

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |   |                             |  |                      |          |
|--|---|-----------------------------|--|----------------------|----------|
| Customer :   |   |                             |  |                      |          |
| Product line   | : W40 NEMA Premium Efficiency<br>Three-Phase              | Product code :              | 14270886   |                      |          |
|  |   | Catalog # :                 | 06018OT3G364T-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> | : 785 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]  | 460   | 380                         | 400  | 415                  |          |
| Rated current [A]  | 69.9  | 69.6                        | 66.9   | 65.3                 |          |
| L. R. Amperes [A]  | 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]  | 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               | : 1243 lb  |                      |          |
|  | : Bearing Seal Bearing Seal                               | Max. compression            | : 2028 lb  |                      |          |
| Lubrication interval   | : 20000 h 20000 h   |                             |  |                      |          |
| Lubricant amount   | : 27 g 13 g   |                             |  |                      |          |
| Lubricant type   | : Mobil Polyrex EM  |                             |  |                      |          |
| Notes  |   |                             |  |                      |          |
| 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   |   |                             |  |                      |          |
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| Date   | 12/04/2022  |                             |  | 1 / 21               |          |

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



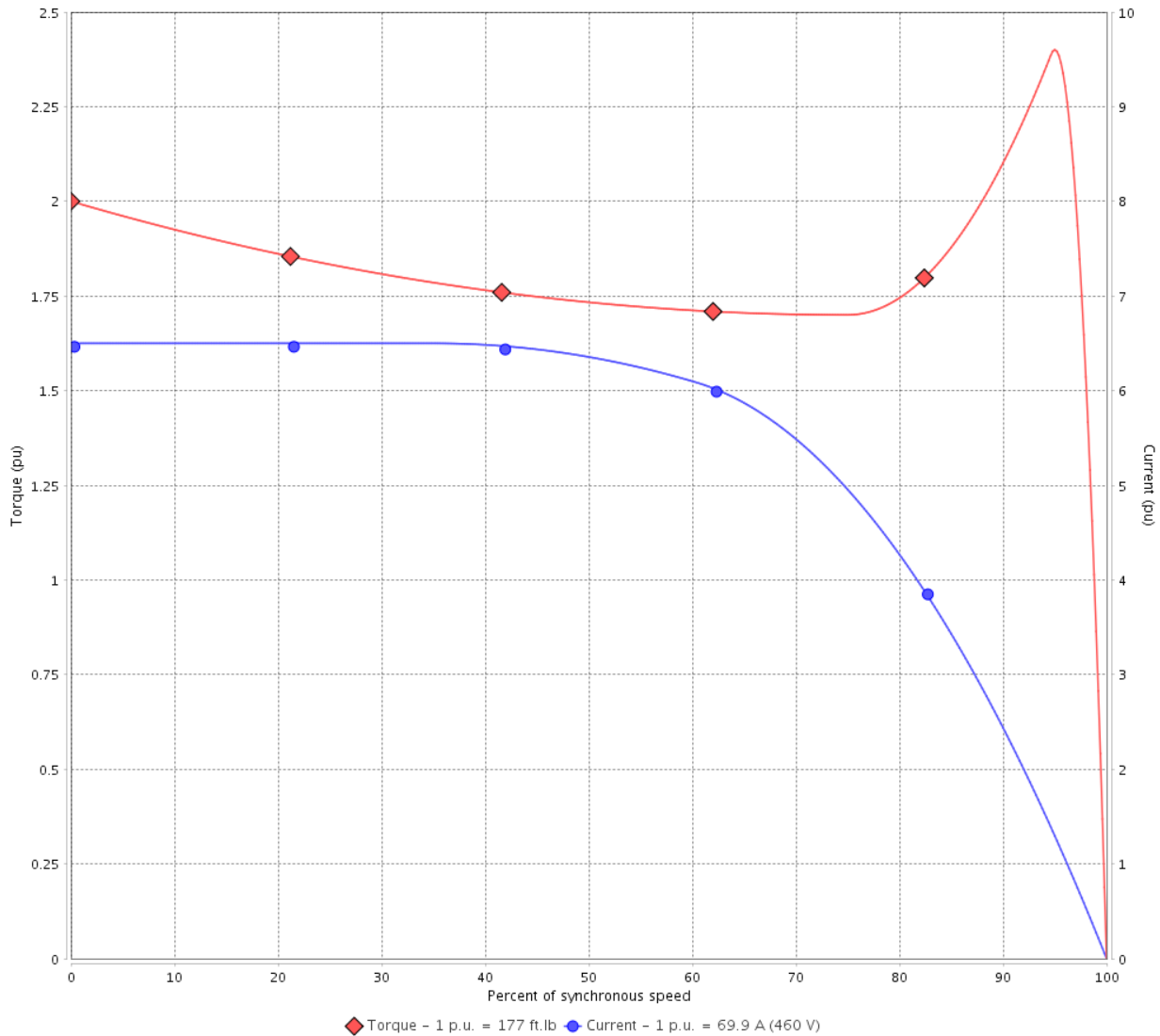
Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 4P

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 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             |

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

| Rev.         | Changes Summary | Performed | Checked        | Date     |
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# TORQUE AND CURRENT VS SPEED CURVE



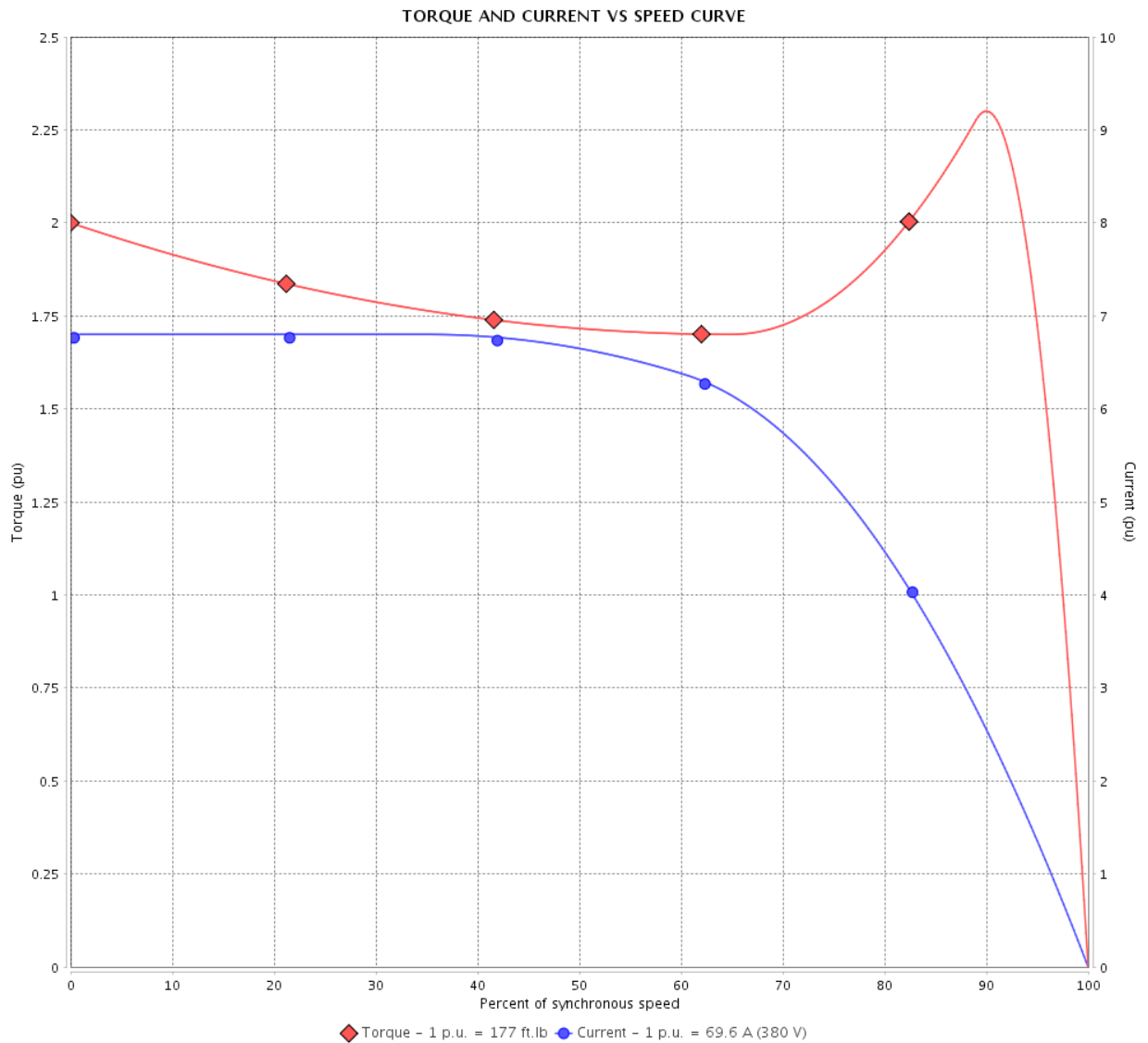
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-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     |
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# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



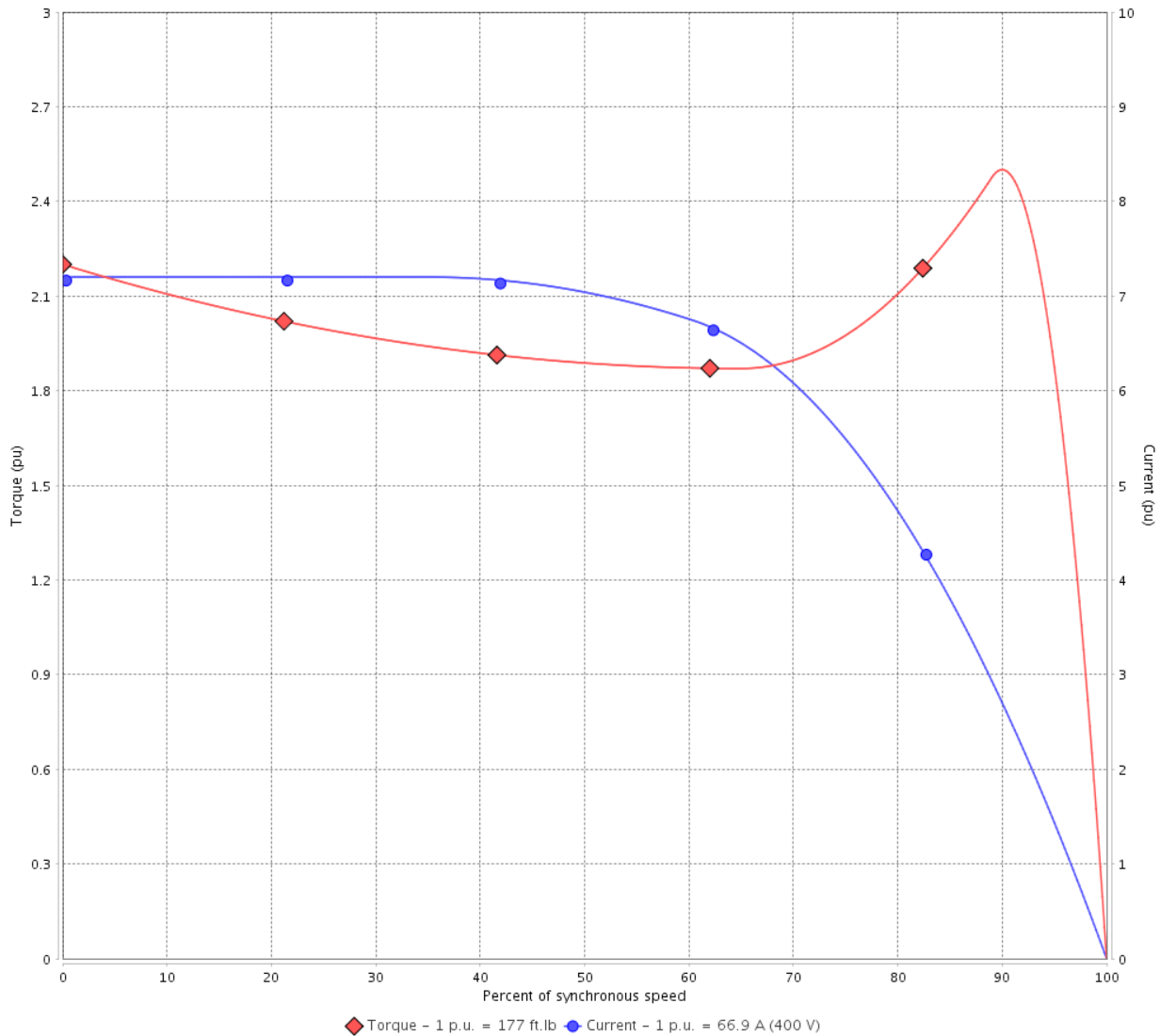
Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-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)

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# TORQUE AND CURRENT VS SPEED CURVE



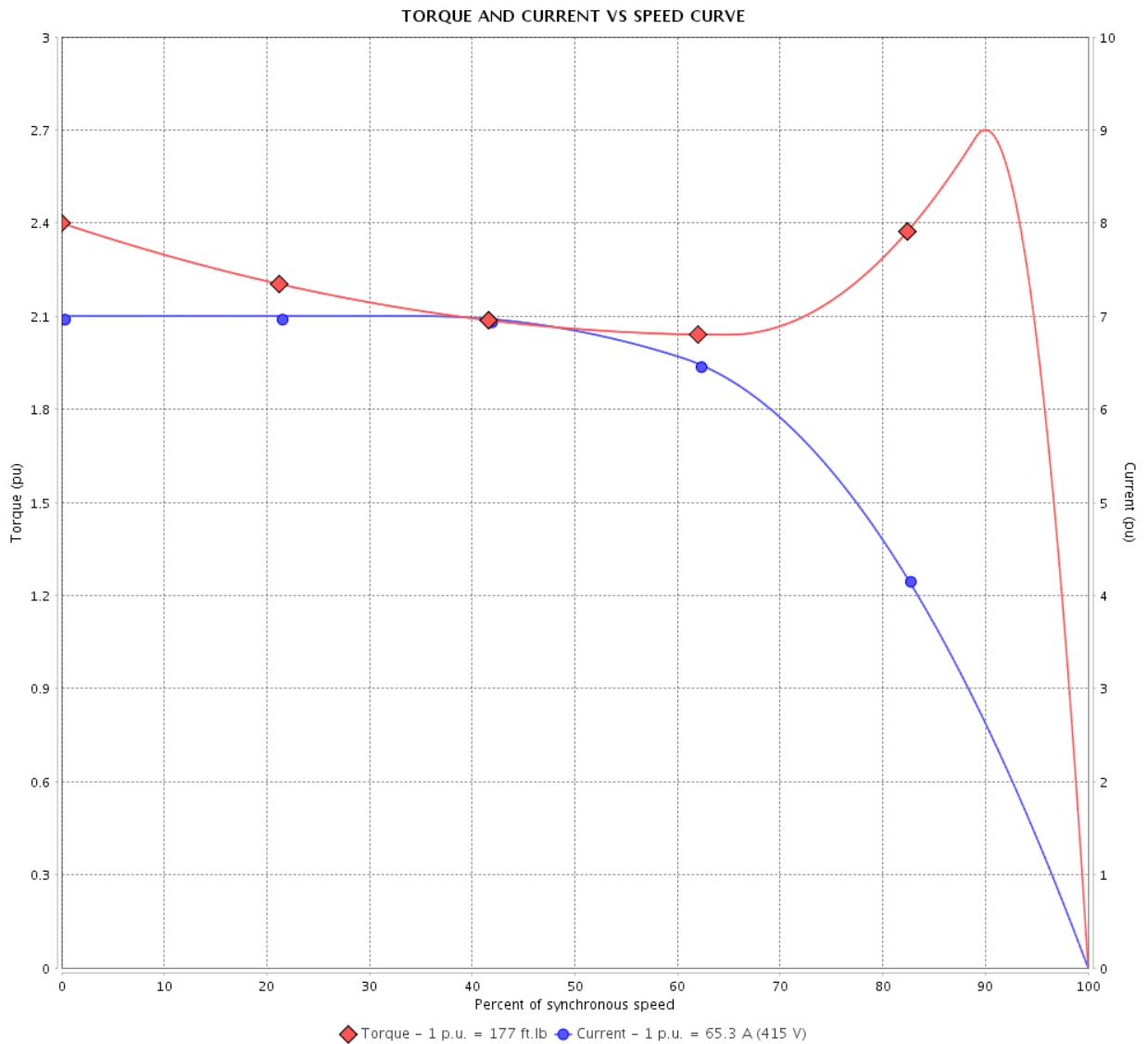
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-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)

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



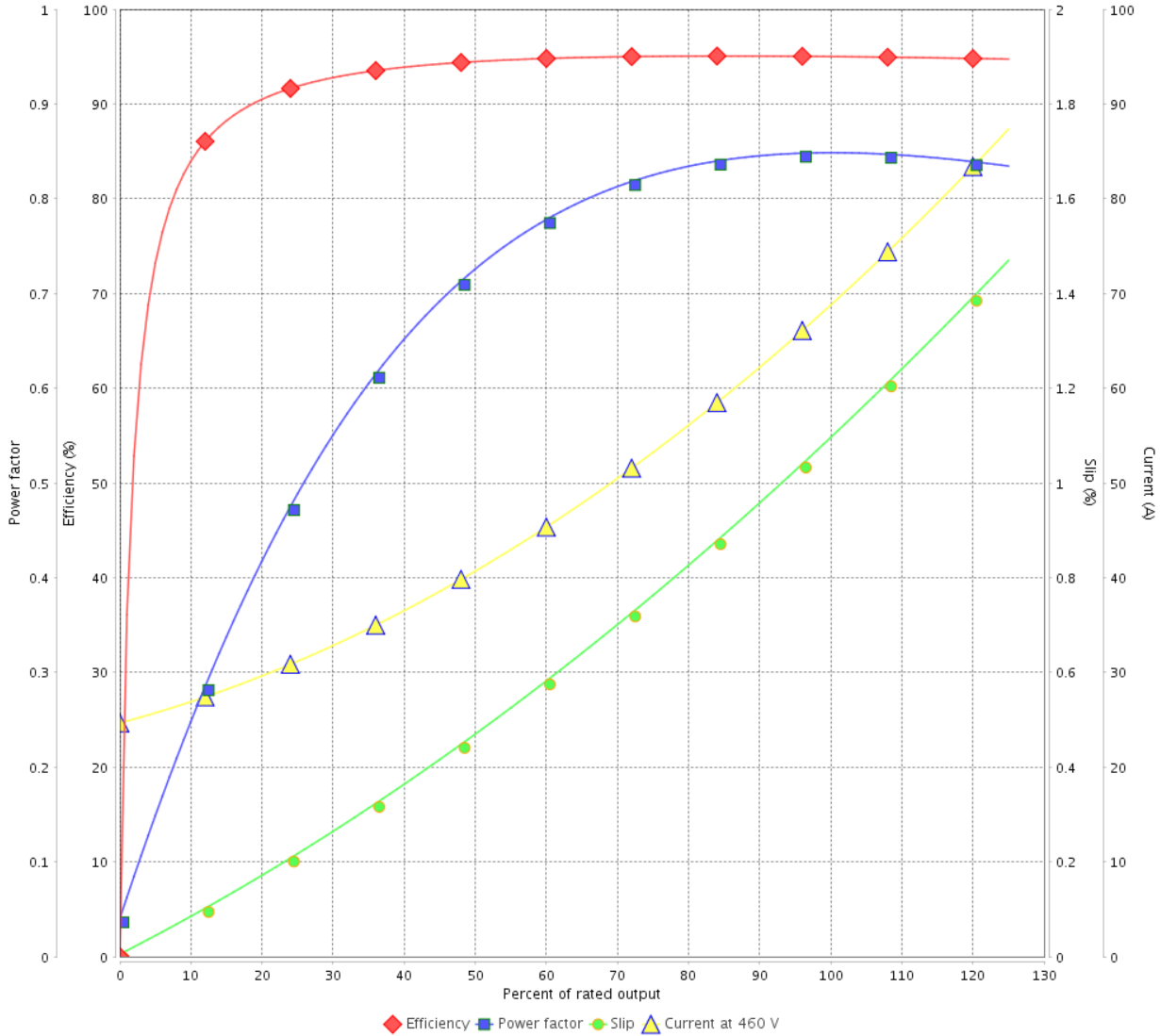
Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-W40

LOAD PERFORMANCE CURVE



Performance : 460 V 60 Hz 4P

Rated current : 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     |
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

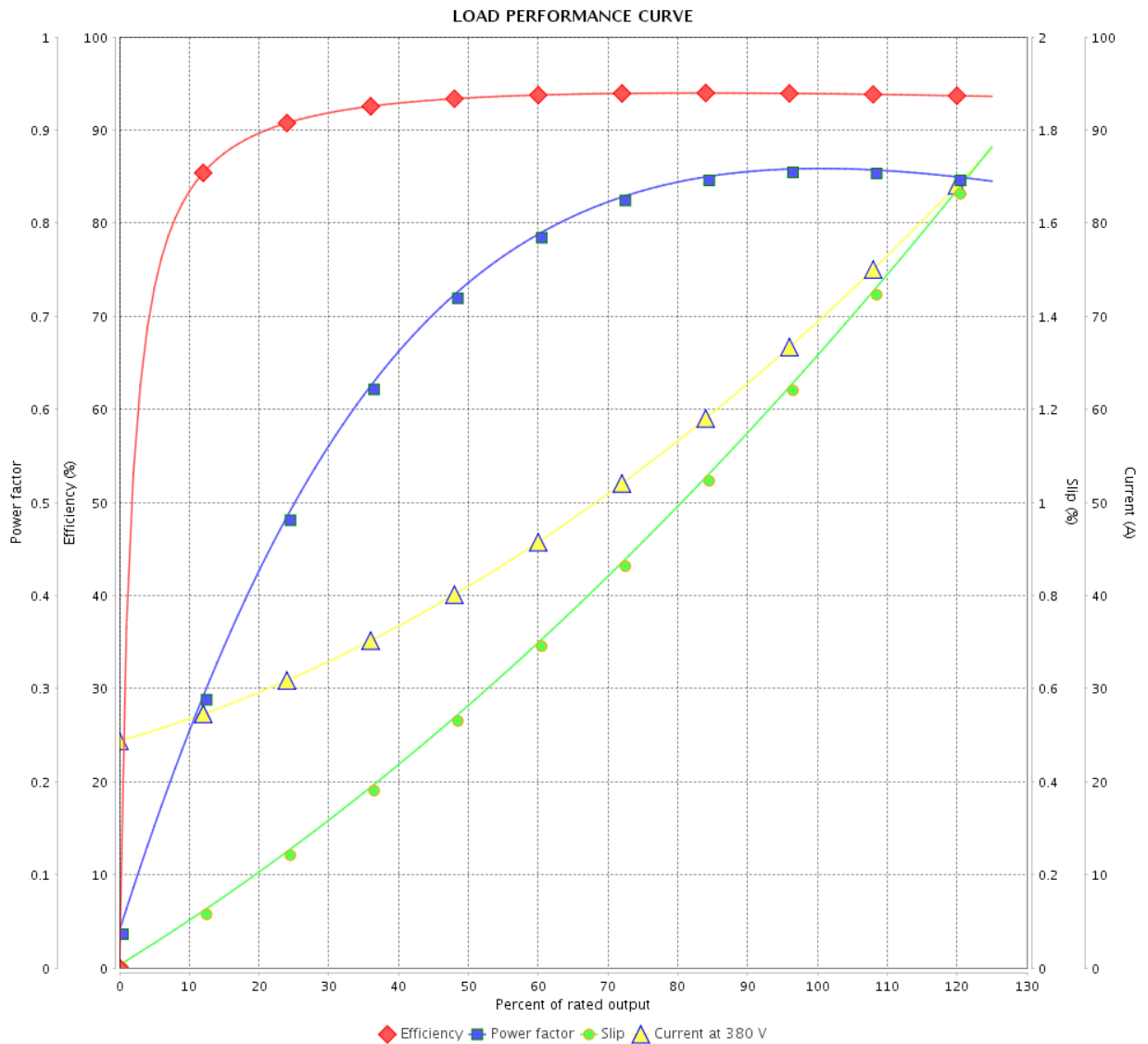


Customer : \_\_\_\_\_

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-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     |
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

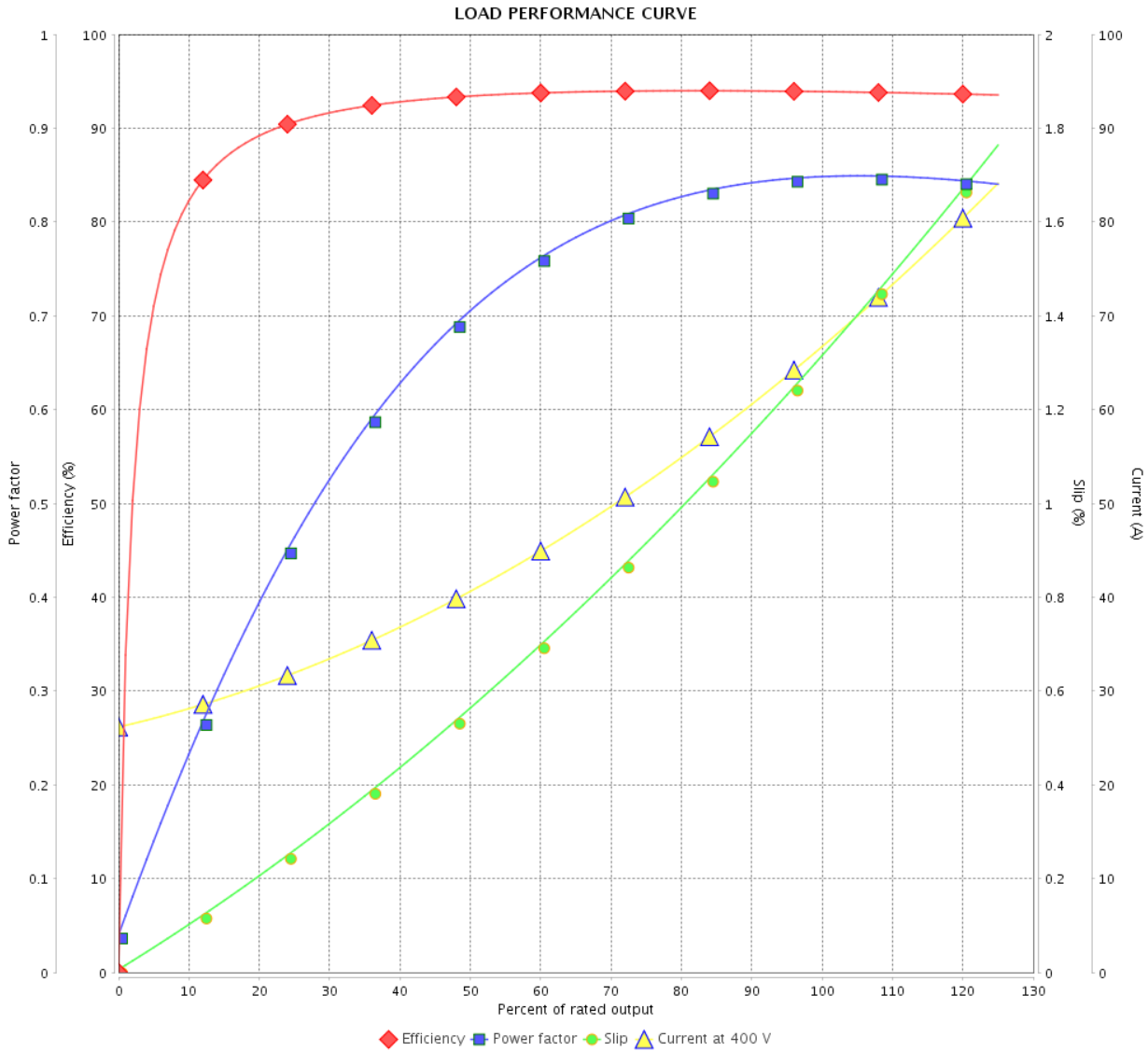


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-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     |
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

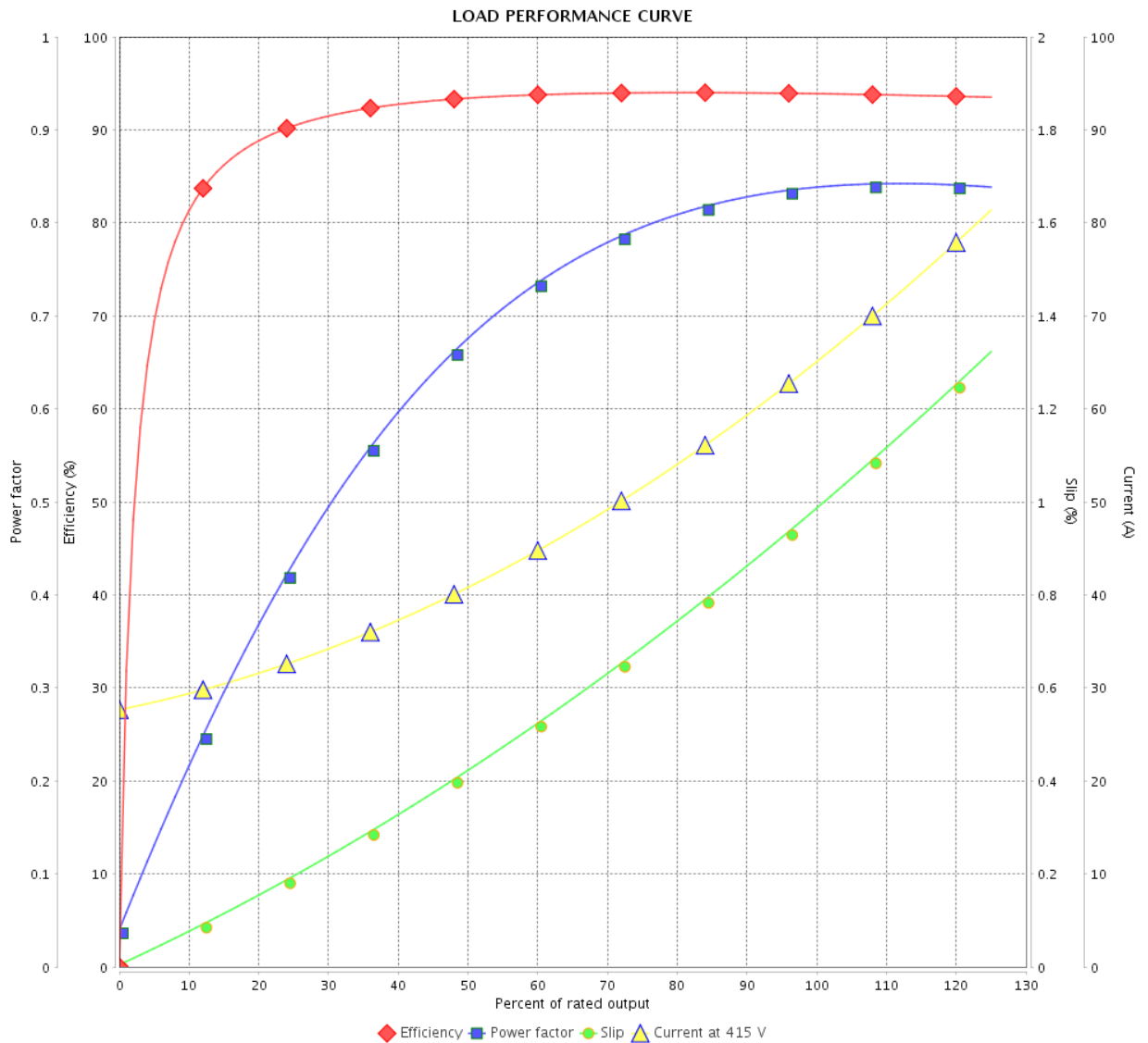


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-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     |
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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-W40

Performance : 460 V 60 Hz 4P

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 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

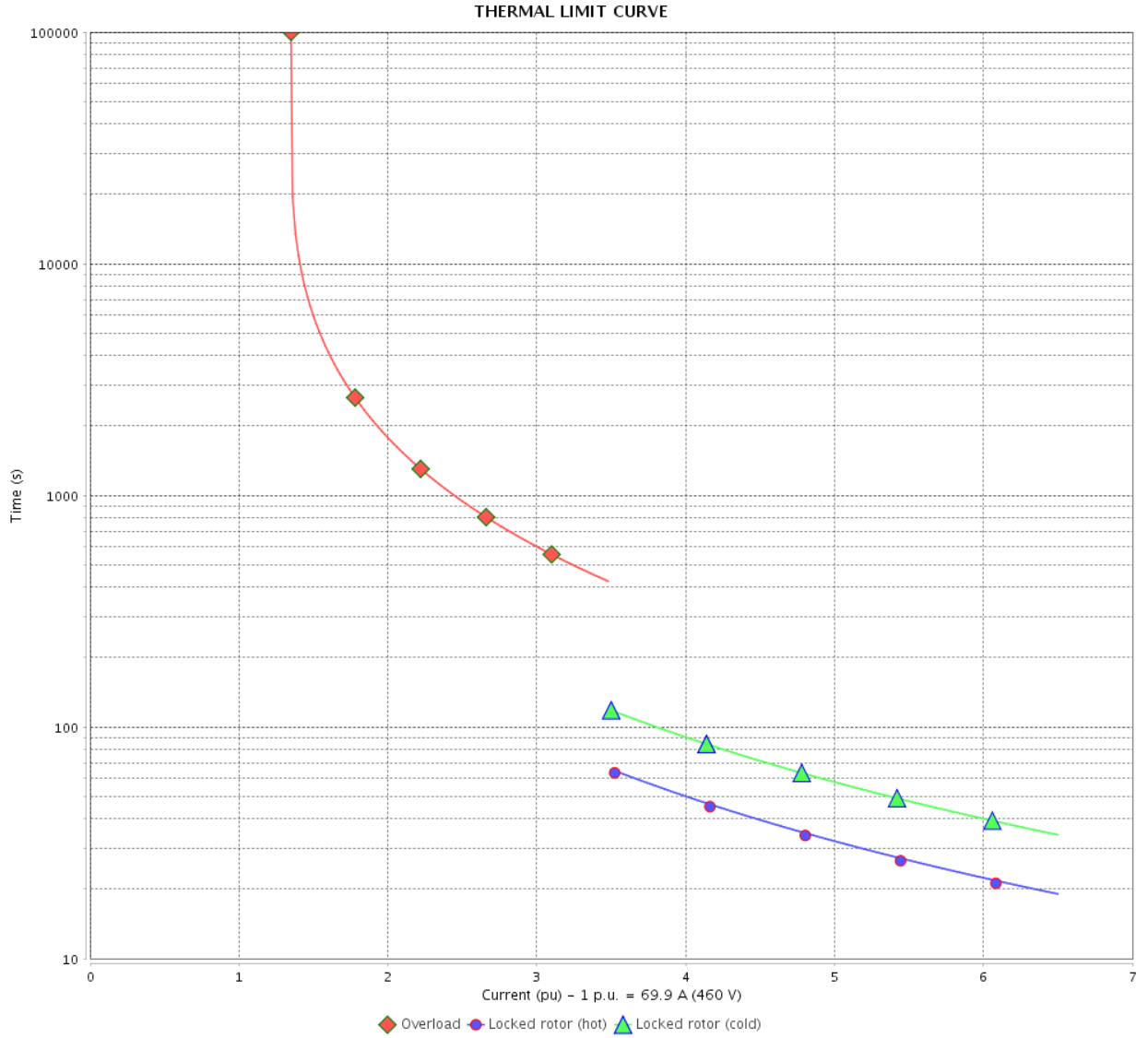
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-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

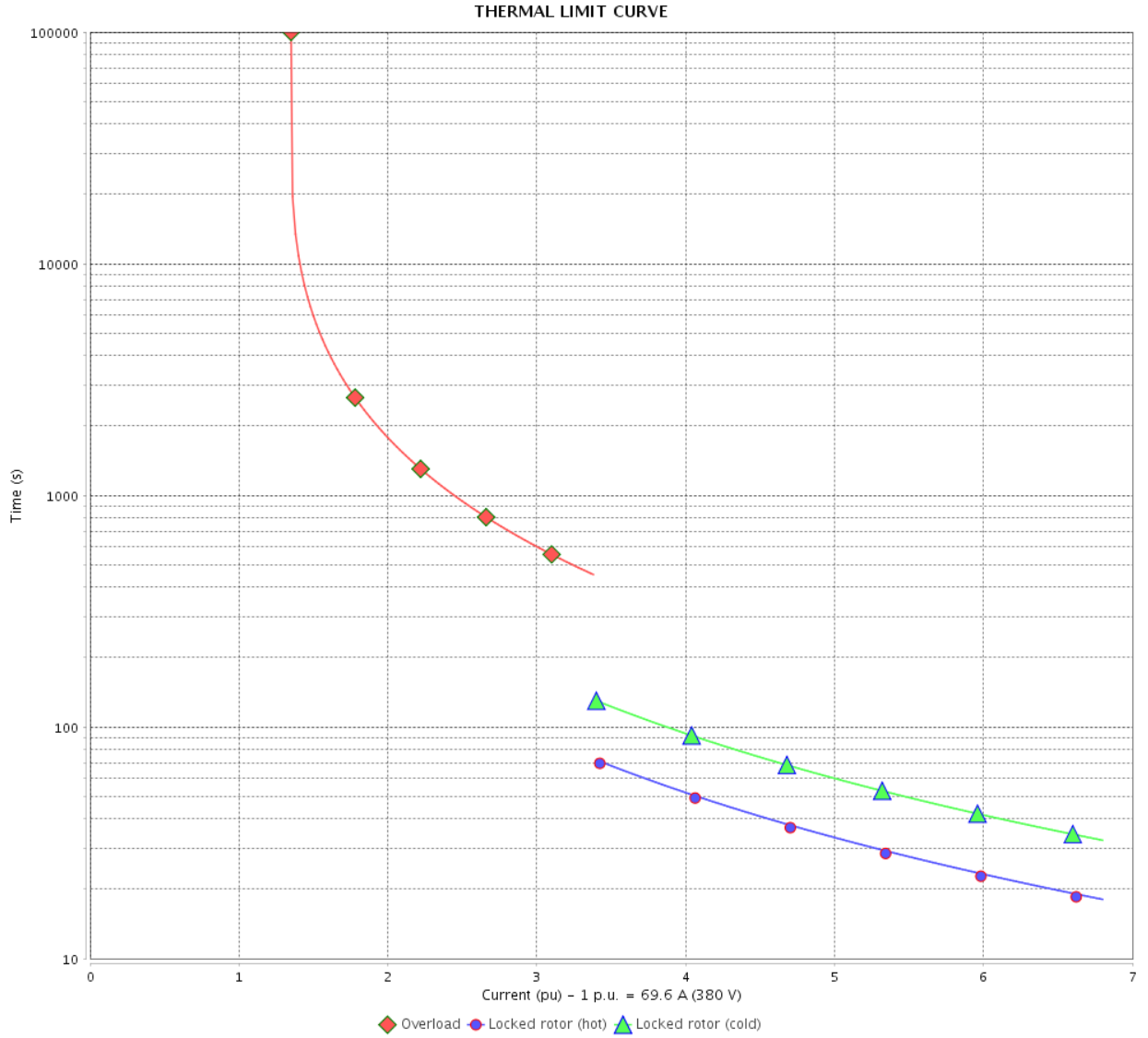
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



| Rev.         | Changes Summary | Performed  | Checked | Date     |
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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase  
 Product code : 14270886  
 Catalog # : 06018OT3G364T-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

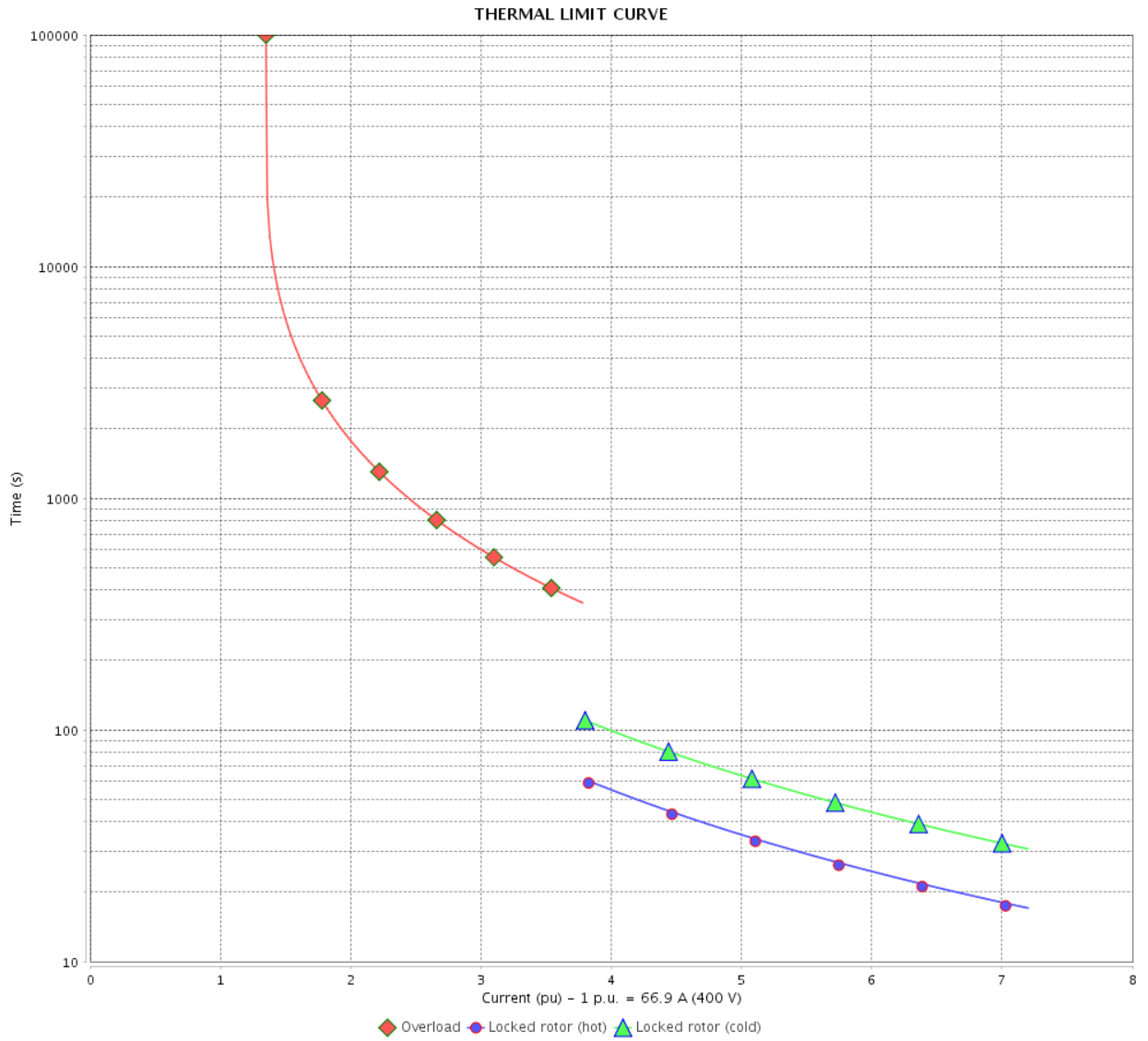
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



| Rev.         | Changes Summary | Performed       | Checked | Date     |
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| Date         |                 |                 |         |          |

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-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

Heating constant

Cooling constant

| Rev.         | Changes Summary | Performed | Checked | Date     |
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|              |                 |           |         |          |
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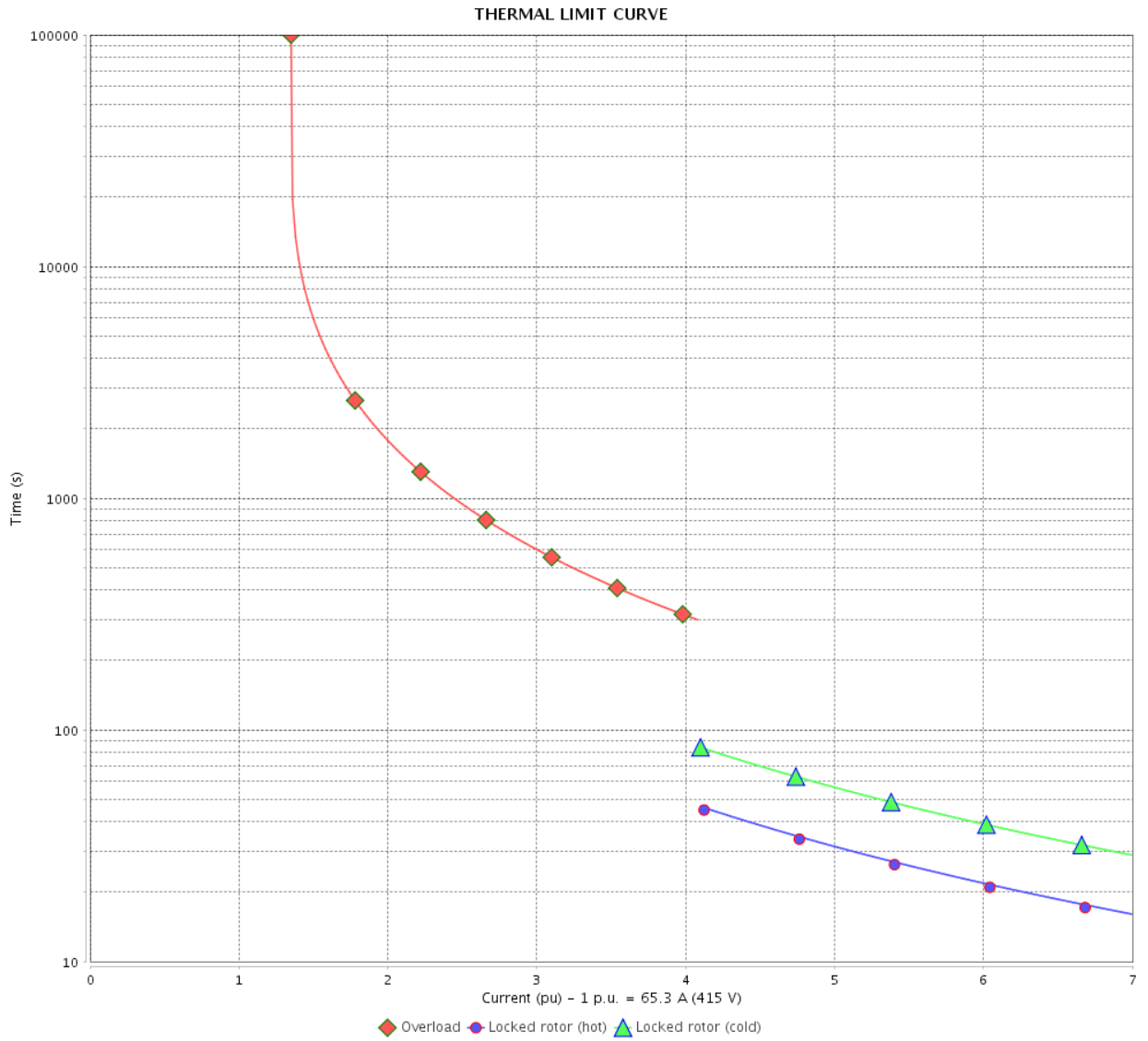


# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



| Rev.         | Changes Summary | Performed                     | Checked | Date |
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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



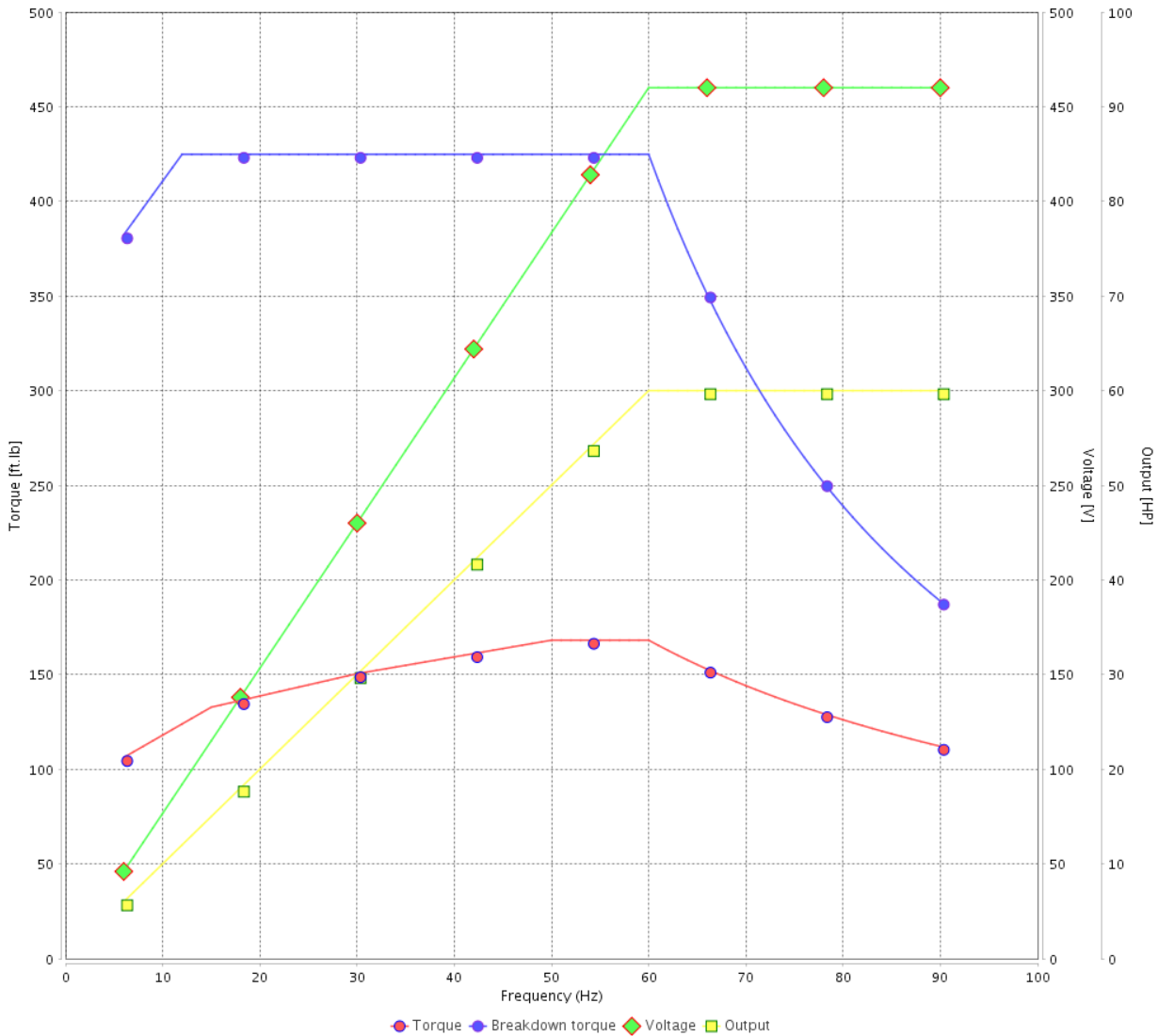
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Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-W40

VFD OPERATION CURVE



Performance : 460 V 60 Hz 4P

Rated current : 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     |
|--------------|-----------------|-----------|-----------------|----------|
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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

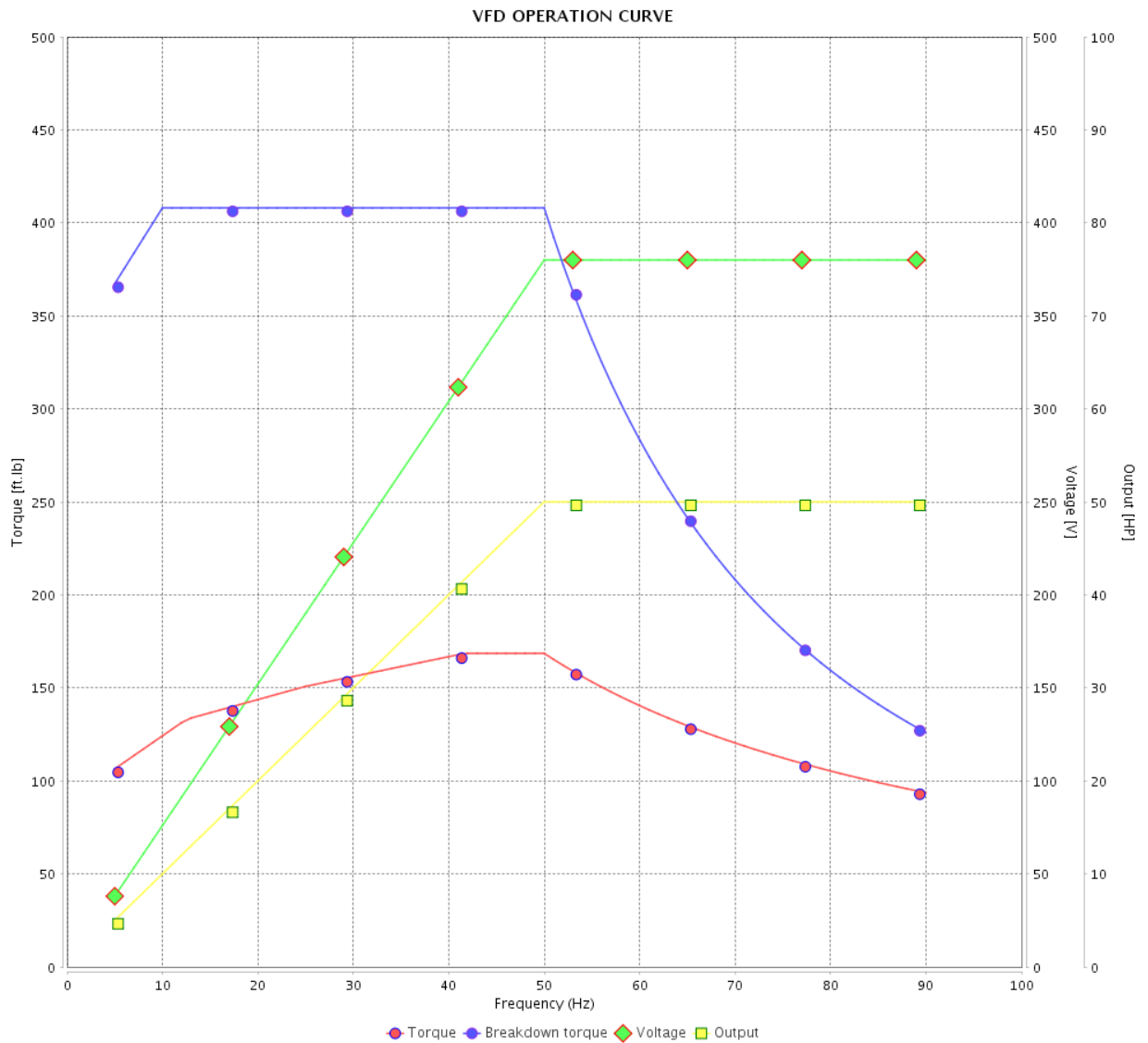


Customer : \_\_\_\_\_

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Product code : 14270886

Catalog # : 06018OT3G364T-W40



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| Rev.         | Changes Summary | Performed | Checked | Date     |
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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



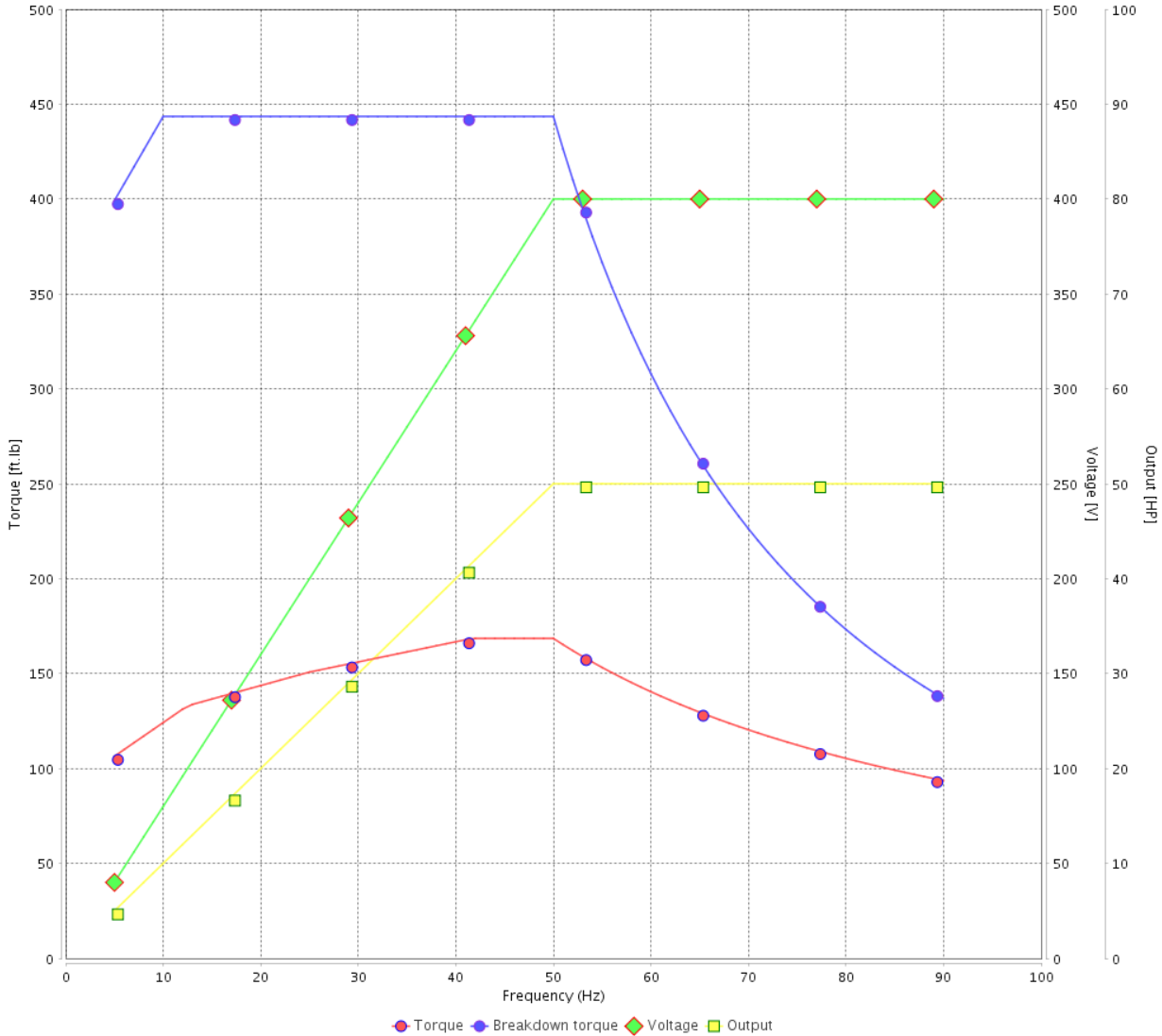
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Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-W40

VFD OPERATION CURVE



Performance : 400 V 50 Hz 4P IE3

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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

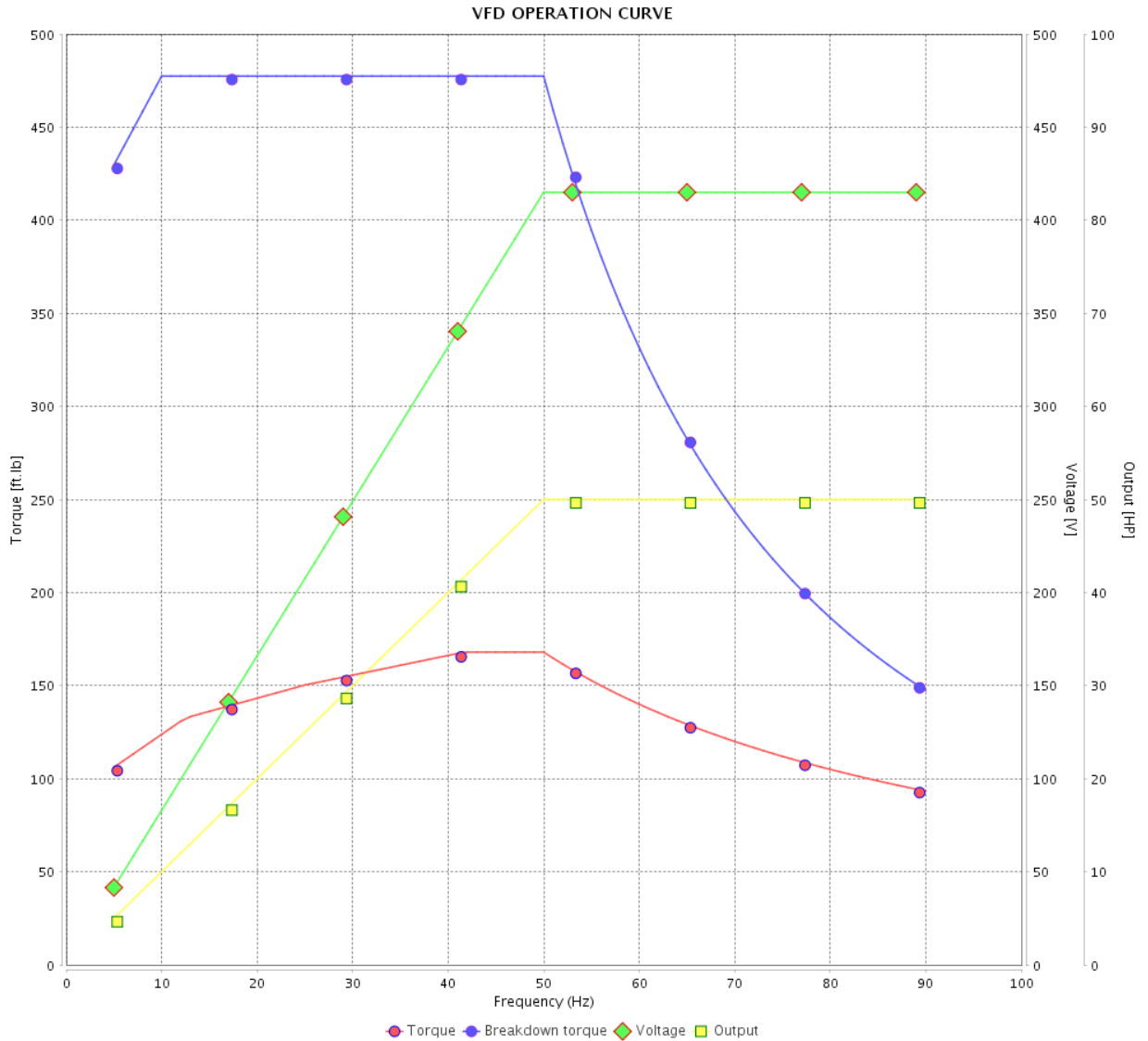


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14270886

Catalog # : 06018OT3G364T-W40

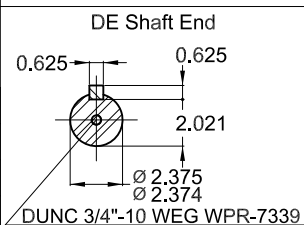
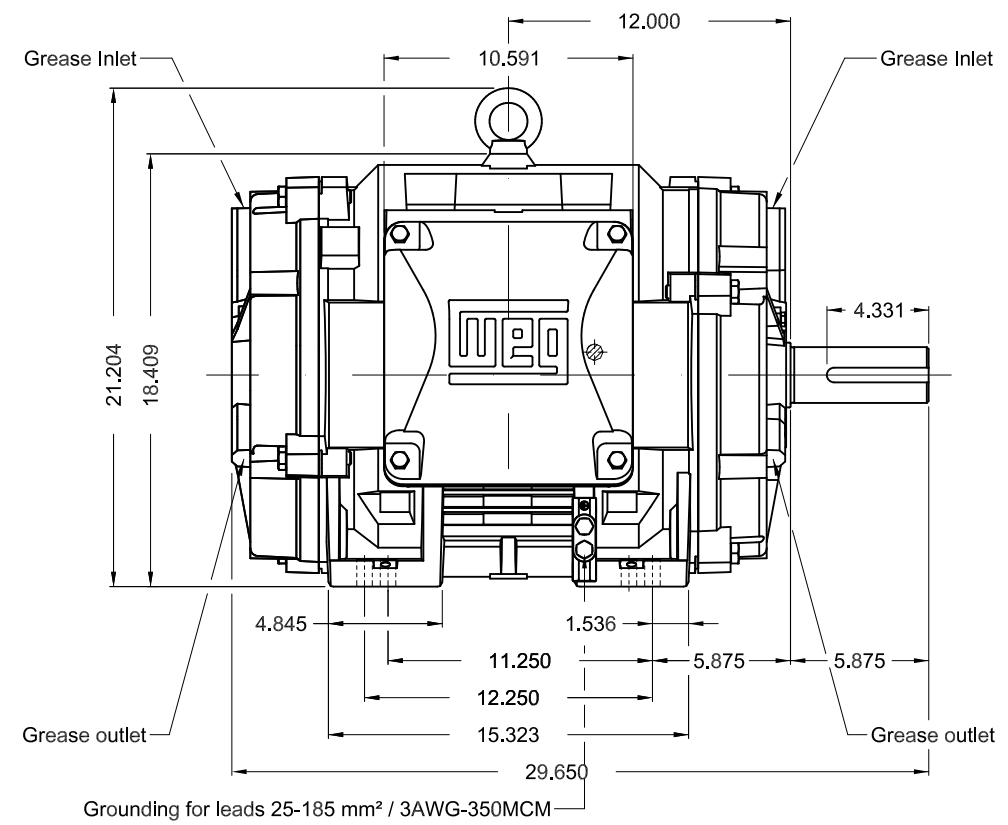
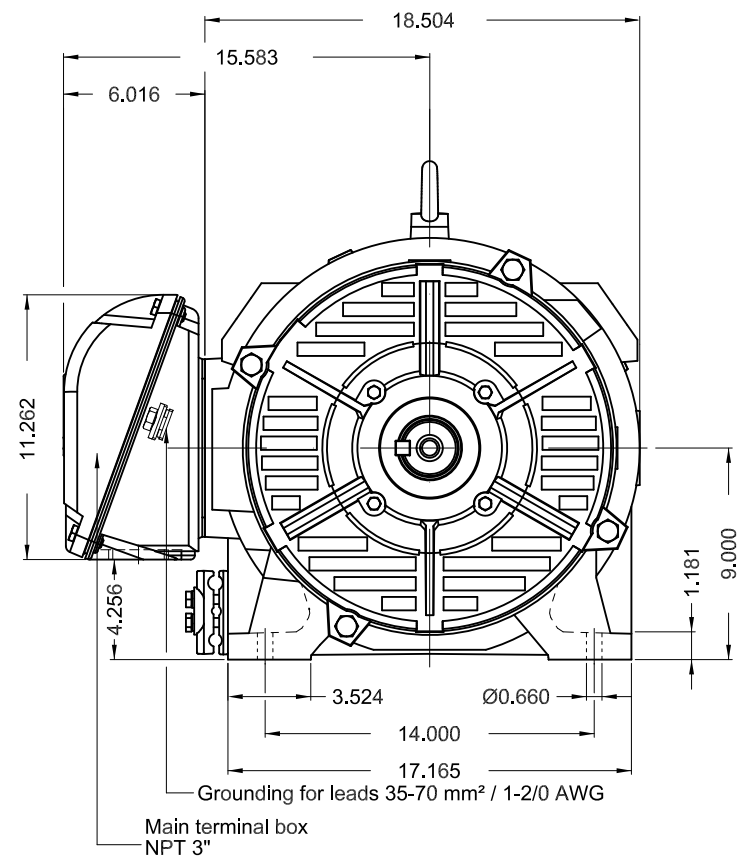


Performance : 415 V 50 Hz 4P IE3

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 |
| Checked by   |                 |           |         |                 |
| Date         | 12/04/2022      |           |         |                 |



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

