

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |                      |                                       |  |   |                      |
|--|----------------------|---------------------------------------|--|---|----------------------|
| Customer   |                      |                                       |  |   |                      |
| Product line   |                      | : NEMA Premium Efficiency Three-Phase |  | Product code : 11408296                   |                      |
|  |                      |                                       |  | Catalog # : 35012ET3G449T-W22             |                      |
| Frame  |                      | : L447/9T                             |  | 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> : 3629 lb     |                      |
| Protection degree  |                      | : IP55                                |  | Moment of inertia (J) : 278 sq.ft.lb      |                      |
| Design   |                      | : A                                   |  |   |                      |
| Output [HP]  | 350                  | 300                                   | 300  | 300                                       | 300                  |
| Poles  | 6                    | 6                                     | 6  | 6   | 6                    |
| Frequency [Hz]   | 60                   | 50                                    | 50   | 50  | 50                   |
| Rated voltage [V]  | 460                  | 380                                   | 400  | 415                                       | 415                  |
| Rated current [A]  | 415                  | 420                                   | 409  | 404                                       | 404                  |
| L. R. Amperes [A]  | 2864                 | 2730                                  | 2945   | 3192                                      | 3192                 |
| LRC [A]  | 6.9x(Code H)         | 6.5x(Code G)                          | 7.2x(Code H)   | 7.9x(Code J)                              | 7.9x(Code J)         |
| No load current [A]  | 160                  | 157                                   | 172  | 185                                       | 185                  |
| Rated speed [RPM]  | 1190                 | 990                                   | 990  | 990                                       | 990                  |
| Slip [%]   | 0.83                 | 1.00                                  | 1.00   | 1.00                                      | 1.00                 |
| Rated torque [ft.lb]   | 1540                 | 1590                                  | 1590   | 1590                                      | 1590                 |
| Locked rotor torque [%]  | 250                  | 220                                   | 250  | 280                                       | 280                  |
| Breakdown torque [%]   | 270                  | 250                                   | 280  | 300                                       | 300                  |
| 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  | 41s (cold) 23s (hot) | 45s (cold) 25s (hot)                  | 39s (cold) 22s (hot)   | 34s (cold) 19s (hot)                      | 34s (cold) 19s (hot) |
| Noise level <sup>2</sup>   | 71.0 dB(A)           | 70.0 dB(A)                            | 70.0 dB(A)   | 70.0 dB(A)                                | 70.0 dB(A)           |
| Efficiency (%)   | 25%                  | 95.3                                  | 95.3   | 95.3                                      | 94.5                 |
|  | 50%                  | 95.4                                  | 95.4   | 95.4                                      | 95.0                 |
|  | 75%                  | 95.8                                  | 95.8   | 95.8                                      | 95.4                 |
|  | 100%                 | 95.8                                  | 95.8   | 95.8                                      | 95.8                 |
| Power Factor   | 25%                  | 0.42                                  | 0.44   | 0.40                                      | 0.37                 |
|  | 50%                  | 0.66                                  | 0.68   | 0.64                                      | 0.60                 |
|  | 75%                  | 0.77                                  | 0.78   | 0.75                                      | 0.73                 |
|  | 100%                 | 0.82                                  | 0.83   | 0.81                                      | 0.79                 |
| Bearing type   |                      | Drive end : 6322 C3                   | Non drive end : 6319 C3  | Foundation loads                          |                      |
| Sealing  |                      | : WSeal                               | : WSeal  | Max. traction : 10913 lb                  |                      |
| Lubrication interval   |                      | : 11000 h                             | : 13000 h  | Max. compression : 14541 lb               |                      |
| Lubricant amount   |                      | : 60 g                                | : 45 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                 |
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# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



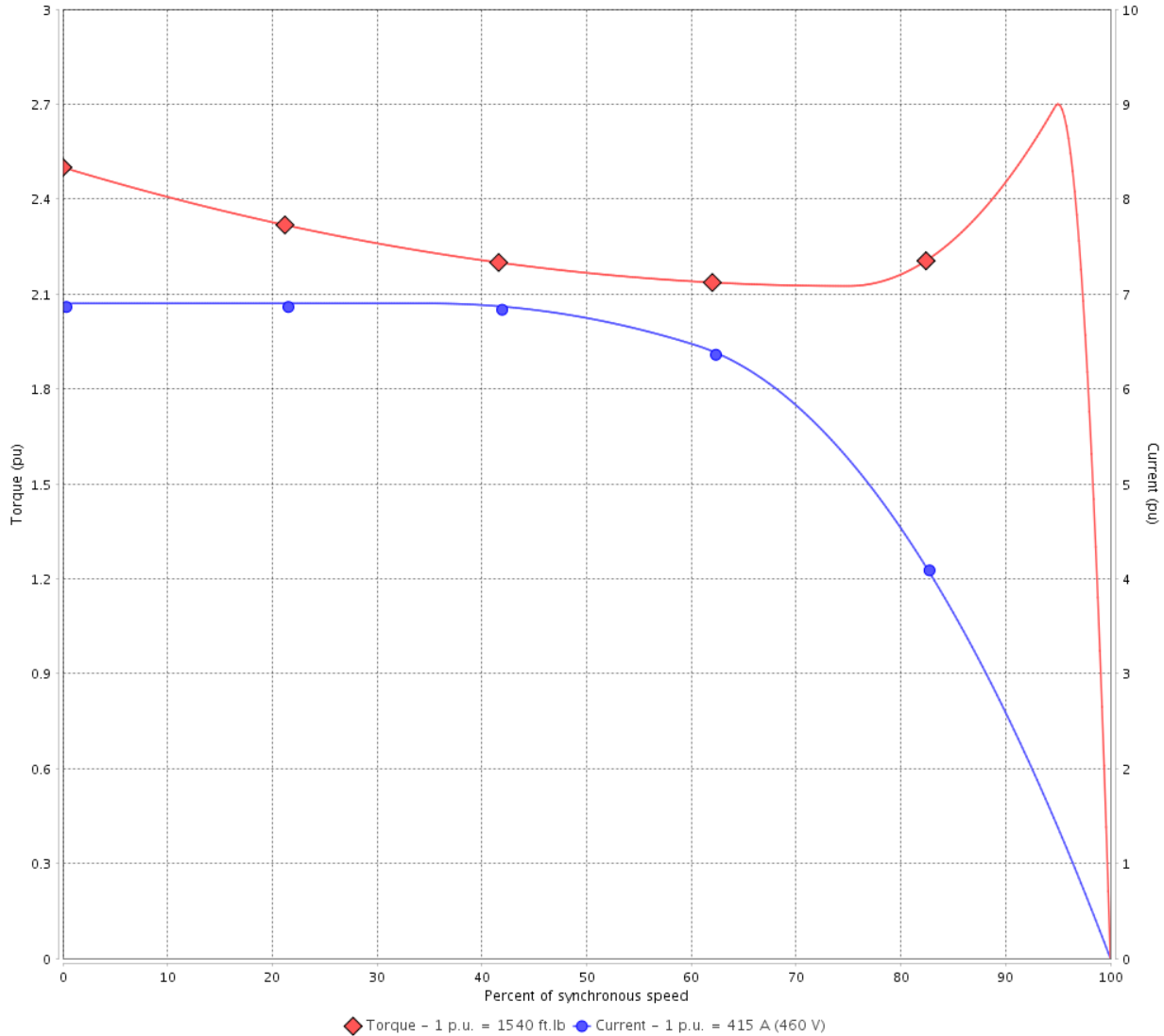
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 6P

|                     |              |                       |                |
|---------------------|--------------|-----------------------|----------------|
| Rated current       | : 415 A      | Moment of inertia (J) | : 278 sq.ft.lb |
| LRC                 | : 6.9        | Duty cycle            | : Cont.(S1)    |
| Rated torque        | : 1540 ft.lb | Insulation class      | : F            |
| Locked rotor torque | : 250 %      | Service factor        | : 1.15         |
| Breakdown torque    | : 270 %      | Temperature rise      | : 80 K         |
| Rated speed         | : 1190 rpm   | Design                | : A            |

Locked rotor time : 41s (cold) 23s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



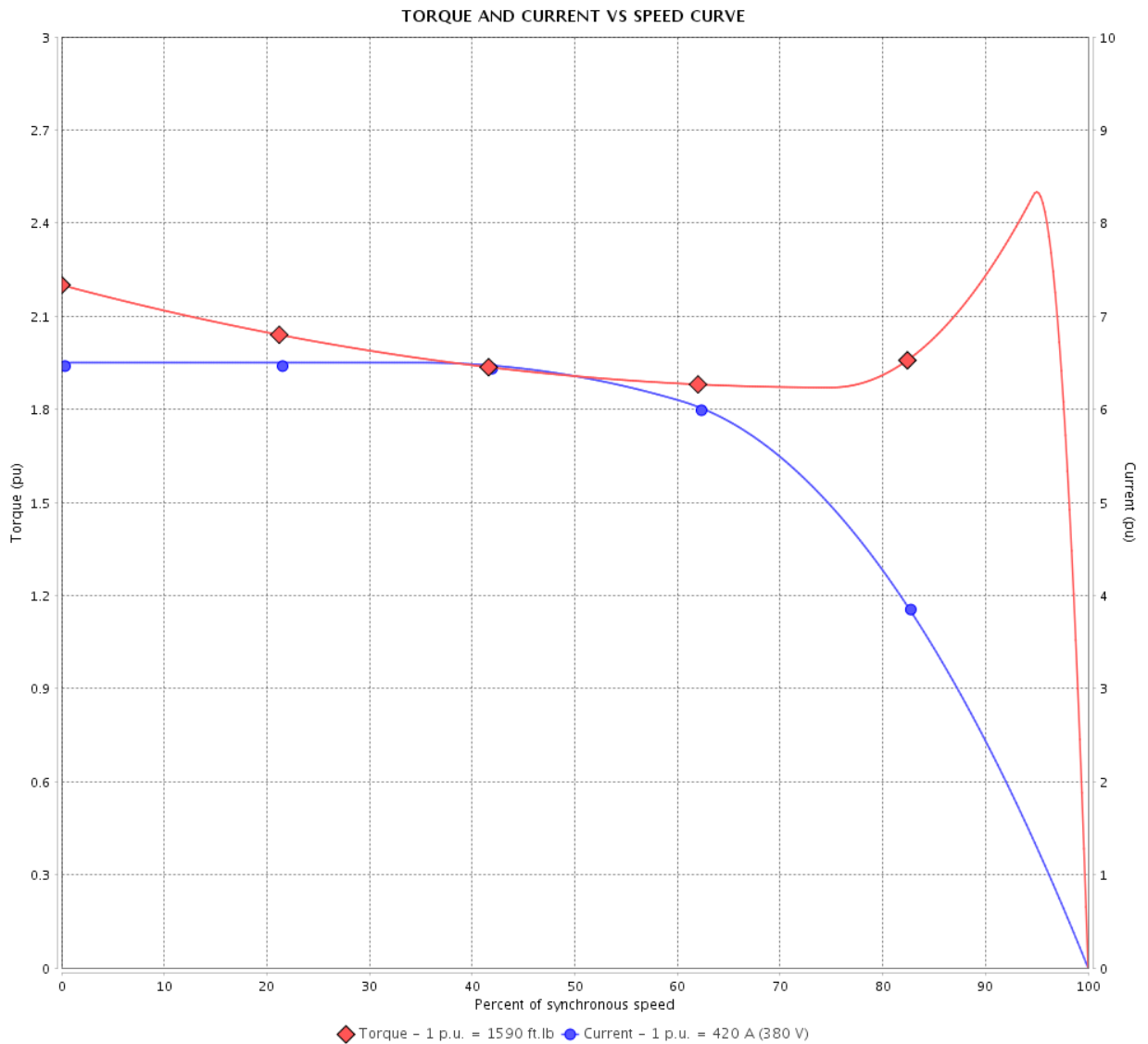
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22



Performance : 380 V 50 Hz 6P IE3

|                     |              |                       |                |
|---------------------|--------------|-----------------------|----------------|
| Rated current       | : 420 A      | Moment of inertia (J) | : 278 sq.ft.lb |
| LRC                 | : 6.5        | Duty cycle            | : Cont.(S1)    |
| Rated torque        | : 1590 ft.lb | Insulation class      | : F            |
| Locked rotor torque | : 220 %      | Service factor        | : 1.00         |
| Breakdown torque    | : 250 %      | Temperature rise      | : 80 K         |
| Rated speed         | : 990 rpm    | Design                | : A            |

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

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

Three Phase Induction Motor - Squirrel Cage



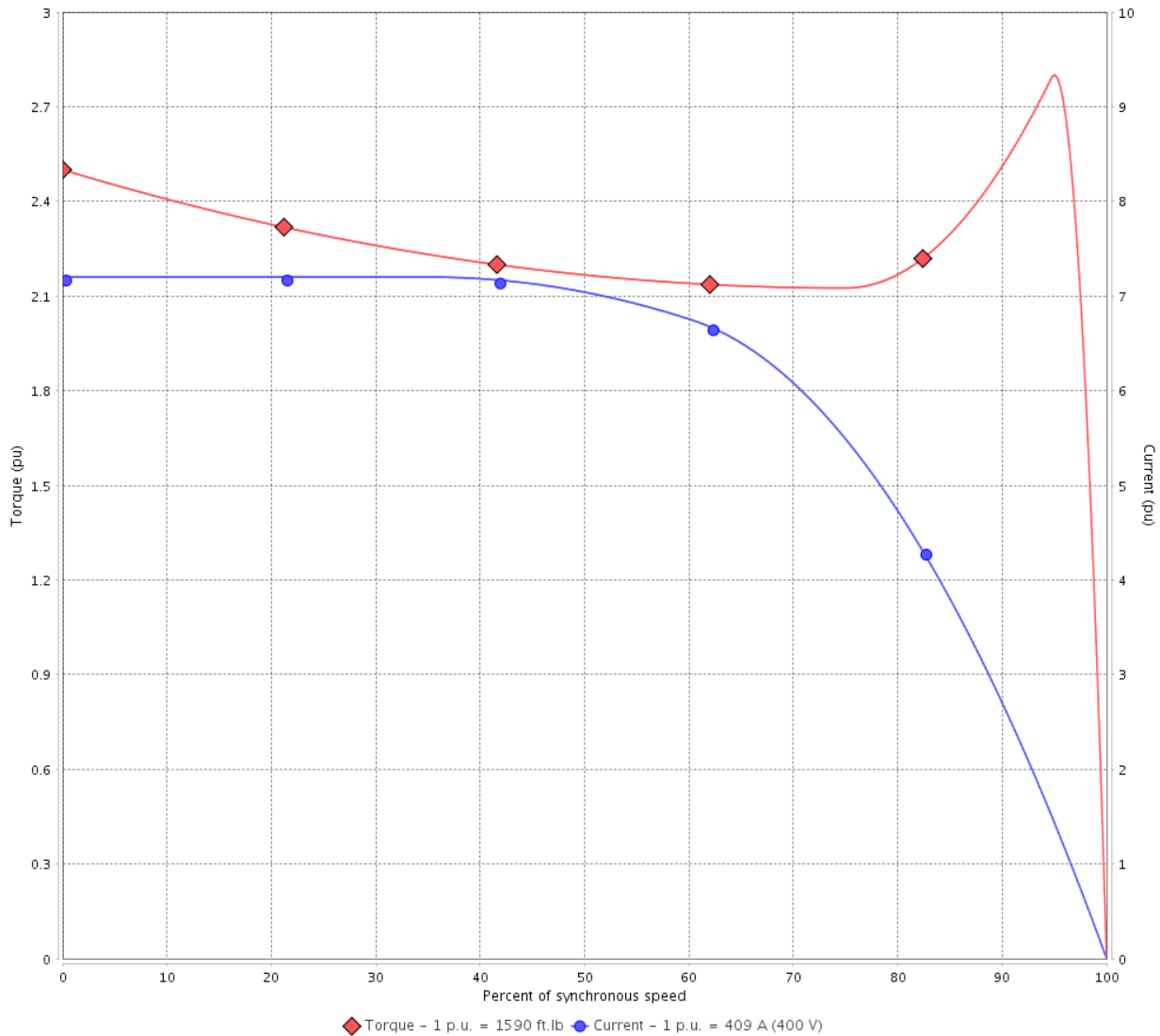
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 6P IE3

|                     |              |                       |                |
|---------------------|--------------|-----------------------|----------------|
| Rated current       | : 409 A      | Moment of inertia (J) | : 278 sq.ft.lb |
| LRC                 | : 7.2        | Duty cycle            | : Cont.(S1)    |
| Rated torque        | : 1590 ft.lb | Insulation class      | : F            |
| Locked rotor torque | : 250 %      | Service factor        | : 1.00         |
| Breakdown torque    | : 280 %      | Temperature rise      | : 80 K         |
| Rated speed         | : 990 rpm    | Design                | : A            |

Locked rotor time : 39s (cold) 22s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



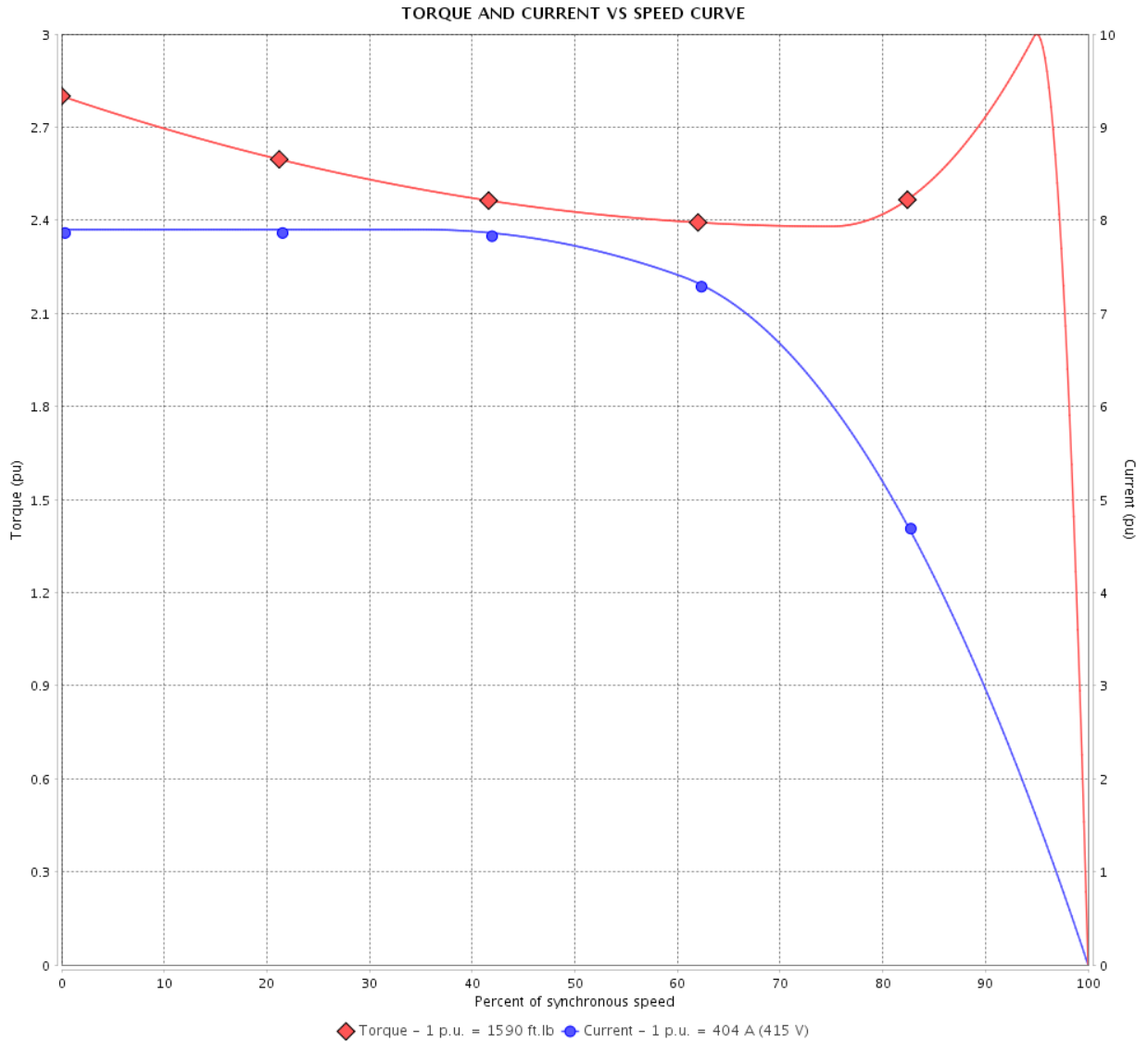
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22



Performance : 415 V 50 Hz 6P IE3

|                     |              |                       |                |
|---------------------|--------------|-----------------------|----------------|
| Rated current       | : 404 A      | Moment of inertia (J) | : 278 sq.ft.lb |
| LRC                 | : 7.9        | Duty cycle            | : Cont.(S1)    |
| Rated torque        | : 1590 ft.lb | Insulation class      | : F            |
| Locked rotor torque | : 280 %      | Service factor        | : 1.00         |
| Breakdown torque    | : 300 %      | Temperature rise      | : 80 K         |
| Rated speed         | : 990 rpm    | Design                | : A            |

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

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

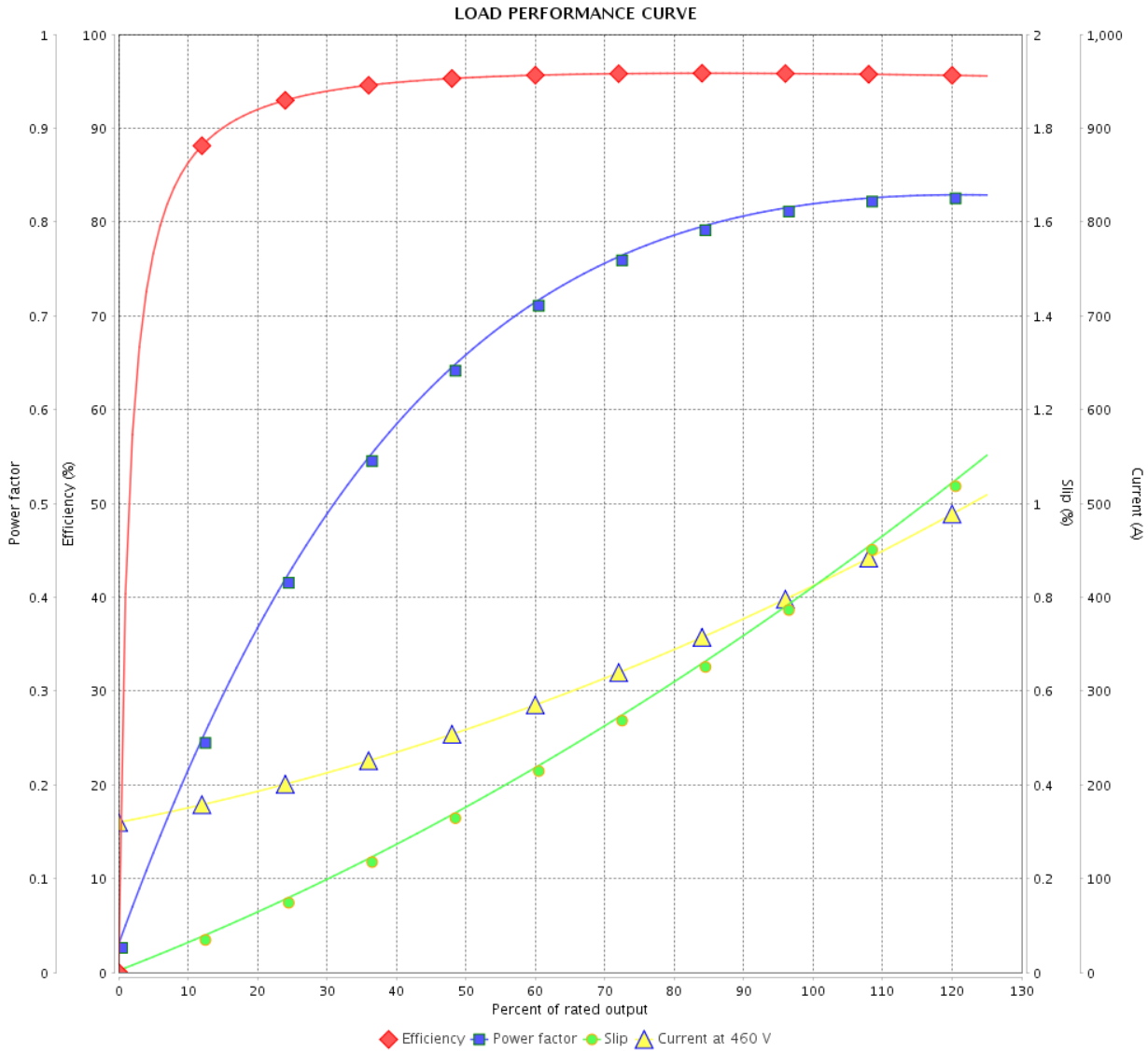


Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22



Performance : 460 V 60 Hz 6P

|                     |              |                       |                |
|---------------------|--------------|-----------------------|----------------|
| Rated current       | : 415 A      | Moment of inertia (J) | : 278 sq.ft.lb |
| LRC                 | : 6.9        | Duty cycle            | : Cont.(S1)    |
| Rated torque        | : 1540 ft.lb | Insulation class      | : F            |
| Locked rotor torque | : 250 %      | Service factor        | : 1.15         |
| Breakdown torque    | : 270 %      | Temperature rise      | : 80 K         |
| Rated speed         | : 1190 rpm   | Design                | : A            |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

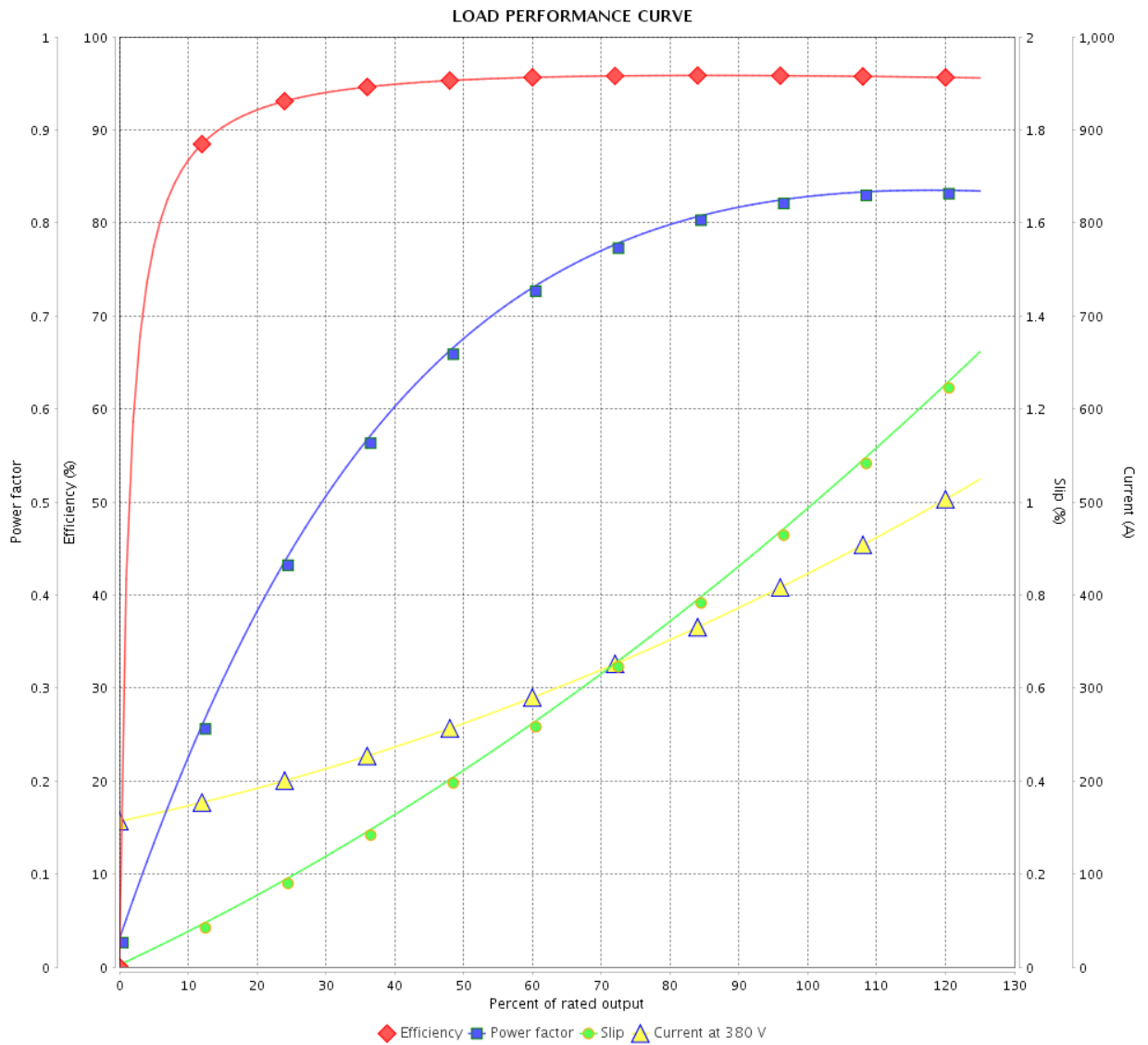


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22



Performance : 380 V 50 Hz 6P IE3

Rated current : 420 A  
 LRC : 6.5  
 Rated torque : 1590 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 250 %  
 Rated speed : 990 rpm

Moment of inertia (J) : 278 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : A

| Rev.         | Changes Summary | Performed | Checked | Date     |
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

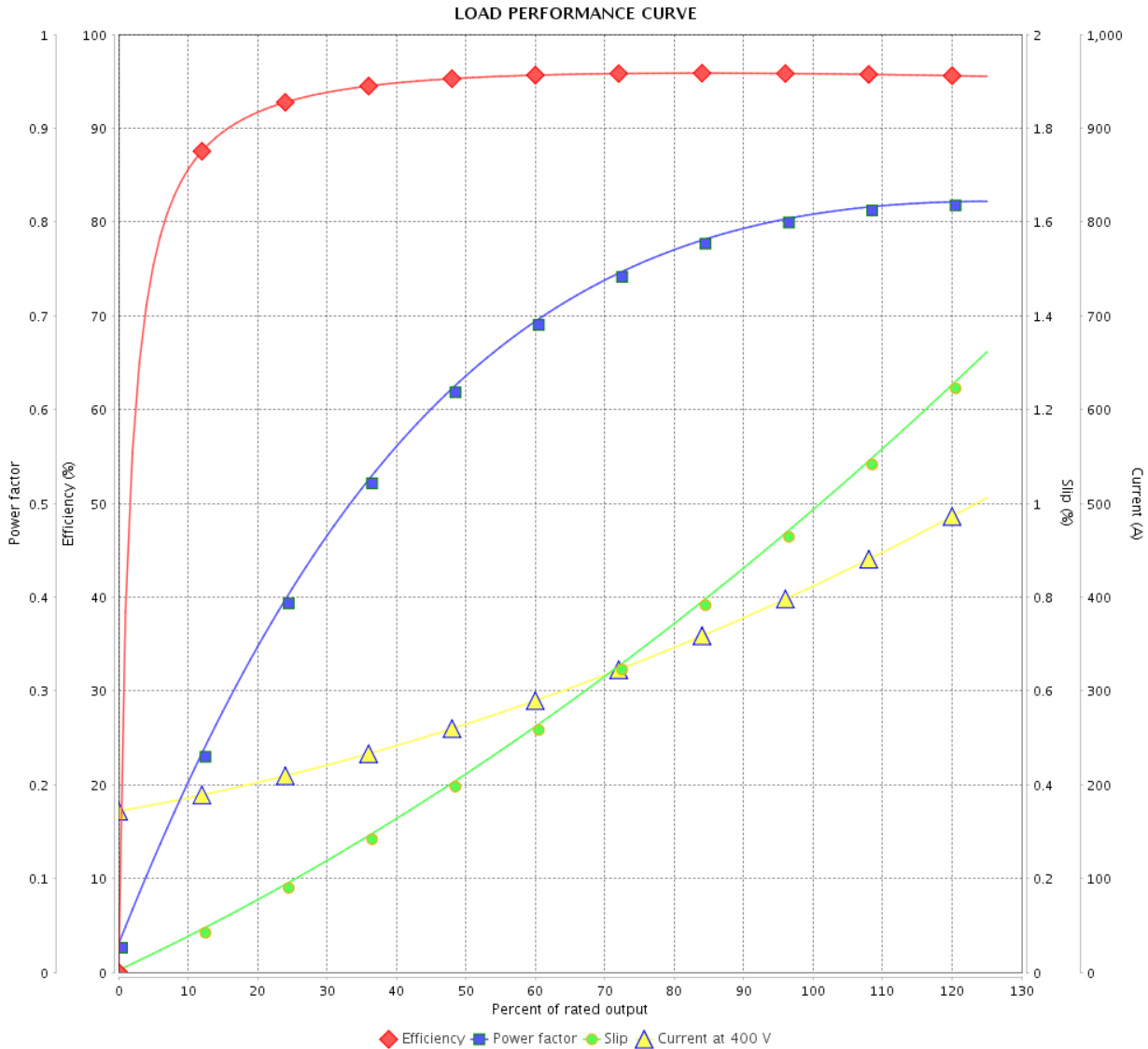


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22



Performance : 400 V 50 Hz 6P IE3

|                     |              |                       |                |
|---------------------|--------------|-----------------------|----------------|
| Rated current       | : 409 A      | Moment of inertia (J) | : 278 sq.ft.lb |
| LRC                 | : 7.2        | Duty cycle            | : Cont.(S1)    |
| Rated torque        | : 1590 ft.lb | Insulation class      | : F            |
| Locked rotor torque | : 250 %      | Service factor        | : 1.00         |
| Breakdown torque    | : 280 %      | Temperature rise      | : 80 K         |
| Rated speed         | : 990 rpm    | Design                | : A            |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

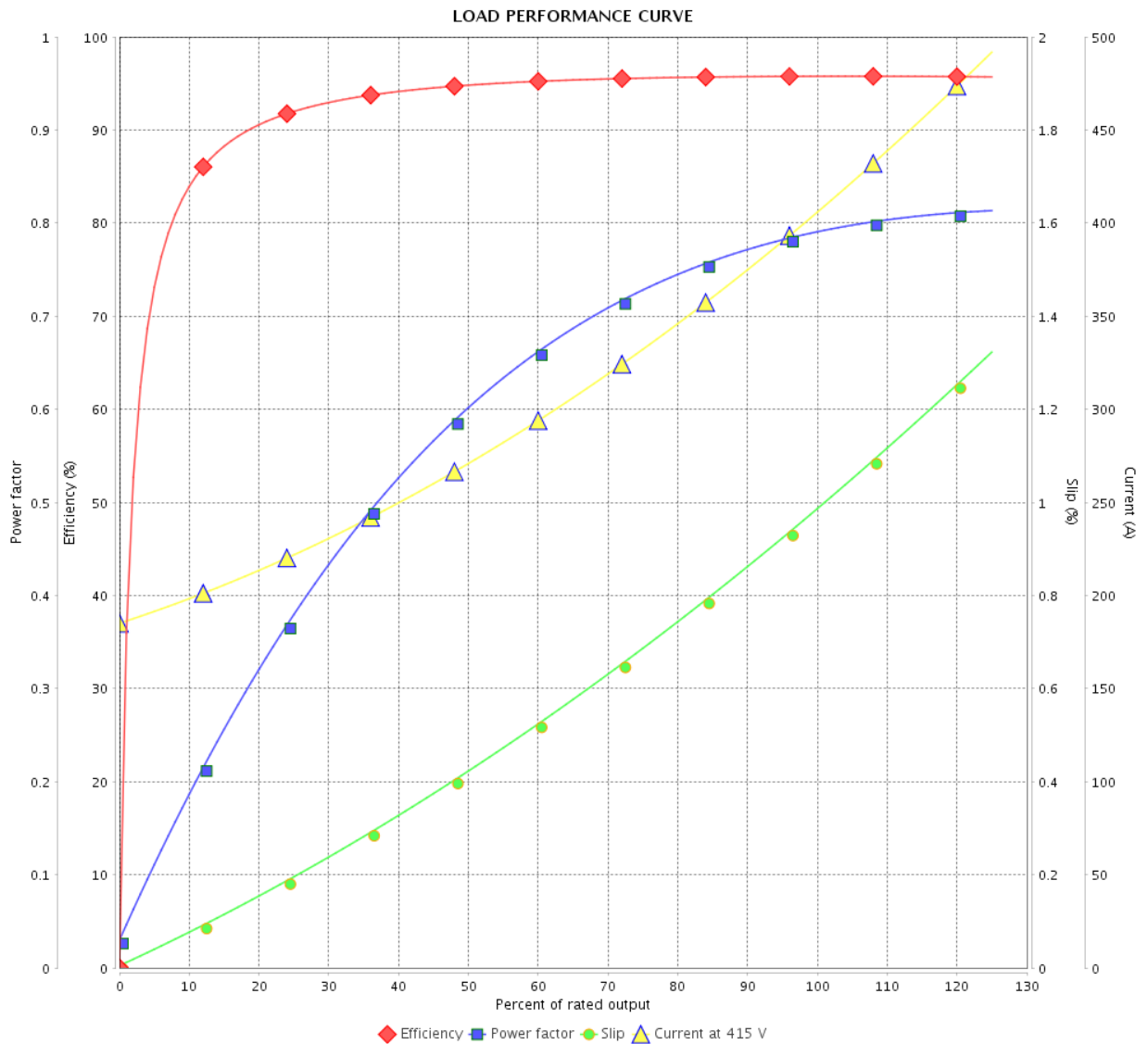


Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22



Performance : 415 V 50 Hz 6P IE3

Rated current : 404 A  
 LRC : 7.9  
 Rated torque : 1590 ft.lb  
 Locked rotor torque : 280 %  
 Breakdown torque : 300 %  
 Rated speed : 990 rpm

Moment of inertia (J) : 278 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : A

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

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase  
Product code : 11408296  
Catalog # : 35012ET3G449T-W22

Performance : 460 V 60 Hz 6P

|                     |              |                       |                |
|---------------------|--------------|-----------------------|----------------|
| Rated current       | : 415 A      | Moment of inertia (J) | : 278 sq.ft.lb |
| LRC                 | : 6.9        | Duty cycle            | : Cont.(S1)    |
| Rated torque        | : 1540 ft.lb | Insulation class      | : F            |
| Locked rotor torque | : 250 %      | Service factor        | : 1.15         |
| Breakdown torque    | : 270 %      | Temperature rise      | : 80 K         |
| Rated speed         | : 1190 rpm   | Design                | : A            |

Heating constant

Cooling constant

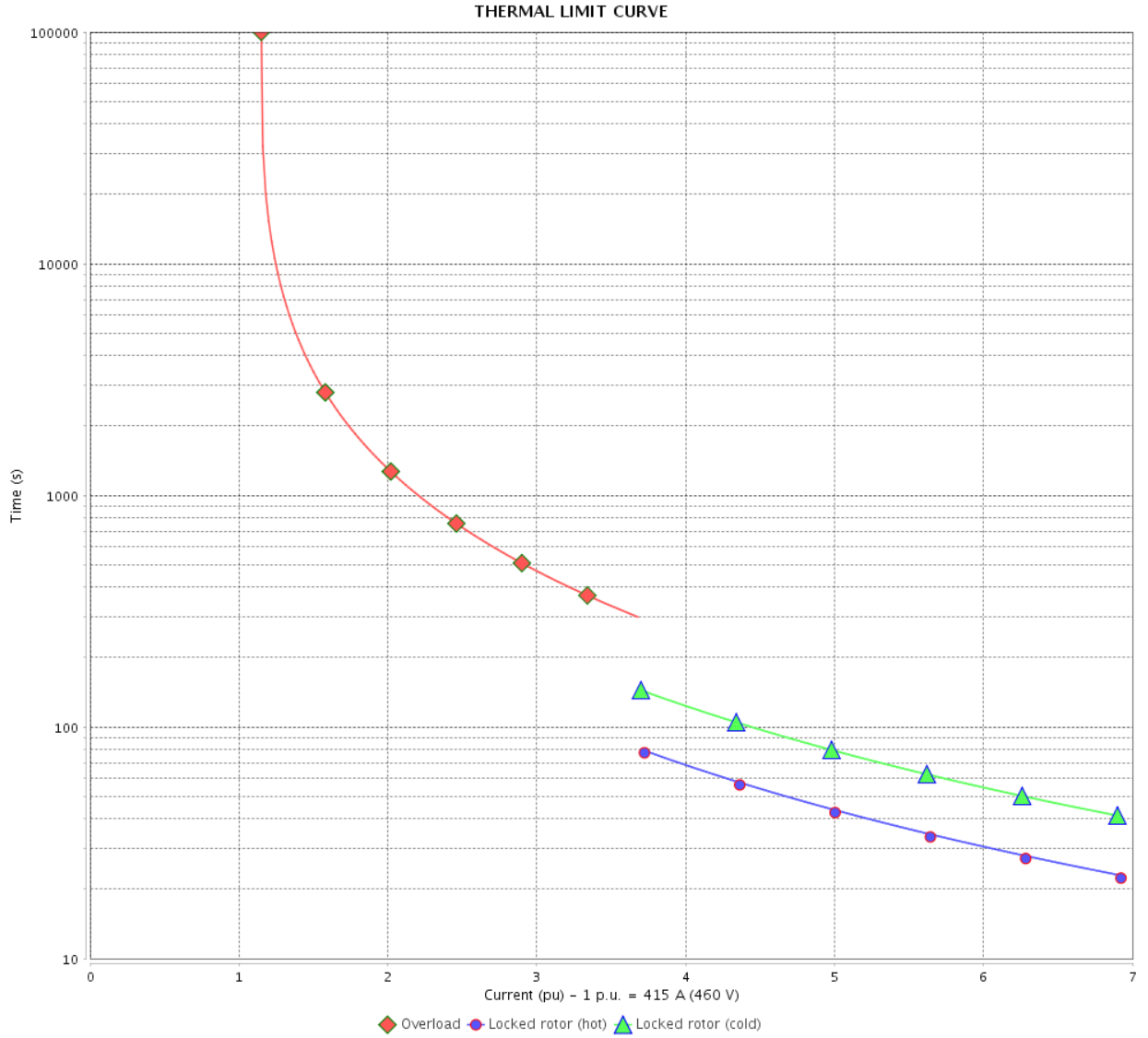
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# THERMAL LIMIT CURVE

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 : 11408296  
Catalog # : 35012ET3G449T-W22

Performance : 380 V 50 Hz 6P IE3

|                     |              |                       |                |
|---------------------|--------------|-----------------------|----------------|
| Rated current       | : 420 A      | Moment of inertia (J) | : 278 sq.ft.lb |
| LRC                 | : 6.5        | Duty cycle            | : Cont.(S1)    |
| Rated torque        | : 1590 ft.lb | Insulation class      | : F            |
| Locked rotor torque | : 220 %      | Service factor        | : 1.00         |
| Breakdown torque    | : 250 %      | Temperature rise      | : 80 K         |
| Rated speed         | : 990 rpm    | Design                | : A            |

Heating constant

Cooling constant

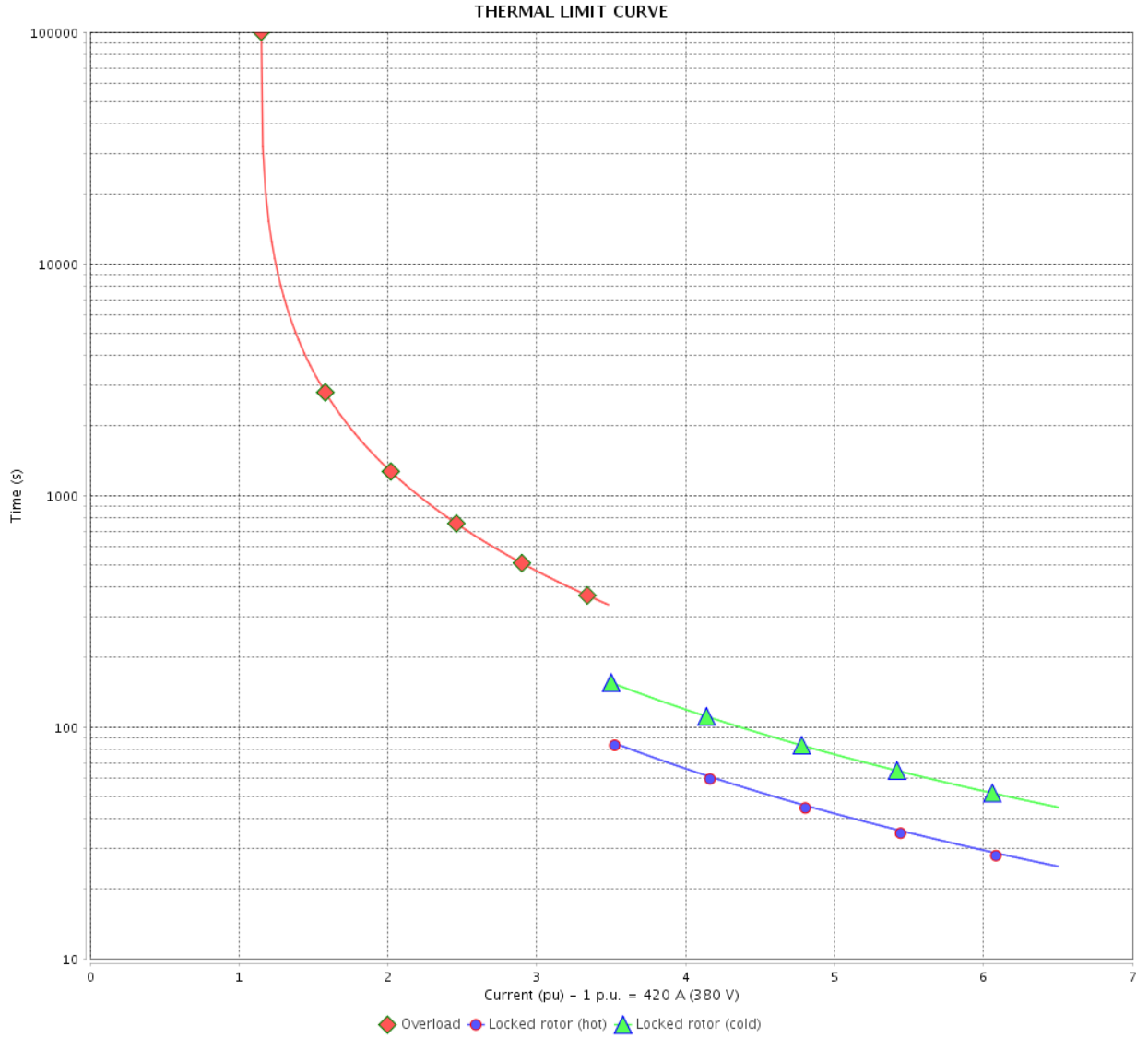
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# THERMAL LIMIT CURVE

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 : 11408296  
Catalog # : 35012ET3G449T-W22

Performance : 400 V 50 Hz 6P IE3

|                     |              |                       |                |
|---------------------|--------------|-----------------------|----------------|
| Rated current       | : 409 A      | Moment of inertia (J) | : 278 sq.ft.lb |
| LRC                 | : 7.2        | Duty cycle            | : Cont.(S1)    |
| Rated torque        | : 1590 ft.lb | Insulation class      | : F            |
| Locked rotor torque | : 250 %      | Service factor        | : 1.00         |
| Breakdown torque    | : 280 %      | Temperature rise      | : 80 K         |
| Rated speed         | : 990 rpm    | Design                | : A            |

Heating constant

Cooling constant

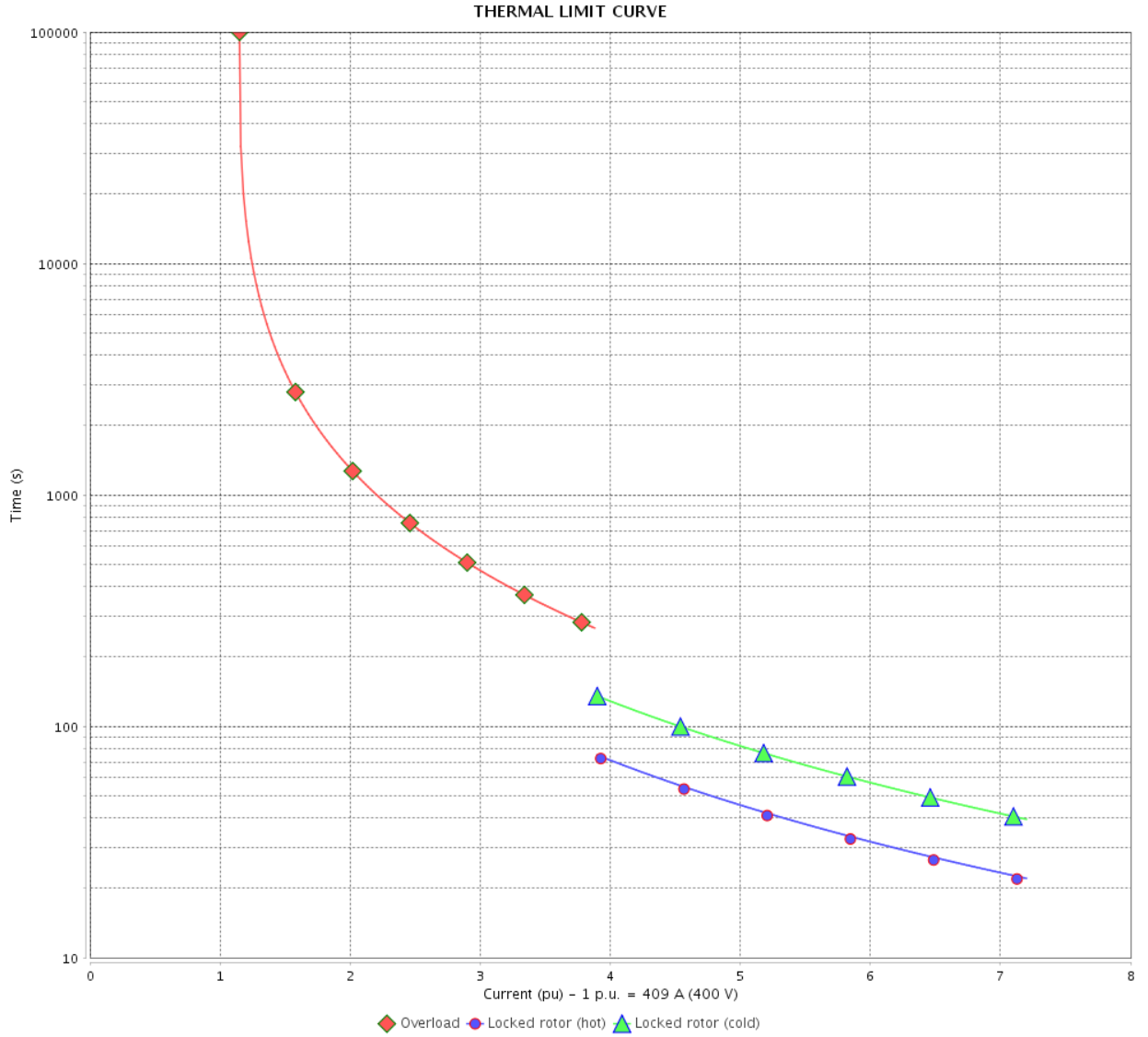
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



| Rev.         | Changes Summary | Performed  | Checked | Date     |
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| Breakdown torque    | : 300 %      | Temperature rise      | : 80 K         |
| Rated speed         | : 990 rpm    | Design                | : A            |

Heating constant

Cooling constant

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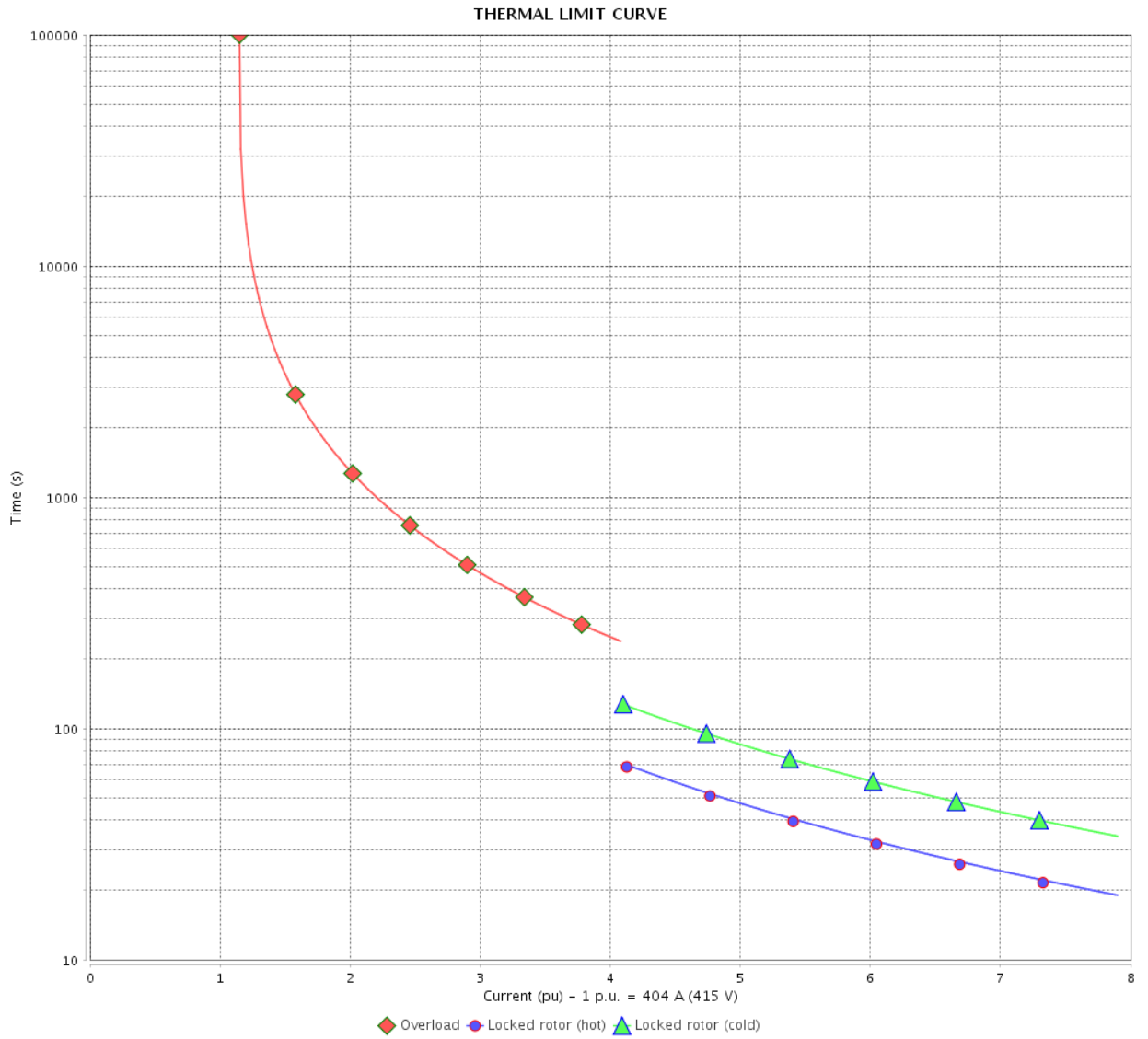


# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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

Three Phase Induction Motor - Squirrel Cage

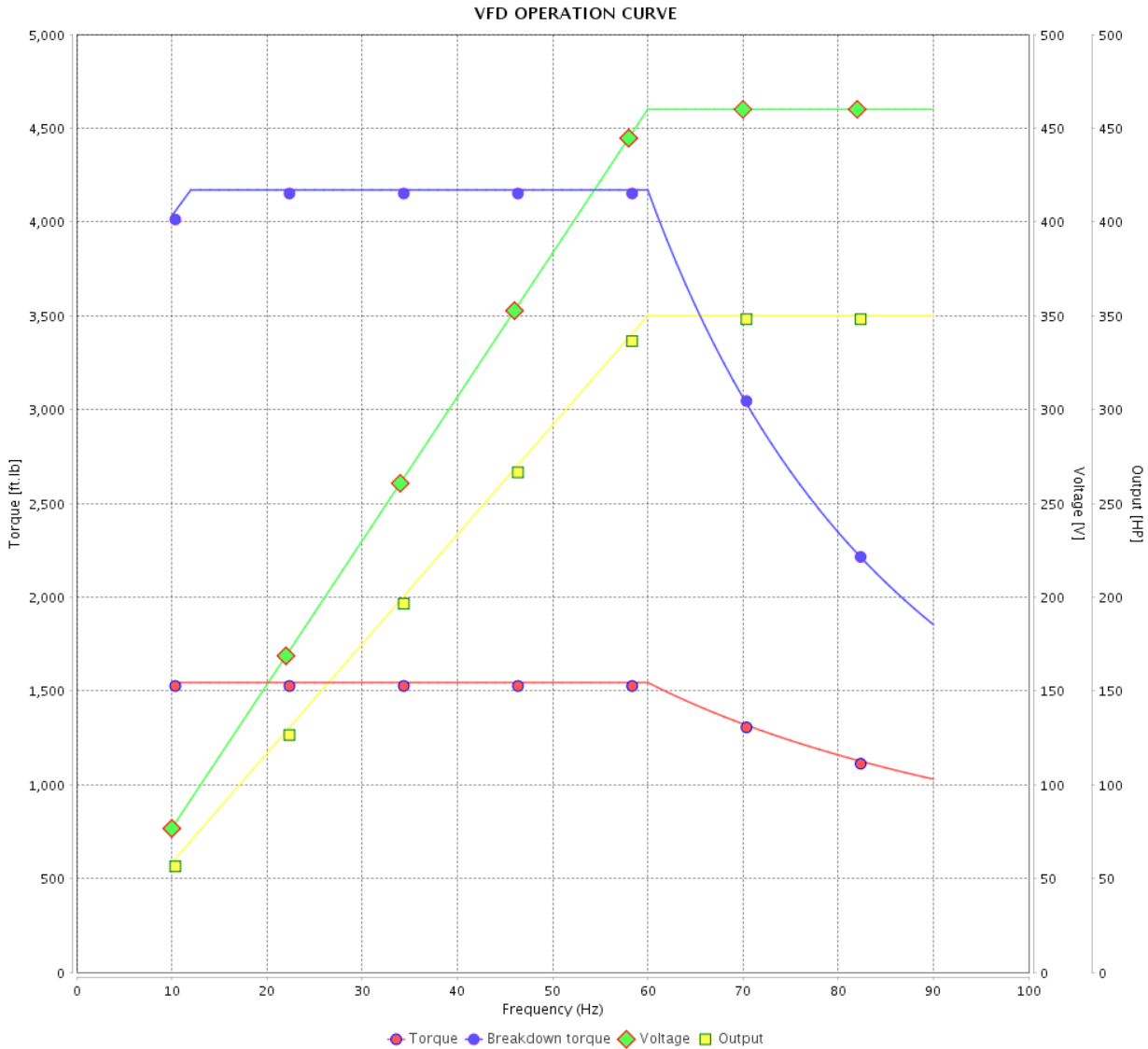


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22



Performance : 460 V 60 Hz 6P

Rated current : 415 A  
 LRC : 6.9  
 Rated torque : 1540 ft.lb  
 Locked rotor torque : 250 %  
 Breakdown torque : 270 %  
 Rated speed : 1190 rpm

Moment of inertia (J) : 278 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

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

Three Phase Induction Motor - Squirrel Cage

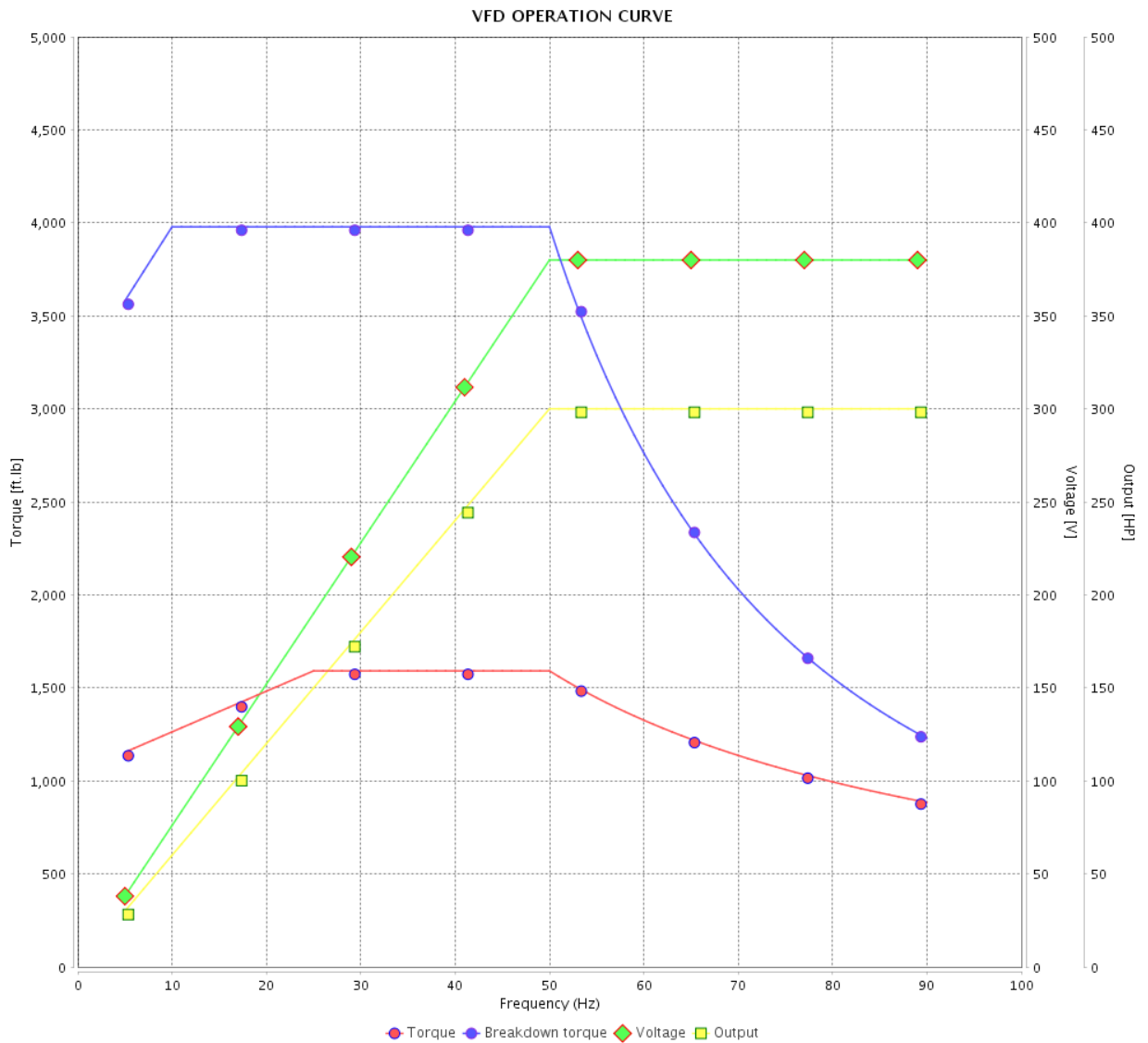


Customer : \_\_\_\_\_

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 Breakdown torque : 250 %  
 Rated speed : 990 rpm

Moment of inertia (J) : 278 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : A

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

Three Phase Induction Motor - Squirrel Cage

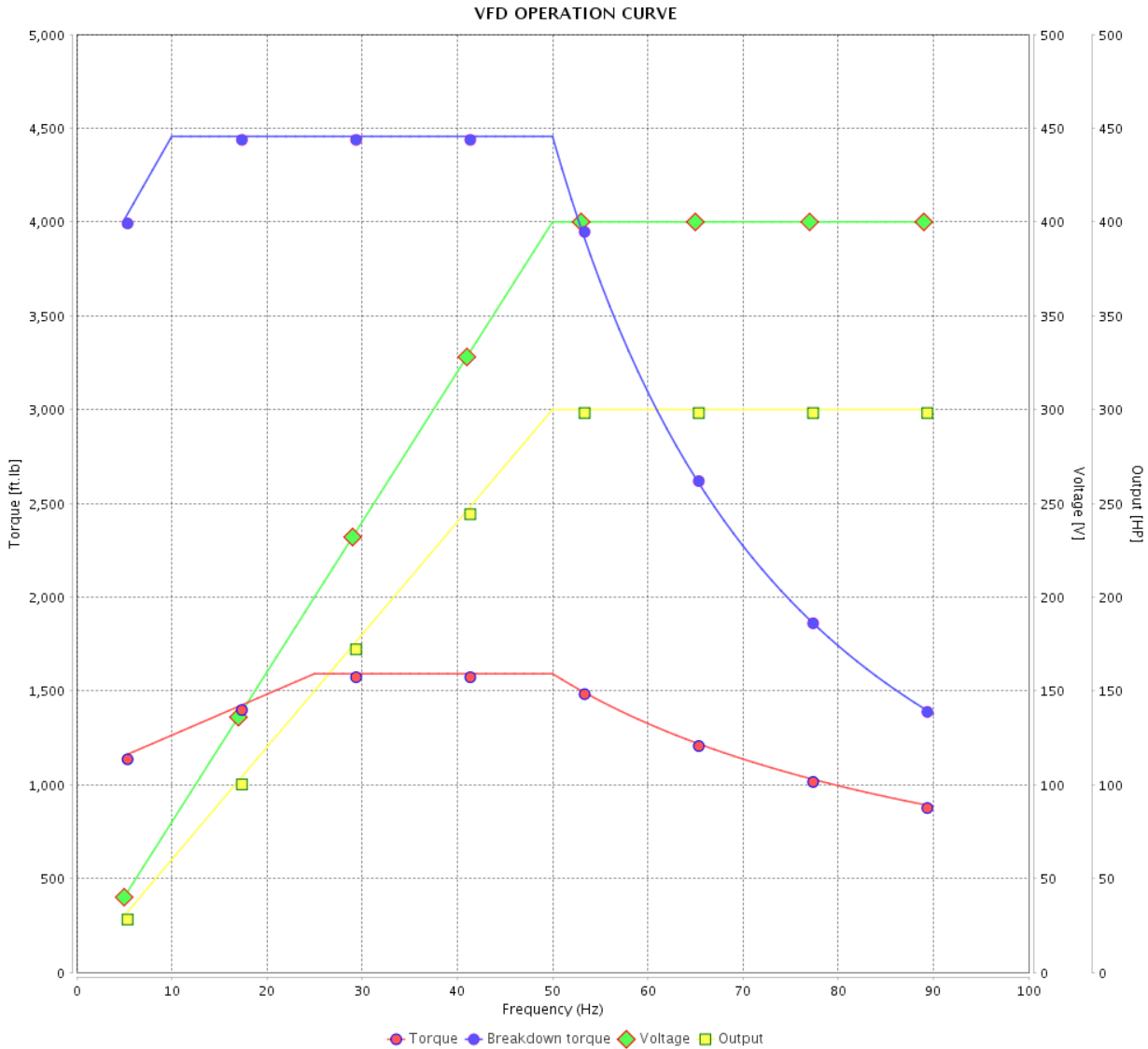


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22



Performance : 400 V 50 Hz 6P IE3

Rated current : 409 A  
 LRC : 7.2  
 Rated torque : 1590 ft.lb  
 Locked rotor torque : 250 %  
 Breakdown torque : 280 %  
 Rated speed : 990 rpm

Moment of inertia (J) : 278 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : A

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 |           | Page    | Revision |
| Checked by   |                 |           |         |          |
| Date         |                 |           |         |          |

# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

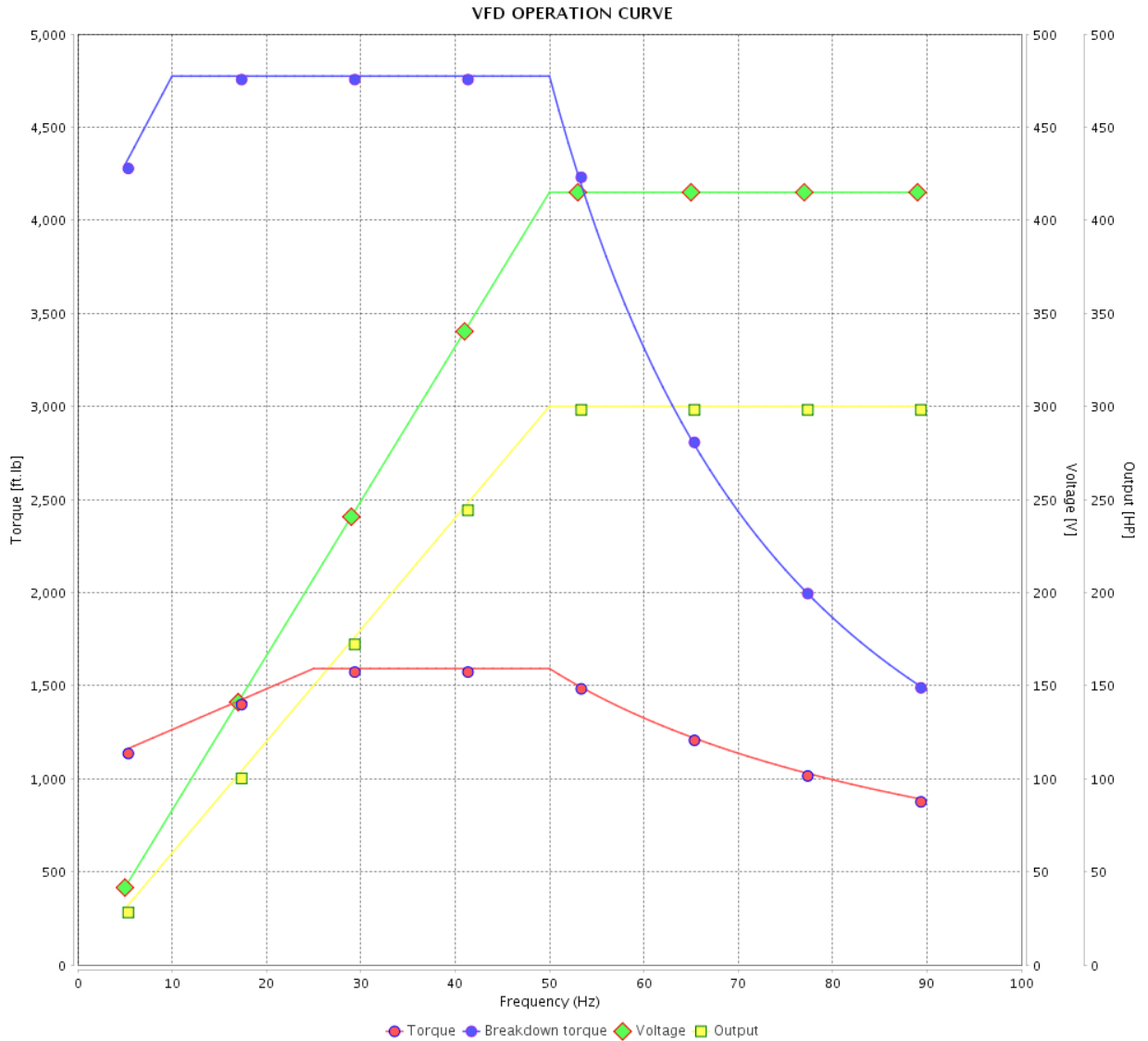


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22



Performance : 415 V 50 Hz 6P IE3

Rated current : 404 A  
 LRC : 7.9  
 Rated torque : 1590 ft.lb  
 Locked rotor torque : 280 %  
 Breakdown torque : 300 %  
 Rated speed : 990 rpm

Moment of inertia (J) : 278 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : A

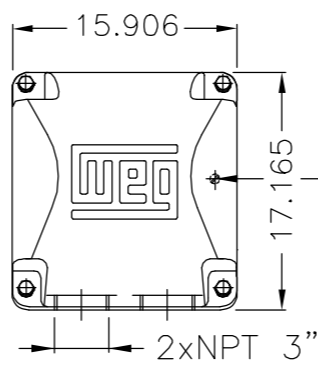
| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>21 / 21 | Revision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

|                   |   |
|-------------------|---|
| EIXO/SHAFT        |   |
| PADRÃO/STANDARD   | X |
| OPCIONAL/OPTIONAL |   |
| ESPECIAL/SPECIAL  |   |

Dimensões em polegada  
Dimensions in inches

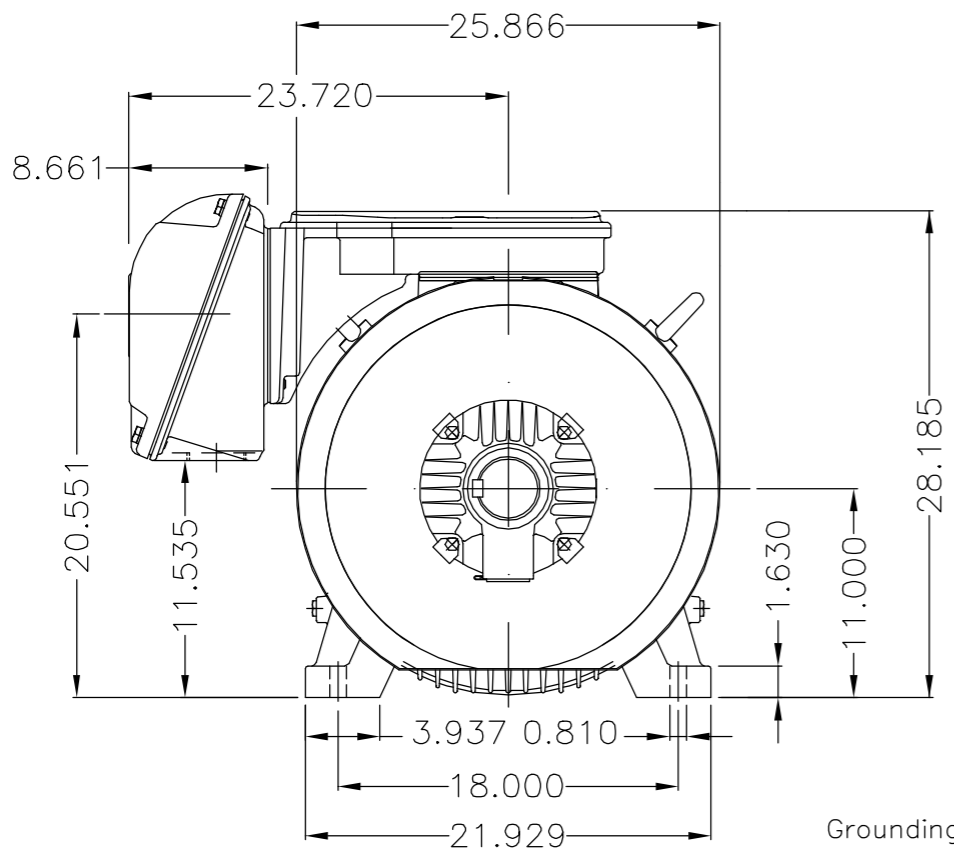
**CERTIFIED WEG MOTORES**  
Certified document.  
Not subject to changes.

THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

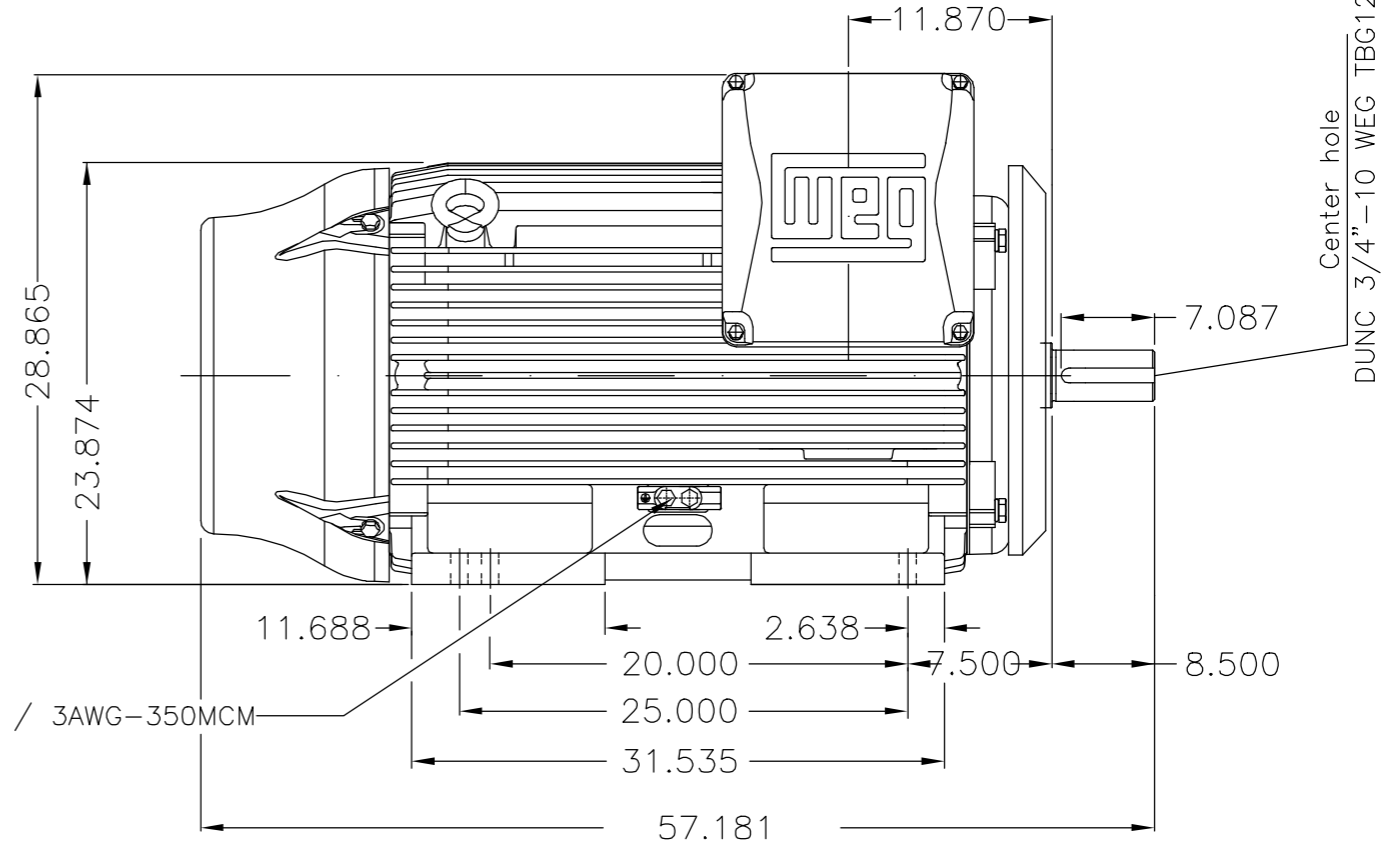


Grounding for leads 35-70 mm<sup>2</sup> / 1-2/0 AWG

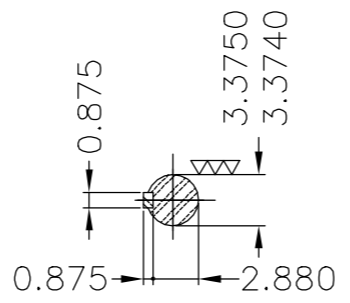
Main terminal box



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



Center hole  
DUNC 3/4"-10 WEG TBG12



DE Shaft End

|   |
|---|
| Defletor de ar dianteiro / Drive-End Air Deflector                          |
| Ventilador especial (código WEG 14427745) / Special fan (WEG code 14427745) |
| Tampa traseira com mancal eletricamente isolado                             |
| NDE endshield with electrically insulated bearing hub                       |
| Cor RAL 5009 / Color RAL 5009   |
| Plano de pintura 203A / Painting plan 203A                                  |
| Forma construtiva B3D / Mounting B3R(D)                                     |

**WEG ELECTRIC CORPORATION - WEC**

OV: 20050281

|              |            |   |                |                     |             |            |     |
|--------------|------------|---|----------------|---------------------|-------------|------------|-----|
| 500001919752 |            | ATUALIZADO DEFLETOR EXTERNO   | DWAGNER        | SAORIN              | SAORIN      | 12.04.2021 | 03  |
| 500001454464 |            | ALT. NOME CLIENTE   | FRANCINES      | PKREYSSIG           | PKREYSSIG   | 18.05.2018 | 02  |
| ECM          | LOC        | SUMMARY OF MODIFICATIONS  | EXECUTED       | CHECKED             | RELEASED    | DATE       | VER |
| EXECUTED     | ERIC       | THREE PHASE W22 MOTOR - NEMA PREMIUM EFF<br>FRAME L447/9T IP55 TEFC |                |                     | 10005756853 |            |     |
| CHECKED      | FRANCINES  |   |                |                     | 000         | 03         |     |
| RELEASED     | FRANCINES  |   |                |                     |             |            |     |
| REL DT       | 16.05.2018 | WMO   | Jaragua do Sul | Product Engineering | SHEET       | 1 / 1      |     |

350 HP 06 Poles 60Hz

A

MADE IN BRAZIL  
11408296



**NEMA**  
Premium  
W22



FOR SAFE AREA  
Mod.TE1BFOXON  
CC029A



Class I, Div 2, Gr A, B, C and D - T3  
Class I, Zone 2, IIC - T3  
Class II, Div 2, Gr F and G - T3C  
For use on PWM: Gr. A, B, C and D,  
VT 1000:1, CT 6:1, 1.00SF - T2B

MODEL 35012ET3G449T-W22

Inverter Duty Motor  
Severe Duty

PH3 60Hz Fr. L447/9T 1000m.a.s.l. IP55 TEFC 3628lb

V 460

A 415

HP 350

kW 260

SF 1.15

SFA 477

RPM 1190

PF 0.82

AMB 40°C

INS cl. F DT80K

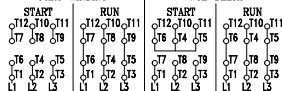
NEMA NOM EFF 95.8%

DUTY CONT.

DES A Code H

PART-WINDING

WYE-DELTA



→ 6322-C3 (60g)

→ 6319-C3 (45g)



MOBIL POLYREX EM (11000h)

