

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|                                                                                                                                                                                                                                                                                        |                                                           |                             |                                                                                                                          |                      |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------|----------|
| Customer :                                                                                                                                                                                                                                                                             |                                                           |                             |                                                                                                                          |                      |          |
| Product line                                                                                                                                                                                                                                                                           | : W40 NEMA Premium Efficiency Three-Phase                 | Product code :              | 14270884                                                                                                                 |                      |          |
|                                                                                                                                                                                                                                                                                        |                                                           | Catalog # :                 | 06018OT3E364T-W40                                                                                                        |                      |          |
| Frame                                                                                                                                                                                                                                                                                  | : 364/5T                                                  | Cooling method              | : IC01 - ODP                                                                                                             |                      |          |
| Insulation class                                                                                                                                                                                                                                                                       | : F                                                       | Mounting                    | : F-1                                                                                                                    |                      |          |
| Duty cycle                                                                                                                                                                                                                                                                             | : Cont.(S1)                                               | Rotation <sup>1</sup>       | : Both (CW and CCW)                                                                                                      |                      |          |
| Ambient temperature                                                                                                                                                                                                                                                                    | : -20°C to +40°C                                          | Starting method             | : Direct On Line                                                                                                         |                      |          |
| Altitude                                                                                                                                                                                                                                                                               | : 1000 m.a.s.l.                                           | Approx. weight <sup>2</sup> | : 746 lb                                                                                                                 |                      |          |
| Protection degree                                                                                                                                                                                                                                                                      | : IP23                                                    | Moment of inertia (J)       | : 15.6 sq.ft.lb                                                                                                          |                      |          |
| Design                                                                                                                                                                                                                                                                                 | : B                                                       |                             |                                                                                                                          |                      |          |
| Output [HP]                                                                                                                                                                                                                                                                            | 60                                                        | 50                          | 50                                                                                                                       | 50                   |          |
| Poles                                                                                                                                                                                                                                                                                  | 4                                                         | 4                           | 4                                                                                                                        | 4                    |          |
| Frequency [Hz]                                                                                                                                                                                                                                                                         | 60                                                        | 50                          | 50                                                                                                                       | 50                   |          |
| Rated voltage [V]                                                                                                                                                                                                                                                                      | 230/460                                                   | 380                         | 400                                                                                                                      | 415                  |          |
| Rated current [A]                                                                                                                                                                                                                                                                      | 140/69.9                                                  | 69.6                        | 66.9                                                                                                                     | 65.3                 |          |
| L. R. Amperes [A]                                                                                                                                                                                                                                                                      | 909/454                                                   | 473                         | 482                                                                                                                      | 457                  |          |
| LRC [A]                                                                                                                                                                                                                                                                                | 6.5x(Code G)                                              | 6.8x(Code G)                | 7.2x(Code H)                                                                                                             | 7.0x(Code H)         |          |
| No load current [A]                                                                                                                                                                                                                                                                    | 49.4/24.7                                                 | 24.4                        | 26.2                                                                                                                     | 27.7                 |          |
| Rated speed [RPM]                                                                                                                                                                                                                                                                      | 1780                                                      | 1480                        | 1480                                                                                                                     | 1485                 |          |
| Slip [%]                                                                                                                                                                                                                                                                               | 1.11                                                      | 1.33                        | 1.33                                                                                                                     | 1.00                 |          |
| Rated torque [ft.lb]                                                                                                                                                                                                                                                                   | 177                                                       | 177                         | 177                                                                                                                      | 177                  |          |
| Locked rotor torque [%]                                                                                                                                                                                                                                                                | 200                                                       | 200                         | 220                                                                                                                      | 240                  |          |
| Breakdown torque [%]                                                                                                                                                                                                                                                                   | 240                                                       | 229                         | 250                                                                                                                      | 270                  |          |
| Service factor                                                                                                                                                                                                                                                                         | 1.25                                                      | 1.00                        | 1.00                                                                                                                     | 1.00                 |          |
| Temperature rise                                                                                                                                                                                                                                                                       | 80 K                                                      | 80 K                        | 80 K                                                                                                                     | 80 K                 |          |
| Locked rotor time                                                                                                                                                                                                                                                                      | 34s (cold) 19s (hot)                                      | 32s (cold) 18s (hot)        | 30s (cold) 17s (hot)                                                                                                     | 28s (cold) 16s (hot) |          |
| Noise level <sup>2</sup>                                                                                                                                                                                                                                                               | 69.0 dB(A)                                                |                             |                                                                                                                          |                      |          |
| Efficiency (%)                                                                                                                                                                                                                                                                         | 25%                                                       | 94.4                        | 93.4                                                                                                                     | 93.4                 | 93.4     |
|                                                                                                                                                                                                                                                                                        | 50%                                                       | 94.5                        | 93.5                                                                                                                     | 93.5                 | 93.5     |
|                                                                                                                                                                                                                                                                                        | 75%                                                       | 95.0                        | 93.9                                                                                                                     | 93.9                 | 93.9     |
|                                                                                                                                                                                                                                                                                        | 100%                                                      | 95.0                        | 93.9                                                                                                                     | 93.9                 | 93.9     |
| Power Factor                                                                                                                                                                                                                                                                           | 25%                                                       | 0.48                        | 0.49                                                                                                                     | 0.45                 | 0.42     |
|                                                                                                                                                                                                                                                                                        | 50%                                                       | 0.73                        | 0.74                                                                                                                     | 0.71                 | 0.68     |
|                                                                                                                                                                                                                                                                                        | 75%                                                       | 0.82                        | 0.83                                                                                                                     | 0.81                 | 0.79     |
|                                                                                                                                                                                                                                                                                        | 100%                                                      | 0.85                        | 0.86                                                                                                                     | 0.85                 | 0.84     |
| Bearing type                                                                                                                                                                                                                                                                           | : <u>Drive end</u> 6314 C3 <u>Non drive end</u> 6212 Z C3 | Foundation loads            |                                                                                                                          |                      |          |
| Sealing                                                                                                                                                                                                                                                                                | : Without Without                                         | Max. traction               | : 1263 lb                                                                                                                |                      |          |
|                                                                                                                                                                                                                                                                                        | : Bearing Seal Bearing Seal                               | Max. compression            | : 2009 lb                                                                                                                |                      |          |
| Lubrication interval                                                                                                                                                                                                                                                                   | : 20000 h 20000 h                                         |                             |                                                                                                                          |                      |          |
| Lubricant amount                                                                                                                                                                                                                                                                       | : 27 g 13 g                                               |                             |                                                                                                                          |                      |          |
| Lubricant type                                                                                                                                                                                                                                                                         | : Mobil Polyrex EM                                        |                             |                                                                                                                          |                      |          |
| Notes<br>USABLE @208V 155A SF 1.15 SFA 178A                                                                                                                                                                                                                                            |                                                           |                             |                                                                                                                          |                      |          |
| This revision replaces and cancel the previous one, which must be eliminated.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(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                                                                                                                                                                                                                                                                                   | 12/04/2022                                                |                             |                                                                                                                          | 1 / 21               |          |

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



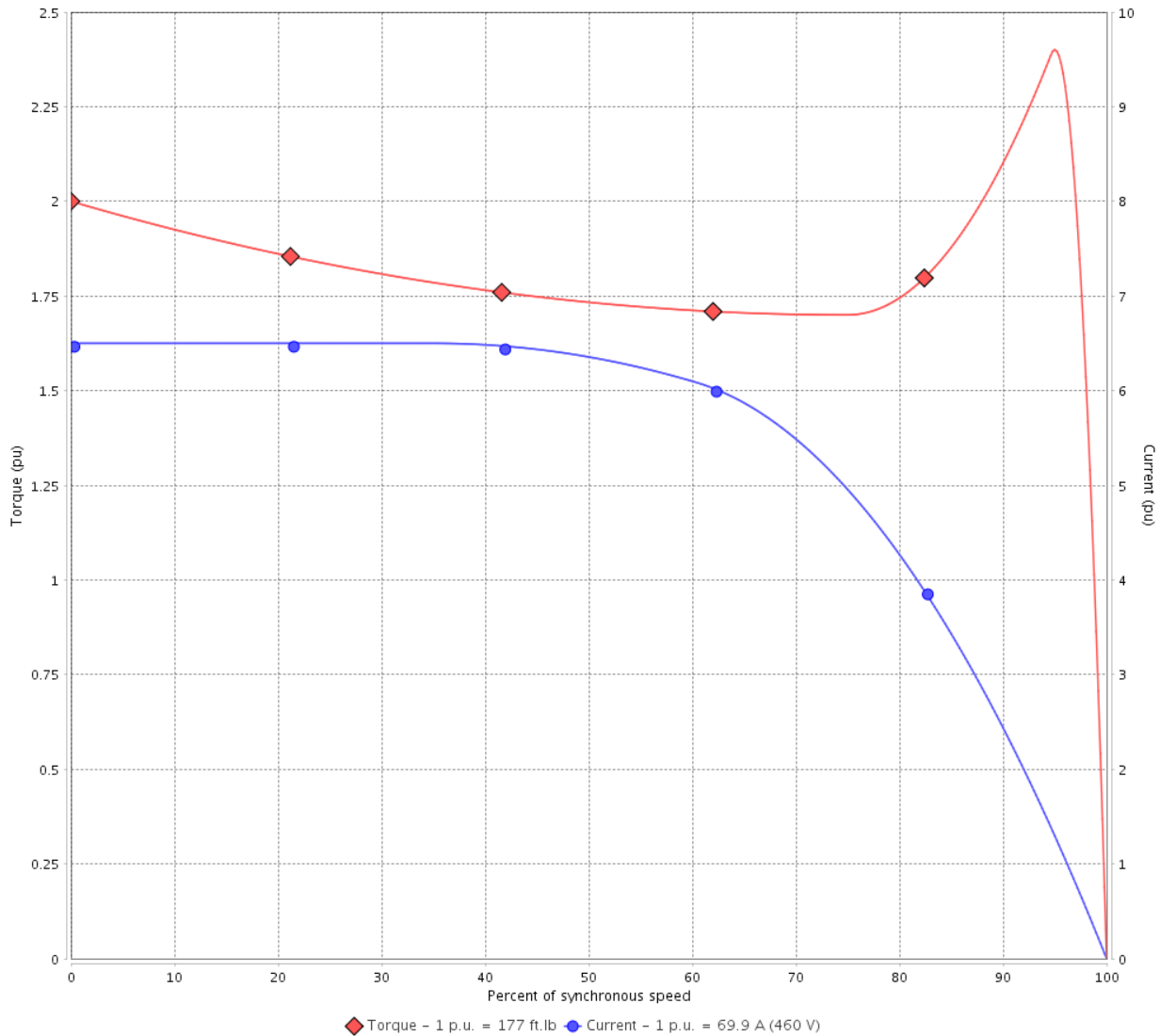
Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 140/69.9 A  
LRC : 6.5  
Rated torque : 177 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 240 %  
Rated speed : 1780 rpm

Moment of inertia (J) : 15.6 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Locked rotor time : 34s (cold) 19s (hot)

| Rev.         | Changes Summary | Performed | Checked        | Date     |
|--------------|-----------------|-----------|----------------|----------|
|              |                 |           |                |          |
| Performed by |                 |           | Page<br>2 / 21 | Revision |
| Checked by   |                 |           |                |          |
| Date         | 12/04/2022      |           |                |          |

# TORQUE AND CURRENT VS SPEED CURVE



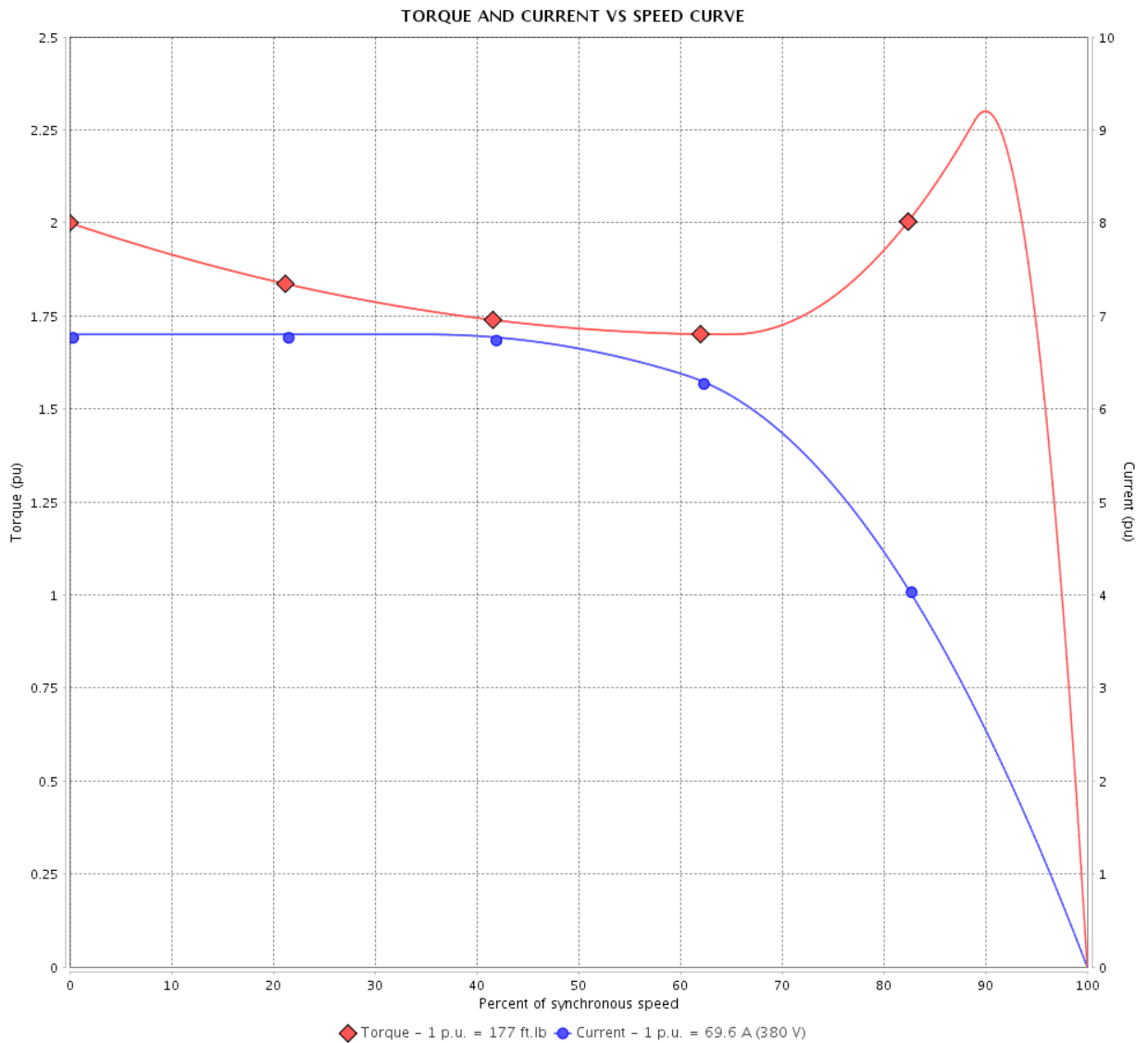
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40



Performance : 380 V 50 Hz 4P IE3

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 69.6 A    | Moment of inertia (J) | : 15.6 sq.ft.lb |
| LRC                 | : 6.8       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 177 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 200 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 229 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 1480 rpm  | Design                | : B             |

Locked rotor time : 32s (cold) 18s (hot)

| Rev.         | Changes Summary | Performed | Checked        | Date     |
|--------------|-----------------|-----------|----------------|----------|
|              |                 |           |                |          |
| Performed by |                 |           | Page<br>3 / 21 | Revision |
| Checked by   |                 |           |                |          |
| Date         | 12/04/2022      |           |                |          |

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



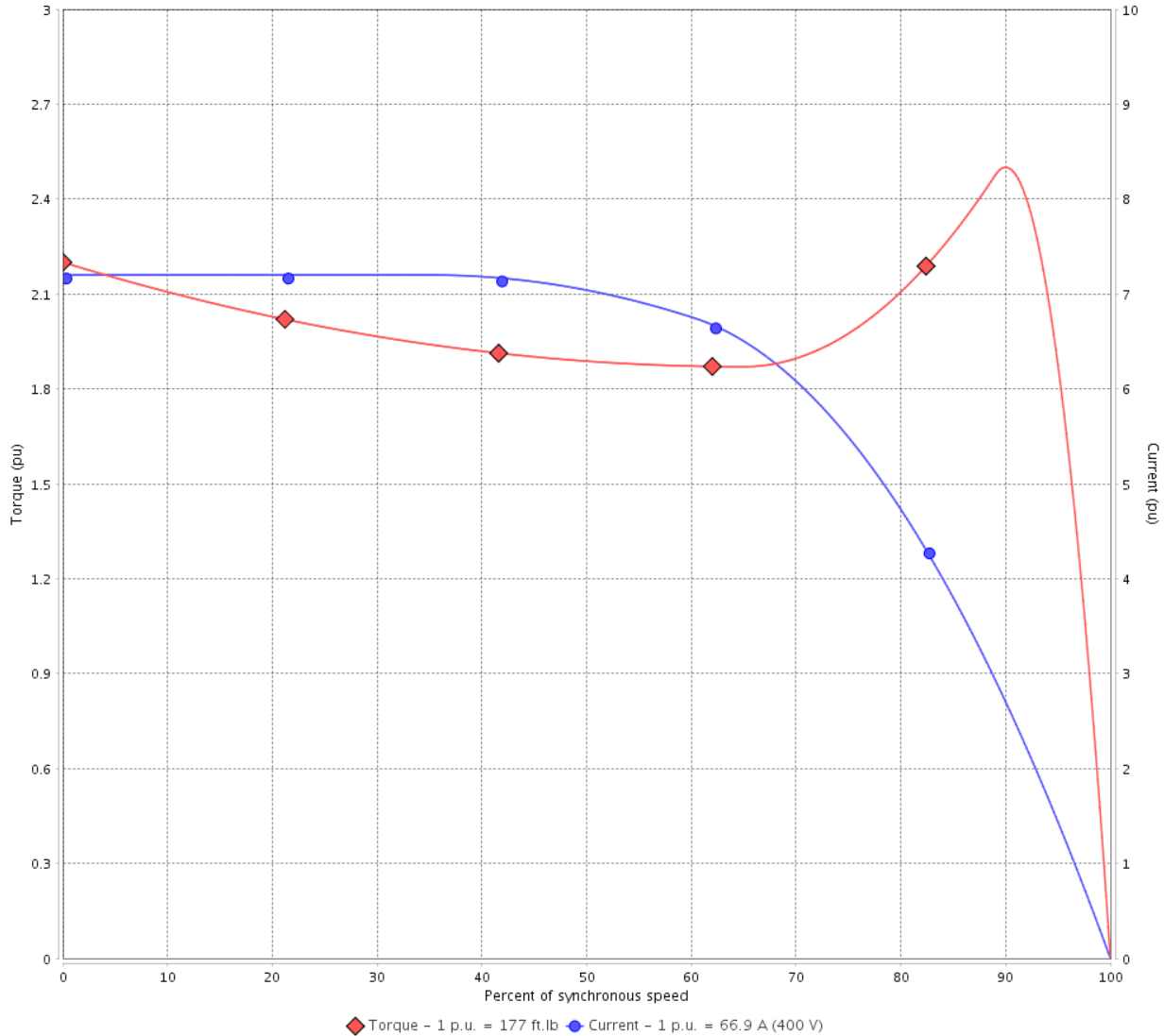
Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE3

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 66.9 A    | Moment of inertia (J) | : 15.6 sq.ft.lb |
| LRC                 | : 7.2       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 177 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 220 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 250 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 1480 rpm  | Design                | : B             |

Locked rotor time : 30s (cold) 17s (hot)

| Rev.         | Changes Summary | Performed | Checked        | Date     |
|--------------|-----------------|-----------|----------------|----------|
|              |                 |           |                |          |
| Performed by |                 |           | Page<br>4 / 21 | Revision |
| Checked by   |                 |           |                |          |
| Date         | 12/04/2022      |           |                |          |

# TORQUE AND CURRENT VS SPEED CURVE



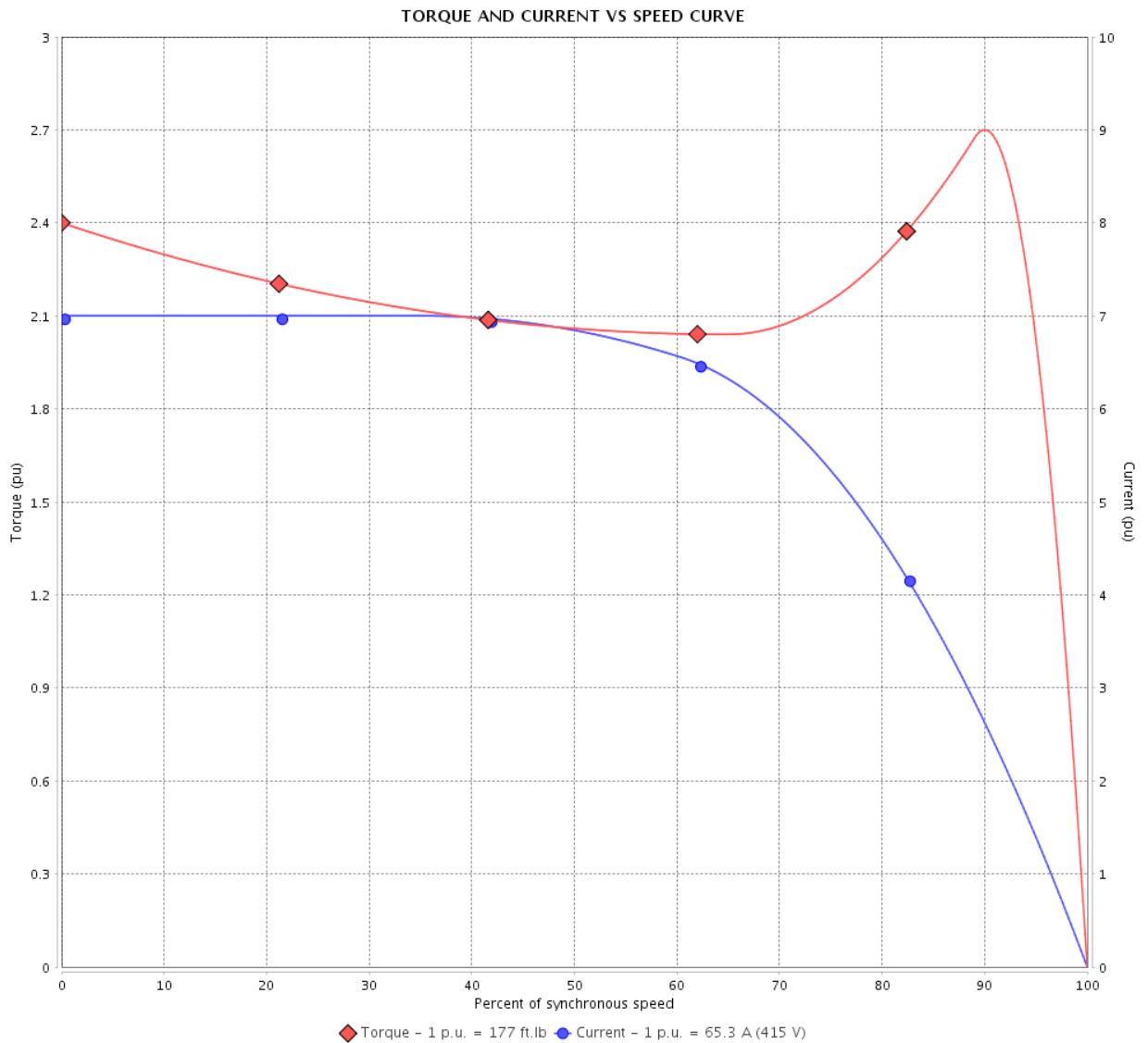
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40



Performance : 415 V 50 Hz 4P IE3

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 65.3 A    | Moment of inertia (J) | : 15.6 sq.ft.lb |
| LRC                 | : 7.0       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 177 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 240 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 270 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 1485 rpm  | Design                | : B             |

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

| Rev.         | Changes Summary | Performed | Checked        | Date     |
|--------------|-----------------|-----------|----------------|----------|
|              |                 |           |                |          |
| Performed by |                 |           | Page<br>5 / 21 | Revision |
| Checked by   |                 |           |                |          |
| Date         | 12/04/2022      |           |                |          |

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

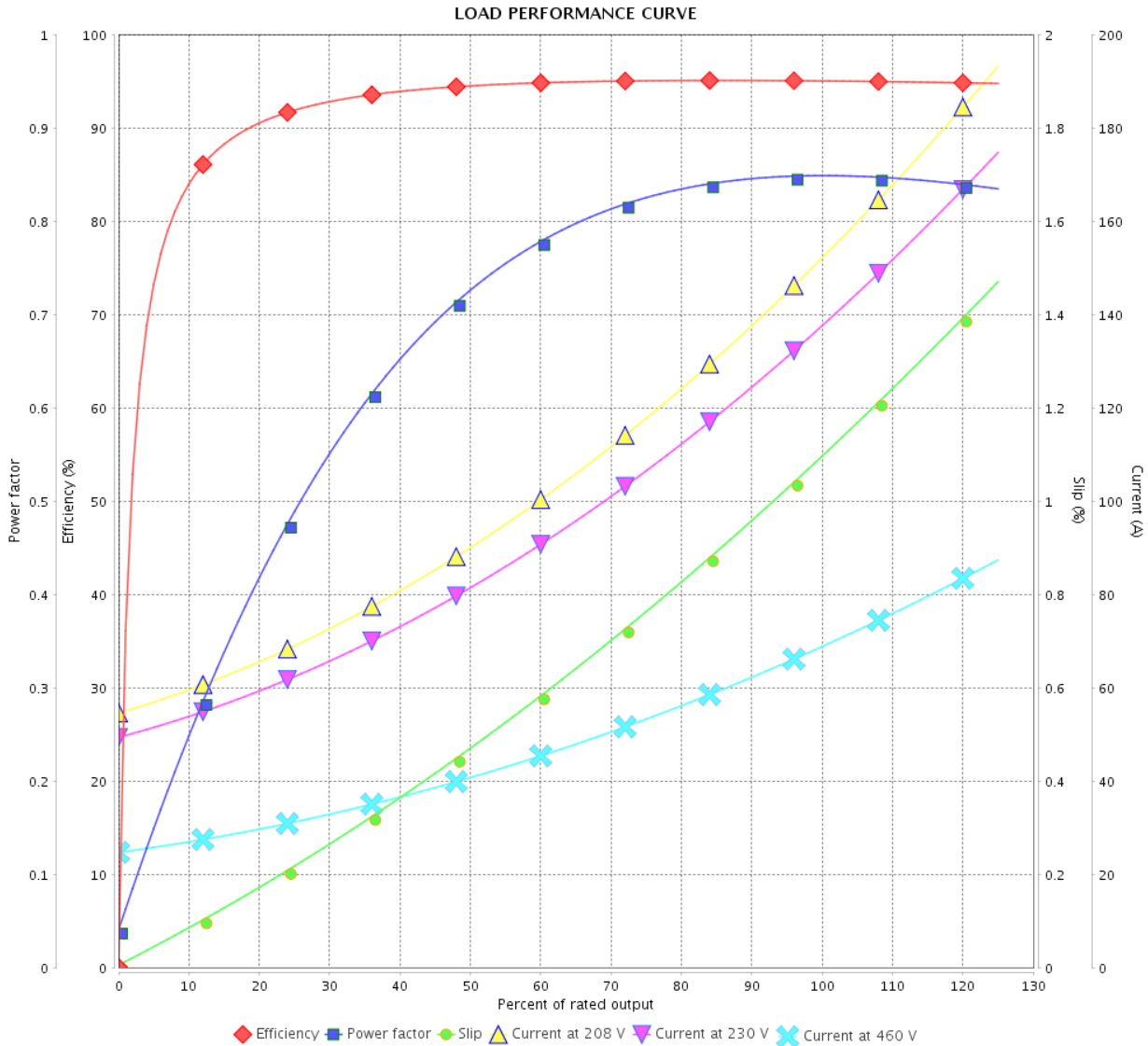


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40



Performance : 230/460 V 60 Hz 4P

Rated current : 140/69.9 A  
 LRC : 6.5  
 Rated torque : 177 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 240 %  
 Rated speed : 1780 rpm

Moment of inertia (J) : 15.6 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

| Rev.         | Changes Summary | Performed | Checked        | Date     |
|--------------|-----------------|-----------|----------------|----------|
|              |                 |           |                |          |
| Performed by |                 |           | Page<br>6 / 21 | Revision |
| Checked by   |                 |           |                |          |
| Date         | 12/04/2022      |           |                |          |

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

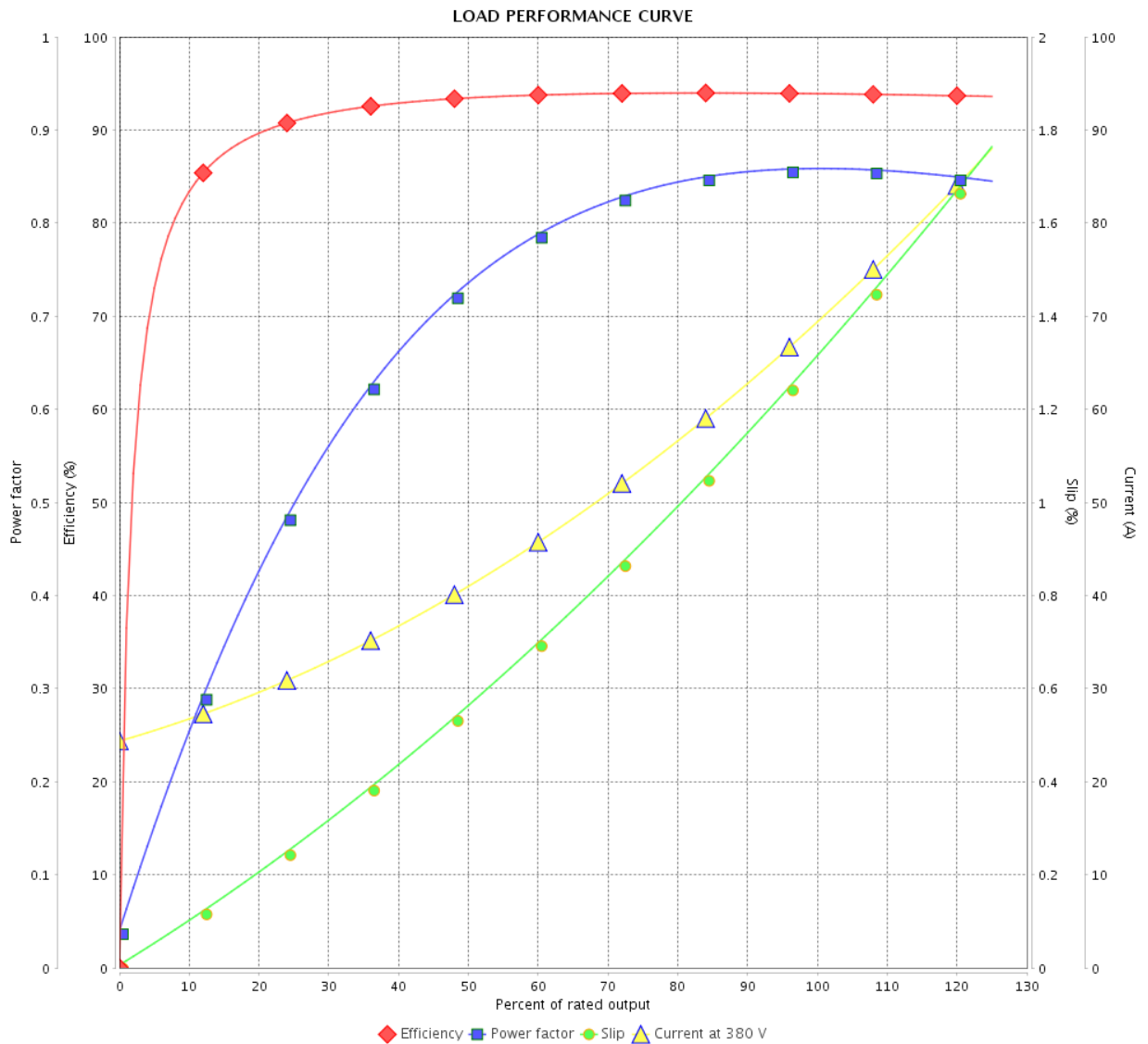


Customer : \_\_\_\_\_

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40



Performance : 380 V 50 Hz 4P IE3

Rated current : 69.6 A  
 LRC : 6.8  
 Rated torque : 177 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 229 %  
 Rated speed : 1480 rpm

Moment of inertia (J) : 15.6 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

| Rev.         | Changes Summary | Performed  | Checked | Date     |
|--------------|-----------------|------------|---------|----------|
|              |                 |            |         |          |
| Performed by |                 | Page       |         | Revision |
| Checked by   |                 | 7 / 21     |         |          |
| Date         |                 | 12/04/2022 |         |          |

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

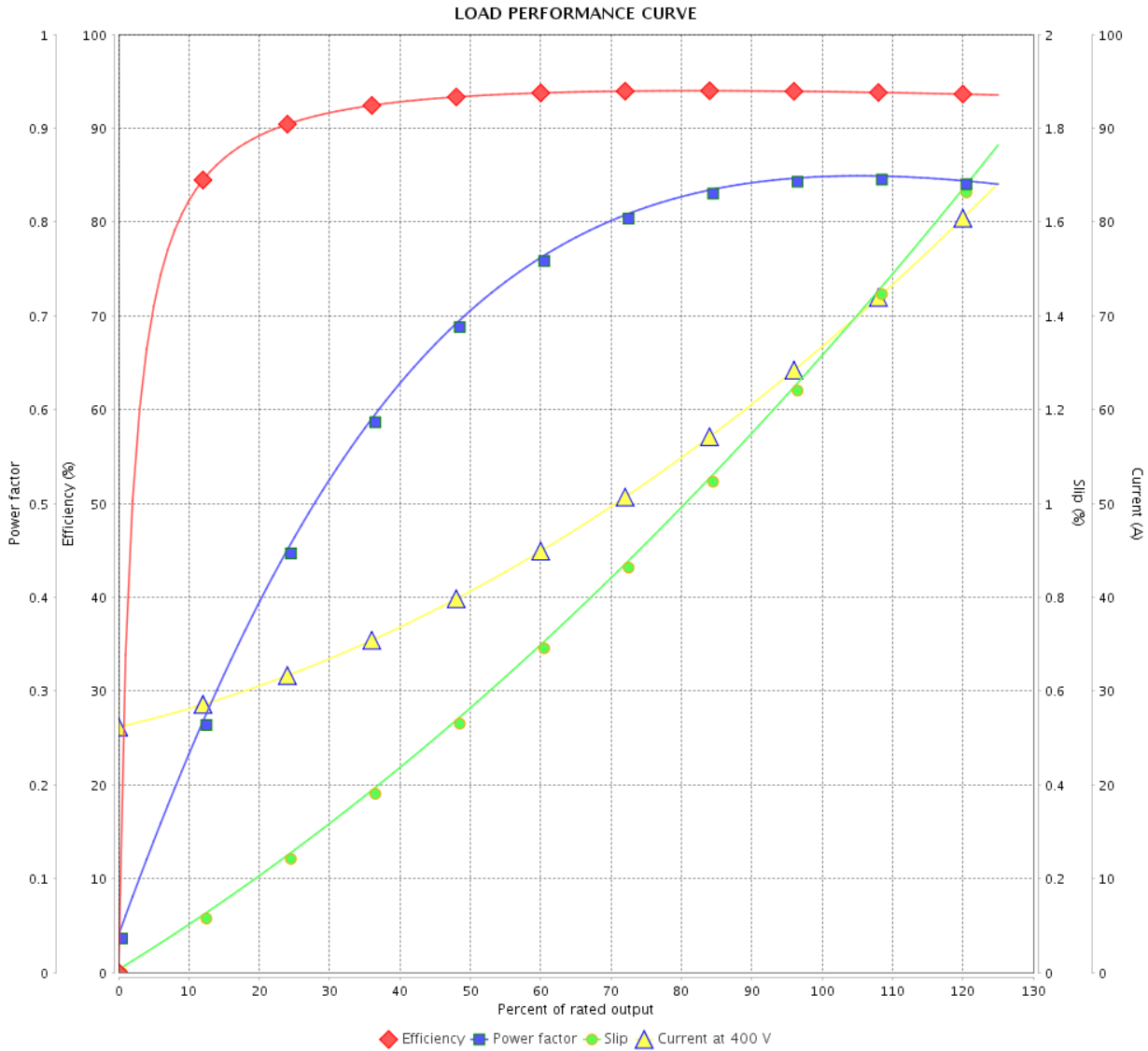


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40



Performance : 400 V 50 Hz 4P IE3

Rated current : 66.9 A  
LRC : 7.2  
Rated torque : 177 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 250 %  
Rated speed : 1480 rpm

Moment of inertia (J) : 15.6 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 |           | Page    | Revision |
| Checked by   |                 |           | 8 / 21  |          |
| Date         | 12/04/2022      |           |         |          |



# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

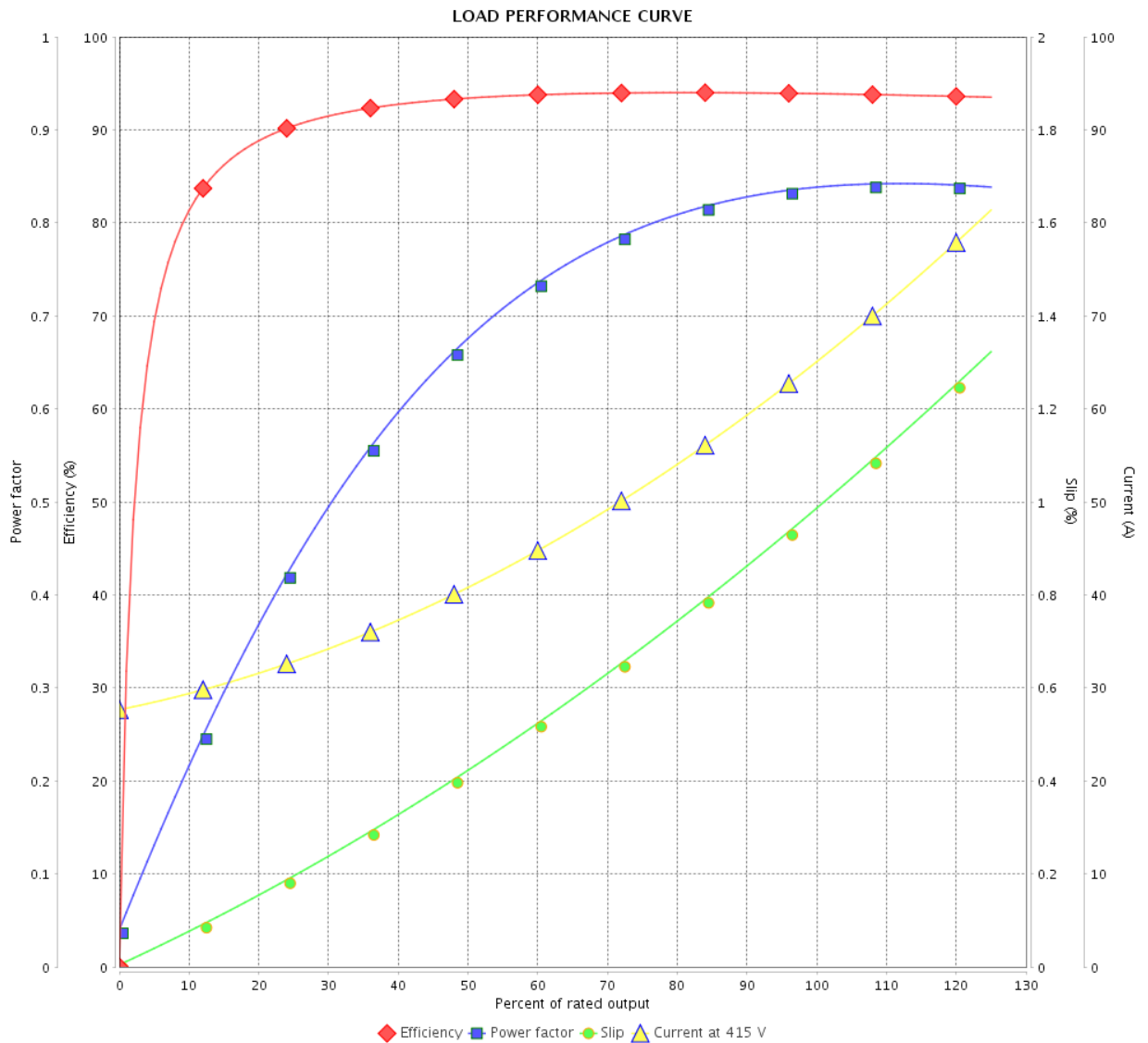


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40



Performance : 415 V 50 Hz 4P IE3

Rated current : 65.3 A  
 LRC : 7.0  
 Rated torque : 177 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 270 %  
 Rated speed : 1485 rpm

Moment of inertia (J) : 15.6 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 |           | Page    | Revision |
| Checked by   |                 |           | 9 / 21  |          |
| Date         | 12/04/2022      |           |         |          |

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase  
 Product code : 14270884  
 Catalog # : 06018OT3E364T-W40

Performance : 230/460 V 60 Hz 4P

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 140/69.9 A  | Moment of inertia (J) : 15.6 sq.ft.lb |
| LRC : 6.5                   | Duty cycle : Cont.(S1)                |
| Rated torque : 177 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 200 % | Service factor : 1.25                 |
| Breakdown torque : 240 %    | Temperature rise : 80 K               |
| Rated speed : 1780 rpm      | Design : B                            |

Heating constant

Cooling constant

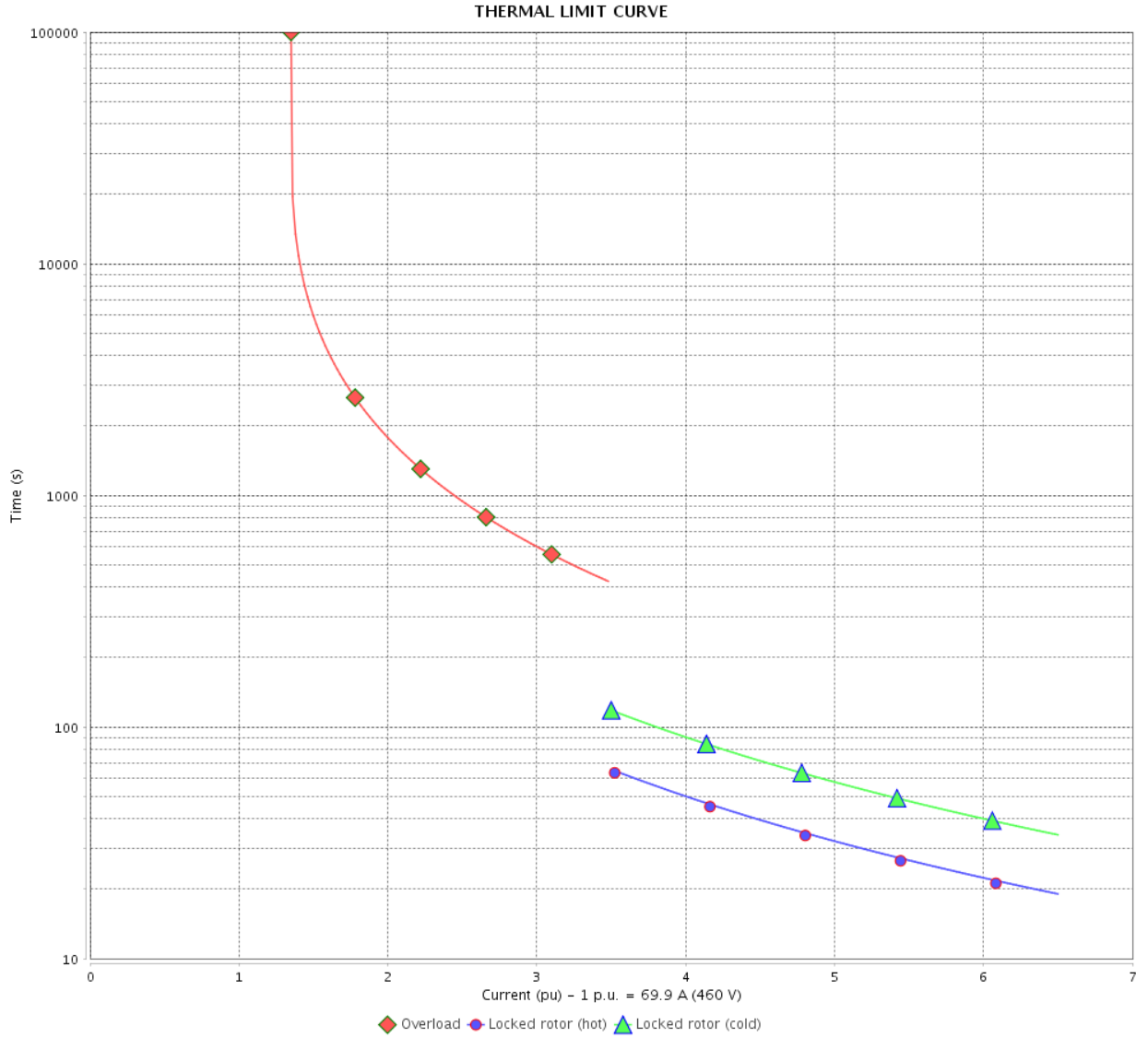
| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>10 / 21 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



| Rev.         | Changes Summary | Performed  | Checked | Date     |
|--------------|-----------------|------------|---------|----------|
|              |                 |            |         |          |
| Performed by |                 | Page       |         | Revision |
| Checked by   |                 | 11 / 21    |         |          |
| Date         |                 | 12/04/2022 |         |          |

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase  
 Product code : 14270884  
 Catalog # : 06018OT3E364T-W40

Performance : 380 V 50 Hz 4P IE3

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 69.6 A      | Moment of inertia (J) : 15.6 sq.ft.lb |
| LRC : 6.8                   | Duty cycle : Cont.(S1)                |
| Rated torque : 177 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 200 % | Service factor : 1.00                 |
| Breakdown torque : 229 %    | Temperature rise : 80 K               |
| Rated speed : 1480 rpm      | Design : B                            |

Heating constant

Cooling constant

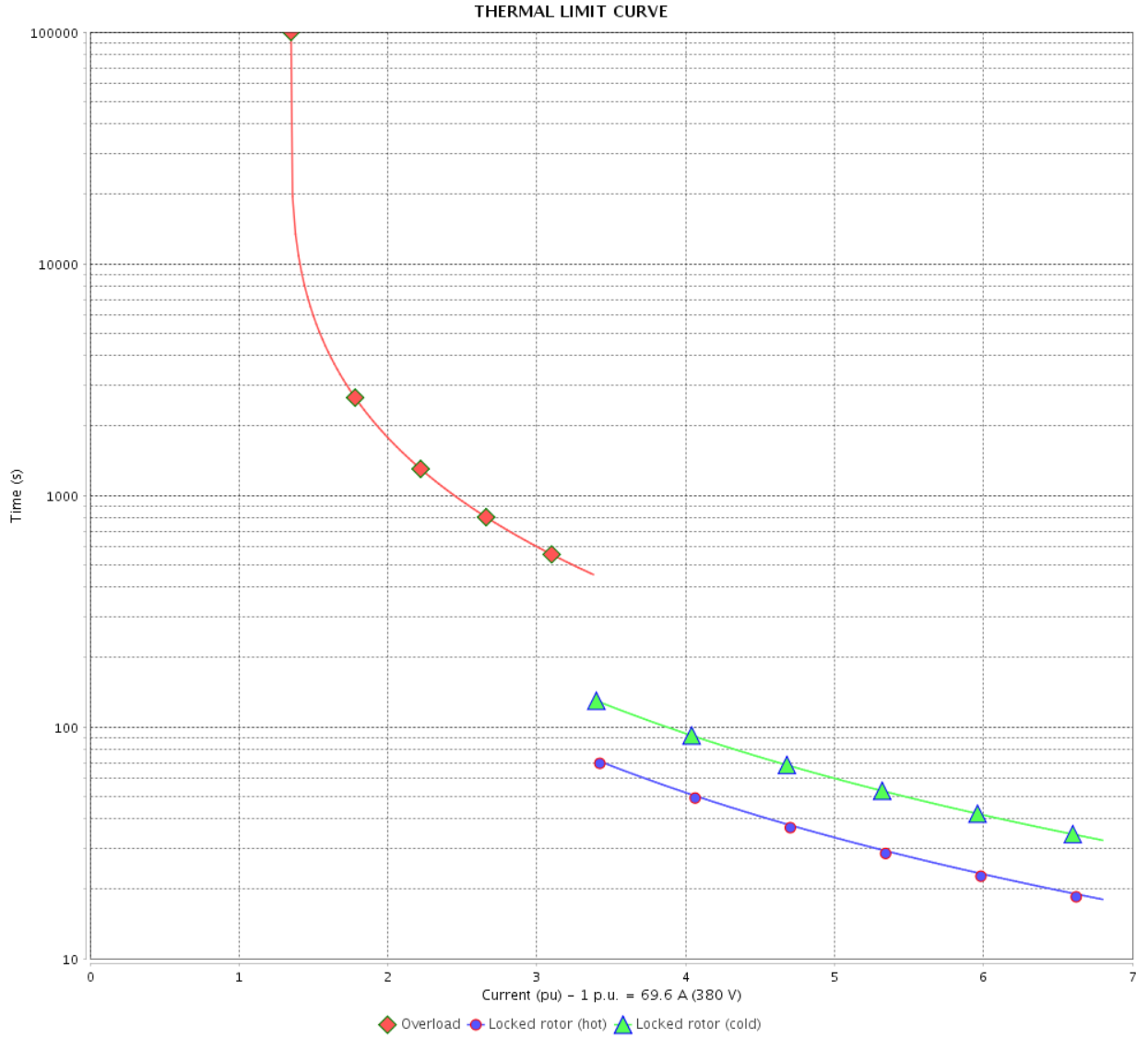
| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>12 / 21 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



| Rev.         | Changes Summary | Performed  | Checked | Date     |
|--------------|-----------------|------------|---------|----------|
|              |                 |            |         |          |
| Performed by |                 | Page       |         | Revision |
| Checked by   |                 | 13 / 21    |         |          |
| Date         |                 | 12/04/2022 |         |          |

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase  
 Product code : 14270884  
 Catalog # : 06018OT3E364T-W40

Performance : 400 V 50 Hz 4P IE3

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 66.9 A      | Moment of inertia (J) : 15.6 sq.ft.lb |
| LRC : 7.2                   | Duty cycle : Cont.(S1)                |
| Rated torque : 177 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 220 % | Service factor : 1.00                 |
| Breakdown torque : 250 %    | Temperature rise : 80 K               |
| Rated speed : 1480 rpm      | Design : B                            |

Heating constant

Cooling constant

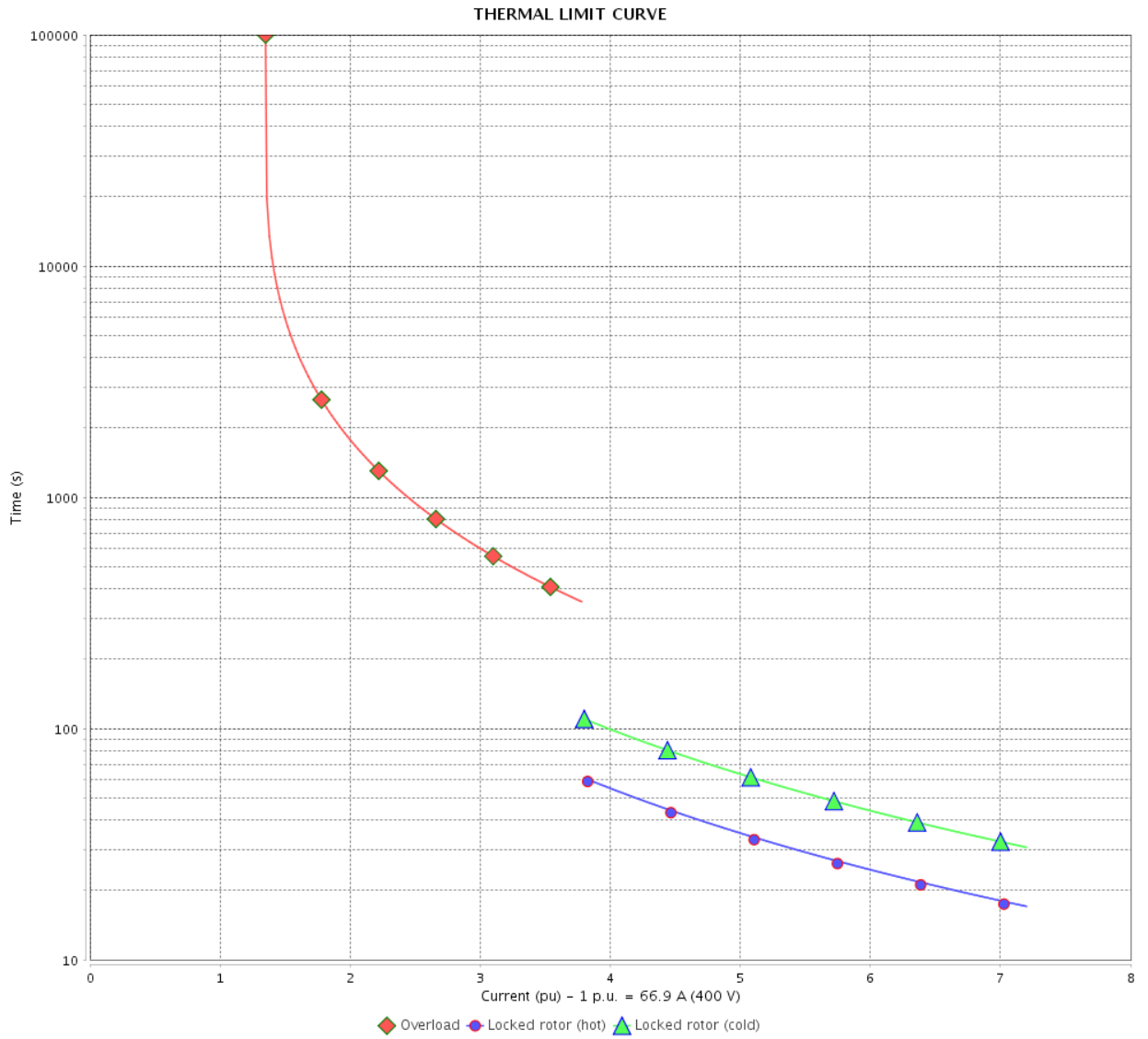
| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>14 / 21 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



| Rev.         | Changes Summary | Performed       | Checked | Date     |
|--------------|-----------------|-----------------|---------|----------|
|              |                 |                 |         |          |
| Performed by |                 | Page<br>15 / 21 |         | Revision |
| Checked by   |                 |                 |         |          |
| Date         |                 |                 |         |          |

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase  
 Product code : 14270884  
 Catalog # : 06018OT3E364T-W40

Performance : 415 V 50 Hz 4P IE3

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 65.3 A      | Moment of inertia (J) : 15.6 sq.ft.lb |
| LRC : 7.0                   | Duty cycle : Cont.(S1)                |
| Rated torque : 177 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 240 % | Service factor : 1.00                 |
| Breakdown torque : 270 %    | Temperature rise : 80 K               |
| Rated speed : 1485 rpm      | Design : B                            |

Heating constant

Cooling constant

| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>16 / 21 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |

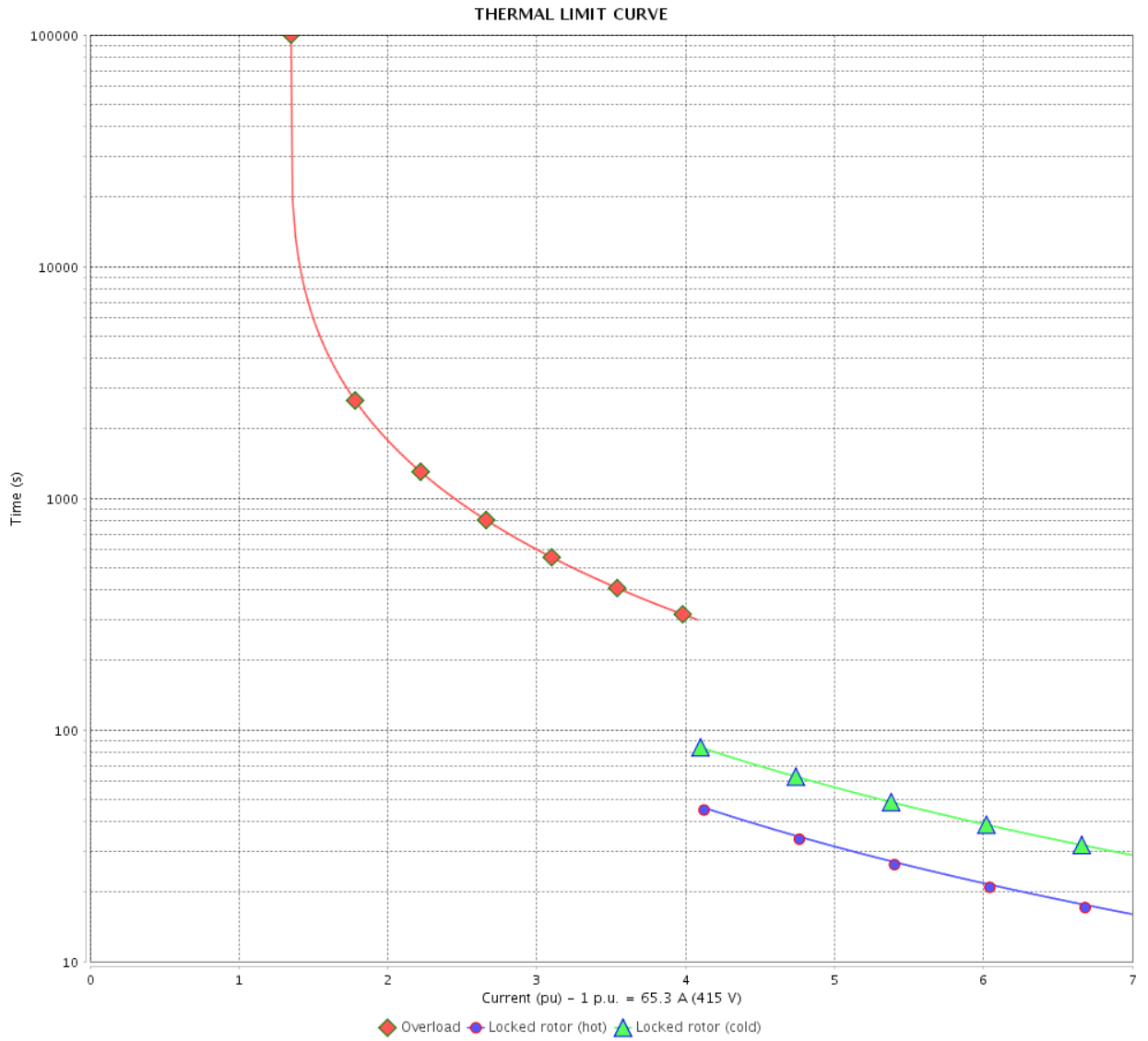


# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



| Rev.         | Changes Summary | Performed                     | Checked | Date |
|--------------|-----------------|-------------------------------|---------|------|
|              |                 |                               |         |      |
| Performed by |                 | Page<br>17 / 21      Revision |         |      |
| Checked by   |                 |                               |         |      |
| Date         |                 |                               |         |      |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

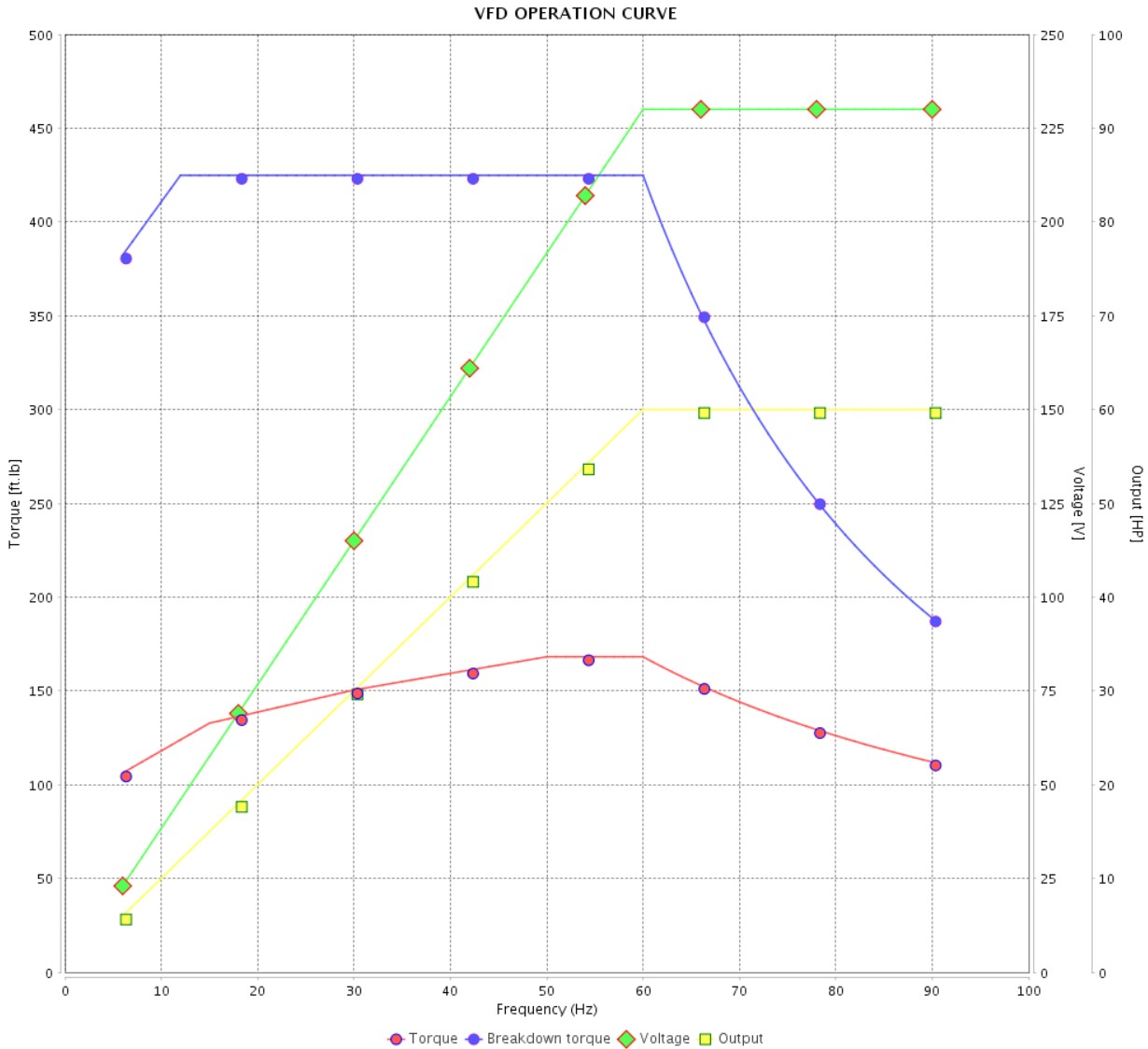


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40



Performance : 230/460 V 60 Hz 4P

Rated current : 140/69.9 A  
LRC : 6.5  
Rated torque : 177 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 240 %  
Rated speed : 1780 rpm

Moment of inertia (J) : 15.6 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>18 / 21 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

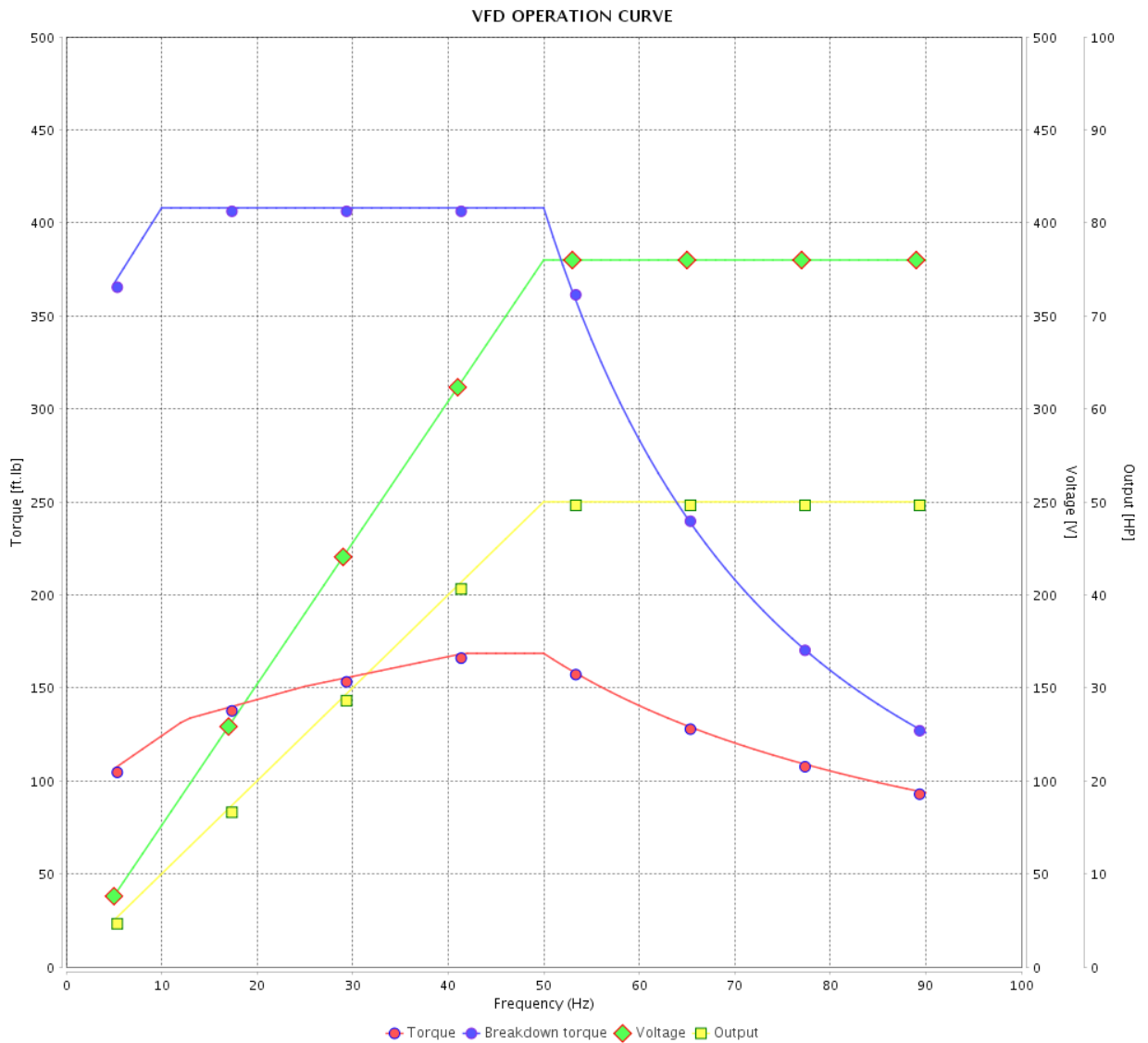


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40



Performance : 380 V 50 Hz 4P IE3

Rated current : 69.6 A  
LRC : 6.8  
Rated torque : 177 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 229 %  
Rated speed : 1480 rpm

Moment of inertia (J) : 15.6 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 |           | Page    | Revision |
| Checked by   |                 |           | 19 / 21 |          |
| Date         | 12/04/2022      |           |         |          |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



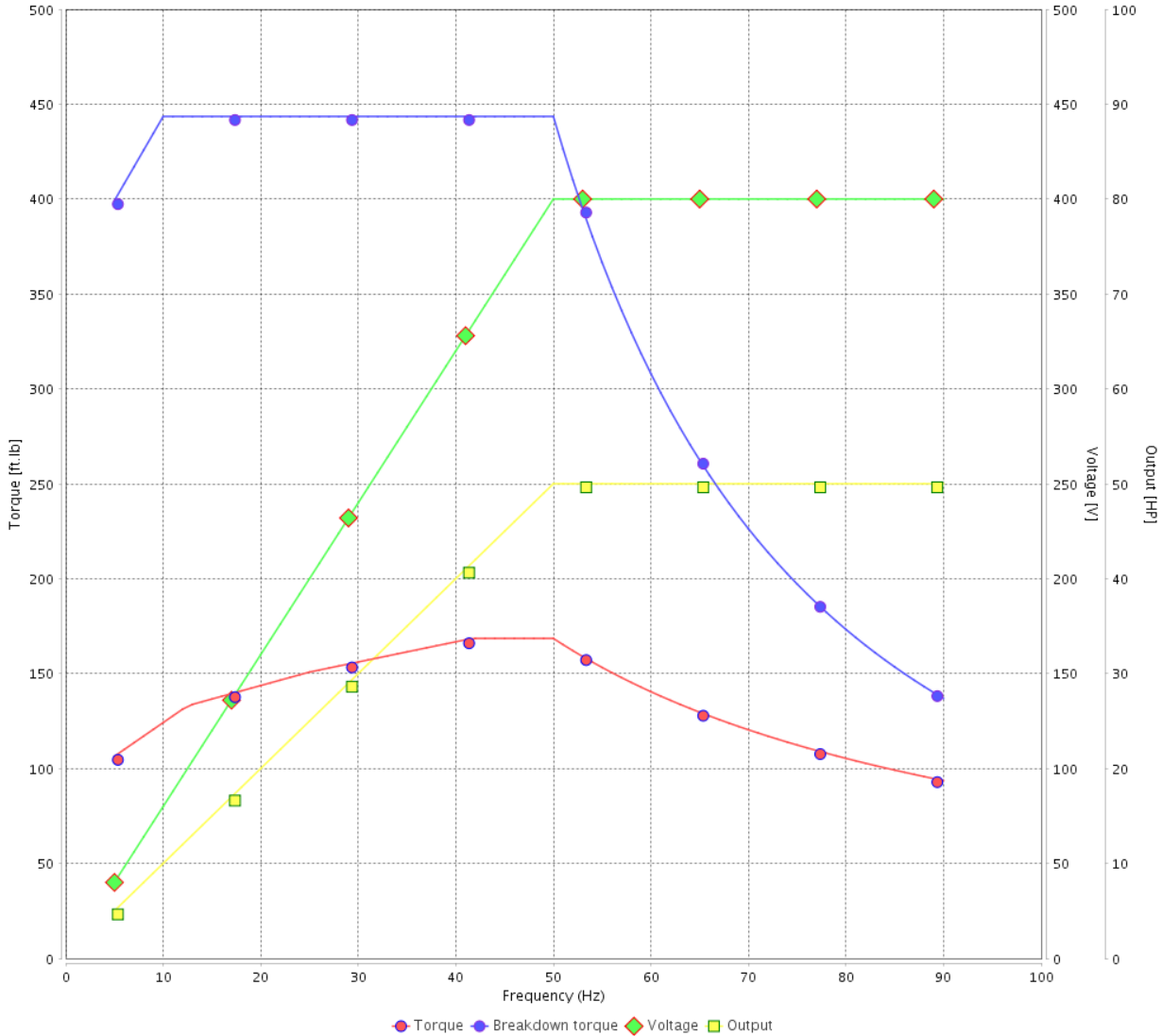
Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40

VFD OPERATION CURVE



Performance : 400 V 50 Hz 4P IE3

Rated current : 66.9 A  
LRC : 7.2  
Rated torque : 177 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 250 %  
Rated speed : 1480 rpm

Moment of inertia (J) : 15.6 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>20 / 21 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

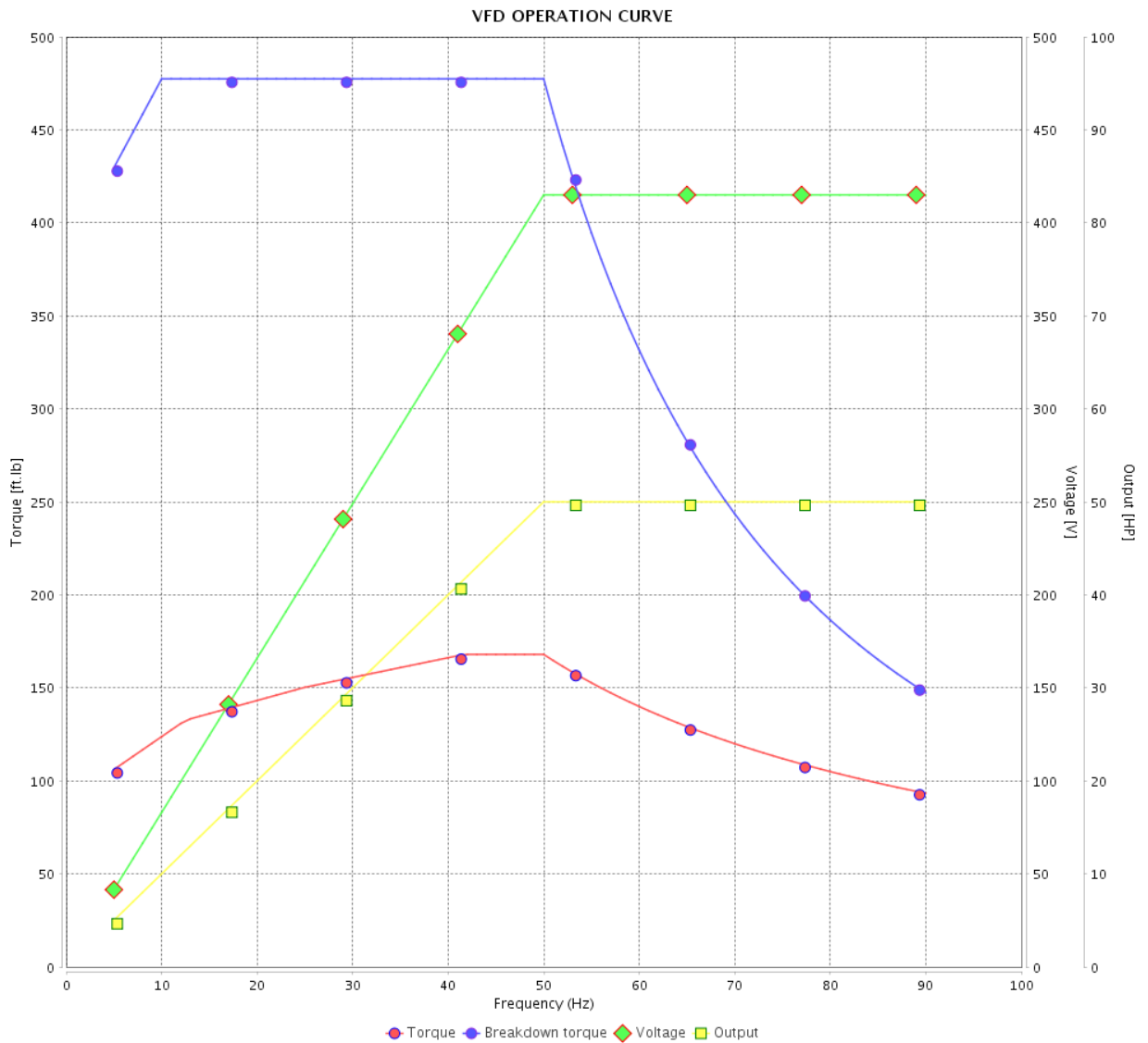


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270884

Catalog # : 06018OT3E364T-W40

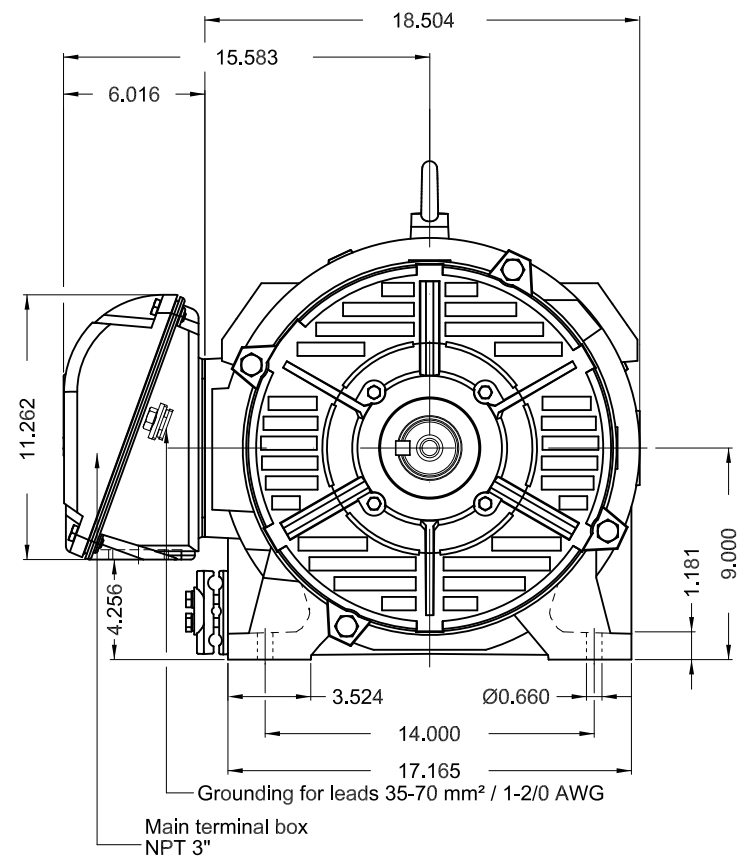


Performance : 415 V 50 Hz 4P IE3

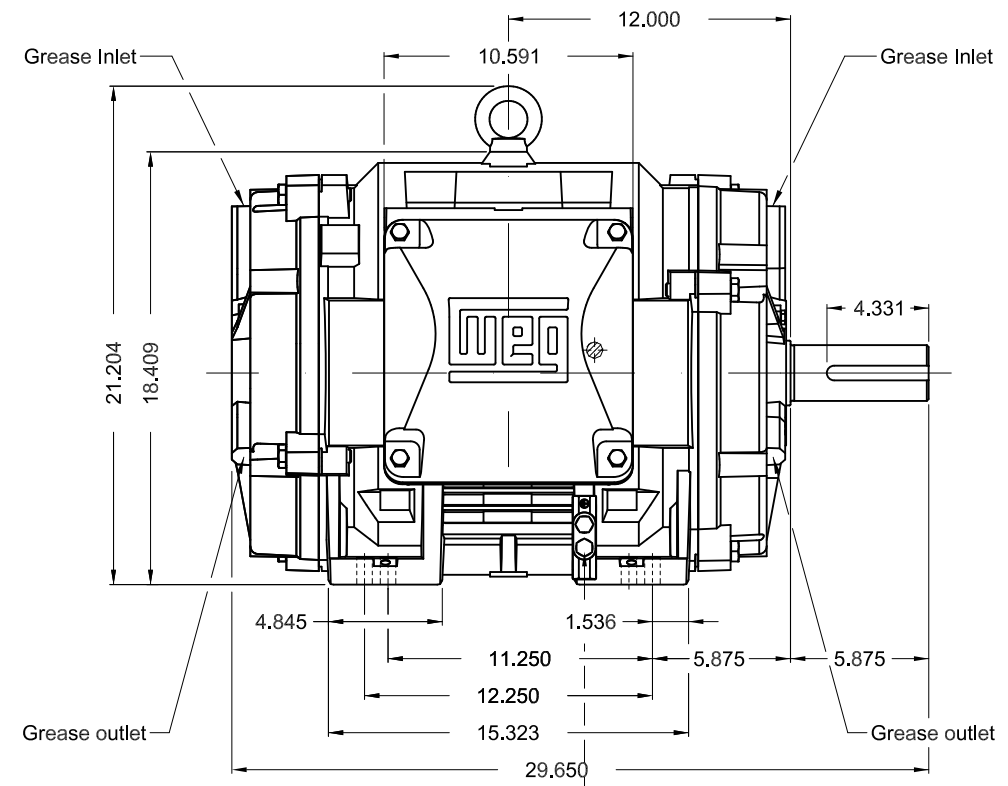
Rated current : 65.3 A  
LRC : 7.0  
Rated torque : 177 ft.lb  
Locked rotor torque : 240 %  
Breakdown torque : 270 %  
Rated speed : 1485 rpm

Moment of inertia (J) : 15.6 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>21 / 21 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |

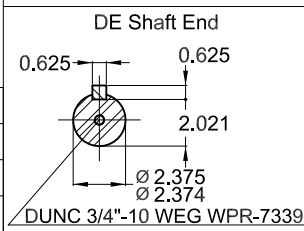


Grounding for leads 35-70 mm<sup>2</sup> / 1-2/0 AWG  
Main terminal box  
NPT 3"



Grounding for leads 25-185 mm<sup>2</sup> / 3AWG-350MCM

Color RAL 5009  
Painting plan 203A  
Mounting NEMA F-1  
Mounting B3R(D)



60 HP 04 Poles 60 Hz

A

1:8

| ECM      | LOC       | SUMMARY OF MODIFICATIONS       | EXECUTED            | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--------------------------------|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR W40 PREM. EFF. |                     |         |          |      |     |
| CHECKED  |           | FRAME 364/5T IP23 ODP          |                     |         |          |      |     |
| RELEASED |           |                                |                     |         |          |      |     |
| REL DT.  | WMO       | Jaragua do Sul                 | Product Engineering | SHEET   | 1 / 1    |      |     |

PREVIEW  
WDD



**WEG** **W40 NEMA**  
**CC029A Premium**  
*Inverter Duty Motor*



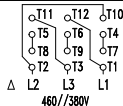
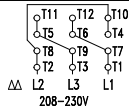
IEC 60034-1  
 MOD.T01#FOXON



For 60Hz use on PWM, VT 1000:1, CT 2:1, 1.0SF

MODEL 060180T3E364T-W40  
 MADE IN BRAZIL  
 14270884

|                                                          |                            |                   |              |
|----------------------------------------------------------|----------------------------|-------------------|--------------|
| PH 3                                                     | FR 364/5T                  | HP(kW) 60.0(45.0) | Hz 60        |
| V 230/460                                                | A 140/69.9                 | RPM 1780          | DES B        |
| NEMA NOM EFF 95.0 %                                      | INS. CL. F $\Delta$ T 80 K | IP23              |              |
| ENCL ODP                                                 | DUTY CONT.                 | AMB. 40°C         |              |
| CODE G                                                   | PF 0.85                    | SF 1.25           | SFA 175/87.4 |
| USABLE @208V 155 A                                       | SF 1.15                    | SFA 178           |              |
| 50HP 37kW 50Hz 380V 69.6A 1480RPM SF1.00 EFF 93.9% (IE3) | ALT 1000 m.a.s.l.          | 745 Lbs           |              |



→ 6314-C3(27g)  
 → 6212-Z-C3(13g)

MOBIL POLYREX EM  
 20000 h