### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14285042

Three-Phase

Catalog #: 25018OT3G445TS-W40

Frame : 444/5TS Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1481 lb Altitude : IP23 Protection degree Moment of inertia (J) : 50.9 sq.ft.lb

| Design                   |                      | : B                 |                     | (1)                 |                     |
|--------------------------|----------------------|---------------------|---------------------|---------------------|---------------------|
| Design                   |                      | . D                 |                     |                     |                     |
| Output [HP]              |                      | 250                 | 200                 | 200                 | 200                 |
| Poles                    | Poles                |                     | 4                   | 4                   | 4                   |
| Frequency [Hz]           |                      | 60                  | 50                  | 50                  | 50                  |
| Rated voltage [V]        |                      | 460                 | 380                 | 400                 | 415                 |
| Rated current [A]        |                      | 289                 | 283                 | 272                 | 269                 |
| L. R. Amperes [A]        |                      | 1850                | 1953                | 1986                | 1991                |
| LRC [A]                  |                      | 6.4x(Code G)        | 6.9x(Code H)        | 7.3x(Code H)        | 7.4x(Code J)        |
| No load current [A       | .]                   | 106                 | 105                 | 115                 | 125                 |
| Rated speed [RPI         | Л]                   | 1780                | 1480                | 1480                | 1485                |
| Slip [%]                 |                      | 1.11                | 1.33                | 1.33                | 1.00                |
| Rated torque [ft.lb]     | Rated torque [ft.lb] |                     | 710                 | 710 710             |                     |
| Locked rotor torque [%]  |                      | 210                 | 200                 | 229                 | 250                 |
| Breakdown torque         | : [%]                | 240                 | 220                 | 240                 | 270                 |
| Service factor           |                      | 1.15                | 1.00                | 1.00 1.00           |                     |
| Temperature rise         |                      | 80 K                | 80 K                | 80 K 80 K           |                     |
| Locked rotor time        |                      | 16s (cold) 9s (hot) | 14s (cold) 8s (hot) | 14s (cold) 8s (hot) | 14s (cold) 8s (hot) |
| Noise level <sup>2</sup> |                      | 78.0 dB(A)          |                     |                     |                     |
|                          | 25%                  | 95.3                | 95.2                | 94.9                | 94.4                |
| Efficiency (0/)          | 50%                  | 95.4                | 95.5                | 95.3                | 94.9                |
| Efficiency (%)           | 75%                  | 95.8                | 95.6                | 95.5                | 95.4                |
|                          | 100%                 | 95.8                | 95.8                | 95.8                | 95.8                |
|                          | 25%                  | 0.46                | 0.46                | 0.41                | 0.38                |
| Power Factor             | 50%                  | 0.72                | 0.72                | 0.67                | 0.64                |
| Fower Factor             | 75%                  | 0.80                | 0.81                | 0.78                | 0.75                |
|                          | 100%                 | 0.84                | 0.84                | 0.83                | 0.81                |

Drive end Non drive end Foundation loads

6314 C3 Bearing type 6212 Z C3 Max. traction : 4350 lb Without Without Sealing Max. compression : 5831 lb

Bearing Seal Bearing Seal 20000 h 20000 h Lubrication interval

13 g Lubricant amount 27 g Lubricant type Mobil Polyrex EM

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.

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## Three Phase Induction Motor - Squirrel Cage

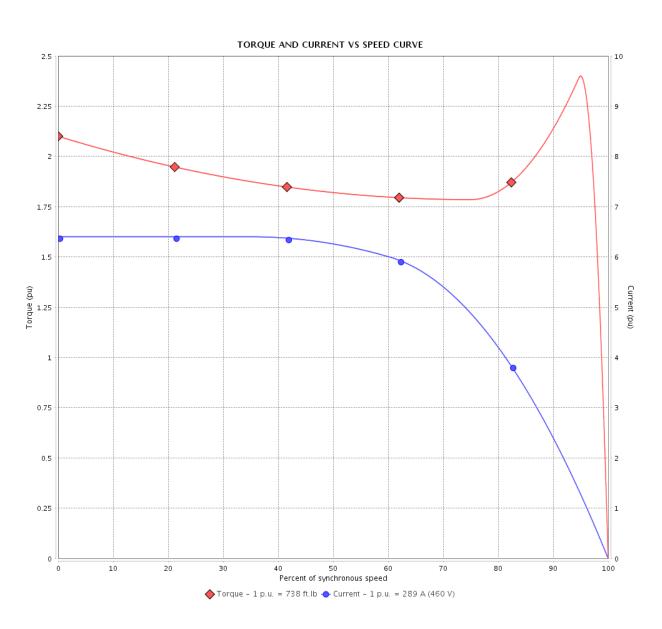


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14285042

Three-Phase

Catalog #: 25018OT3G445TS-W40



| Performance         | : 460 V 60 Hz 4P |                       |                 |
|---------------------|------------------|-----------------------|-----------------|
| Rated current       | : 289 A          | Moment of inertia (J) | : 50.9 sq.ft.lb |
| LRC                 | : 6.4            | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 738 ft.lb      | Insulation class      | : F             |
| Locked rotor torque | : 210 %          | Service factor        | : 1.15          |
| Breakdown torque    | : 240 %          | Temperature rise      | : 80 K          |
| Rated speed         | : 1780 rpm       | Design                | : B             |
|                     |                  |                       |                 |

Locked rotor time : 16s (cold) 9s (hot)

| Rev.         |            | Changes Summary | Performed | Checked | Date     |
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### Three Phase Induction Motor - Squirrel Cage



Customer :

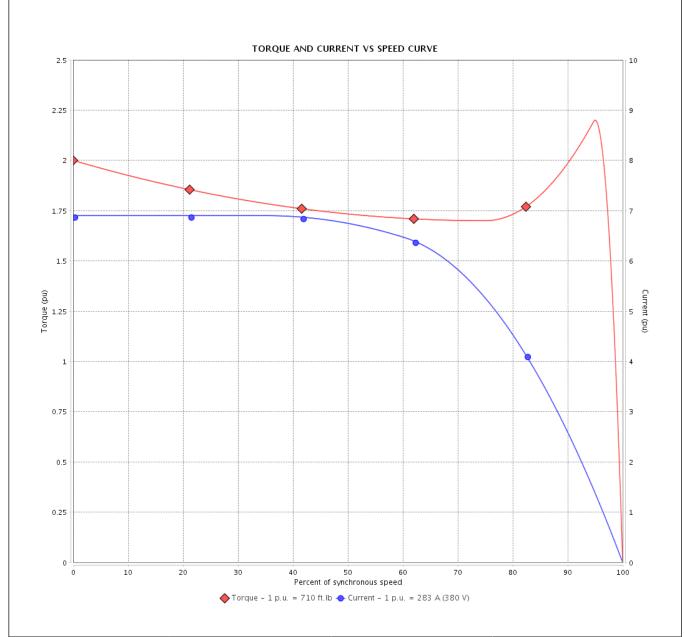
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #:

14285042

25018OT3G445TS-W40



| Performance         | : 380 V 50 Hz 4P IE3  | ·                     |                 |  |
|---------------------|-----------------------|-----------------------|-----------------|--|
| Rated current       | : 283 A               | Moment of inertia (J) | : 50.9 sq.ft.lb |  |
| LRC                 | : 6.9                 | Duty cycle            | : Cont.(S1)     |  |
| Rated torque        | : 710 ft.lb           | Insulation class      | : F             |  |
| Locked rotor torque | : 200 %               | Service factor        | : 1.00          |  |
| Breakdown torque    | : 220 %               | Temperature rise      | : 80 K          |  |
| Rated speed         | : 1480 rpm            | Design                | : B             |  |
| Locked reter time   | : 14s (sold) 8s (bot) |                       |                 |  |

Locked rotor time : 14s (cold) 8s (hot)

| LOCKCO TOTOL UITI | . 1        | 43 (cold) 03 (flot) |           |         |          |
|-------------------|------------|---------------------|-----------|---------|----------|
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#### Three Phase Induction Motor - Squirrel Cage



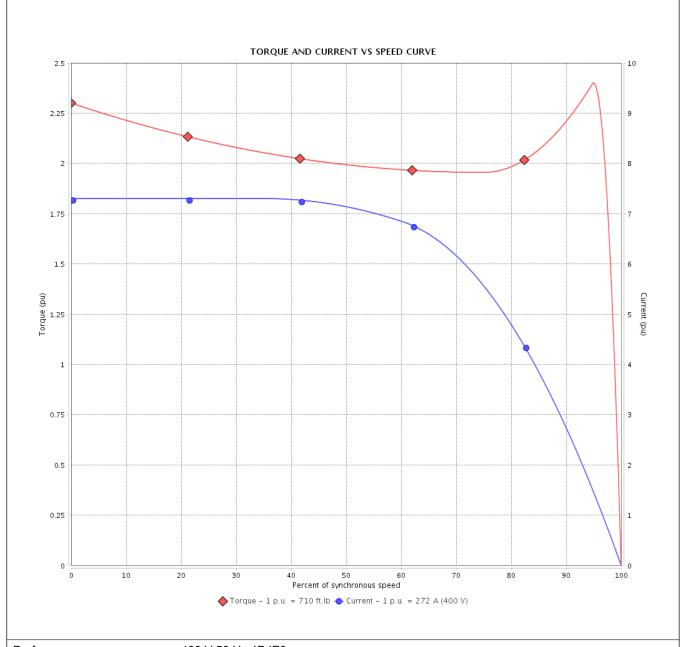
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285042

Catalog # : 25018OT3G445TS-W40



Locked rotor torque: 229 %Service factor: 1.00Breakdown torque: 240 %Temperature rise: 80 KRated speed: 1480 rpmDesign: B

Locked rotor time : 14s (cold) 8s (hot)

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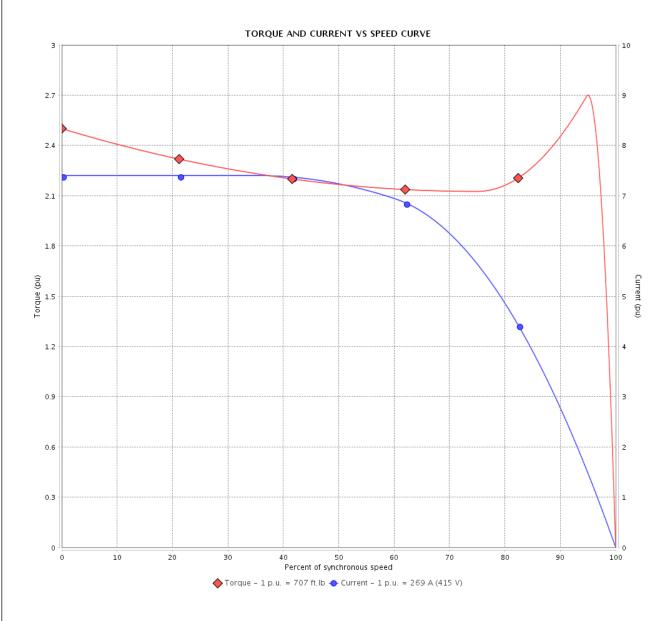
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285042

Catalog #: 25018OT3G445TS-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 269 A Moment of inertia (J) : 50.9 sq.ft.lb LRC : 7.4 Duty cycle : Cont.(S1) : 707 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 : 1485 rpm Design

Locked rotor time : 14s (cold) 8s (hot)

| LOCKCO TOTOL UITI | . 1        | 43 (cold) 63 (flot) |           |         |          |
|-------------------|------------|---------------------|-----------|---------|----------|
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#### Three Phase Induction Motor - Squirrel Cage



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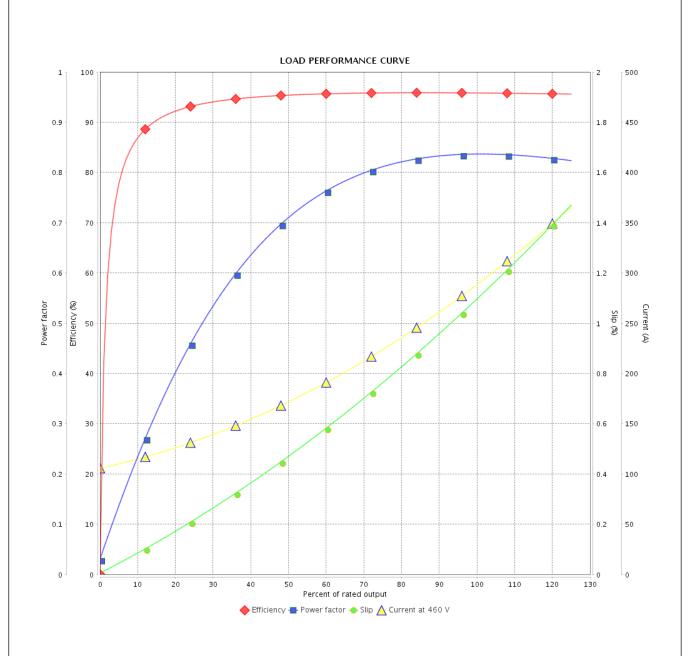
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285042

Catalog # : 25018OT3G445TS-W40

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| Performance  | : 460 V 60 Hz 4P  |   |               |  |          |
|--|---|---|---------------|--|----------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Rated speed | : 289 A<br>: 6.4<br>: 738 ft.lb<br>: 210 %<br>: 240 %<br>: 1780 rpm | Moment on Duty cycle Insulation Service fa Temperature Design | class<br>ctor | : 50.9 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K<br>: B |          |
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#### Three Phase Induction Motor - Squirrel Cage



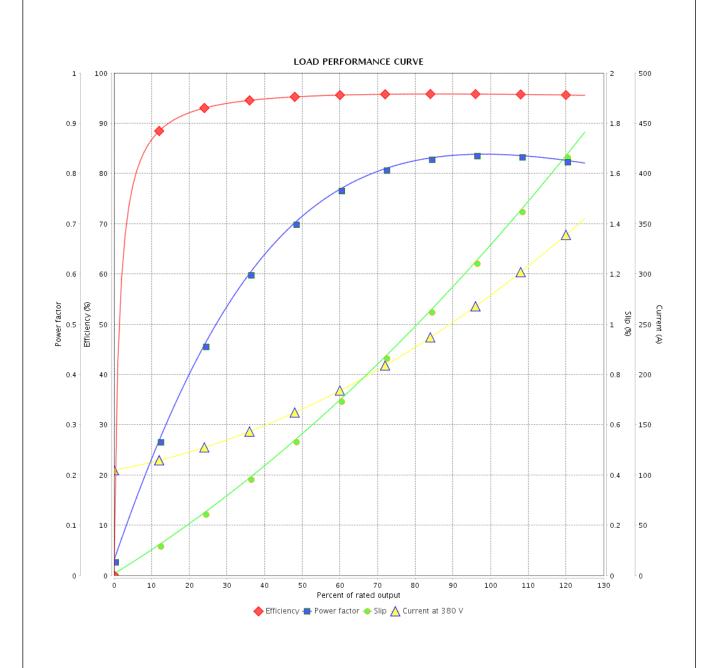
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Product code: 14285042

Catalog #: 25018OT3G445TS-W40



| Performance         | : 3        | 380 V 50 Hz 4P IE3 |            |                  |                 |          |
|---------------------|------------|--------------------|------------|------------------|-----------------|----------|
| Rated current       | : 2        | 283 A              | Moment o   | f inertia (J)    | : 50.9 sq.ft.lb |          |
| LRC                 | : 6        | 3.9                | Duty cycle | }                | : Cont.(S1)     |          |
| Rated torque        | : 7        | '10 ft.lb          | Insulation | class            | : F             |          |
| Locked rotor torque | e :2       | 200 %              | Service fa | ctor             | : 1.00          |          |
| Breakdown torque    |            | 220 %              | Temperatu  | Temperature rise |                 |          |
| Rated speed         | : 1        | 480 rpm            | Design     |                  | : B             |          |
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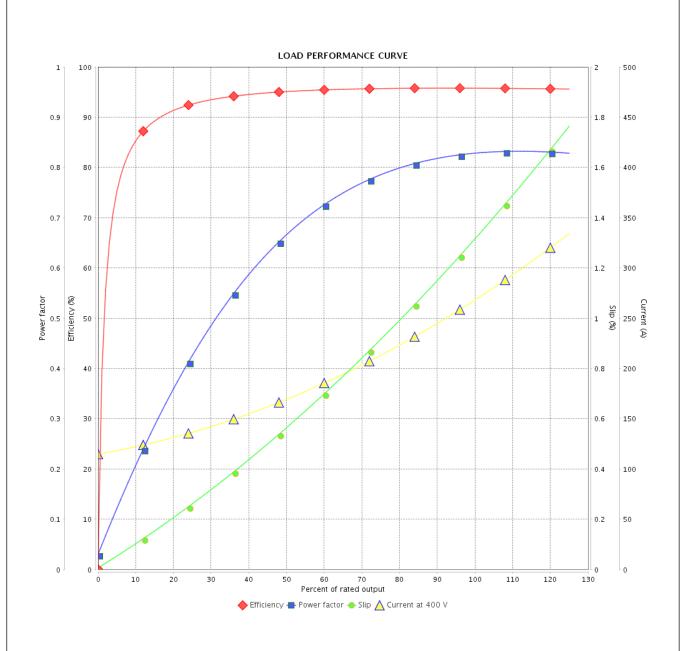
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285042

Catalog # : 25018OT3G445TS-W40



Performance : 400 V 50 Hz 4P IE3 : 272 A Rated current Moment of inertia (J) : 50.9 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 710 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 8 / 21 Date 13/04/2022

#### Three Phase Induction Motor - Squirrel Cage

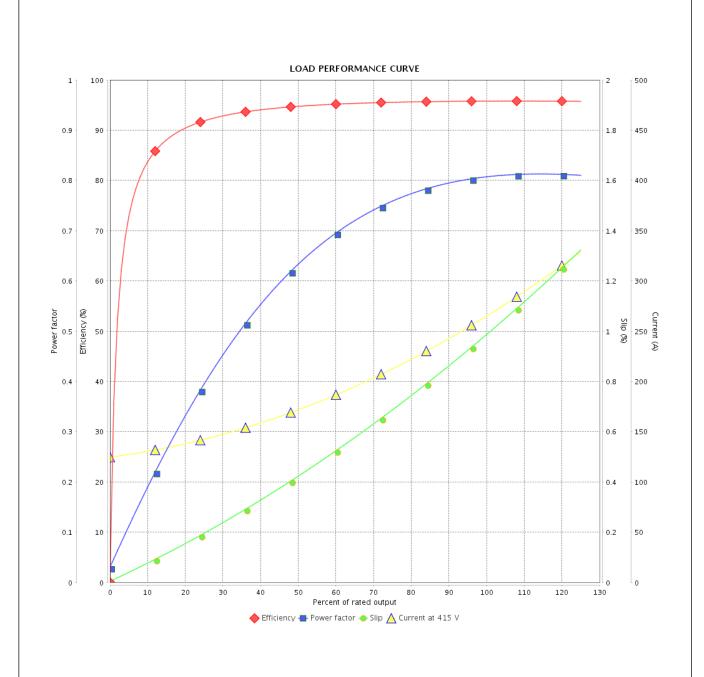


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14285042

Three-Phase

Catalog # : 25018OT3G445TS-W40



| Performance         |            | 415 V 50 Hz 4P IE3 |            |               |                 |          |
|---------------------|------------|--------------------|------------|---------------|-----------------|----------|
|                     |            |                    | Ma         | f:            | . 50 0 # 11-    |          |
| Rated current       | =          | 269 A              |            | f inertia (J) | : 50.9 sq.ft.lb |          |
| LRC                 | :          | 7.4                | Duty cycle | ;             | : Cont.(S1)     |          |
| Rated torque        | :          | 707 ft.lb          | Insulation | class         | : F             |          |
| Locked rotor torque | e :        | 250 %              | Service fa | ctor          | : 1.00          |          |
| Breakdown torque    | :          | 270 %              | Temperati  | ıre rise      | : 80 K          |          |
| Rated speed         | :          | 1485 rpm           | Design     |               | : B             |          |
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### Three Phase Induction Motor - Squirrel Cage

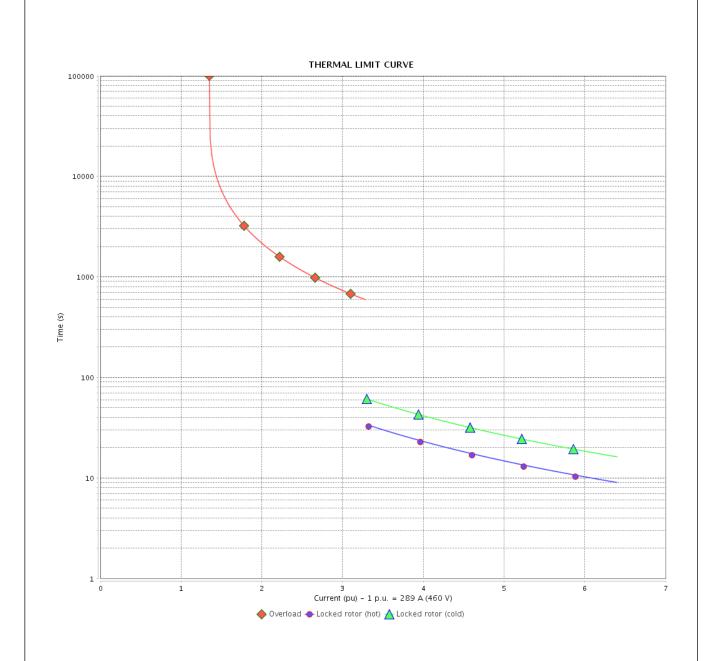


| Customer                             |            | :                           |                          |                            |                        |            |
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| Product line                         |            | : W40 NEMA Premium Efficion |                          | Product code : Catalog # : | 14285042<br>25018OT3G4 | 45TS W40   |
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|                                      |            |                             |                          |                            |                        |            |
| Performance                          |            | 460 V 60 H= 4D              |                          |                            |                        |            |
| Rated current                        |            | : 460 V 60 Hz 4P<br>: 289 A | Moment o                 | of inertia (J)             | : 50.9 sq.ft.lb        |            |
| LRC                                  | :          | : 6.4                       | Duty cycle               | 9                          | : Cont.(S1)            |            |
| Rated torque<br>Locked rotor tord    |            | : 738 ft.lb<br>: 210 %      | Insulation<br>Service fa |                            | : F<br>: 1.15          |            |
| Breakdown torqu                      | ue :       | : 240 %                     | Temperati                |                            | : 80 K                 |            |
| Rated speed                          |            | : 1780 rpm                  | Design                   |                            | : B                    |            |
| Heating constant<br>Cooling constant |            |                             |                          |                            |                        |            |
| Rev.                                 |            | 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

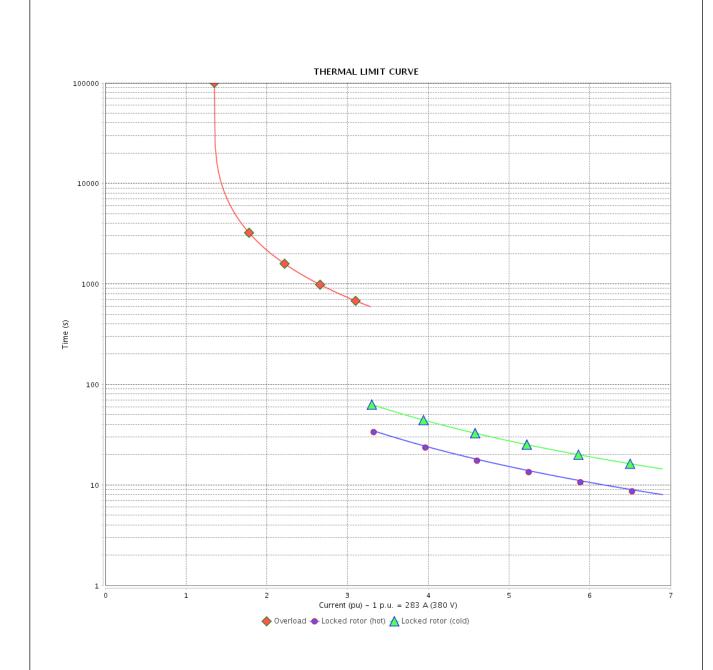


| Customer                          | :   |                                 |                        |          |
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| Product line                      | : W40 NEMA Premium Efficie<br>Three-Phase | ncy Product code :  Catalog # : | 14285042<br>25018OT3G4 | 45TS-W40 |
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|                                   |   |                                 |                        |          |
| Performance                       | : 380 V 50 Hz 4P IE3                      |                                 |                        |          |
| Rated current                     | : 283 A                                   | Moment of inertia (J)           | : 50.9 sq.ft.lb        |          |
| LRC<br>Rated torque               | : 6.9<br>: 710 ft.lb                      | Duty cycle<br>Insulation class  | : Cont.(S1)<br>: F     |          |
| Locked rotor torque               | : 200 %                                   | Service factor                  | : 1.00                 |          |
| Breakdown torque<br>Rated speed   | : 220 %<br>: 1480 rpm                     | Temperature rise Design         | : 80 K<br>: B          |          |
|                                   | . 1700 ιμπι                               | Doolgii                         | . <i>D</i>             |          |
| Heating constant Cooling constant |   |                                 |                        |          |
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## Three Phase Induction Motor - Squirrel Cage



Customer



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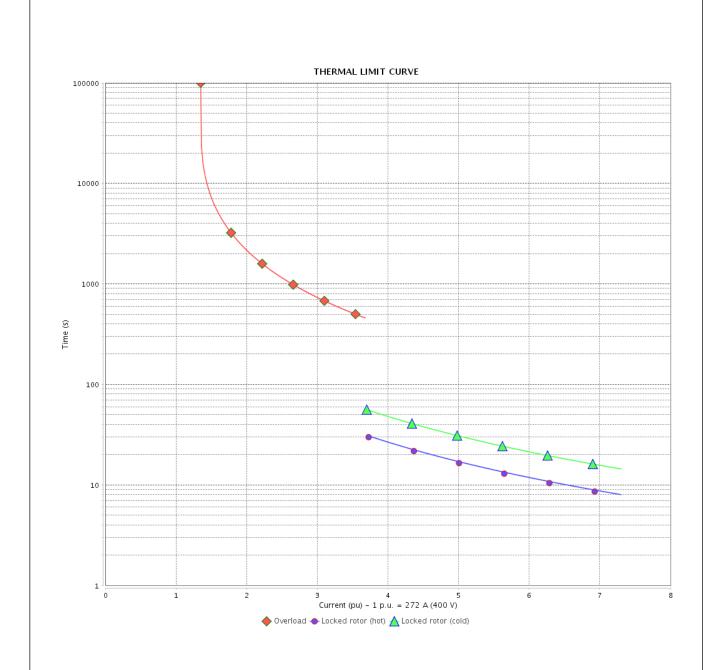


| Customer                             |            | :   |                                      |                               |                                       |          |
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| Product line                         |            | : W40 NEMA Premium Efficie<br>Three-Phase |                                      | Product code :<br>Catalog # : | 14285042<br>25018OT3G4                | 45TS-W40 |
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|                                      |            |   |                                      |                               |                                       |          |
| Performance                          | :          | 400 V 50 Hz 4P IE3                        |                                      |                               |                                       |          |
| Rated current<br>LRC<br>Rated torque | :          | 272 A<br>7.3<br>710 ft.lb                 | Moment o<br>Duty cycle<br>Insulation |                               | : 50.9 sq.ft.lb<br>: Cont.(S1)<br>: F |          |
| Locked rotor tord                    | que :      | 229 %                                     | Service fa                           | ctor                          | : 1.00                                |          |
| Breakdown torqu<br>Rated speed       |            | 240 %<br>1480 rpm                         | Temperatu<br>Design                  | ire rise                      | : 80 K<br>: B                         |          |
| Heating constant                     |            |   |                                      |                               |                                       |          |
| Rev.                                 |            | Changes Summary                           |                                      | Performed                     | Checked                               | Date     |
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## Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

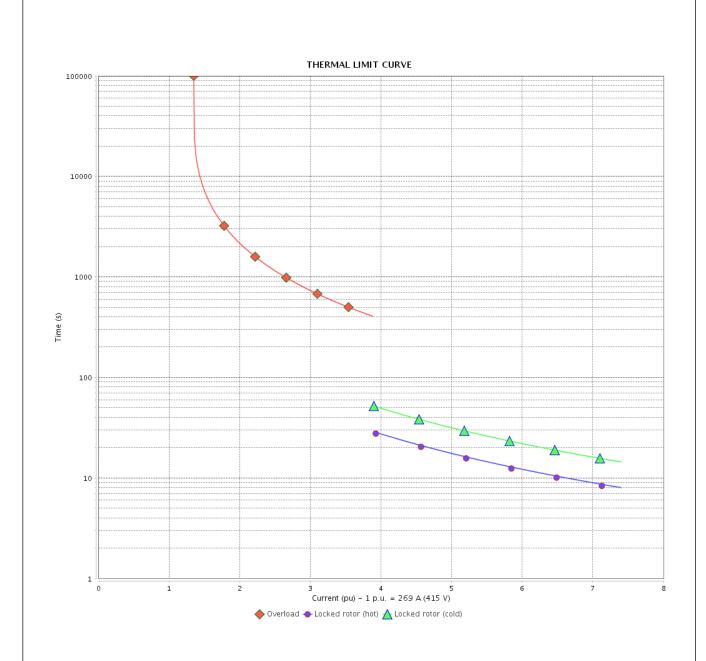


| Customer                          |            | :   |                          |                               |                                |          |
|-----------------------------------|------------|---|--------------------------|-------------------------------|--------------------------------|----------|
| Product line                      |            | : W40 NEMA Premium Efficie<br>Three-Phase |                          | Product code :<br>Catalog # : | 14285042<br>25018OT3G4         | 45TS-W40 |
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|                                   |            |   |                          |                               |                                |          |
|                                   |            |   |                          |                               |                                |          |
| Performance                       | :          | 415 V 50 Hz 4P IE3                        |                          |                               |                                |          |
| Rated current<br>LRC              | :          | 269 A<br>7.4                              | Duty cycle               |                               | : 50.9 sq.ft.lb<br>: Cont.(S1) |          |
| Rated torque<br>Locked rotor tord |            | 707 ft.lb<br>250 %                        | Insulation<br>Service fa |                               | : F<br>: 1.00                  |          |
| Breakdown torqu                   | ie :       | 270 %                                     | Temperatu                |                               | : 80 K                         |          |
| Rated speed                       |            | 1485 rpm                                  | Design                   |                               | : B                            |          |
| Heating constant                  |            |   |                          |                               |                                |          |
| Rev.                              | -          | Changes Summary                           |                          | Performed                     | Checked                        | Date     |
|                                   |            | <u> </u>                                  |                          |                               |                                |          |
| Performed by                      |            |   |                          |                               | ,                              |          |
| Checked by                        |            |   |                          |                               | Page                           | Revision |
| Date                              | 13/04/2022 |   |                          |                               | 16 / 21                        |          |

#### Three Phase Induction Motor - Squirrel Cage



Customer



| Rev.         |            | Changes Summary | Performed | Checked | Date     |
|--------------|------------|-----------------|-----------|---------|----------|
|              |            |                 |           |         |          |
| Performed by |            |                 |           |         |          |
| Checked by   |            |                 |           | Page    | Revision |
| Date         | 13/04/2022 |                 |           | 17 / 21 |          |

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

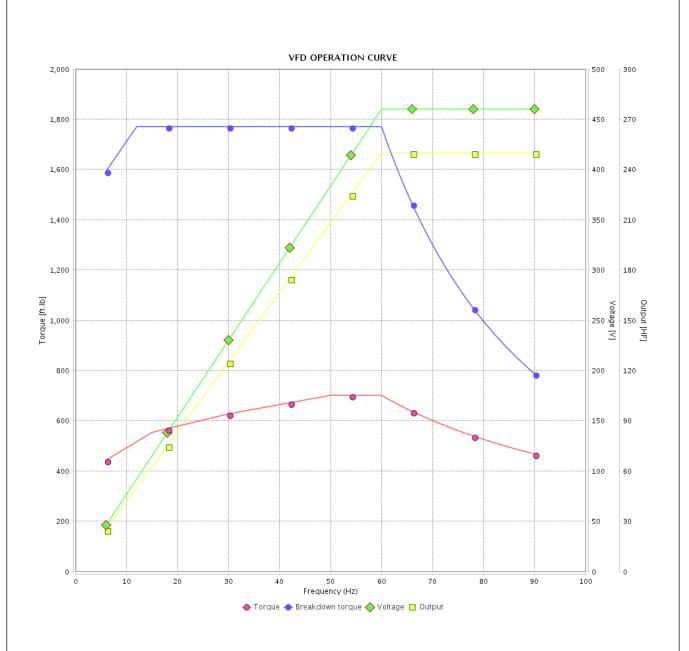
Product code: 14285042

Catalog # : 25018OT3G445TS-W40

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Revision



| Performance   | : 40                   | 60 V 60 Hz 4P                                     |  |               |  |      |
|---|------------------------|---|--|---------------|--|------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor tord<br>Breakdown torqu<br>Rated speed | : 6<br>: 7:<br>que : 2 | 89 A<br>.4<br>38 ft.lb<br>10 %<br>40 %<br>780 rpm | Moment of Duty cycle Insulation Service fa Temperat Design | class<br>ctor | : 50.9 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K<br>: B |      |
| Rev.  |                        | Changes Summary                                   |  | Performed     | Checked  | Date |
|   |                        |   |  |               |  |      |
| Performed by  |                        |   |  |               |  |      |

#### Three Phase Induction Motor - Squirrel Cage



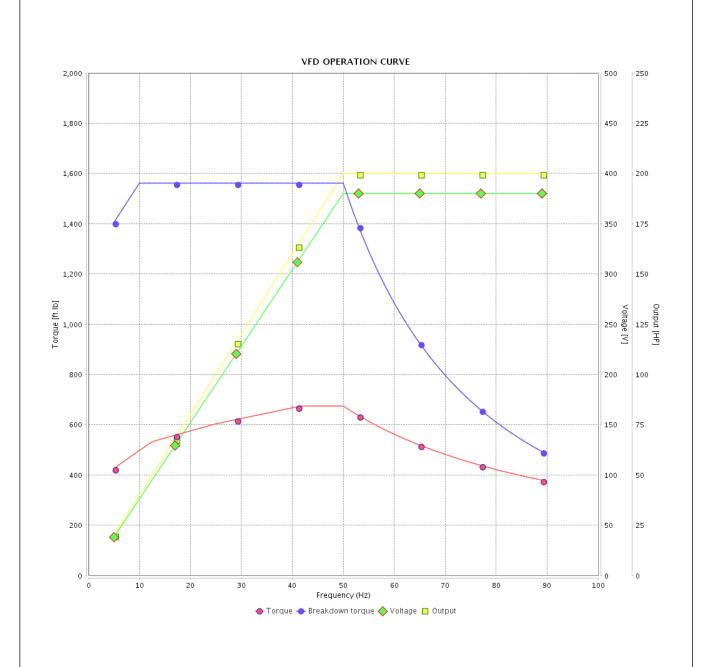
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285042

Catalog #: 25018OT3G445TS-W40



| Performance       | : 3        | 80 V 50 Hz 4P IE3 |                  |               |                 |          |
|-------------------|------------|-------------------|------------------|---------------|-----------------|----------|
| Rated current     | : 2        | 83 A              | Moment o         | f inertia (J) | : 50.9 sq.ft.lb |          |
| LRC               | : 6        | .9                | Duty cycle       | 9             | : Cont.(S1)     |          |
| Rated torque      | : 7        | 10 ft.lb          | Insulation       | class         | : F             |          |
| Locked rotor toro | jue : 2    | 00 %              | Service fa       | ctor          | : 1.00          |          |
| Breakdown torqu   | ie : 2     | 20 %              | Temperature rise |               | : 80 K          |          |
| Rated speed       | : 1        | 480 rpm           | Design           |               | : B             |          |
| Rev.              |            | Changes Summar    | ry               | Performed     | Checked         | Date     |
|                   |            |                   |                  |               |                 |          |
| Performed by      |            |                   |                  |               |                 |          |
| Checked by        |            |                   |                  |               | Page            | Revision |
| Date              | 13/04/2022 |                   |                  |               | 19 / 21         |          |

#### Three Phase Induction Motor - Squirrel Cage



Customer :

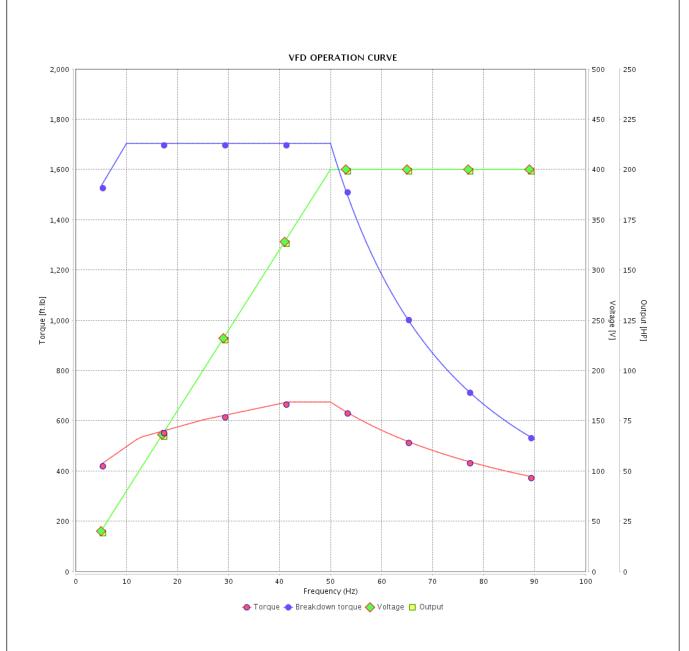
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285042

Catalog #: 25018OT3G445TS-W40

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| Performance   | : 40                     | 00 V 50 Hz 4P IE3             |  |                         |   |          |
|---|--------------------------|-------------------------------|--|-------------------------|---|----------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torq | : 7.<br>: 7 <sup>.</sup> | 72 A<br>3<br>10 ft.lb<br>29 % | Moment of Duty cycle Insulation Service fa | class                   | : 50.9 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.00 |          |
| Breakdown torqu<br>Rated speed                            |                          | 40 %<br>480 rpm               | Temperati<br>Design                        | Temperature rise Design |   |          |
| Rev.  |                          | Changes Summa                 | ry   | Performed               | Checked   | Date     |
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13/04/2022

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#### Three Phase Induction Motor - Squirrel Cage



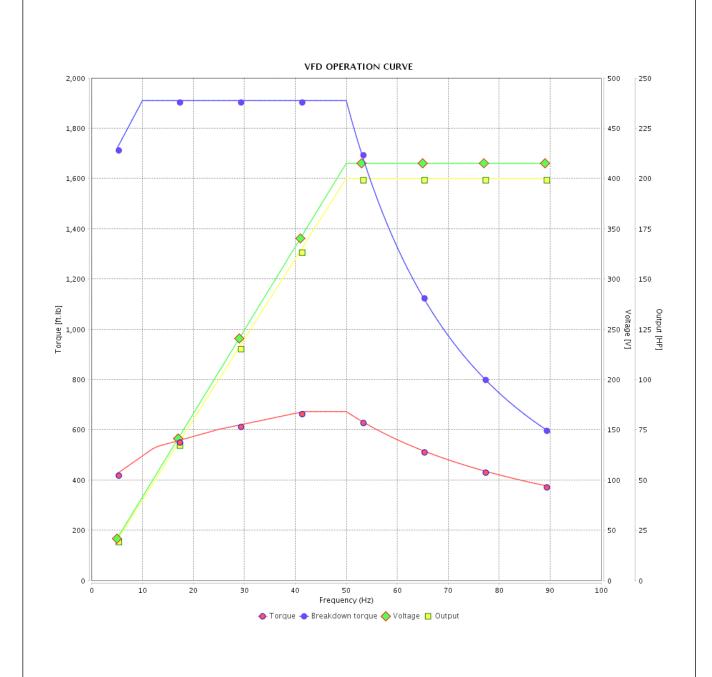
Customer

Product line : W40 NEMA Premium Efficiency P

Three-Phase

Product code: 14285042

Catalog #: 25018OT3G445TS-W40



| Performance          | : 4        | 15 V 50 Hz 4P IE3 |                  |               |                 |          |
|----------------------|------------|-------------------|------------------|---------------|-----------------|----------|
| Rated current        | : 2        | 69 A              | Moment o         | f inertia (J) | : 50.9 sq.ft.lb |          |
| LRC                  | : 7        | .4                | Duty cycle       | )             | : Cont.(S1)     |          |
| Rated torque         | : 7        | 07 ft.lb          | Insulation       | class         | : F             |          |
| Locked rotor torqu   | ue : 2     | 50 %              | Service fa       | ctor          | : 1.00          |          |
| Breakdown torque     | e : 2      | 70 %              | Temperature rise |               | : 80 K          |          |
| Rated speed          | : 1        | 485 rpm           | Design           |               | : B             |          |
| Rev. Changes Summary |            |                   | Performed        | Checked       | Date            |          |
| Performed by         |            |                   |                  |               |                 |          |
| Checked by           |            | -                 |                  |               | Page            | Revision |
| Date                 | 13/04/2022 | 1                 |                  |               | 21 / 21         |          |

