### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14494774

Three-Phase

Catalog #: 02018OT3E256TC-W40

Frame : 254/6TC 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

Altitude : 1000 m.a.s.l. Approx. weight³ : 283 lb
Protection degree : IP23 Moment of inertia (J) : 3.13 sq.ft.lb

| Protection degree : IP23   Moment of inertia (J) : 3.13 sq.ft.lb |                         |                      |                      |                      |                      |
|--|-------------------------|----------------------|----------------------|----------------------|----------------------|
| Design   |                         | : B                  |                      |                      |                      |
| Output [HP]  |                         | 20                   | 15                   | 15                   | 15                   |
| Poles  |                         | 4                    | 4                    | 4                    | 4                    |
| Frequency [Hz]   |                         | 60                   | 50                   | 50                   | 50                   |
| Rated voltage [V]  |                         | 230/460              | 380                  | 400                  | 415                  |
| Rated current [A]  |                         | 48.2/24.1            | 22.0                 | 21.4                 | 21.2                 |
| L. R. Amperes [A]  |                         | 308/154              | 154                  | 156                  | 155                  |
| LRC [A]  |                         | 6.4x(Code G)         | 7.0x(Code H)         | 7.3x(Code J)         | 7.3x(Code J)         |
| No load current [A   | ]                       | 20.0/10.0            | 9.90                 | 10.7                 | 11.3                 |
| Rated speed [RPN   | <b>/</b> []             | 1770                 | 1475                 | 1480                 | 1480                 |
| Slip [%]   | Slip [%]                |                      | 1.67                 | 1.33                 | 1.33                 |
| Rated torque [ft.lb]   | Rated torque [ft.lb]    |                      | 53.4 53.2            |                      | 53.2                 |
| Locked rotor torqu   | Locked rotor torque [%] |                      | 250                  | 240                  | 290                  |
| Breakdown torque   | [%]                     | 250                  | 270 300              |                      | 330                  |
| Service factor   |                         | 1.25                 | 1.00 1.00            |                      | 1.00                 |
| Temperature rise   |                         | 80 K                 | 80 K                 | 80 K                 | 80 K                 |
| Locked rotor time  |                         | 46s (cold) 26s (hot) | 61s (cold) 34s (hot) | 52s (cold) 29s (hot) | 46s (cold) 26s (hot) |
| Noise level <sup>2</sup>   |                         | 62.0 dB(A)           |                      |                      |                      |
|  | 25%                     | 92.2                 | 90.9                 | 91.0                 | 91.0                 |
| Efficiency (%)   | 50%                     | 92.4                 | 91.1                 | 91.1                 | 91.1                 |
| Efficiency (70)  | 75%                     | 93.0                 | 91.5                 | 91.5                 | 91.5                 |
| 100%   |                         | 93.0                 | 91.5                 | 91.5                 | 91.5                 |
|  | 25%                     | 0.43                 | 0.40                 | 0.37                 | 0.34                 |
| Power Factor   | 50%                     | 0.69                 | 0.66                 | 0.62                 | 0.59                 |
| I OWEI FACIOI  | 75%                     | 0.79                 | 0.77                 | 0.74                 | 0.72                 |
|  | 100%                    | 0.84                 | 0.83                 | 0.81                 | 0.79                 |

Bearing Seal Bearing Seal

Lubrication interval : 20000 h 20000 h Lubricant amount : 13 g 9 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 53.3A SF 1.15 SFA 61.3A

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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#### Three Phase Induction Motor - Squirrel Cage



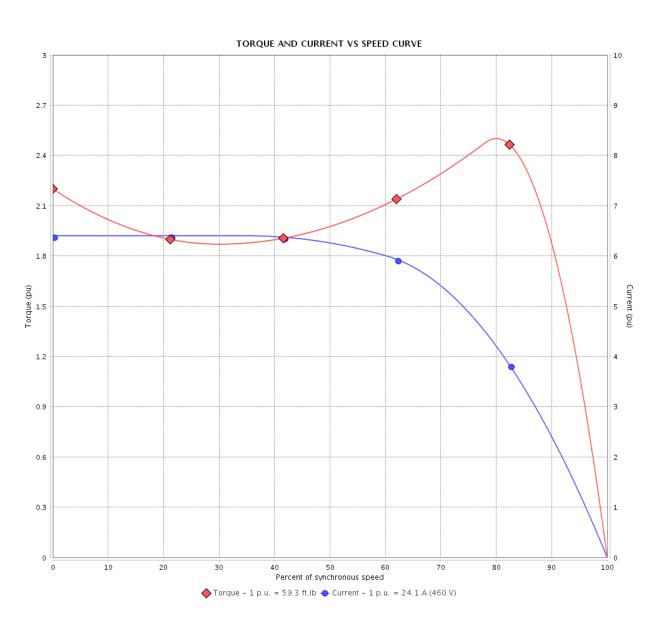
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494774

Catalog #: 02018OT3E256TC-W40



Performance : 230/460 V 60 Hz 4P Rated current : 48.2/24.1 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 59.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

| Rev.         | Changes Summary |  | Performed | Checked | Date     |
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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 14494774 Three-Phase Catalog #: 02018OT3E256TC-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3

Performance : 380 V 50 Hz 4P IE3 Rated current : 22.0 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 53.4 ft.lb Insulation class : F Rated torque : 250 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 270 % Temperature rise : B Rated speed : 1475 rpm Design

Percent of synchronous speed ◆ Torque - 1 p.u. = 53.4 ft.lb ◆ Current - 1 p.u. = 22.0 A (380 V)

Locked rotor time : 61s (cold) 34s (hot)

| LOCKCO TOTOL UITIN | . 0        | 13 (6014) 643 (1161) |           |         |          |
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#### Three Phase Induction Motor - Squirrel Cage



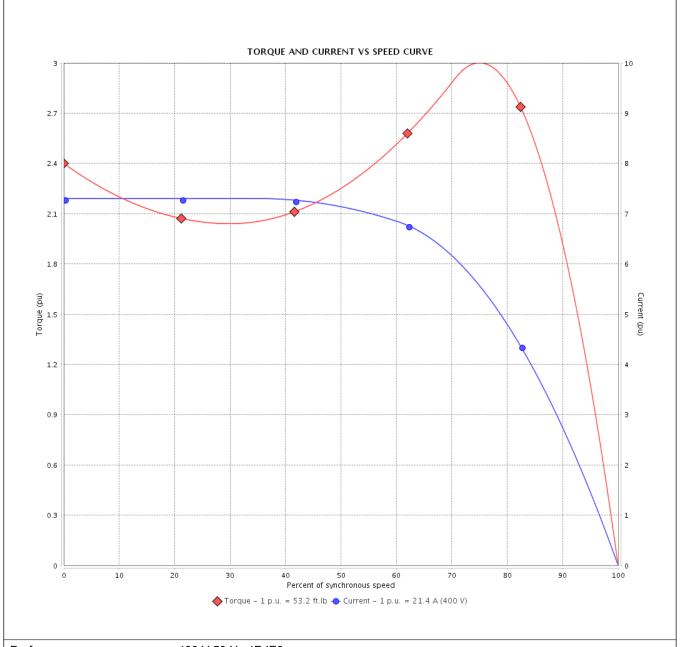
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494774

Catalog #: 02018OT3E256TC-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 21.4 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 53.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K

Locked rotor time : 52s (cold) 29s (hot)

: 1480 rpm

Rated speed

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Design

: B

#### Three Phase Induction Motor - Squirrel Cage



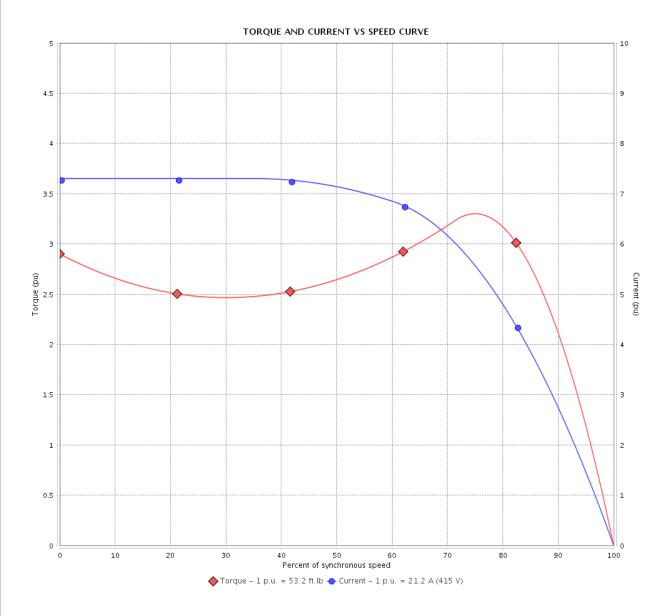
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494774

Catalog #: 02018OT3E256TC-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 21.2 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 53.2 ft.lb Insulation class Rated torque : F : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 46s (cold) 26s (hot)

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Customer :

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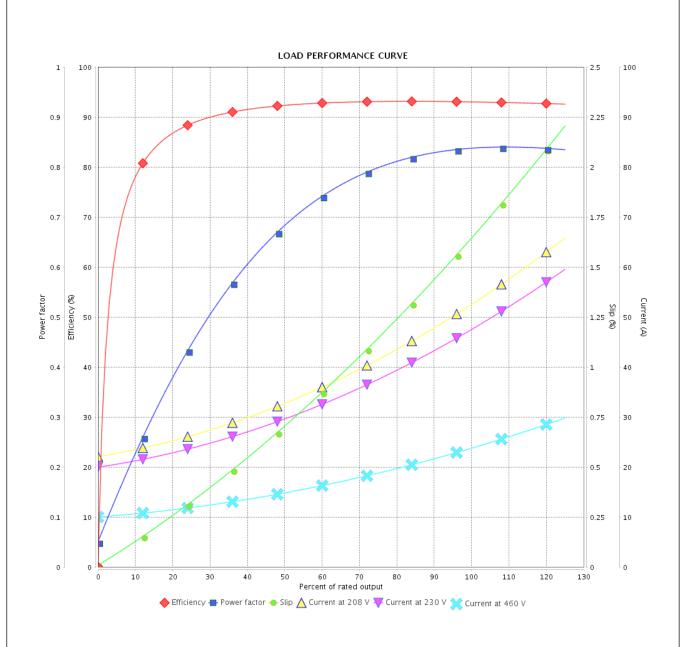
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Product line : W40 NEMA Premium Efficiency Pr

Three-Phase

Product code: 14494774

Catalog #: 02018OT3E256TC-W40



Performance : 230/460 V 60 Hz 4P Rated current : 48.2/24.1 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 : 59.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



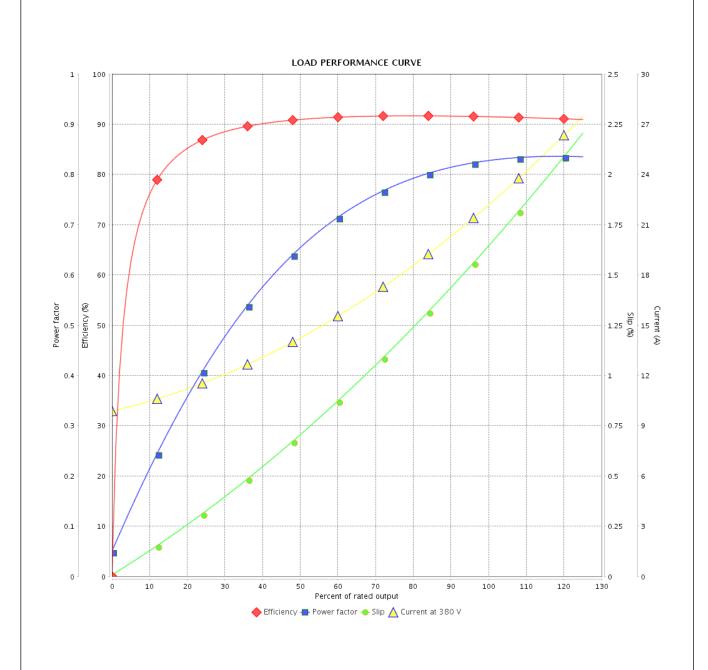
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14494774

Three-Phase

Catalog #: 02018OT3E256TC-W40

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| Performance               | : 380 V 50 Hz 4P IE3 | V 50 Hz 4P IE3        |           |                 |          |
|---------------------------|----------------------|-----------------------|-----------|-----------------|----------|
| Rated current             | : 22.0 A             | Moment of inertia (J) |           | : 3.13 sq.ft.lb |          |
| LRC                       | : 7.0                | Duty cycle            |           | : Cont.(S1)     |          |
| Rated torque : 53.4 ft.lb |                      | Insulation c          | lass      | : F             |          |
| Locked rotor torque       | : 250 %              | Service factor        |           | : 1.00          |          |
| Breakdown torque          | : 270 %              | Temperature rise      |           | : 80 K          |          |
| Rated speed               | : 1475 rpm           | Design                |           | : B             |          |
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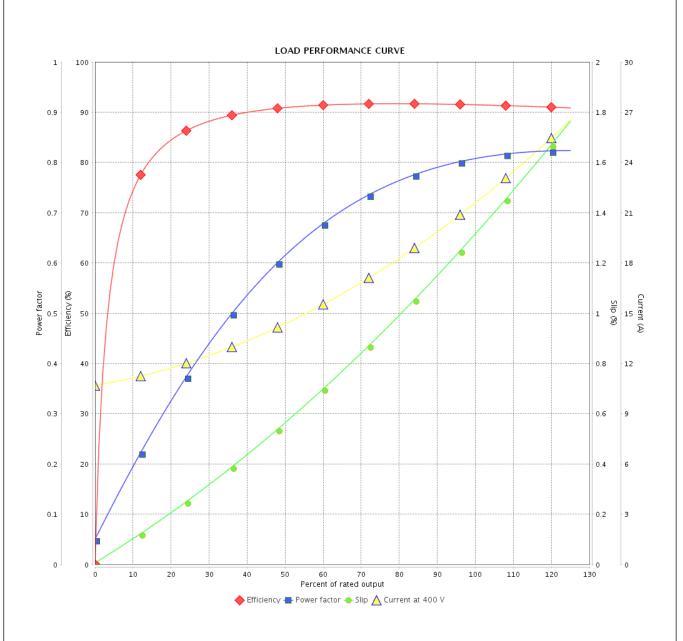
Product line : W40 NEMA Premium Efficiency

Three-Phase

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| Performance                         | : 400 V 50 Hz 4P IE3    |                                    |                                |          |
|-------------------------------------|-------------------------|------------------------------------|--------------------------------|----------|
| Rated current<br>LRC                | : 21.4 A<br>: 7.3       | Moment of inertia (J) Duty cycle   | : 3.13 sq.ft.lb<br>: Cont.(S1) |          |
| Rated torque<br>Locked rotor torque | : 53.2 ft.lb<br>: 240 % | Insulation class Service factor    | : F<br>: 1.00                  |          |
| Breakdown torque<br>Rated speed     | : 300 %<br>: 1480 rpm   | Temperature rise : 80 K Design : B |                                |          |
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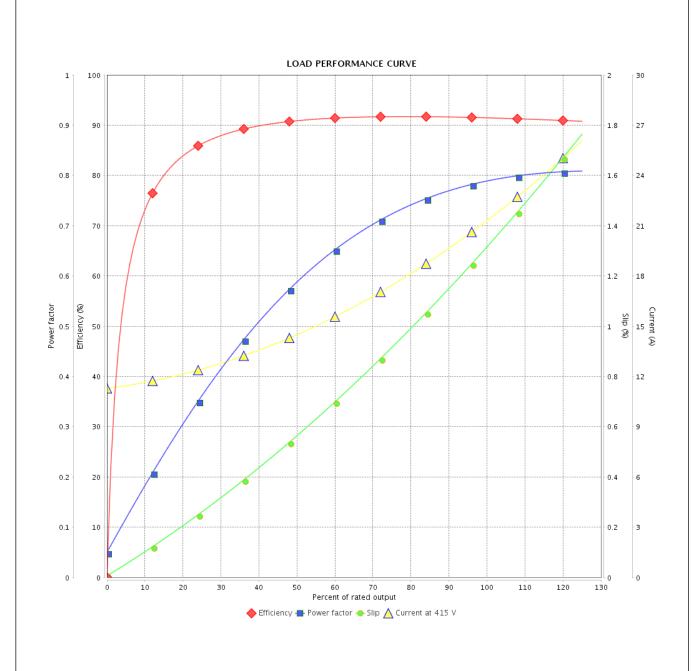
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 02018OT3E256TC-W40

14494774



| Performance         | : 4        | 415 V 50 Hz 4P IE3 | 5 V 50 Hz 4P IE3 |                  |                 |          |
|---------------------|------------|--------------------|------------------|------------------|-----------------|----------|
| Rated current       | : 2        | 21.2 A             | Moment o         | f inertia (J)    | : 3.13 sq.ft.lb |          |
| LRC                 | : 7        | 7.3                | Duty cycle       | <b>;</b>         | : Cont.(S1)     |          |
| Rated torque        | : 5        | 53.2 ft.lb         | Insulation       | class            | : F             |          |
| Locked rotor torque |            | 290 %              | Service fa       | ctor             | : 1.00          |          |
| Breakdown torque    |            | 330 %              | Temperati        | Temperature rise |                 |          |
| Rated speed         | : ′        | 180 rpm Design     |                  | : B              |                 |          |
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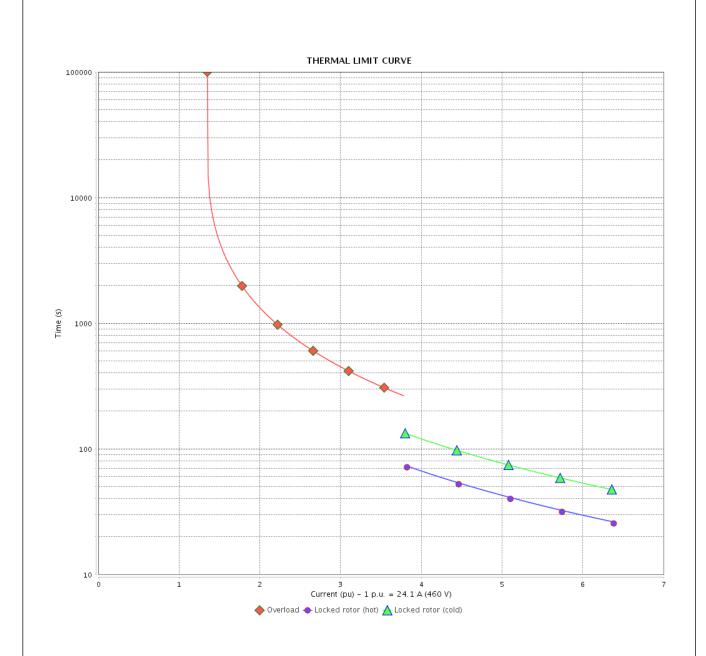


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| Product line                    |              | N40 NEMA Premium Efficionree-Phase | ency Product code :      |               | 14494774           |          |
|                                 |              | ilee i ilee                        | (                        | Catalog # :   | 02018OT3E2         | 56TC-W40 |
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|                                 |              |                                    |                          |               |                    |          |
|                                 |              |                                    |                          |               |                    |          |
| Performance                     | : 23         | 30/460 V 60 Hz 4P                  |                          |               |                    |          |
| Rated current                   |              | 3.2/24.1 A                         | Moment of                | f inertia (J) | : 3.13 sq.ft.lb    |          |
| LRC<br>Rated torque             | : 6.<br>: 59 | 4<br>9.3 ft.lb                     | Duty cycle<br>Insulation | class         | : Cont.(S1)<br>: F |          |
| Locked rotor torqu              | ue : 22      | 20 %                               | Service fa               | ctor          | : 1.25             |          |
| Breakdown torque<br>Rated speed |              | 50 %<br>770 rpm                    | Temperatu<br>Design      | ire rise      | : 80 K<br>: B      |          |
| Heating constant                |              | r                                  |                          |               |                    |          |
| Cooling constant                |              |                                    |                          |               |                    |          |
| Rev.                            |              | Changes Summary                    |                          | Performed     | Checked            | Date     |
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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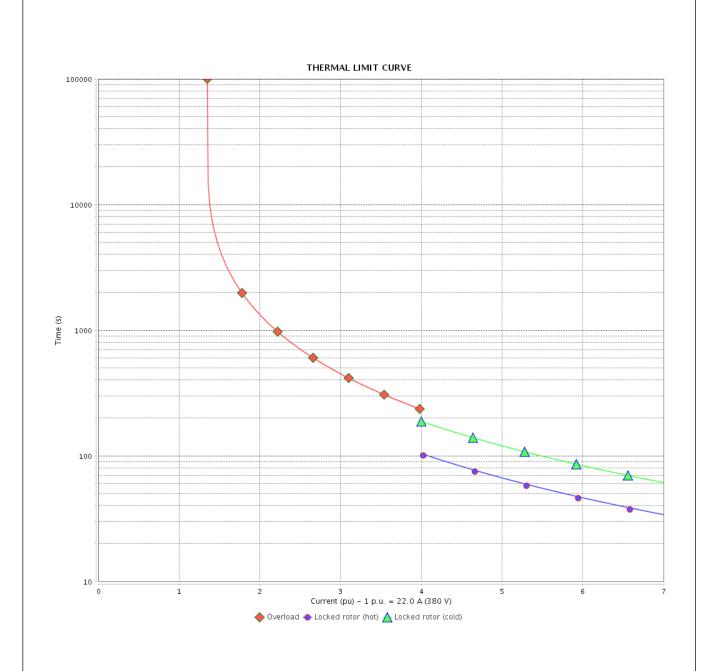


| Customer                     | :             |                                    |                         |                |                                |           |
|------------------------------|---------------|------------------------------------|-------------------------|----------------|--------------------------------|-----------|
| Product line                 |               | W40 NEMA Premium Efficionree-Phase |                         | Product code : | 14494774                       |           |
|                              |               |                                    | (                       | Catalog # :    | 02018OT3E256TC-W40             |           |
|                              |               |                                    |                         |                |                                |           |
| Performance                  | : 38          | 30 V 50 Hz 4P IE3                  |                         |                |                                |           |
| Rated current LRC            | : 22<br>: 7.  | 2.0 A<br>0                         | Moment of<br>Duty cycle | f inertia (J)  | : 3.13 sq.ft.lb<br>: Cont.(S1) |           |
| Rated torque                 | : 53          | 3.4 ft.lb                          | Insulation              | class          | : F                            |           |
| Locked rotor torque          |               | 50 %                               | Service fac             |                | : 1.00                         |           |
| Breakdown torque Rated speed |               | 70 %<br>175 rpm                    | Temperatu<br>Design     | ire rise       | : 80 K<br>: B                  |           |
| Heating constant             |               |                                    |                         |                |                                |           |
| Cooling constant             |               |                                    |                         |                |                                |           |
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### Three Phase Induction Motor - Squirrel Cage



Customer :



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### Three Phase Induction Motor - Squirrel Cage

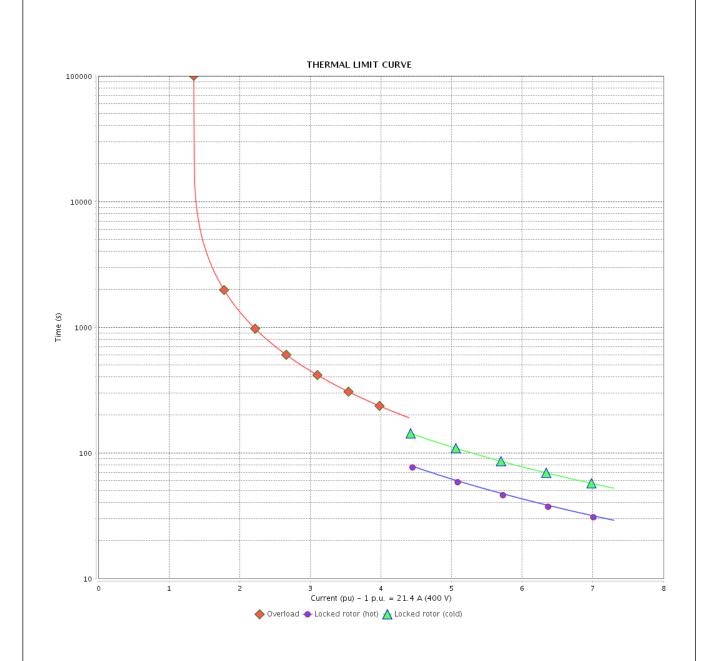


| Customer                          |            | :  |                          |                            |                                |          |
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| Product line                      |            | : W40 NEMA Premium Effici<br>Three-Phase |                          | Product code : Catalog # : | 14494774<br>02018OT3E2         | 56TC-W40 |
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|                                   |            |  |                          |                            |                                |          |
| Performance                       |            | : 400 V 50 Hz 4P IE3                     |                          | <u> </u>                   |                                |          |
| Rated current<br>LRC              |            | : 21.4 A<br>: 7.3                        | Duty cycle               |                            | : 3.13 sq.ft.lb<br>: Cont.(S1) |          |
| Rated torque<br>Locked rotor tord |            | : 53.2 ft.lb<br>: 240 %                  | Insulation<br>Service fa |                            | : F<br>: 1.00                  |          |
| Breakdown torqu                   |            | : 300 %                                  | Temperat                 |                            | : 80 K                         |          |
| Rated speed                       |            | : 1480 rpm                               | Design                   | ·<br>                      | : B                            |          |
| Heating constant                  |            |  |                          |                            |                                |          |
| Cooling constant                  | t          | Changes Summers                          |                          | Performed                  | Checked                        | Data     |
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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

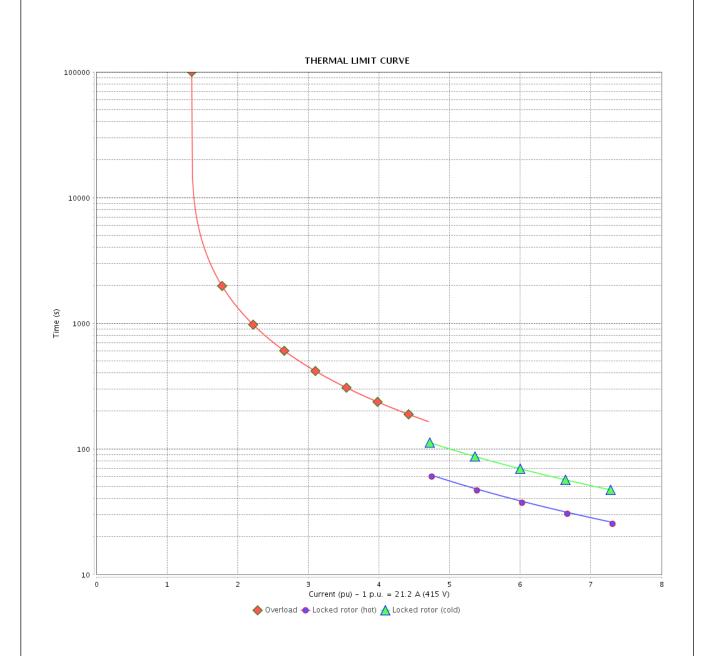


| Customer  |               | :   |                                      |                               |                                       |          |
|---|---------------|---|--------------------------------------|-------------------------------|---------------------------------------|----------|
| Product line  |               | : W40 NEMA Premium Efficie<br>Three-Phase |                                      | Product code :<br>Catalog # : | 14494774<br>02018OT3E2                | 56TC-W40 |
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|   |               |   |                                      |                               |                                       |          |
| Performance   | :             | 415 V 50 Hz 4P IE3                        |                                      |                               |                                       |          |
| Rated current<br>LRC<br>Rated torque                | :             | 21.2 A<br>7.3<br>53.2 ft.lb               | Moment o<br>Duty cycle<br>Insulation |                               | : 3.13 sq.ft.lb<br>: Cont.(S1)<br>: F |          |
| Locked rotor tord<br>Breakdown torqu<br>Rated speed | que :<br>ie : | 290 %<br>330 %<br>1480 rpm                | Service fa<br>Temperatu<br>Design    | ctor                          | : 1.00<br>: 80 K<br>: B               |          |
| Heating constant                                    | t             | 1700 Ιρπ                                  | Design                               |                               |                                       |          |
| Cooling constant<br>Rev.                            |               | Changes Summary                           |                                      | Performed                     | Checked                               | Date     |
|   |               | s.agoo oanimary                           |                                      |                               | 50004                                 |          |
| Performed by  |               |   | l                                    |                               | I                                     |          |
| Checked by  | 14/04/2022    |   |                                      |                               | Page<br>16 / 21                       | Revision |

### Three Phase Induction Motor - Squirrel Cage



Customer



| Rev.         |            | Changes Summary | Performed | Checked | Date     |
|--------------|------------|-----------------|-----------|---------|----------|
|              |            |                 |           |         |          |
| Performed by |            |                 |           |         |          |
| Checked by   |            |                 |           | Page    | Revision |
| Date         | 14/04/2022 |                 |           | 17 / 21 |          |

#### Three Phase Induction Motor - Squirrel Cage



Customer :

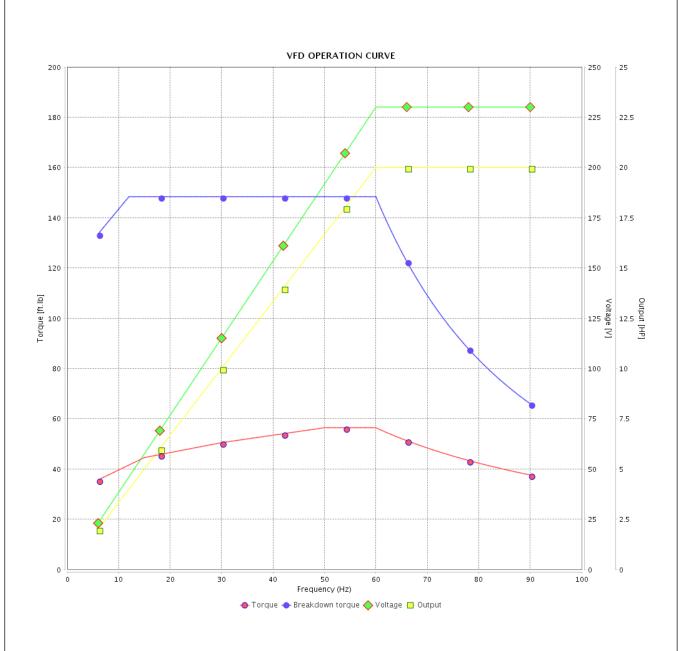
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494774

Catalog #: 02018OT3E256TC-W40

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| Performance  | : 230/460 V 60 Hz 4P   |   |           |  |          |  |  |  |
|--|--|---|-----------|--|----------|--|--|--|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Rated speed | : 48.2/24.1 A<br>: 6.4<br>: 59.3 ft.lb<br>: 220 %<br>: 250 %<br>: 1770 rpm | Moment of<br>Duty cycle<br>Insulation<br>Service fac<br>Temperatu<br>Design | class     | : 3.13 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.25<br>: 80 K<br>: B |          |  |  |  |
| Rev.   | Changes Summary  |   | Performed | Checked  | Date     |  |  |  |
| Performed by   |  |   |           |  |          |  |  |  |
| Checked by   |  |   |           | Page   | Revision |  |  |  |

14/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer

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Date

14/04/2022

Product line : W40 NEMA Premium Efficiency Product

Three-Phase

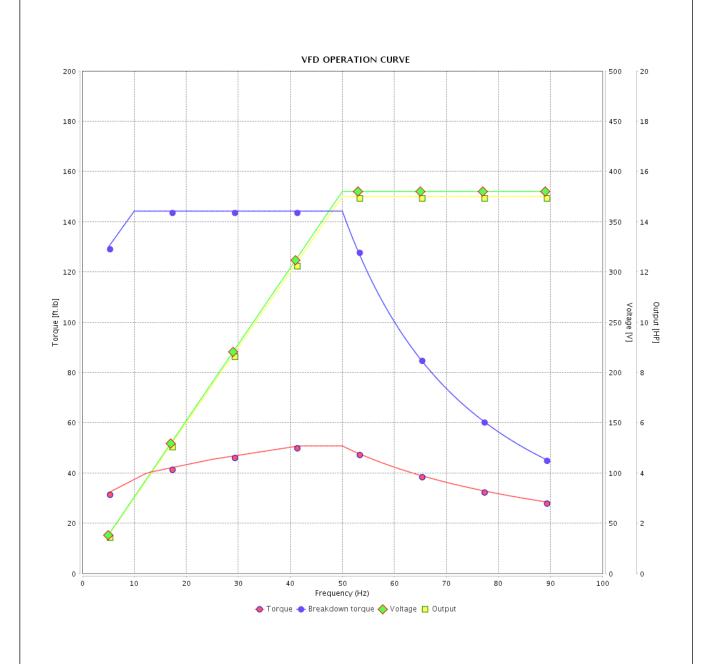
Product code: 14494774

Catalog #: 02018OT3E256TC-W40

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Revision



| Performance  | : 380 V 50 Hz 4P IE3  |  |               |  |      |
|--|---|--|---------------|--|------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Rated speed | : 22.0 A<br>: 7.0<br>: 53.4 ft.lb<br>: 250 %<br>: 270 %<br>: 1475 rpm | Moment of<br>Duty cycle<br>Insulation<br>Service fa<br>Temperate<br>Design | class<br>ctor | : 3.13 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.00<br>: 80 K<br>: B |      |
| Rev.   | Changes Summary   | -  | Performed     | Checked  | Date |
| Performed by   |   |  |               |  |      |

#### Three Phase Induction Motor - Squirrel Cage



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Customer :

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Date

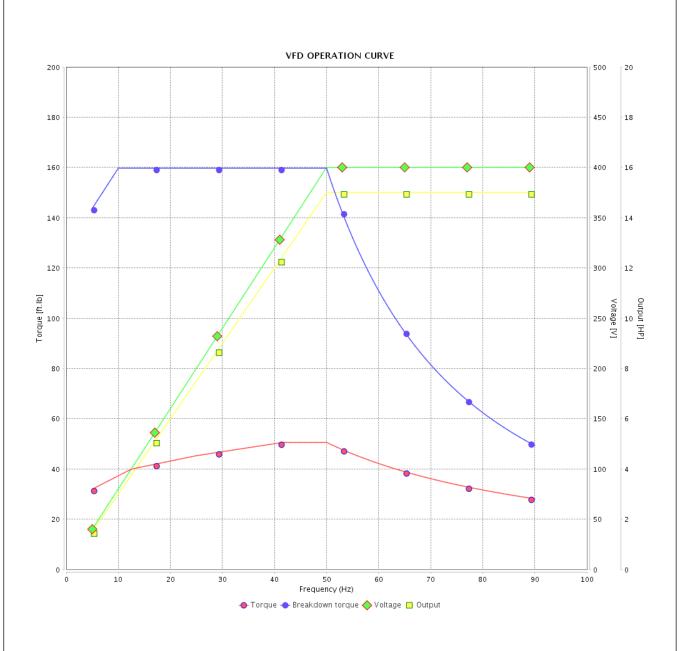
14/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494774

Catalog #: 02018OT3E256TC-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 21.4 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 53.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

#### Three Phase Induction Motor - Squirrel Cage



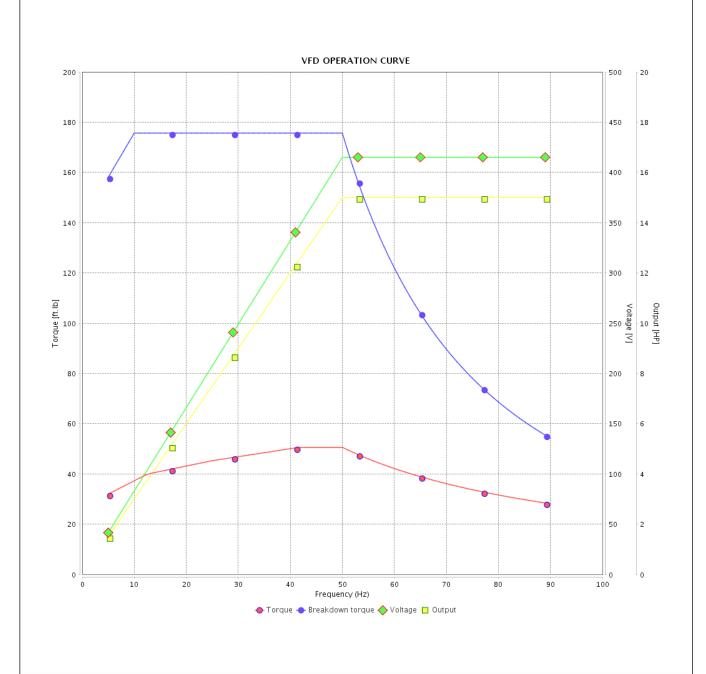
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494774

Catalog #: 02018OT3E256TC-W40



| Performance         | :          | 415 V 50 Hz 4P IE3 |            |                       |             |          |
|---------------------|------------|--------------------|------------|-----------------------|-------------|----------|
| Rated current       |            | 21.2 A             | Moment o   | Moment of inertia (J) |             |          |
| LRC                 | :          | 7.3                | Duty cycle | ;                     | : Cont.(S1) |          |
| Rated torque        | :          | 53.2 ft.lb         | Insulation | class                 | : F         |          |
| Locked rotor torque |            | 290 %              | Service fa | Service factor        |             |          |
| Breakdown torque    | e :        | 330 %              | Temperati  | Temperature rise      |             |          |
| Rated speed         | :          | 1480 rpm           | Design     |                       | : B         |          |
| Rev.                |            | Changes Summar     | У          | Performed             | Checked     | Date     |
| Performed by        |            |                    |            |                       |             |          |
| Checked by          |            |                    |            |                       | Page        | Revision |
| Date                | 14/04/2022 |                    |            |                       | 21 / 21     |          |

