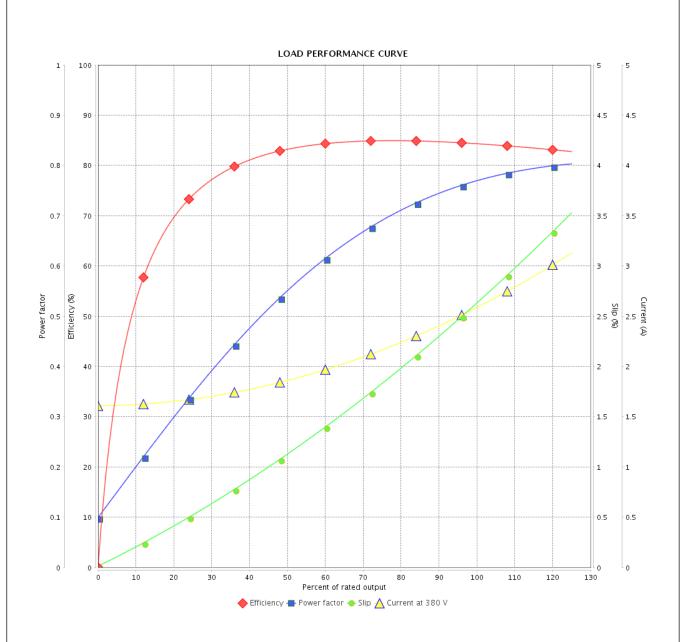
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12822412

Catalog #: 00218ST3QIER145TC-W2

10/36



| Performance | : 380 V 50 Hz 4P IE3 | | | | |
|--|---|--|---------------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 2.57 A : 8.2 : 5.40 ft.lb : 290 % : 330 % : 1460 rpm | Moment of Duty cycle Insulation Service fa Temperate Design | class ctor | : 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B | lb |
| Rev. | Changes Summary | <u> </u> | Performed | Checked | Date |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

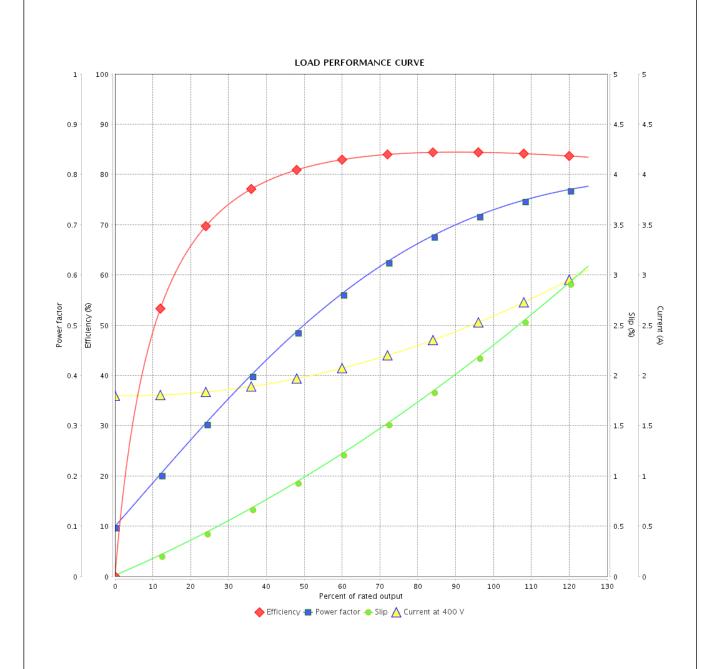


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12822412

Phase

Catalog #: 00218ST3QIER145TC-W2



| Performance | : • | 400 V 50 Hz 4P IE3 | | | | |
|--------------------|----------------------------|--------------------|------------|---------------|-------------------|----------|
| Rated current | ated current : 2.57 A Mome | | Moment o | f inertia (J) | : 0.1561 sq.ft.lb | |
| LRC | : : | 8.7 | Duty cycle |) | : Cont.(S1) | |
| Rated torque | : : | 5.38 ft.lb | Insulation | class | : F | |
| Locked rotor torqu | ie : | 320 % | Service fa | ctor | : 1.25 | |
| Breakdown torque | :: | 380 % | Temperati | ıre rise | : 80 K | |
| Rated speed | : | 1465 rpm | Design | | : B | |
| Rev. | | Changes Summar | ry | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 14/04/2022 | | | | 11 / 36 | |

Three Phase Induction Motor - Squirrel Cage



Customer :

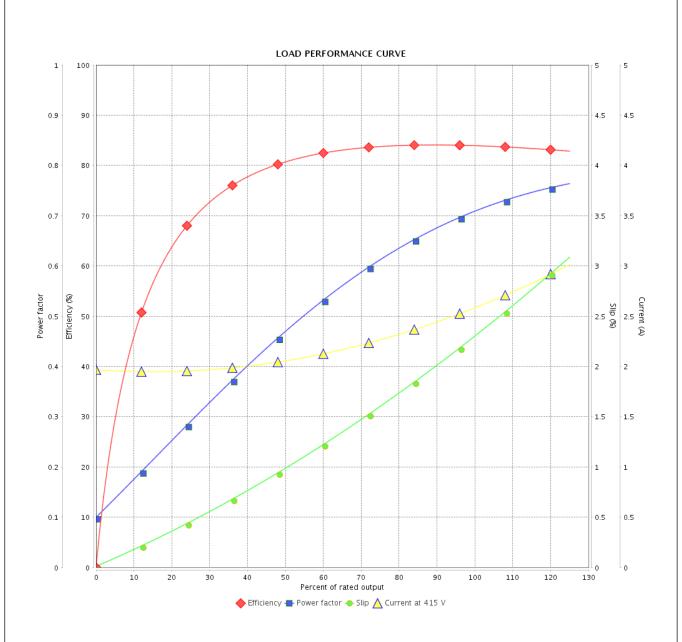
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12822412

Catalog #: 00218ST3QIER145TC-W2

12/36



| Performance | : 415 V 50 Hz 4P IE3 | | | | |
|-------------------------------------|--|----------------------------------|------------------|----------------------------------|----------|
| Rated current LRC | : 2.56 A : 8.4 | Moment of inertia (J) Duty cycle | | : 0.1561 sq.ft.lb : Cont.(S1) | |
| Rated torque Locked rotor torque | : 5.38 ft.lb Insulation class Service factor | | Insulation class | | |
| Breakdown torque Rated speed | : 409 % : 1465 rpm | Temperatu Design | ıre rise | : 80 K : B | |
| Rev. | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |

14/04/2022

Date

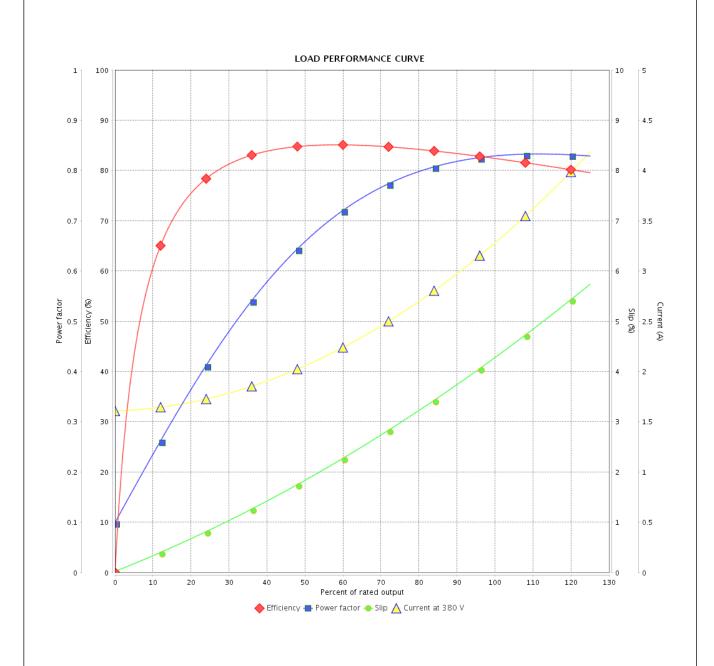
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12822412

Catalog #: 00218ST3QIER145TC-W2



| Performance | : 3 | 30 V 50 Hz 4P IE1 | | | | |
|--------------------------|------------|--------------------|------------------|------------------------------|-------------|----------|
| Rated current | : 3 | 3.33 A Moment of i | | oment of inertia (J) : 0.156 | | .lb |
| LRC | : 6 | .0 | Duty cycle | | : Cont.(S1) | |
| Rated torque | : 7 | .32 ft.lb | Insulation class | | : F | |
| Locked rotor tord | que : 2 | 20 % | Service factor | | : 1.25 | |
| Breakdown torque : 240 % | | Temperati | Temperature rise | | | |
| Rated speed | : 1 | 435 rpm | Design | | : B | |
| Rev. | | Changes Summary | 1 | Performed | Checked | Date |
| | | | | | | |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 14/04/2022 | | | | 13 / 36 | |

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

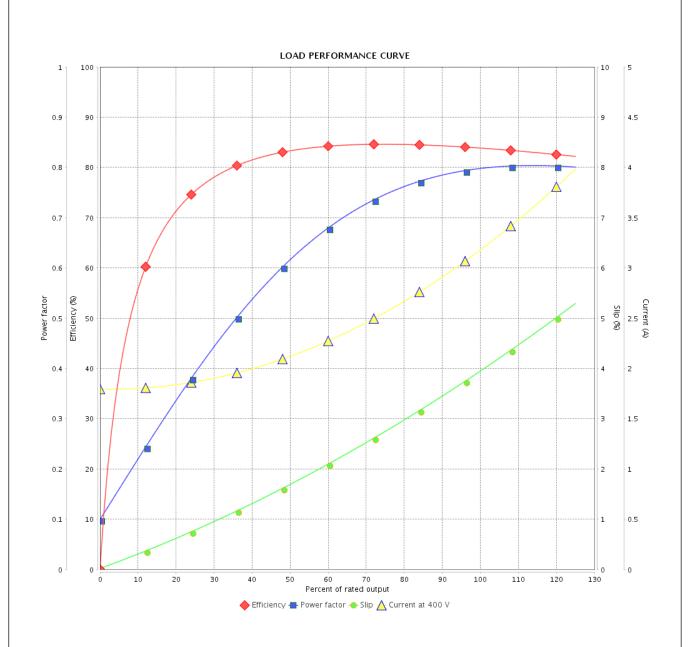
Catalog #: 00218ST3QIER145TC-W2

Page

14/36

Revision

12822412



Performance : 400 V 50 Hz 4P IE2 Rated current : 3.22 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 7.29 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

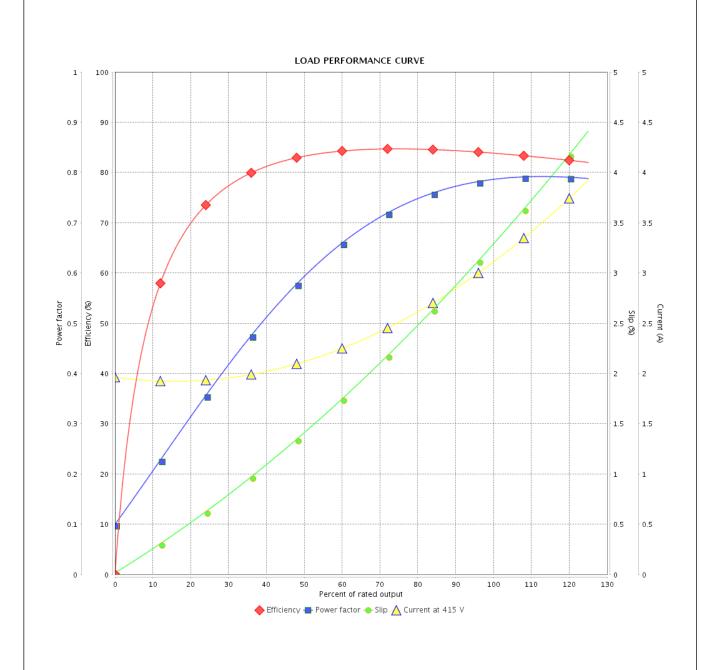


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12822412

Phase

Catalog #: 00218ST3QIER145TC-W2



| Performance | : 415 V 50 Hz 4P IE2 | | | | | |
|---------------------|-----------------------|-----------------|------------------|---------------|-------------------|----------|
| Rated current | ated current : 3.14 A | | Moment o | f inertia (J) | : 0.1561 sq.ft.lb | |
| LRC | : | 7.3 | Duty cycle | ; | : Cont.(S1) | |
| Rated torque | : | 7.24 ft.lb | Insulation class | | : F | |
| Locked rotor torque | e : | 250 % | Service factor | | : 1.25 | |
| Breakdown torque | | 290 % | Temperati | ıre rise | : 80 K | |
| Rated speed | : | 1450 rpm | Design | | : B | |
| Rev. | | Changes Summary | l | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 14/04/2022 | | | | 15 / 36 | |

Three Phase Induction Motor - Squirrel Cage

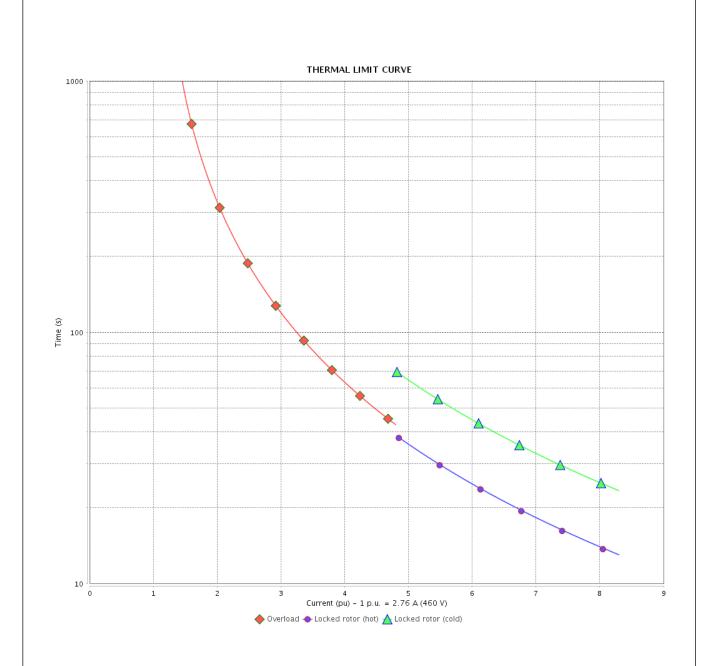


| | | | | - | |
|-----------------------------------|------------------------------------|----------------------------|--------------|----------------------------------|--------------|
| Customer | : | | | | |
| Product line | : NEMA Premium Efficiency Phase | | oduct code : | 12822412 | ED445TO 14/2 |
| | | Ca | talog # : | 00218ST3QII | ER145TC-W2 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Performance | : 460 V 60 Hz 4P | Married | | .0.4504 6 " | <u>.</u> |
| Rated current LRC | : 2.76 A : 8.3 | Moment of in Duty cycle | iertia (J) | : 0.1561 sq.ft.ll : Cont.(S1) | D |
| Rated torque | : 6.00 ft.lb | Insulation cla | | : F | |
| Locked rotor torque | : 270 % | Service facto | | : 1.25 | |
| Breakdown torque Rated speed | : 320 % : 1750 rpm | Temperature Design | rise | : 80 K : B | |
| | <u> </u> | | | | |
| Heating constant Cooling constant | | | | | |
| Rev. | Changes Summary | | Performed | Checked | Date |
| | 2900 00 | | 2334 | 25554 | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Data 14/04/20 | 222 | | | 16/36 | |

Three Phase Induction Motor - Squirrel Cage



Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 17 / 36 | |

Three Phase Induction Motor - Squirrel Cage

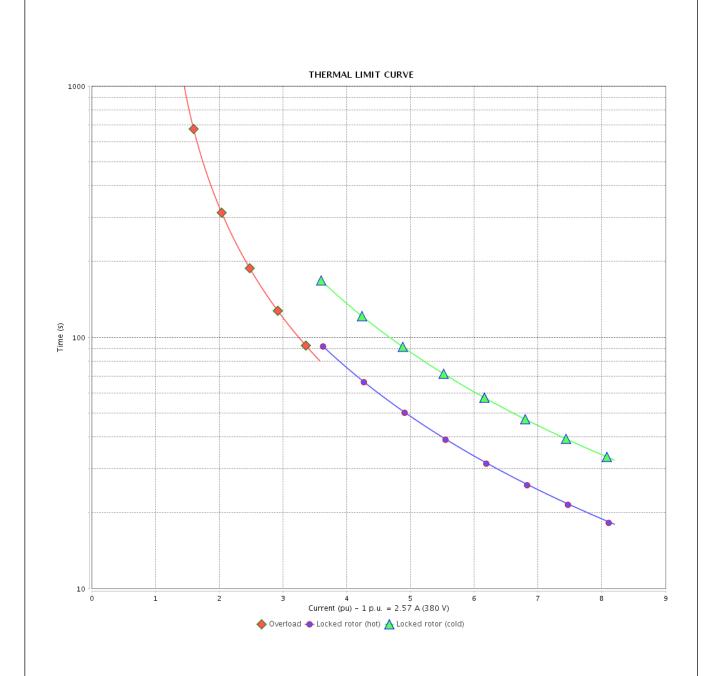


| Customer | : | | | | | |
|---|---------------|---------------------------------|-------------------------|----------------|---------------------------------|------------|
| | | | | | | |
| Product line | | NEMA Premium Efficiency hase | y Three- | Product code : | 12822412 | |
| | 11 | liase | | Catalog # : | 00218ST3QI | ER145TC-W2 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Performance | | 30 V 50 Hz 4P IE3 | Momant - | finartia (I) | . 0 4504 #1 | h |
| Rated current LRC | : 8. | | Duty cycle | f inertia (J) | : 0.1561 sq.ft.l : Cont.(S1) | n |
| Rated torque | | 40 ft.lb 90 % | Insulation | class | : F | |
| Locked rotor torque Breakdown torque | | 90 % 30 % | Service fa Temperatu | | : 1.25 : 80 K | |
| Rated speed | | 160 rpm | Design | | : B | |
| Heating constant | | | | | | |
| Cooling constant | | Changes Commit | | Derf | Ohl ! | Dete |
| Rev. | | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| 5 | 4.4/0.4/0.000 | - | | | 10/00 | |

Three Phase Induction Motor - Squirrel Cage



Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| Performed by | | | | | |
| Checked by | | _ | | Page | Revision |
| Date | 14/04/2022 | | | 19 / 36 | |

Three Phase Induction Motor - Squirrel Cage

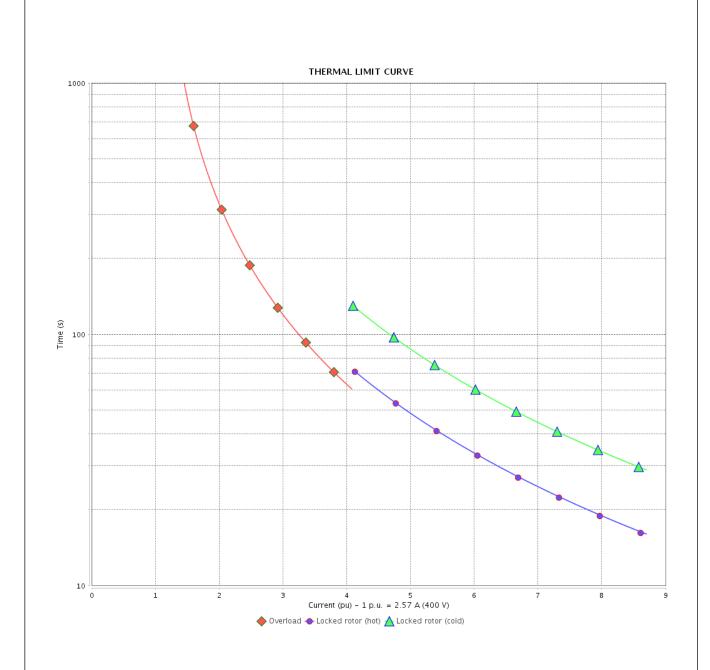


| Customer | : | | | | | |
|---|---------------|-------------------------|-------------------------|----------------|---------------------------------|------------|
| | | | | | | |
| Product line | | NEMA Premium Efficiency | Three- | Product code : | 12822412 | |
| | Pi | hase | | Catalog # : | 00218ST3QI | ER145TC-W2 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Performance | | 00 V 50 Hz 4P IE3 | 1 | | | |
| Rated current LRC | : 2. : 8. | 57 A 7 | Moment o | f inertia (J) | : 0.1561 sq.ft.l : Cont.(S1) | b |
| Rated torque | : 5. | 38 ft.lb | Insulation | class | : F | |
| Locked rotor torque Breakdown torque | | 20 % 30 % | Service fa Temperatu | | : 1.25 : 80 K | |
| Rated speed | | 465 rpm | Design | J | : B | |
| Heating constant | | | | | | |
| Cooling constant | | 01 0 | | - D () | 0 | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | - | | | Page | Revision |
| - · | 4.4/0.4/0.000 | 1 | | | 00 (00 | |

Three Phase Induction Motor - Squirrel Cage



Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 21 / 36 | |

Three Phase Induction Motor - Squirrel Cage

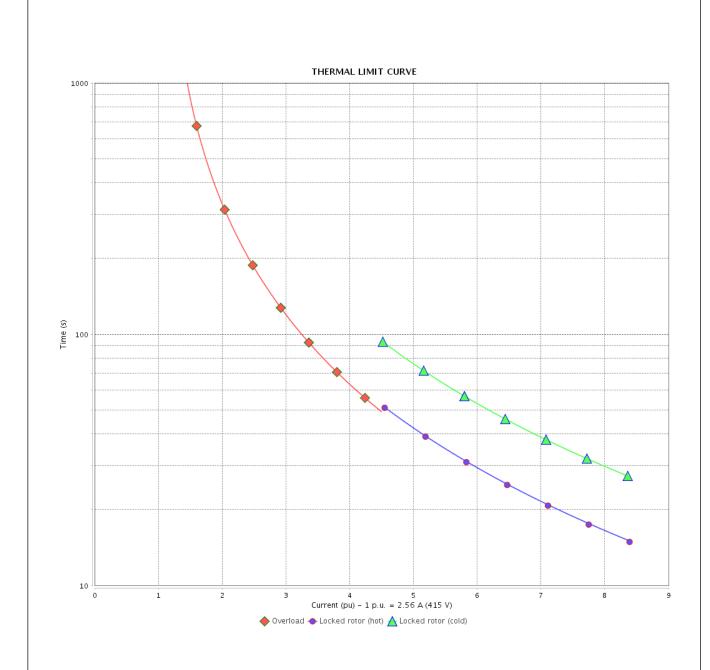


| Customer | | : | | | | |
|--------------------------------|------------|---------------------------|----------------------|----------------|----------------------------------|--------------|
| Product line | | : NEMA Premium Efficiency | Three- | Product code : | 12822412 | |
| | | Phase | | Catalog # : | | ER145TC-W2 |
| | | | | Catalog # . | 00210313Q11 | LICI4310-VV2 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Performance | | : 415 V 50 Hz 4P IE3 | ı | | | |
| Rated current LRC | | : 2.56 A : 8.4 | Moment of Duty cycle | of inertia (J) | : 0.1561 sq.ft.ll : Cont.(S1) | b |
| Rated torque | | : 5.38 ft.lb | Insulation | | : F | |
| Locked rotor tord | | : 350 % | Service fa | | : 1.25 | |
| Breakdown torqu Rated speed | | : 409 % : 1465 rpm | Temperat Design | ure rise | : 80 K : B | |
| Heating constan | | 1 | - 3 | | | |
| Cooling constant | | | | | | |
| Rev. | - | Changes Summary | <u> </u> | Performed | Checked | Date |
| | | · | | | | |
| Performed by | | | | | 1 | |
| Checked by | | | | | Page | Revision |
| Date | 14/04/2022 | | | | 22 / 36 | |

Three Phase Induction Motor - Squirrel Cage



Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | 1 |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 23 / 36 | |

Three Phase Induction Motor - Squirrel Cage

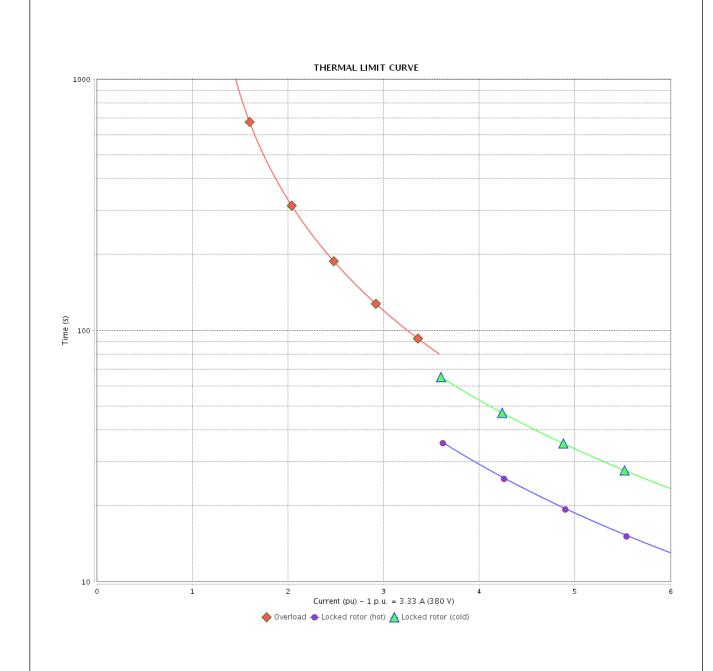


| Customer | | : | | | | |
|---|-----------------|---|---|----------------|---|------------|
| Product line | | : NEMA Premium Efficiency ¹ Phase | | Product code : | 12822412 00218ST3QI | ER145TC-W2 |
| | | | | | | |
| Performance | : | 380 V 50 Hz 4P IE1 | | | | |
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed | : : que : | 3.33 A 6.0 7.32 ft.lb 220 % 240 % 1435 rpm | Moment o Duty cycle Insulation Service fa Temperatu Design | class ctor | : 0.1561 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B | b |
| Heating constan | t | | - | | | |
| Rev. | - | Changes Summary | | Performed | Checked | Date |
| Performed by Checked by | | | | | Page | Revision |
| Date | 14/04/2022 | | | | 24 / 36 | |

Three Phase Induction Motor - Squirrel Cage



Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 25 / 36 | |

Three Phase Induction Motor - Squirrel Cage

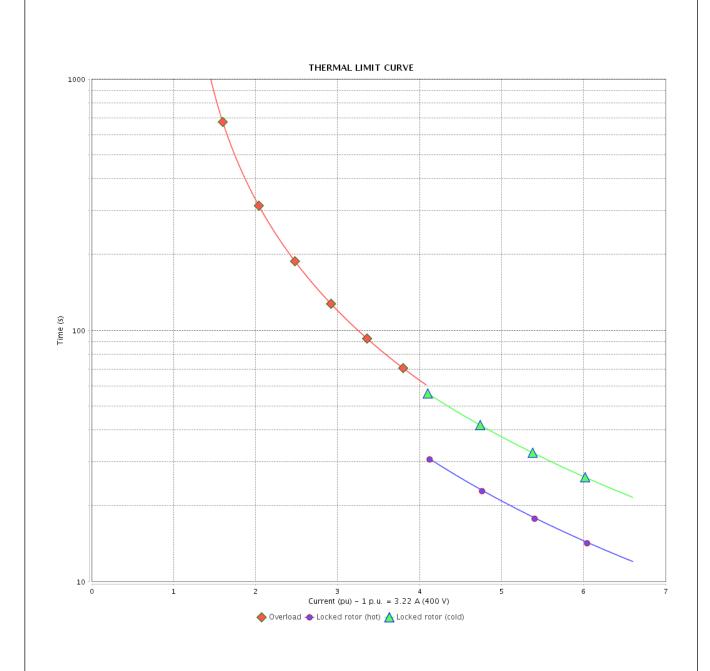


| Customer | | : | | | | |
|---|----------------------|---|---|----------------|--|------------|
| Product line | | : NEMA Premium Efficiency [*] Phase | | Product code : | 12822412 00218ST3QI | ER145TC-W2 |
| | | | | | | |
| Performance Rated current LRC Rated torque Locked rotor torc Breakdown torque | : : : que : | 400 V 50 Hz 4P IE2 3.22 A 6.6 7.29 ft.lb 229 % 260 % | Duty cycle Insulation Service fa Temperatu | class ctor | : 0.1561 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K | b |
| Rated speed Heating constant Cooling constant Rev. | t | 1440 rpm Changes Summary | Design | Performed | : B | Date |
| Performed by Checked by Date | 14/04/2022 | | | | Page 26 / 36 | Revision |

Three Phase Induction Motor - Squirrel Cage



Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 27 / 36 | |

Three Phase Induction Motor - Squirrel Cage

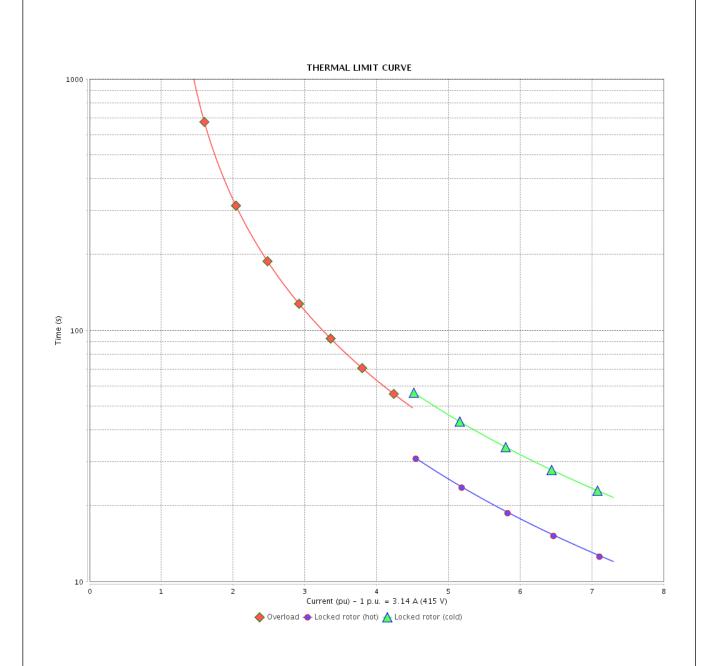


| Customer | | : | | | | |
|--------------------------------------|------------|----------------------------------|--------------------------|----------------|-------------------|------------|
| Product line | | : NEMA Premium Efficiency | Three- | Product code : | 12822412 | |
| | | Phase | | Catalog # : | 00218ST3QII | ER145TC-W2 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| . . | | 445.7/50.11 40.150 | | | | |
| Performance Rated current | | : 415 V 50 Hz 4P IE2 : 3.14 A | Momont | of inertia (J) | : 0.1561 sq.ft.ll | h |
| LRC | | : 7.3 | Duty cycle | е | : Cont.(S1) | S |
| Rated torque | | : 7.24 ft.lb : 250 % | Insulation Service fa | | : F : 1.25 | |
| Locked rotor tord Breakdown torqu | | . 290 % : 290 % | Temperat | | : 80 K | |
| Rated speed | | : 1450 rpm | Design | | : B | |
| Heating constant | t | | | | | |
| Cooling constant | t | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
| Dorformed by | | | | | | |
| Performed by | | | | | Dogo | Revision |
| Checked by | 14/04/2022 | | | | Page 28 / 36 | I/EAI9IO[] |

Three Phase Induction Motor - Squirrel Cage



Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/04/2022 | | | 29 / 36 | |

Three Phase Induction Motor - Squirrel Cage



Customer :

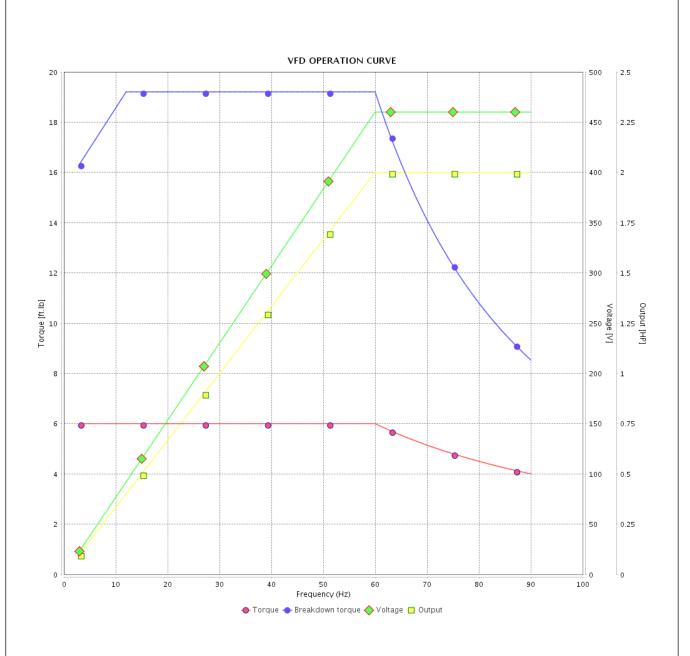
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12822412

Catalog #: 00218ST3QIER145TC-W2

30 / 36



| Performance | : 46 | 60 V 60 Hz 4P | | | | |
|---|------|--|--|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | | 76 A 3 00 ft.lb 70 % 20 % 750 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
| | | | | | | |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer

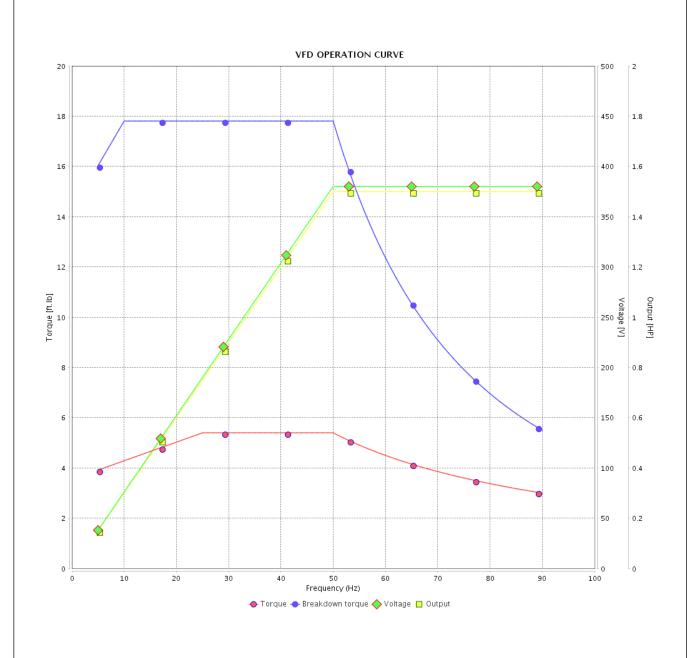
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00218ST3QIER145TC-W2

31 / 36

12822412



| Performance | : 380 V 50 Hz 4P IE3 | | | | |
|--|---|--|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 2.57 A : 8.2 : 5.40 ft.lb : 290 % : 330 % : 1460 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B | |
| Rev. | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | |
| Checked by | | | | Page | Revisior |

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

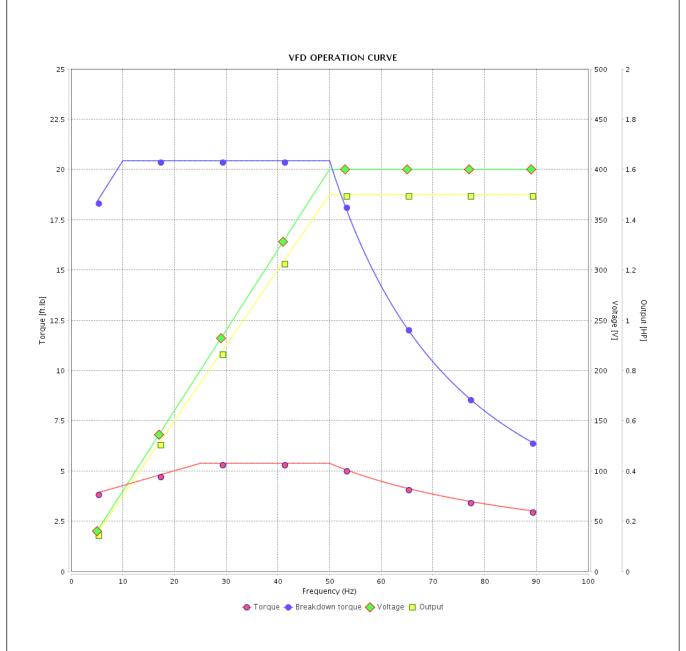
Product code: 12822412

Catalog #: 00218ST3QIER145TC-W2

Page

32 / 36

Revision



Performance : 400 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.38 ft.lb : F Locked rotor torque : 320 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

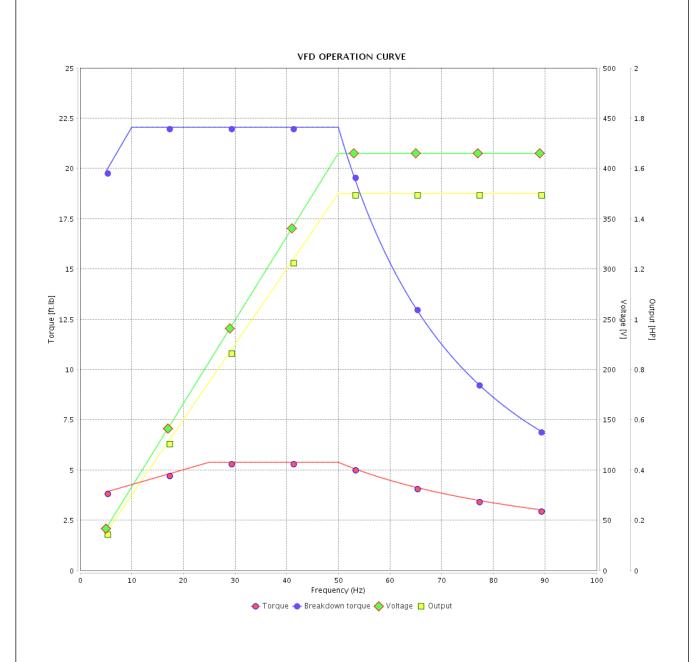


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12822412

Phase

Catalog #: 00218ST3QIER145TC-W2



| Performance | : 4 | : 415 V 50 Hz 4P IE3 | | | | |
|------------------------|-----------------------------------|----------------------|------------|---------------|-------------------|----------|
| Rated current : 2.56 A | | .56 A | Moment o | f inertia (J) | : 0.1561 sq.ft.lb | |
| LRC | : 8 | .4 | Duty cycle | | : Cont.(S1) | |
| Rated torque | : 5 | .38 ft.lb | Insulation | class | : F | |
| Locked rotor torqu | ie : 3 | 50 % | Service fa | ctor | : 1.25 | |
| Breakdown torque | n torque : 409 % Temperature rise | | ıre rise | : 80 K | | |
| Rated speed | : 1 | 465 rpm | Design | | : B | |
| Rev. | | Changes Summa | ry | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 14/04/2022 | 7 | | | 33 / 36 | |

Three Phase Induction Motor - Squirrel Cage



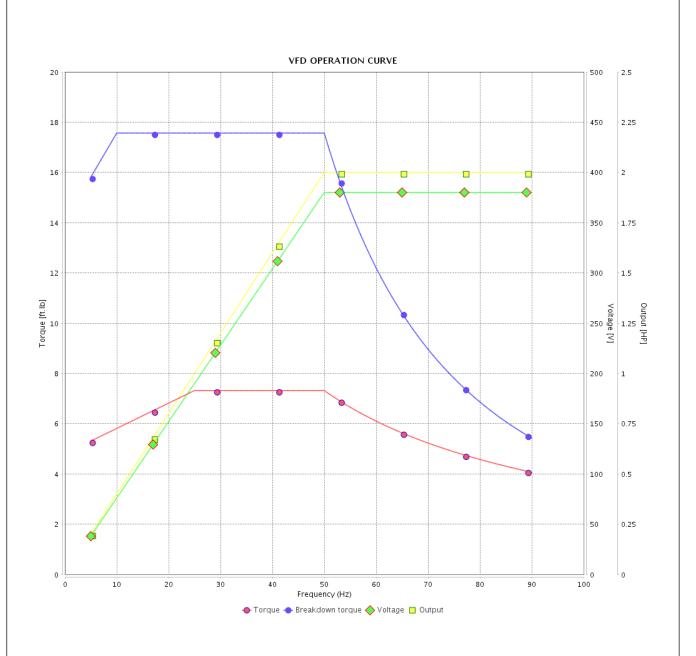
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00218ST3QIER145TC-W2

12822412



| Performance | : 3 | 80 V 50 Hz 4P IE1 | | | | |
|-------------------|------------|-------------------|------------------|-----------------------|-------------|----------|
| Rated current | t : 3.33 A | | Moment of | Moment of inertia (J) | | .lb |
| LRC | : 6 | 5.0 | Duty cycle | e ` ´ | : Cont.(S1) | |
| Rated torque | : 7 | .32 ft.lb | Insulation class | | : F | |
| Locked rotor torq | ue : 2 | 20 % | Service fa | Service factor | | |
| Breakdown torqu | e : 2 | 40 % | Temperature rise | | : 80 K | |
| Rated speed | : 1 | 435 rpm | Design | | : B | |
| Rev. Changes | | Changes Summa | ry | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | _ | | | Page | Revision |
| Date | 14/04/2022 | | | | 34 / 36 | |

Three Phase Induction Motor - Squirrel Cage

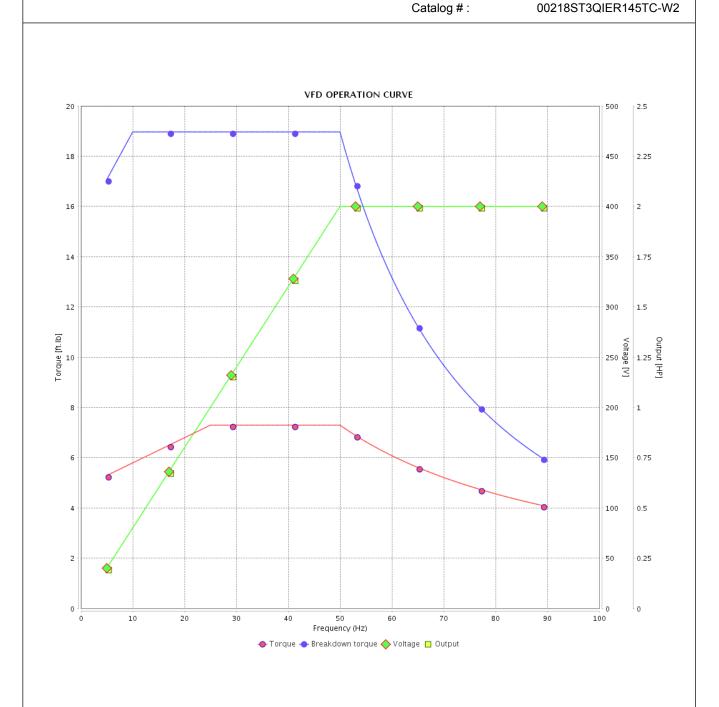


Customer

Product line : NEMA Premium Efficiency Three-Product code:

00218ST3QIER145TC-W2

12822412



| Performance | : 4 | 00 V 50 Hz 4P IE2 | | | | |
|------------------------|------------|-------------------|-----------------------|---------|-------------|----------|
| Rated current : 3.22 A | | Moment o | Moment of inertia (J) | | .lb | |
| LRC | : 6 | .6 | Duty cycle | ; · · | : Cont.(S1) | |
| Rated torque | : 7 | .29 ft.lb | Insulation | class | : F | |
| Locked rotor torq | ue : 2 | 29 % | Service fa | ctor | : 1.25 | |
| Breakdown torque | · | | ture rise : 80 K | | | |
| Rated speed | : 1 | 440 rpm | Design | | : B | |
| Rev. Changes Summary | | | Performed | Checked | Date | |
| | | | | | | |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 14/04/2022 | | | | 35 / 36 | |

Three Phase Induction Motor - Squirrel Cage



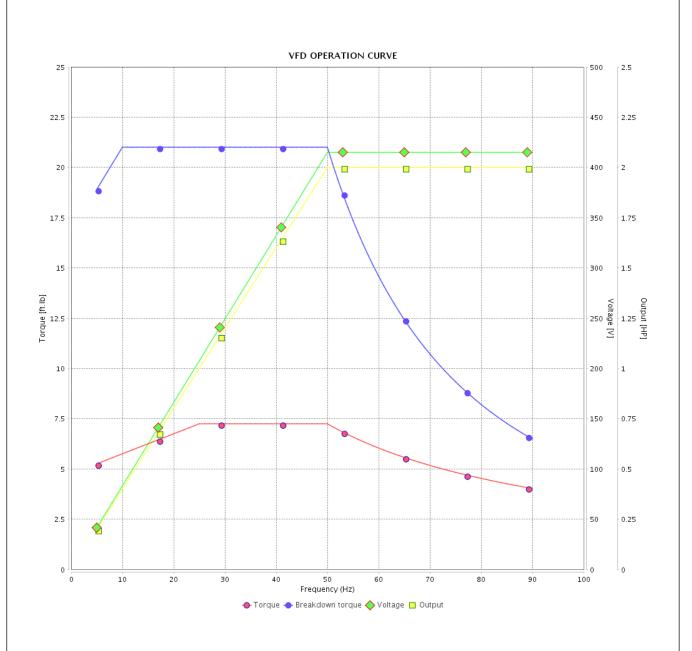
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 12822412

Catalog #: 00218ST3QIER145TC-W2



Performance : 415 V 50 Hz 4P IE2 Rated current : 3.14 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.3 : 7.24 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision 36 / 36 Date 14/04/2022

