

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |                      |   |  |                            |                      |
|--|----------------------|---|--|----------------------------|----------------------|
| Customer   |                      |   |  |                            |                      |
| Product line   |                      | : NEMA Premium Efficiency Three-Phase     |  | Product code : 11439790    |                      |
|  |                      |   |  | Catalog # : 06012XT3E404T  |                      |
| Frame : 404/5T   |                      | Cooling method : IC411 - TEFC             |  |                            |                      |
| 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> : 1175 lb     |  |                            |                      |
| Protection degree : IP55   |                      | Moment of inertia (J) : 36.9 sq.ft.lb     |  |                            |                      |
| Design : B   |                      |   |  |                            |                      |
| Output [HP]  | 60                   | 50  | 50   | 50                         | 50                   |
| Poles  | 6                    | 6   | 6  | 6                          | 6                    |
| Frequency [Hz]   | 60                   | 50  | 50   | 50                         | 50                   |
| Rated voltage [V]  | 230/460              | 380                                       | 400  | 415                        | 415                  |
| Rated current [A]  | 141/70.3             | 70.4                                      | 67.6   | 65.6                       | 65.6                 |
| L. R. Amperes [A]  | 970/485              | 451                                       | 487  | 505                        | 505                  |
| LRC [A]  | 6.9x(Code H)         | 6.4x(Code G)                              | 7.2x(Code H)   | 7.7x(Code J)               | 7.7x(Code J)         |
| No load current [A]  | 50.0/25.0            | 25.0                                      | 27.0   | 28.1                       | 28.1                 |
| Rated speed [RPM]  | 1185                 | 985                                       | 985  | 990                        | 990                  |
| Slip [%]   | 1.25                 | 1.50                                      | 1.50   | 1.00                       | 1.00                 |
| Rated torque [ft.lb]   | 266                  | 267                                       | 267  | 265                        | 265                  |
| Locked rotor torque [%]  | 250                  | 229                                       | 260  | 280                        | 280                  |
| Breakdown torque [%]   | 270                  | 260                                       | 280  | 310                        | 310                  |
| Service factor   | 1.15                 | 1.00                                      | 1.00   | 1.00                       | 1.00                 |
| Temperature rise   | 80 K                 | 80 K                                      | 80 K   | 80 K                       | 80 K                 |
| Locked rotor time  | 52s (cold) 29s (hot) | 45s (cold) 25s (hot)                      | 45s (cold) 25s (hot)   | 45s (cold) 25s (hot)       | 45s (cold) 25s (hot) |
| Noise level <sup>2</sup>   | 65.0 dB(A)           | 61.0 dB(A)                                | 61.0 dB(A)   | 61.0 dB(A)                 | 61.0 dB(A)           |
| Efficiency (%)   | 25%                  | 93.4                                      | 92.8   | 92.8                       | 92.4                 |
|  | 50%                  | 93.6                                      | 93.0   | 93.0                       | 93.0                 |
|  | 75%                  | 94.5                                      | 94.0   | 94.0                       | 94.0                 |
|  | 100%                 | 94.5                                      | 94.0   | 94.0                       | 94.5                 |
| Power Factor   | 25%                  | 0.48                                      | 0.48   | 0.44                       | 0.42                 |
|  | 50%                  | 0.73                                      | 0.73   | 0.70                       | 0.67                 |
|  | 75%                  | 0.82                                      | 0.82   | 0.80                       | 0.78                 |
|  | 100%                 | 0.85                                      | 0.85   | 0.84                       | 0.83                 |
| Bearing type   |                      | Drive end : 6217 C3                       | Non drive end : 6314 C3  | Foundation loads           |                      |
| Sealing  |                      | : Oil Seal                                | : Lip Seal   | Max. traction : 1878 lb    |                      |
| Lubrication interval   |                      | : 13507 h                                 | : 14267 h  | Max. compression : 3053 lb |                      |
| Lubricant amount   |                      | : 21 g                                    | : 27 g   |                            |                      |
| Lubricant type   |                      | : Mobil Polyrex EM                        |  |                            |                      |
| Notes  |                      |   |  |                            |                      |
| USABLE @208V 156A SF 1.00 SFA 156A   |                      |   |  |                            |                      |
| 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                 |
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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



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

### Thermal protection

| ID | Application | Type                 | Quantity  | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1  | Winding     | Thermostat - 2 wires | 1 x Phase | 155 °C              |

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# TORQUE AND CURRENT VS SPEED CURVE



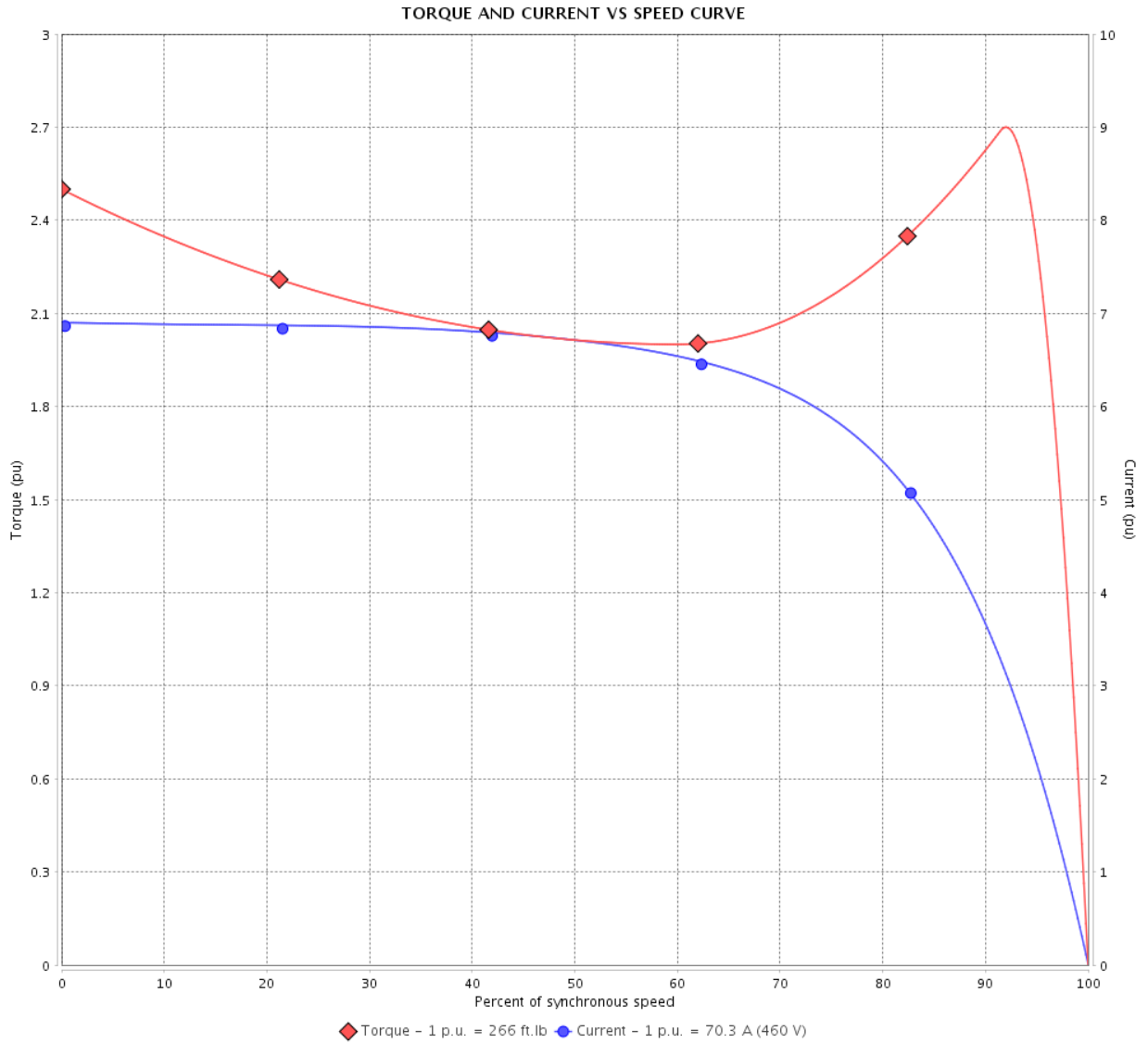
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T



Performance : 230/460 V 60 Hz 6P

Rated current : 141/70.3 A  
 LRC : 6.9  
 Rated torque : 266 ft.lb  
 Locked rotor torque : 250 %  
 Breakdown torque : 270 %  
 Rated speed : 1185 rpm

Moment of inertia (J) : 36.9 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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

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

## Three Phase Induction Motor - Squirrel Cage



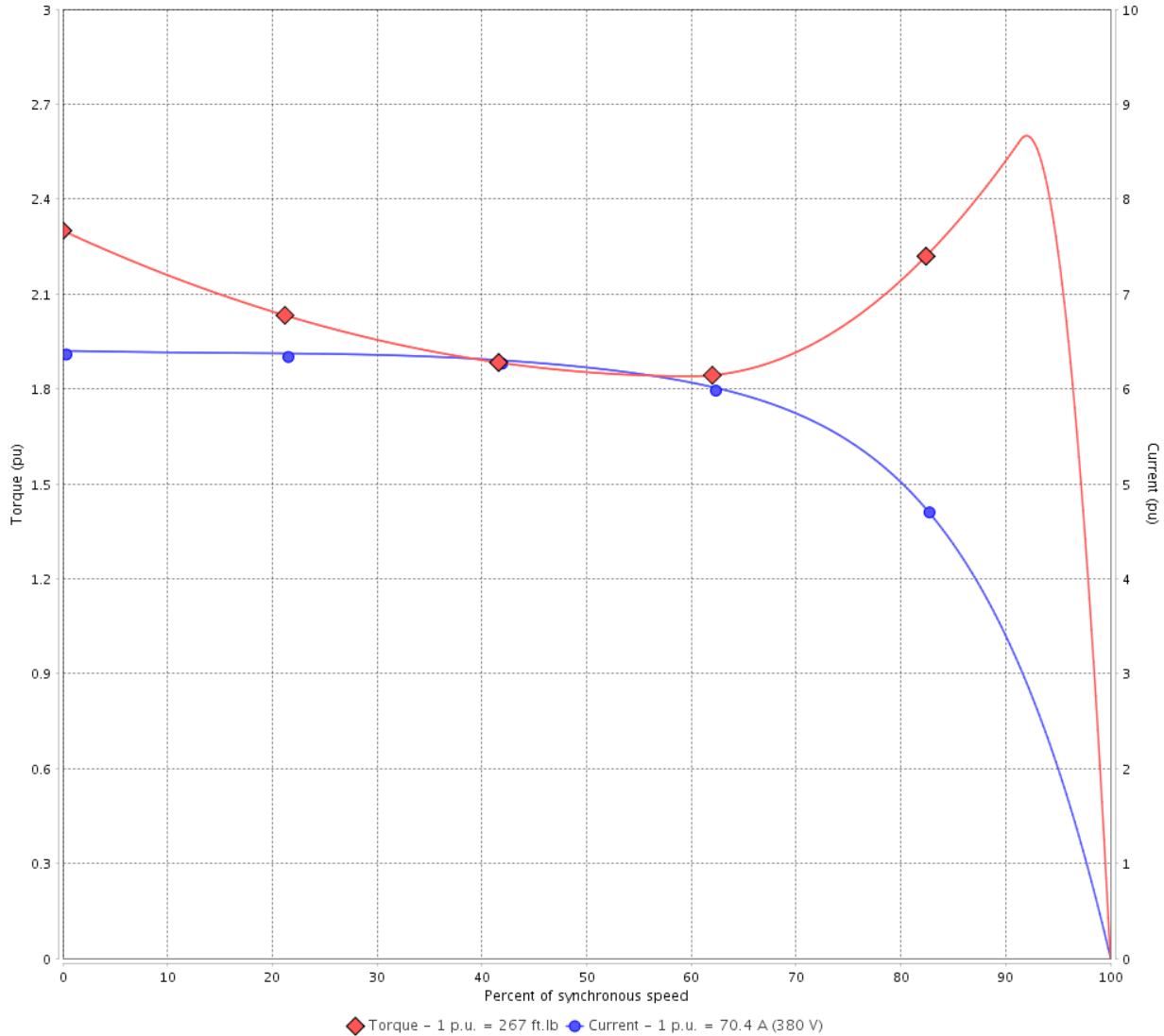
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 6P IE3

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 70.4 A    | Moment of inertia (J) | : 36.9 sq.ft.lb |
| LRC                 | : 6.4       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 267 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 229 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 260 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 985 rpm   | Design                | : B             |

Locked rotor time : 45s (cold) 25s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



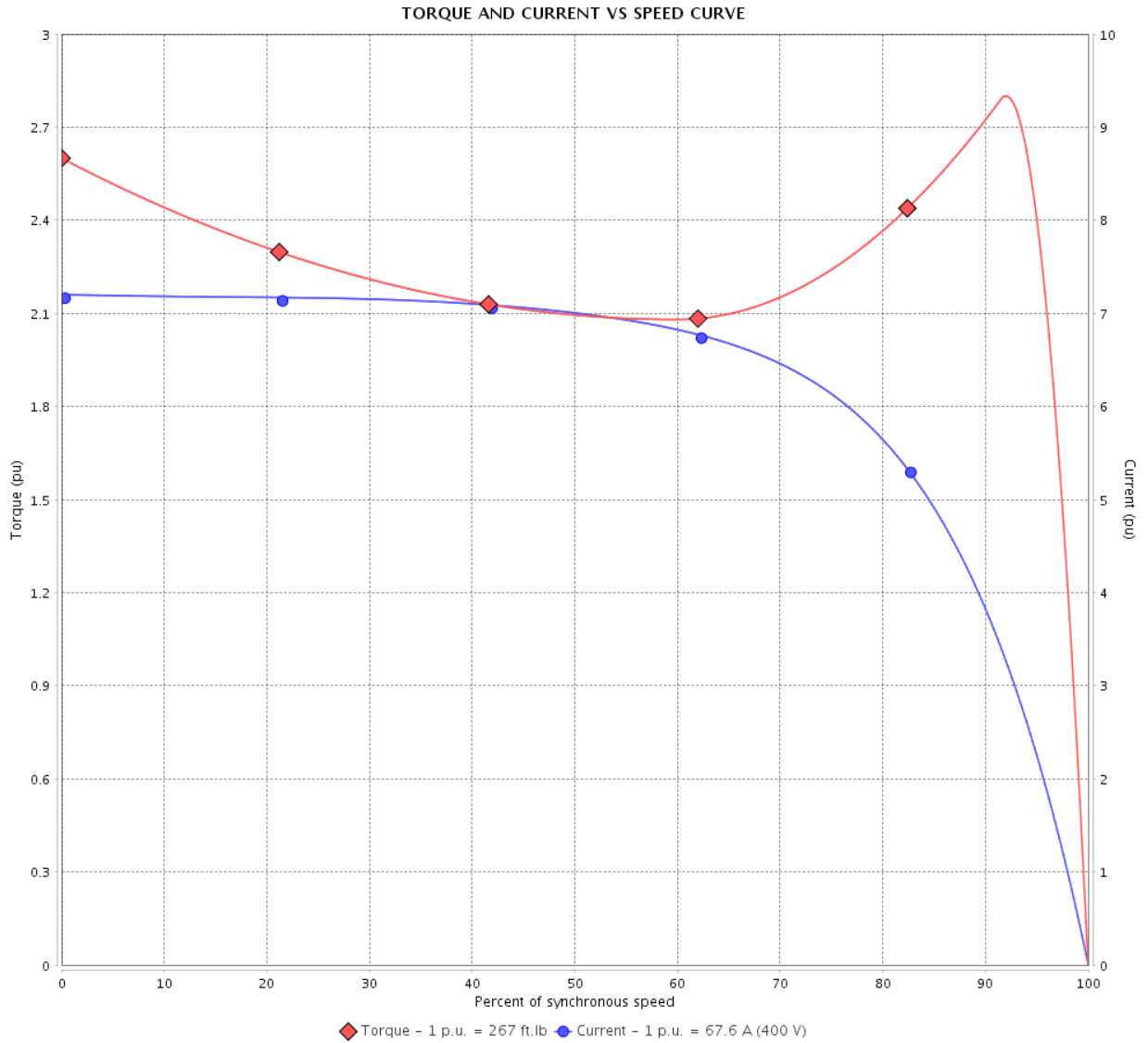
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T



Performance : 400 V 50 Hz 6P IE3

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 67.6 A    | Moment of inertia (J) | : 36.9 sq.ft.lb |
| LRC                 | : 7.2       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 267 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 260 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 280 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 985 rpm   | Design                | : B             |

Locked rotor time : 45s (cold) 25s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



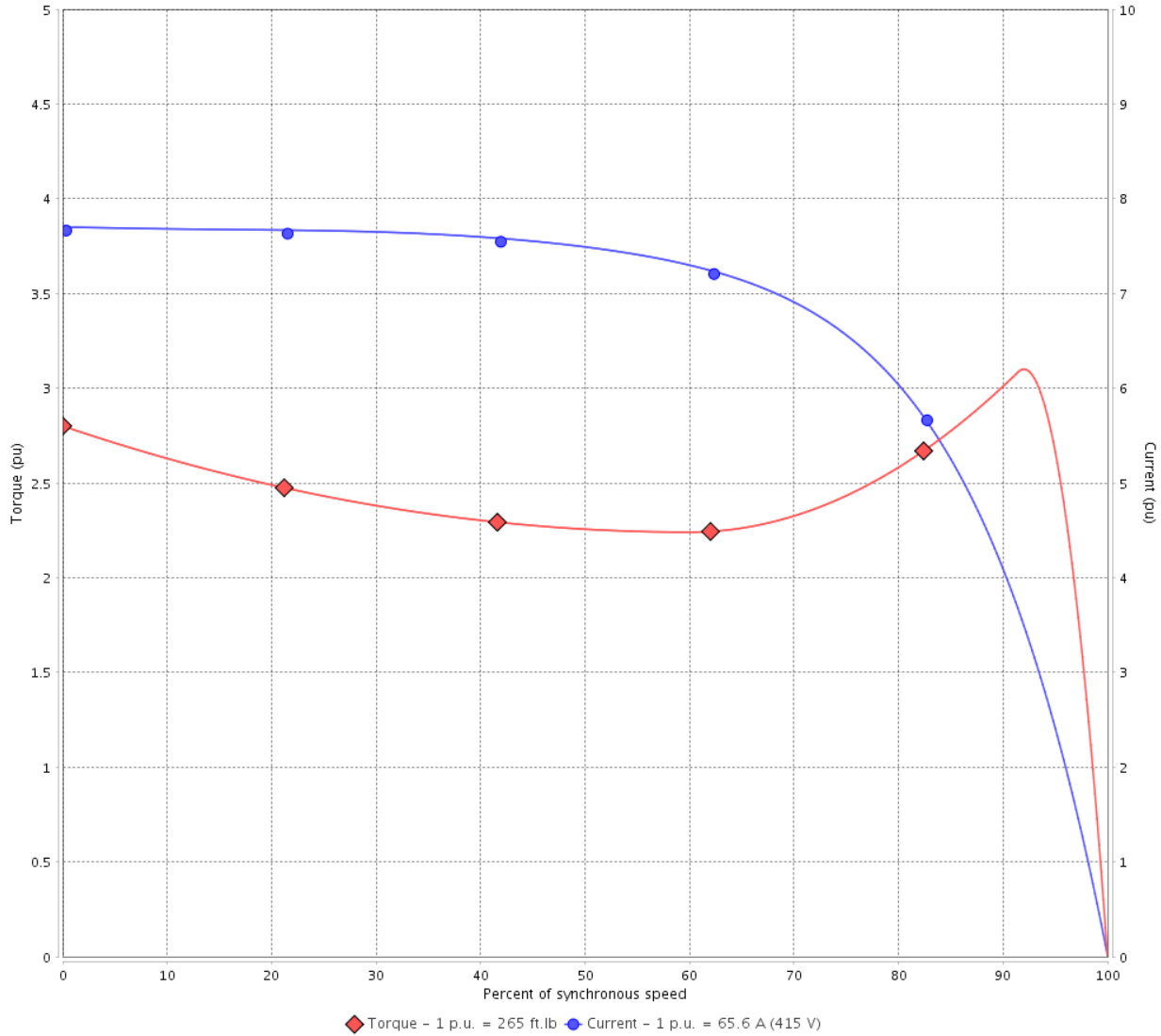
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 6P IE4

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 65.6 A    | Moment of inertia (J) | : 36.9 sq.ft.lb |
| LRC                 | : 7.7       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 265 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 280 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 310 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 990 rpm   | Design                | : B             |

Locked rotor time : 45s (cold) 25s (hot)

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

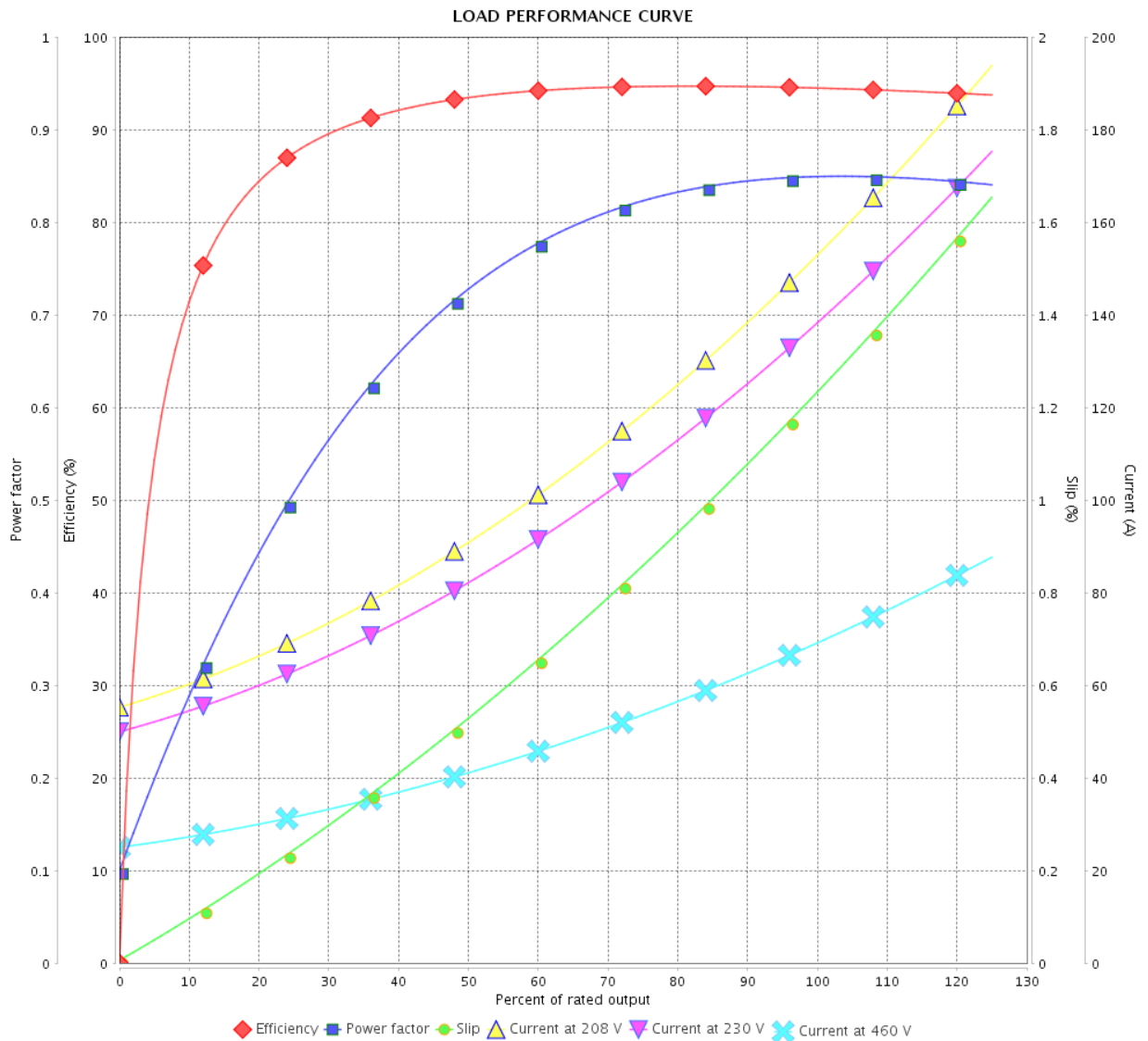


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T



Performance : 230/460 V 60 Hz 6P

Rated current : 141/70.3 A  
 LRC : 6.9  
 Rated torque : 266 ft.lb  
 Locked rotor torque : 250 %  
 Breakdown torque : 270 %  
 Rated speed : 1185 rpm

Moment of inertia (J) : 36.9 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 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

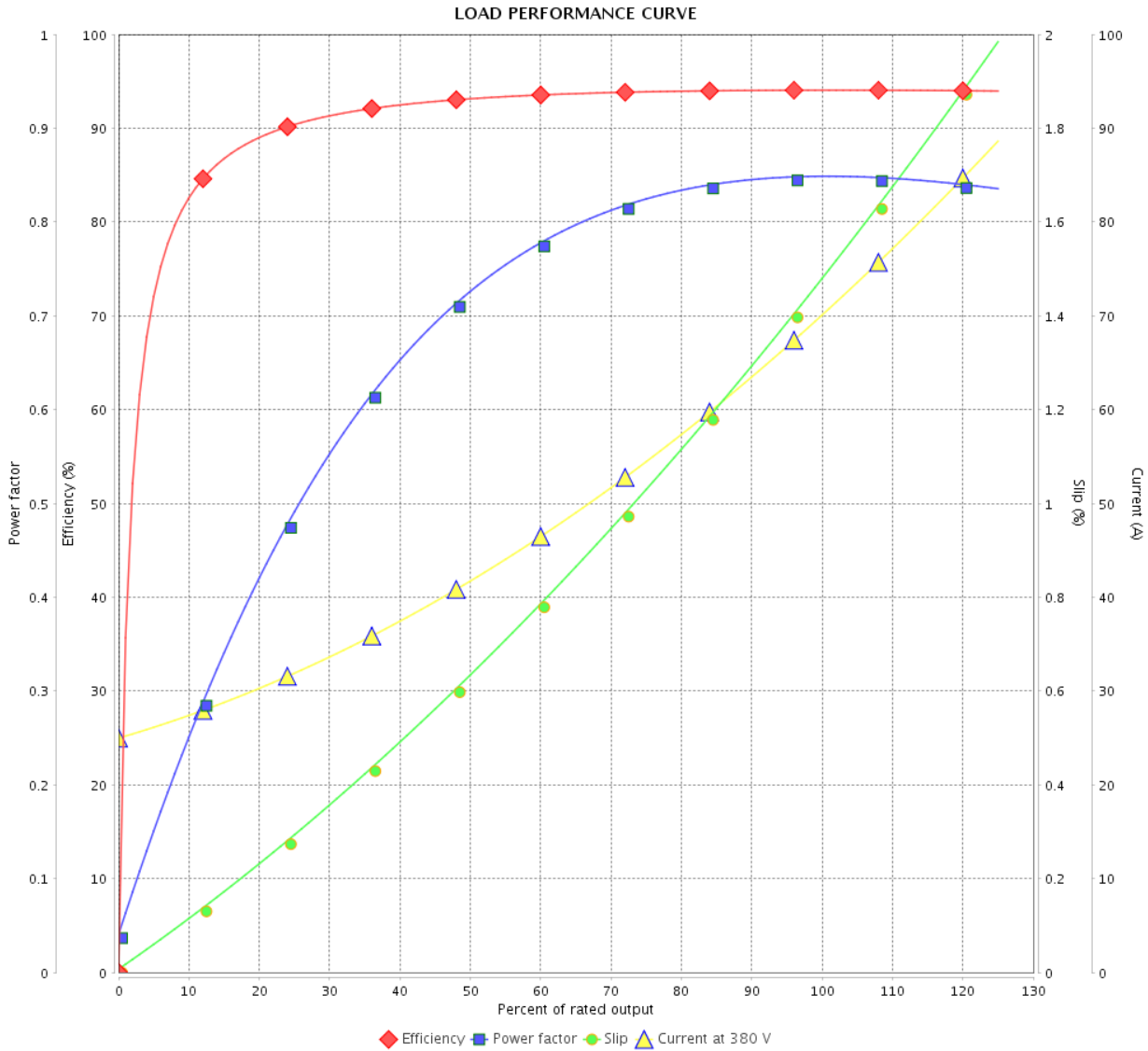


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T



Performance : 380 V 50 Hz 6P IE3

Rated current : 70.4 A  
 LRC : 6.4  
 Rated torque : 267 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 260 %  
 Rated speed : 985 rpm

Moment of inertia (J) : 36.9 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

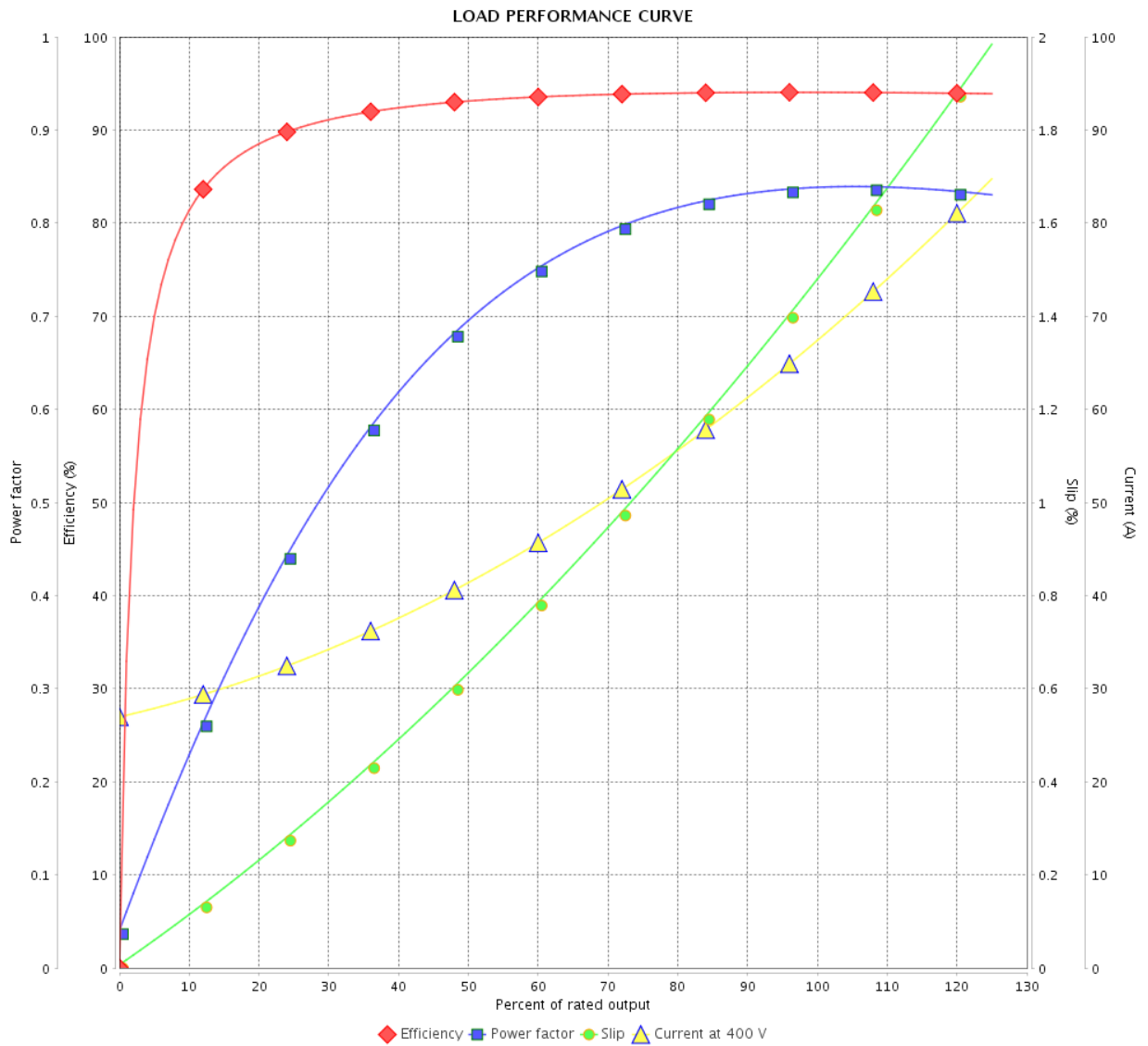


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T



Performance : 400 V 50 Hz 6P IE3

Rated current : 67.6 A  
 LRC : 7.2  
 Rated torque : 267 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 280 %  
 Rated speed : 985 rpm

Moment of inertia (J) : 36.9 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

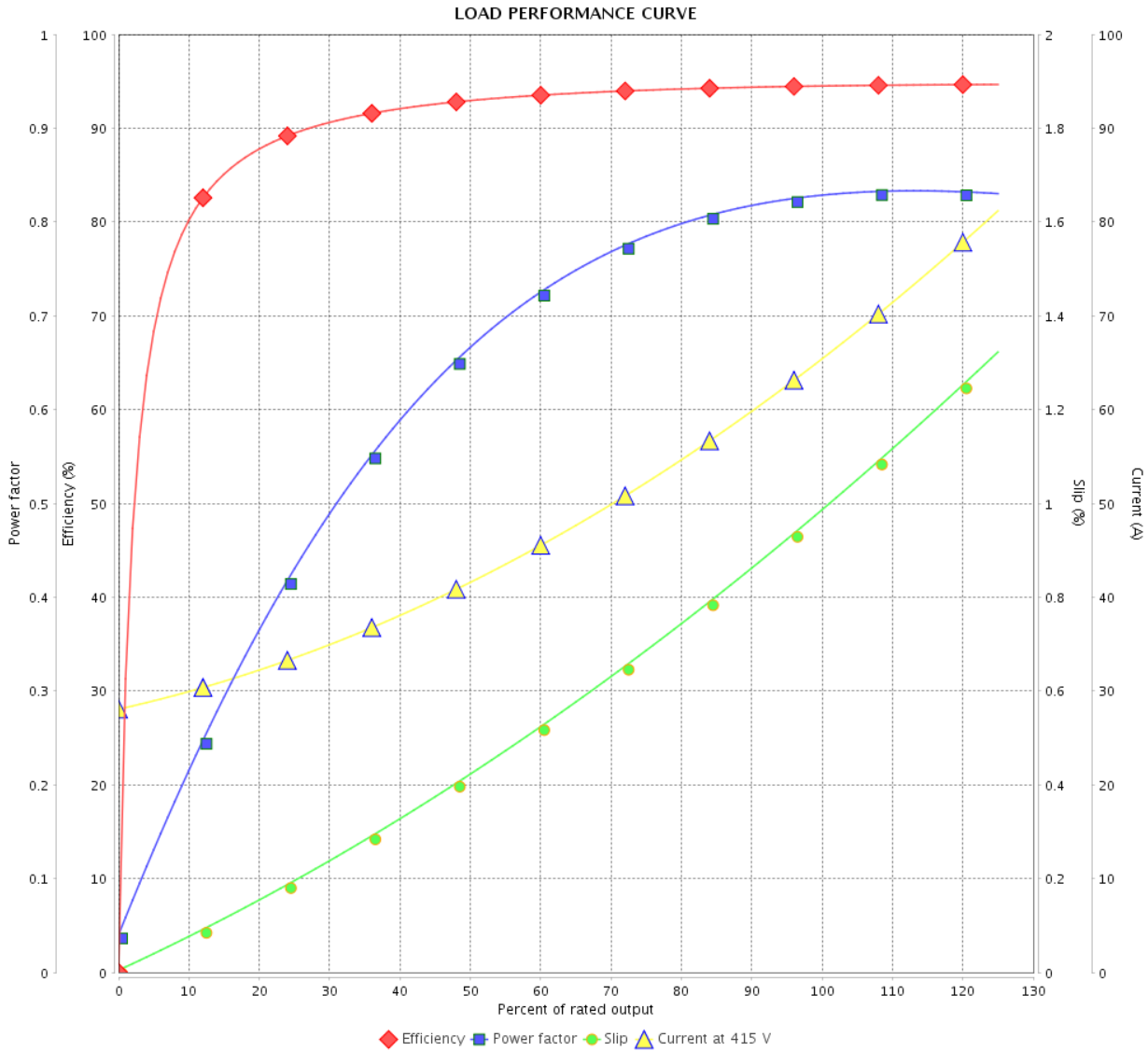


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T



Performance : 415 V 50 Hz 6P IE4

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 65.6 A    | Moment of inertia (J) | : 36.9 sq.ft.lb |
| LRC                 | : 7.7       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 265 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 280 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 310 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 990 rpm   | Design                | : B             |

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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 11439790  
 Catalog # : 06012XT3E404T

Performance : 230/460 V 60 Hz 6P

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 141/70.3 A  | Moment of inertia (J) : 36.9 sq.ft.lb |
| LRC : 6.9                   | Duty cycle : Cont.(S1)                |
| Rated torque : 266 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 250 % | Service factor : 1.15                 |
| Breakdown torque : 270 %    | Temperature rise : 80 K               |
| Rated speed : 1185 rpm      | Design : B                            |

Heating constant

Cooling constant

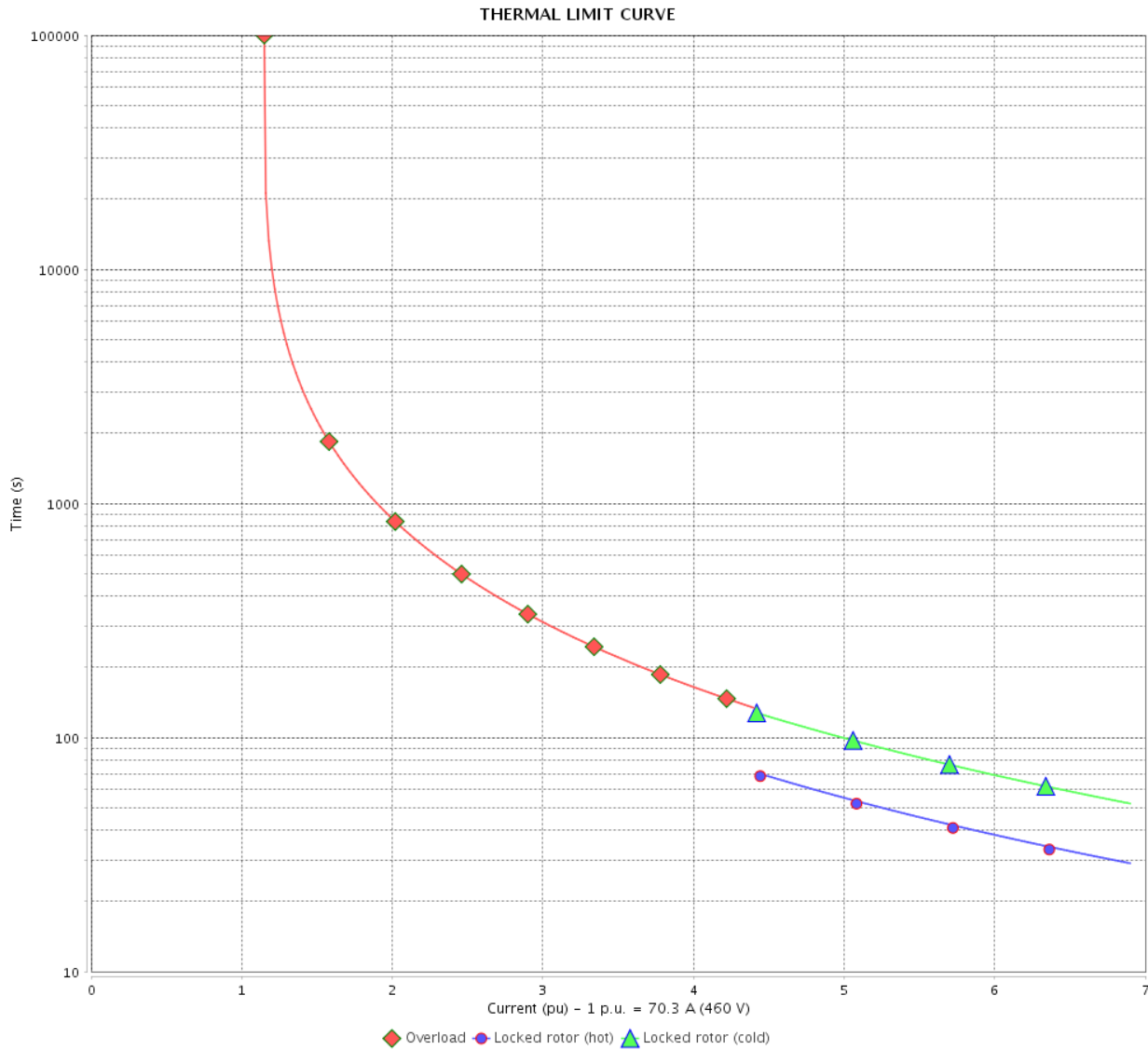
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 11439790  
 Catalog # : 06012XT3E404T

Performance : 380 V 50 Hz 6P IE3

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 70.4 A      | Moment of inertia (J) : 36.9 sq.ft.lb |
| LRC : 6.4                   | Duty cycle : Cont.(S1)                |
| Rated torque : 267 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 229 % | Service factor : 1.00                 |
| Breakdown torque : 260 %    | Temperature rise : 80 K               |
| Rated speed : 985 rpm       | Design : B                            |

Heating constant

Cooling constant

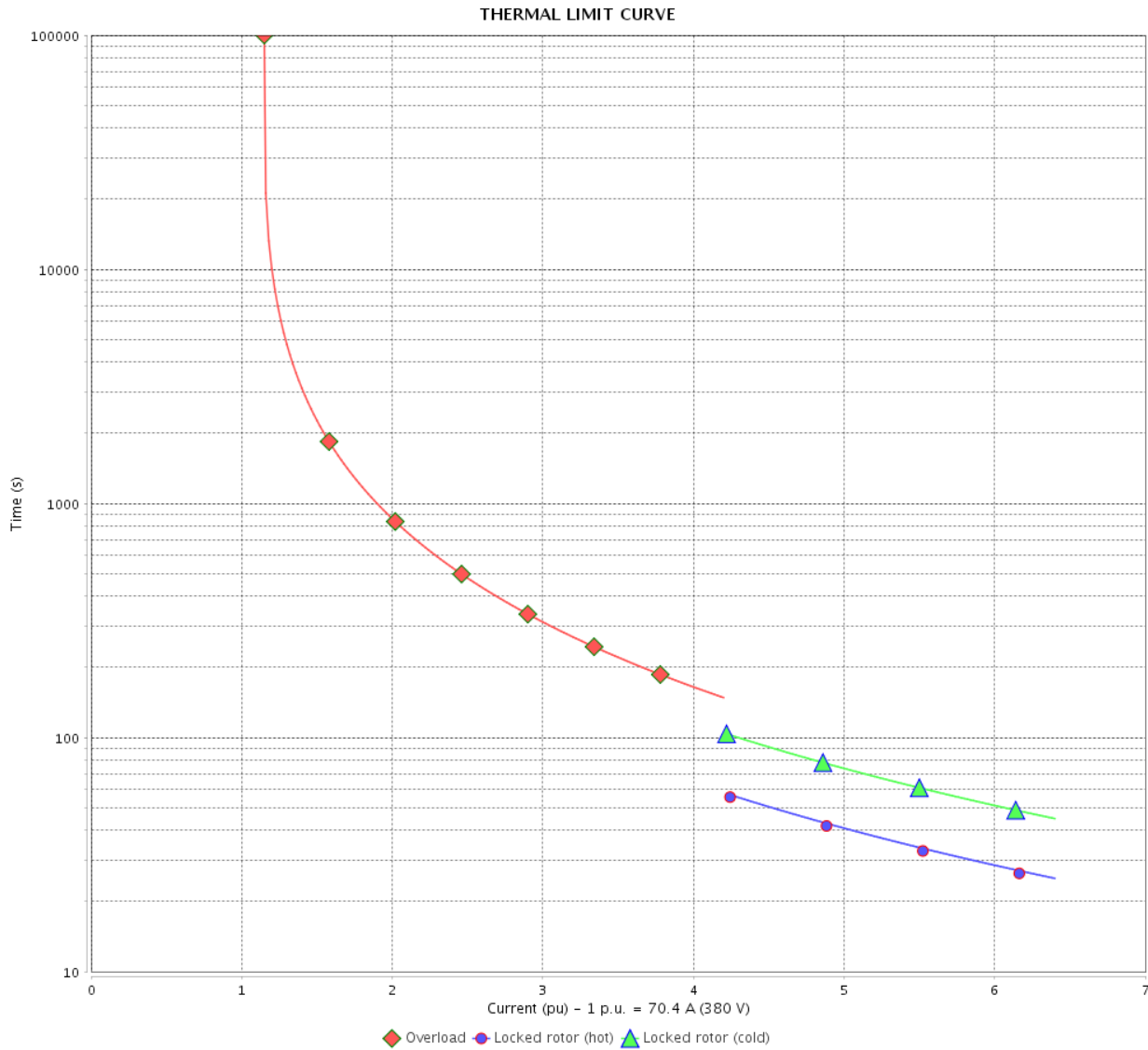
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 11439790  
 Catalog # : 06012XT3E404T

Performance : 400 V 50 Hz 6P IE3

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 67.6 A      | Moment of inertia (J) : 36.9 sq.ft.lb |
| LRC : 7.2                   | Duty cycle : Cont.(S1)                |
| Rated torque : 267 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 260 % | Service factor : 1.00                 |
| Breakdown torque : 280 %    | Temperature rise : 80 K               |
| Rated speed : 985 rpm       | Design : B                            |

Heating constant

Cooling constant

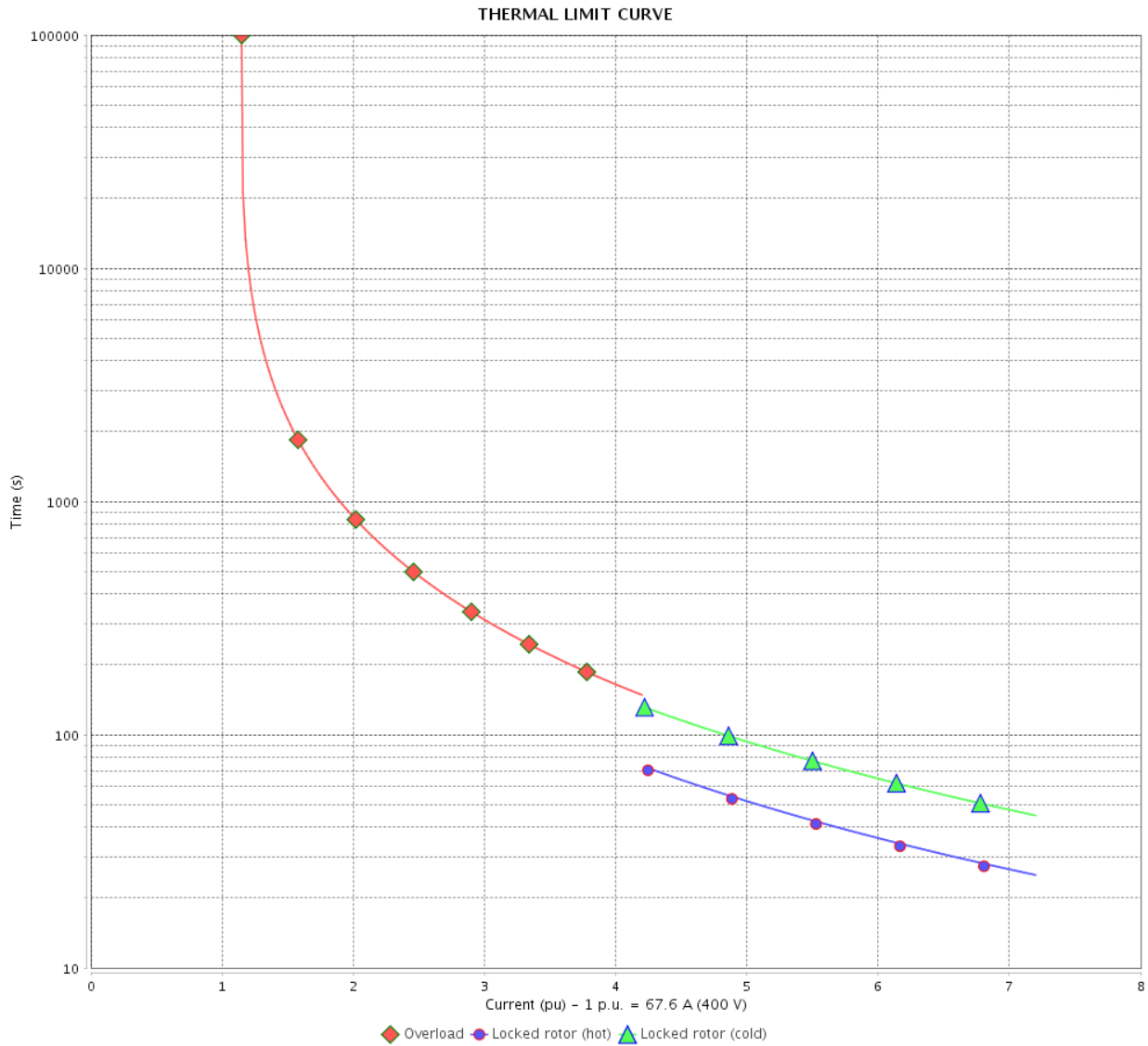
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# THERMAL LIMIT CURVE

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 :

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 Product code : 11439790  
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|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 65.6 A      | Moment of inertia (J) : 36.9 sq.ft.lb |
| LRC : 7.7                   | Duty cycle : Cont.(S1)                |
| Rated torque : 265 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 280 % | Service factor : 1.00                 |
| Breakdown torque : 310 %    | Temperature rise : 80 K               |
| Rated speed : 990 rpm       | Design : B                            |

Heating constant

Cooling constant

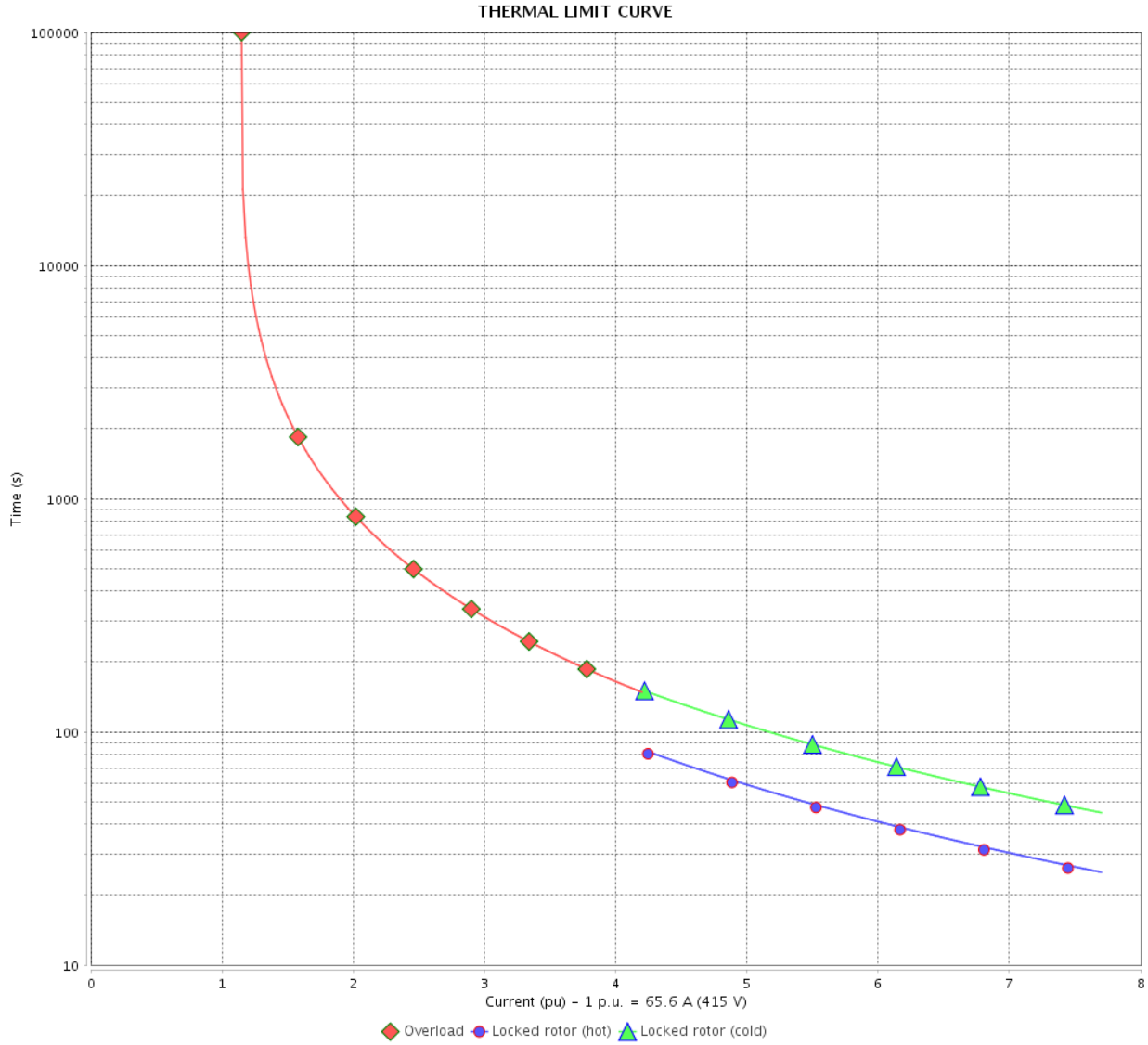
| Rev.         | Changes Summary | Performed | Checked         | Date     |
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| Date         | 12/04/2022      |           |                 |          |

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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

# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

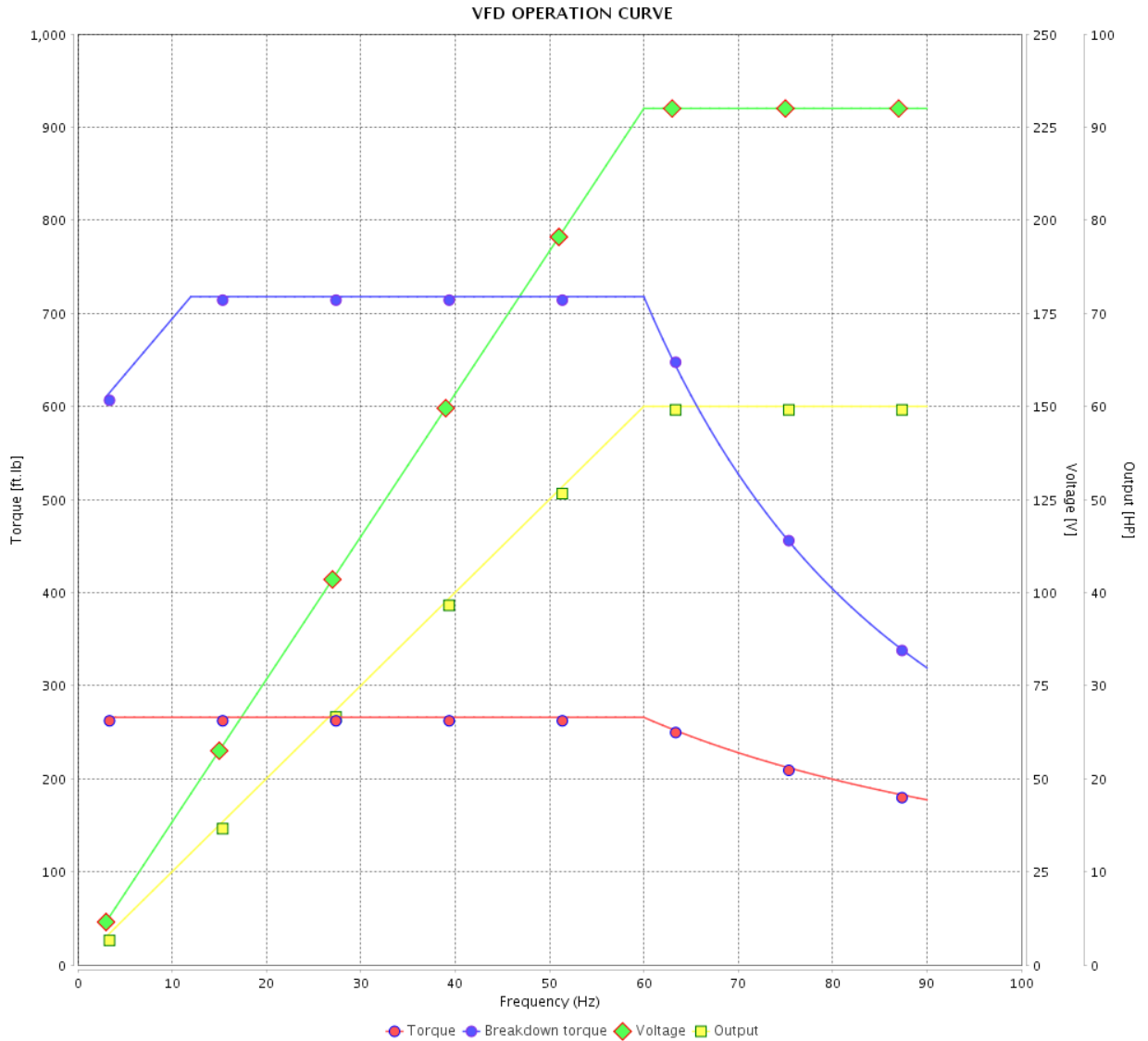


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T



Performance : 230/460 V 60 Hz 6P

Rated current : 141/70.3 A  
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 Rated speed : 1185 rpm

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 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

| Rev.         | Changes Summary | Performed | Checked | Date            |
|--------------|-----------------|-----------|---------|-----------------|
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| Date         | 12/04/2022      |           |         |                 |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



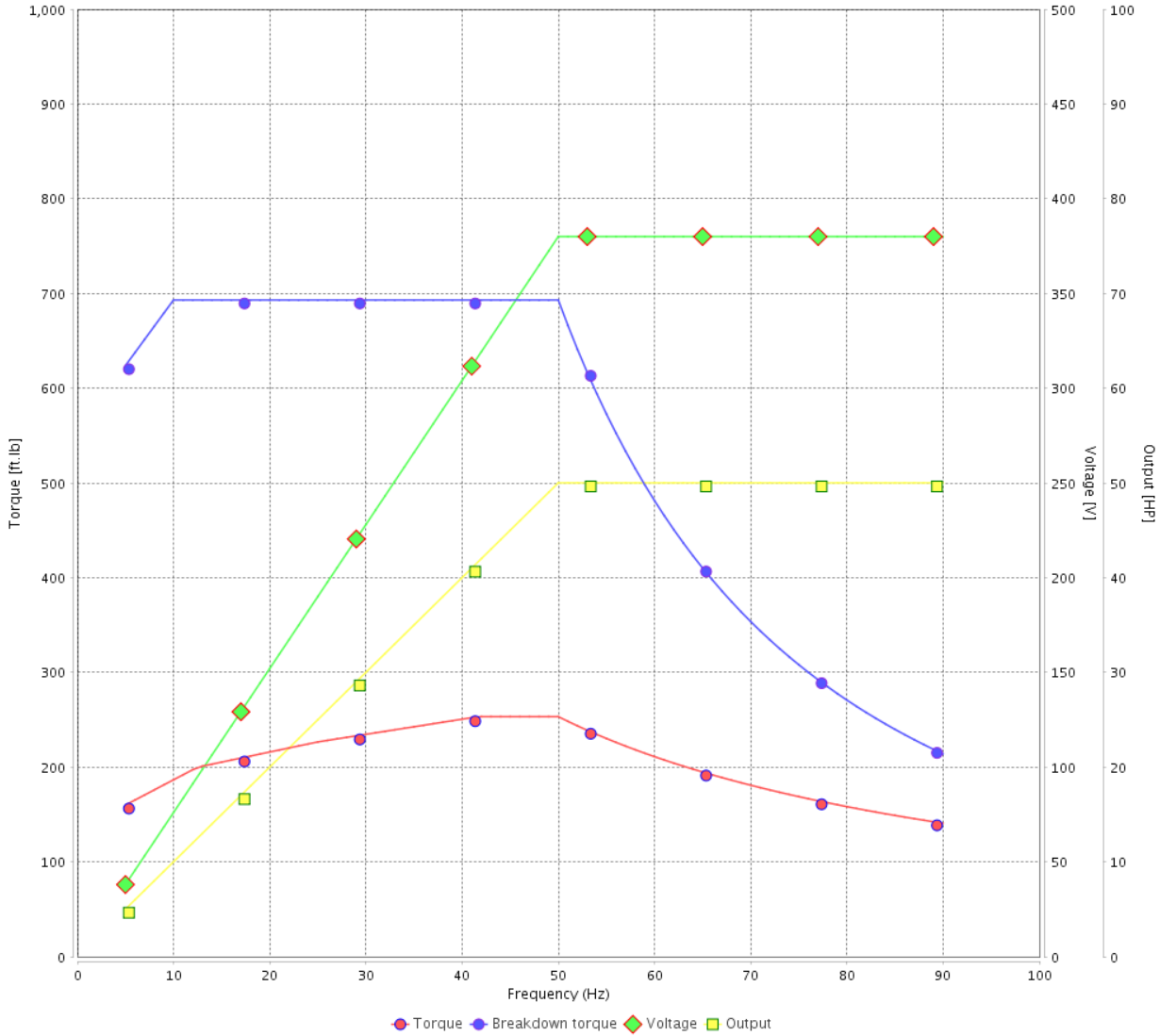
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T

VFD OPERATION CURVE



Performance : 380 V 50 Hz 6P IE3

Rated current : 70.4 A  
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Moment of inertia (J) : 36.9 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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# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

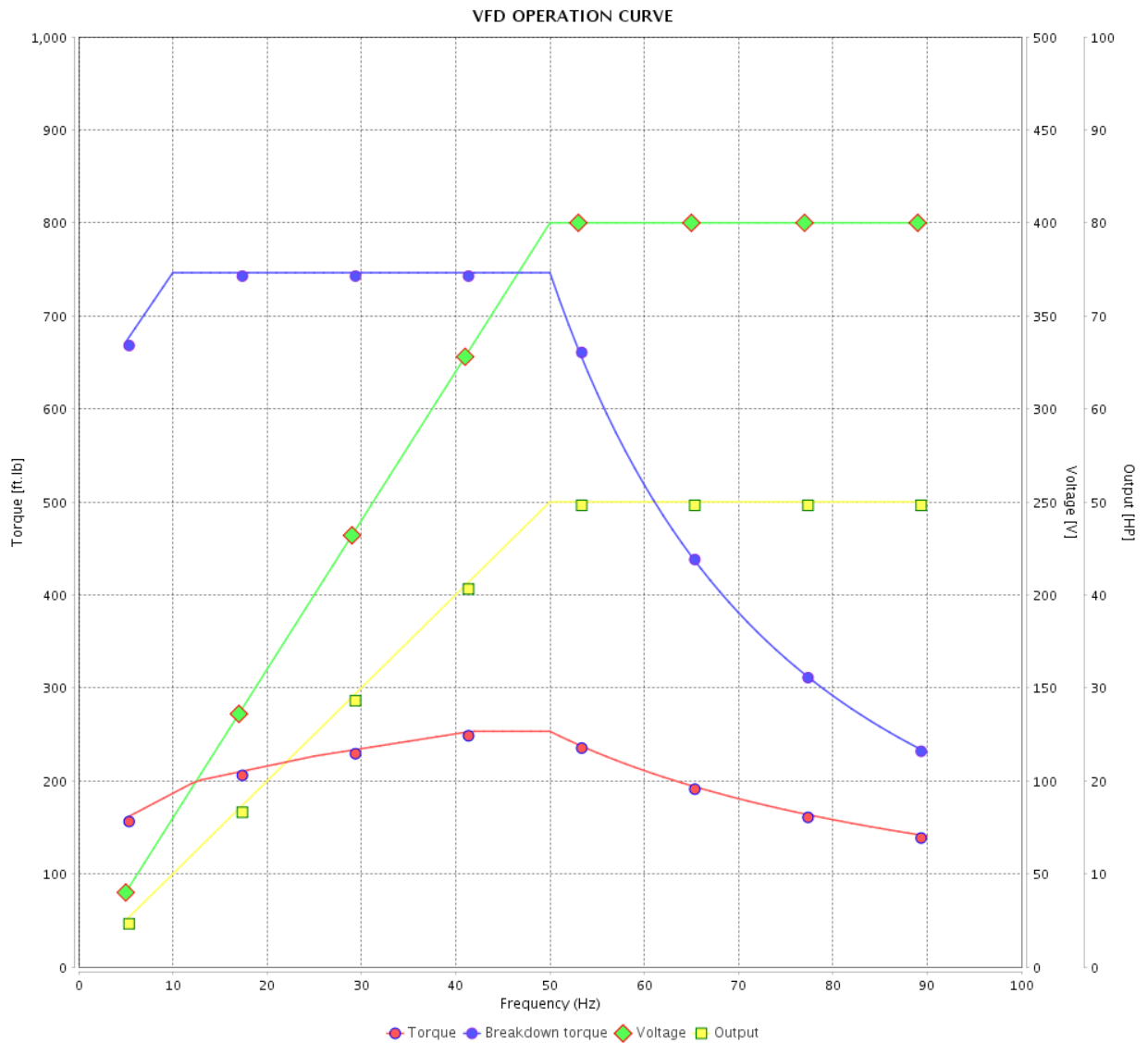


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T



Performance : 400 V 50 Hz 6P IE3

Rated current : 67.6 A  
 LRC : 7.2  
 Rated torque : 267 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 280 %  
 Rated speed : 985 rpm

Moment of inertia (J) : 36.9 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 / 22 |
| Checked by   |                 |           |         |                 |
| Date         | 12/04/2022      |           |         |                 |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



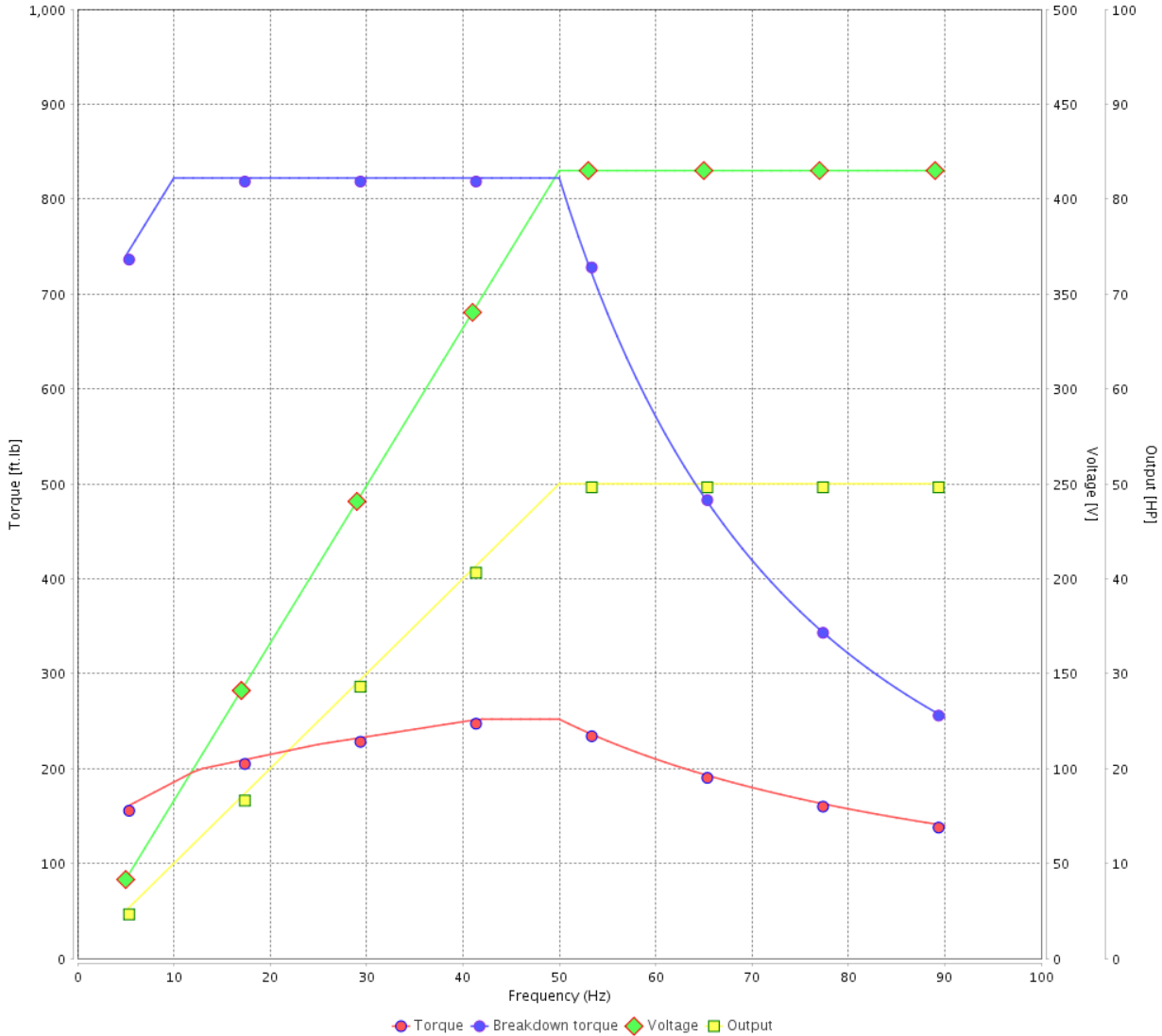
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11439790

Catalog # : 06012XT3E404T

VFD OPERATION CURVE

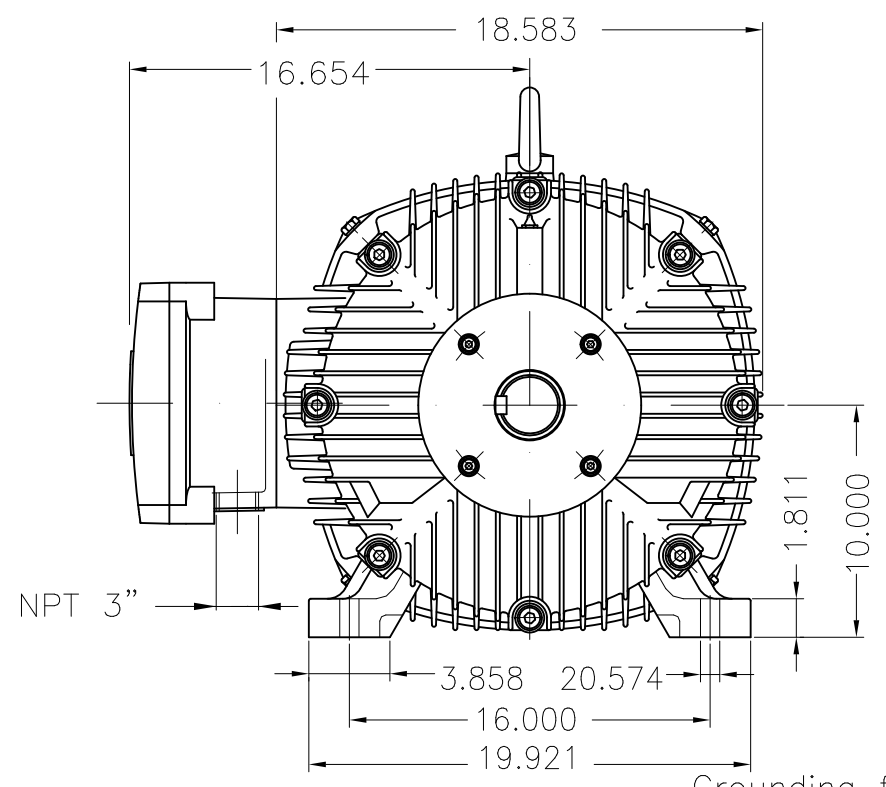


Performance : 415 V 50 Hz 6P IE4

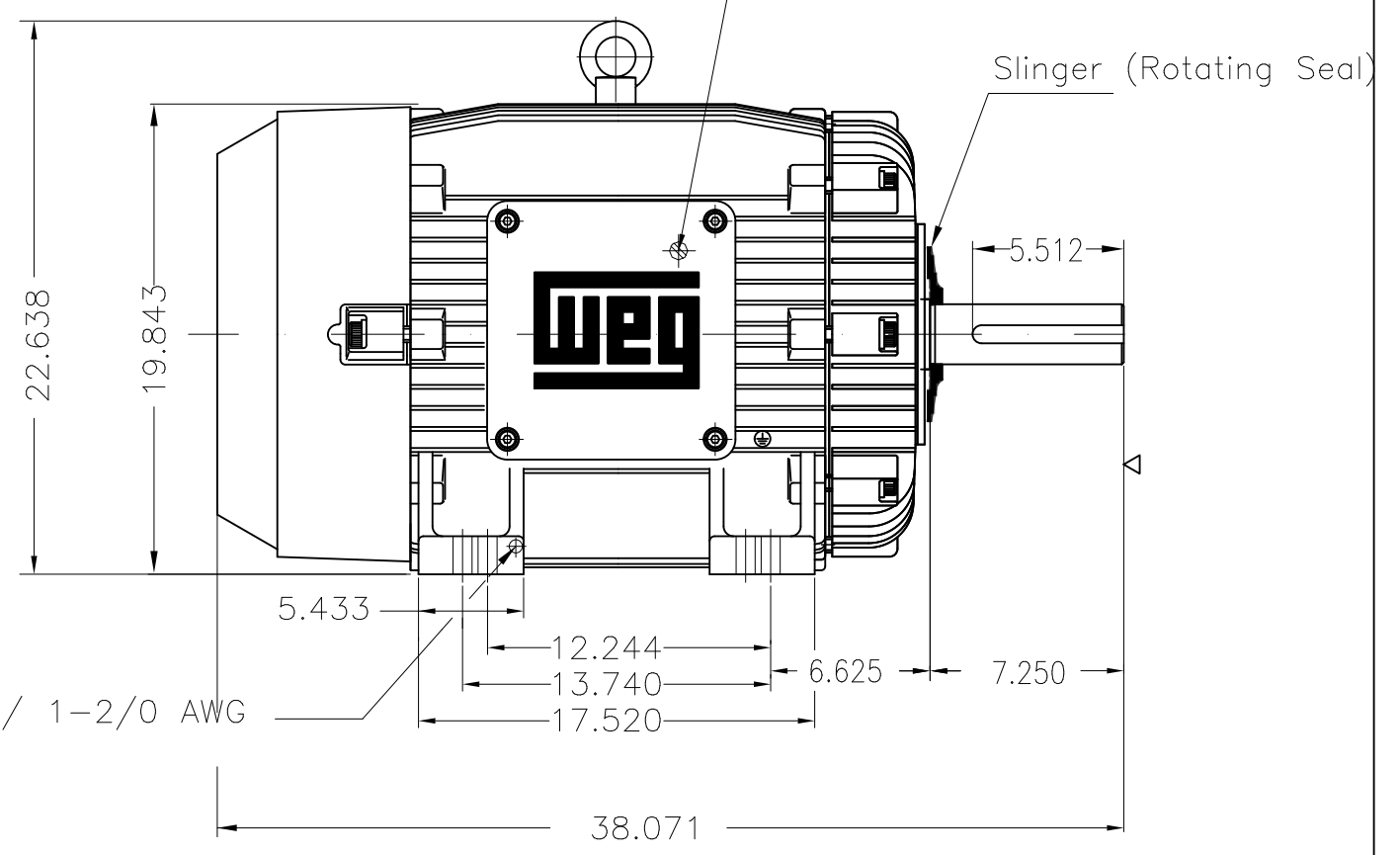
Rated current : 65.6 A  
 LRC : 7.7  
 Rated torque : 265 ft.lb  
 Locked rotor torque : 280 %  
 Breakdown torque : 310 %  
 Rated speed : 990 rpm

Moment of inertia (J) : 36.9 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   |                 |           |         |          |
| Date         |                 |           |         |          |



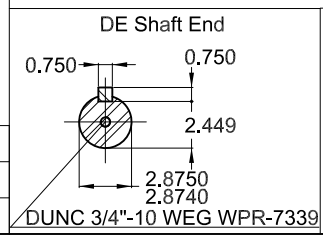
Grounding for leads 25-50 mm<sup>2</sup> / 3-1 AWG



Grounding for leads 35-70 mm<sup>2</sup> / 1-2/0 AWG

60 HP 06 Poles 60 Hz A

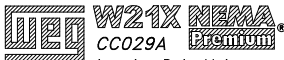
Color RAL 5009  
 Painting plan 202P  
 Mounting B3R(D)



| ECM      | LOC       | SUMMARY OF MODIFICATIONS                   | EXECUTED            | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR EXPLOSION PROOF PREM. EFF. |                     |         |          |      |     |
| CHECKED  |           | FRAME 404/5T IP55 TEFC                     |                     |         |          |      |     |
| RELEASED |           |  |                     |         |          |      |     |
| REL DT.  | WMO       | Jaragua do Sul                             | Product Engineering | SHEET   | 1 / 1    |      |     |

**PREVIEW**  
 WDD





**W21X NEMA**  
**CC029A Premium**

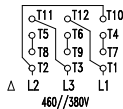
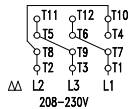
*Inverter Duty Motor  
 Severe Duty*



TEMP CODE T3C  
 CSA/UL: Class I - Div. 1 - Groups C and D  
 CSA: Class II - Div. 1 - Groups F and G  
 CSA: Class I - Zone 1 - IIB  
**EXPLOSION PROOF MOTOR**  
 FOR USE ON VPWM VFD 1000:1VT, 2:1CT, 1.0SF, T3C, AMB 40°C.

MODEL 06012XT3E404T  
 MADE IN BRAZIL  
 11439790

|   |   |                            |          |
|---|---|----------------------------|----------|
| PH 3  | FR 404/5T   | HP(kW) 60.0(45.0)          | Hz 60    |
| V 230/460   |   | A 141/70.3                 | RPM 1185 |
| NEMA NOM. EFF. 94.5%                                    |   | INS CL F $\Delta$ T 80 K   | IP55     |
| PF 0.85   | DUTY CONT.  |                            | CODE H   |
| ENCL. TEFC  | SF 1.15   | SFA 162/80.8               |          |
| AMB 40°C  | DES B   | USABLE @208V 156 A SF 1.00 |          |
| AMB 55°C SF1.0  | -bearings lub interval reduced by a factor of 50% |                            |          |
| 50HP 37kW 50Hz 380V 70.4A 985RPM SF1.00 EFF 94.0% (IE3) |   |                            |          |



→ 6217-C3(21g)  
 → 6314-C3(27g)

MOBIL POLYREX EM  
 13507 h

ALT 1000 m.a.s.l | 1162 Lbs