

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |   |  |                      |                      |      |
|--|---|--|----------------------|----------------------|------|
| Customer :   |   |  |                      |                      |      |
| Product line   | : NEMA Premium Efficiency Three-Phase                   | Product code :   | 11341752             |                      |      |
|  |   | Catalog # :  | 04012XT3E364T        |                      |      |
| Frame  | : 364/5T  | 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>  | : 987 lb             |                      |      |
| Protection degree  | : IP55  | Moment of inertia (J)  | : 29.0 sq.ft.lb      |                      |      |
| Design   | : B   |  |                      |                      |      |
| Output [HP]  | 40  | 40   | 40                   | 40                   |      |
| Poles  | 6   | 6  | 6                    | 6                    |      |
| Frequency [Hz]   | 60  | 50   | 50                   | 50                   |      |
| Rated voltage [V]  | 230/460   | 380  | 400                  | 415                  |      |
| Rated current [A]  | 94.2/47.1   | 56.7   | 54.5                 | 52.8                 |      |
| L. R. Amperes [A]  | 659/330   | 306  | 332                  | 348                  |      |
| LRC [A]  | 7.0x(Code H)  | 5.4x(Code F)   | 6.1x(Code G)         | 6.6x(Code G)         |      |
| No load current [A]  | 35.0/17.5   | 17.3   | 18.5                 | 19.4                 |      |
| Rated speed [RPM]  | 1185  | 970  | 970                  | 975                  |      |
| Slip [%]   | 1.25  | 3.00   | 3.00                 | 2.50                 |      |
| Rated torque [ft.lb]   | 177   | 217  | 217                  | 215                  |      |
| Locked rotor torque [%]  | 229   | 180  | 200                  | 220                  |      |
| Breakdown torque [%]   | 229   | 180  | 200                  | 220                  |      |
| Service factor   | 1.15  | 1.00   | 1.00                 | 1.00                 |      |
| Temperature rise   | 80 K  | 80 K   | 80 K                 | 80 K                 |      |
| Locked rotor time  | 43s (cold) 24s (hot)                                    | 36s (cold) 20s (hot)   | 36s (cold) 20s (hot) | 36s (cold) 20s (hot) |      |
| Noise level <sup>2</sup>   | 65.0 dB(A)  | 61.0 dB(A)   | 61.0 dB(A)           | 61.0 dB(A)           |      |
| Efficiency (%)   | 25%   | 93.5   | 94.0                 | 94.0                 | 93.3 |
|  | 50%   | 93.6   | 93.6                 | 93.6                 | 93.0 |
|  | 75%   | 94.1   | 93.0                 | 93.0                 | 93.6 |
|  | 100%  | 94.1   | 92.4                 | 92.4                 | 93.0 |
| Power Factor   | 25%   | 0.46   | 0.52                 | 0.49                 | 0.46 |
|  | 50%   | 0.72   | 0.78                 | 0.75                 | 0.72 |
|  | 75%   | 0.80   | 0.83                 | 0.82                 | 0.80 |
|  | 100%  | 0.85   | 0.87                 | 0.86                 | 0.85 |
| Bearing type   | : <u>Drive end</u> 6314 C3 <u>Non drive end</u> 6314 C3 | Foundation loads   |                      |                      |      |
| Sealing  | : Oil Seal Lip Seal                                     | Max. traction  | : 1131 lb            |                      |      |
| Lubrication interval   | : 14267 h 14267 h                                       | Max. compression   | : 2118 lb            |                      |      |
| Lubricant amount   | : 27 g 27 g   |  |                      |                      |      |
| Lubricant type   | : Mobil Polyrex EM                                      |  |                      |                      |      |
| Notes<br>USABLE @208V 104A SF 1.00 SFA 104A  |   |  |                      |                      |      |
| 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 / 22               |                      |      |

# 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              |

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
| Performed by |                 |           |         |          |
| Checked by   |                 |           | Page    | Revision |
| Date         | 12/04/2022      |           | 2 / 22  |          |

# TORQUE AND CURRENT VS SPEED CURVE



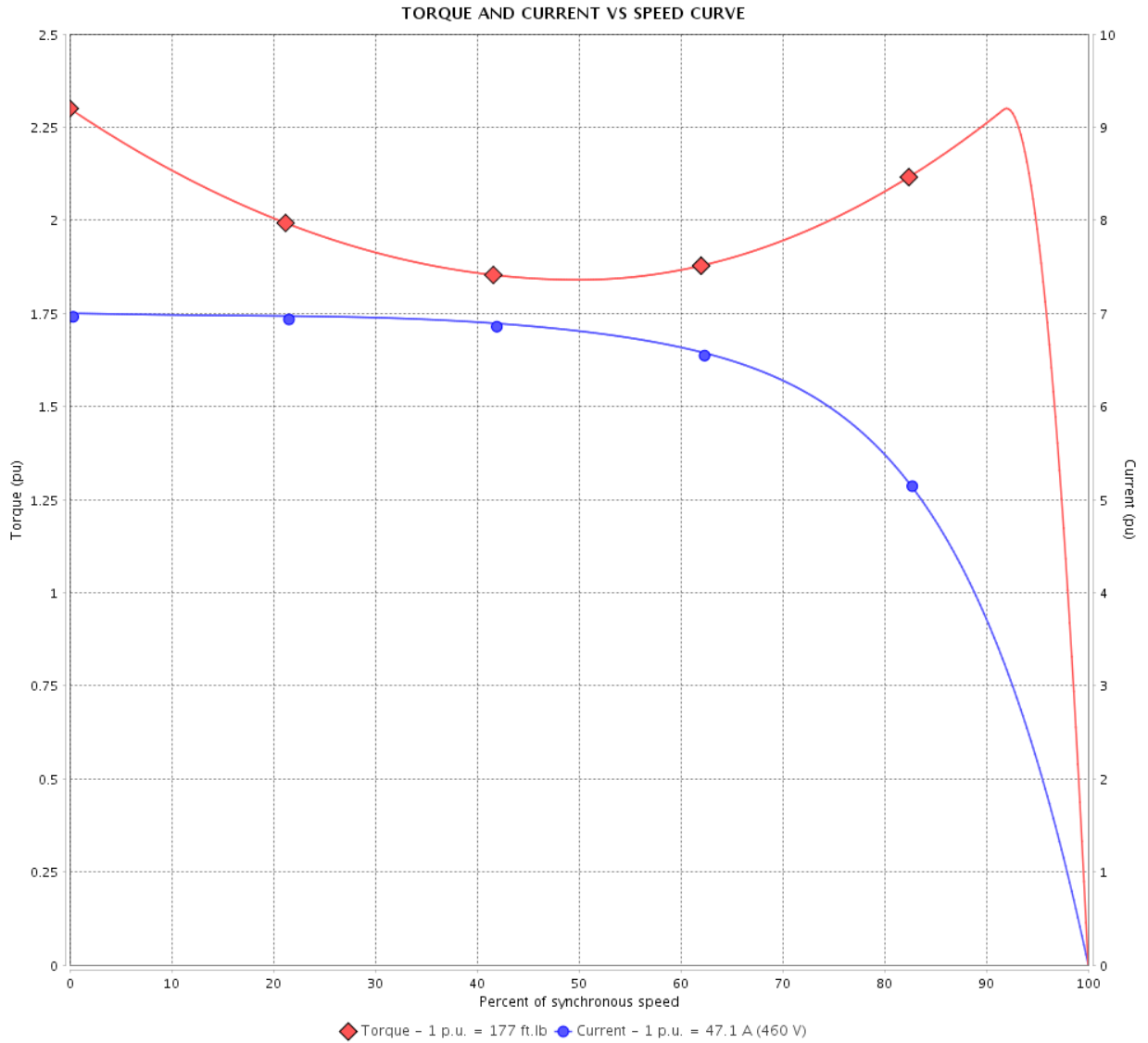
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T



Performance : 230/460 V 60 Hz 6P

Rated current : 94.2/47.1 A  
 LRC : 7.0  
 Rated torque : 177 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 229 %  
 Rated speed : 1185 rpm

Moment of inertia (J) : 29.0 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Locked rotor time : 43s (cold) 24s (hot)

| Rev.         | Changes Summary | Performed | Checked        | Date     |
|--------------|-----------------|-----------|----------------|----------|
|              |                 |           |                |          |
| Performed by |                 |           | Page<br>3 / 22 | Revision |
| Checked by   |                 |           |                |          |
| Date         | 12/04/2022      |           |                |          |

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



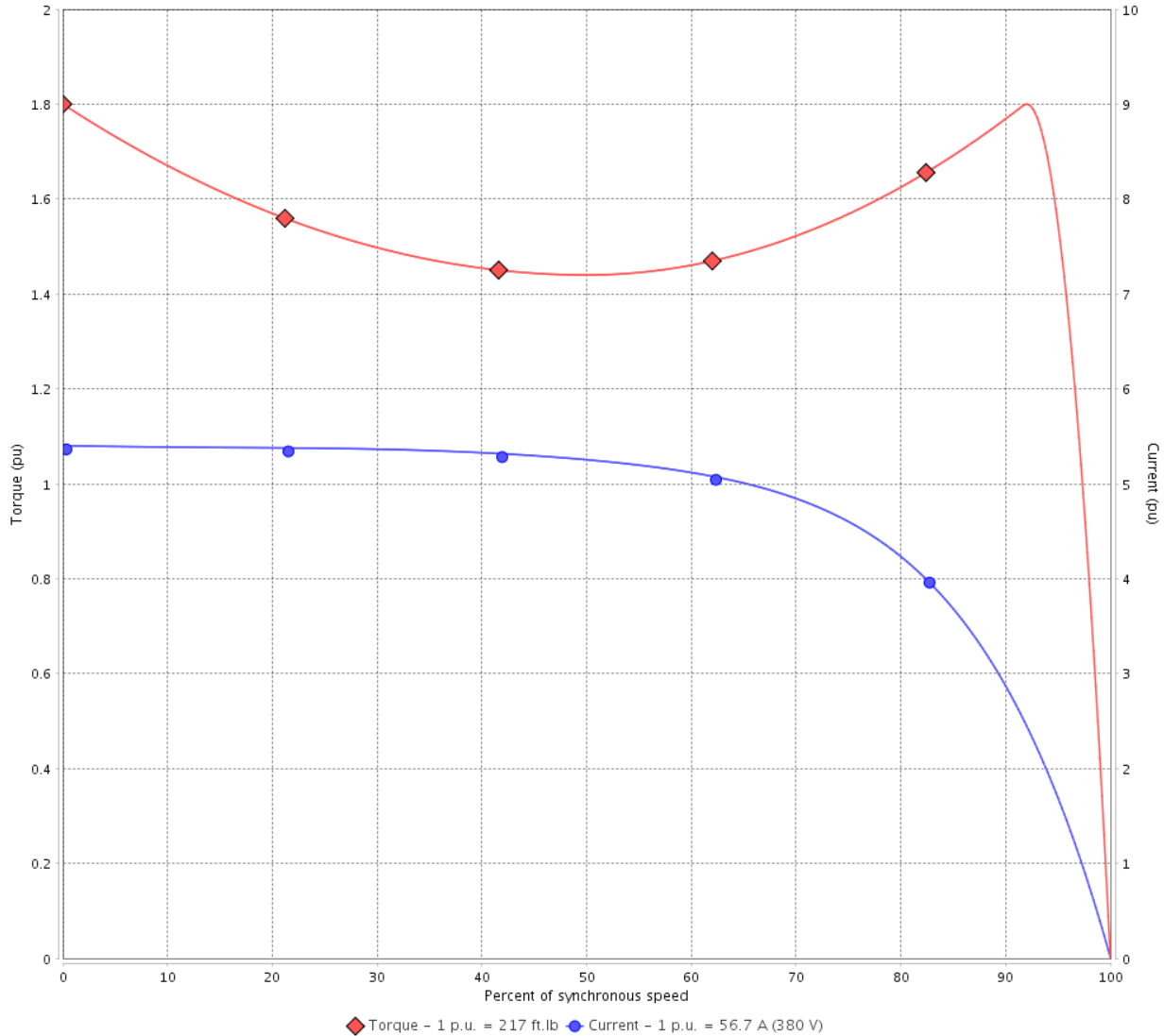
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 6P IE2

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 56.7 A    | Moment of inertia (J) | : 29.0 sq.ft.lb |
| LRC                 | : 5.4       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 217 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 180 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 180 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 970 rpm   | Design                | : B             |

Locked rotor time : 36s (cold) 20s (hot)

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 | Page      |         | Revision |
| Checked by   |                 | 4 / 22    |         |          |
| Date         | 12/04/2022      |           |         |          |

# TORQUE AND CURRENT VS SPEED CURVE



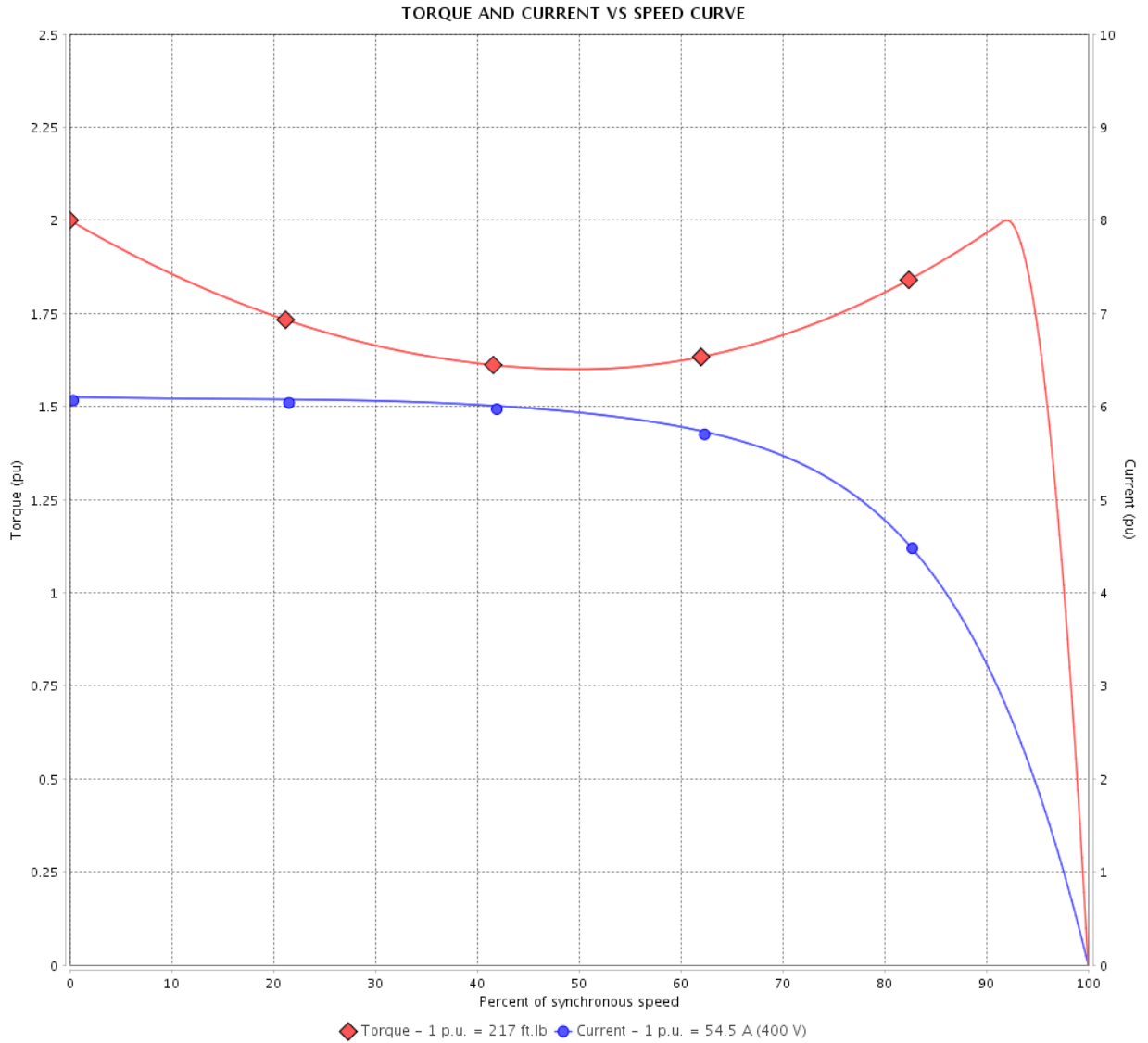
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T



Performance : 400 V 50 Hz 6P IE2

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 54.5 A    | Moment of inertia (J) | : 29.0 sq.ft.lb |
| LRC                 | : 6.1       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 217 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 200 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 200 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 970 rpm   | Design                | : B             |

Locked rotor time : 36s (cold) 20s (hot)

| Rev.         | Changes Summary | Performed | Checked        | Date     |
|--------------|-----------------|-----------|----------------|----------|
|              |                 |           |                |          |
| Performed by |                 |           | Page<br>5 / 22 | Revision |
| Checked by   |                 |           |                |          |
| Date         | 12/04/2022      |           |                |          |

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



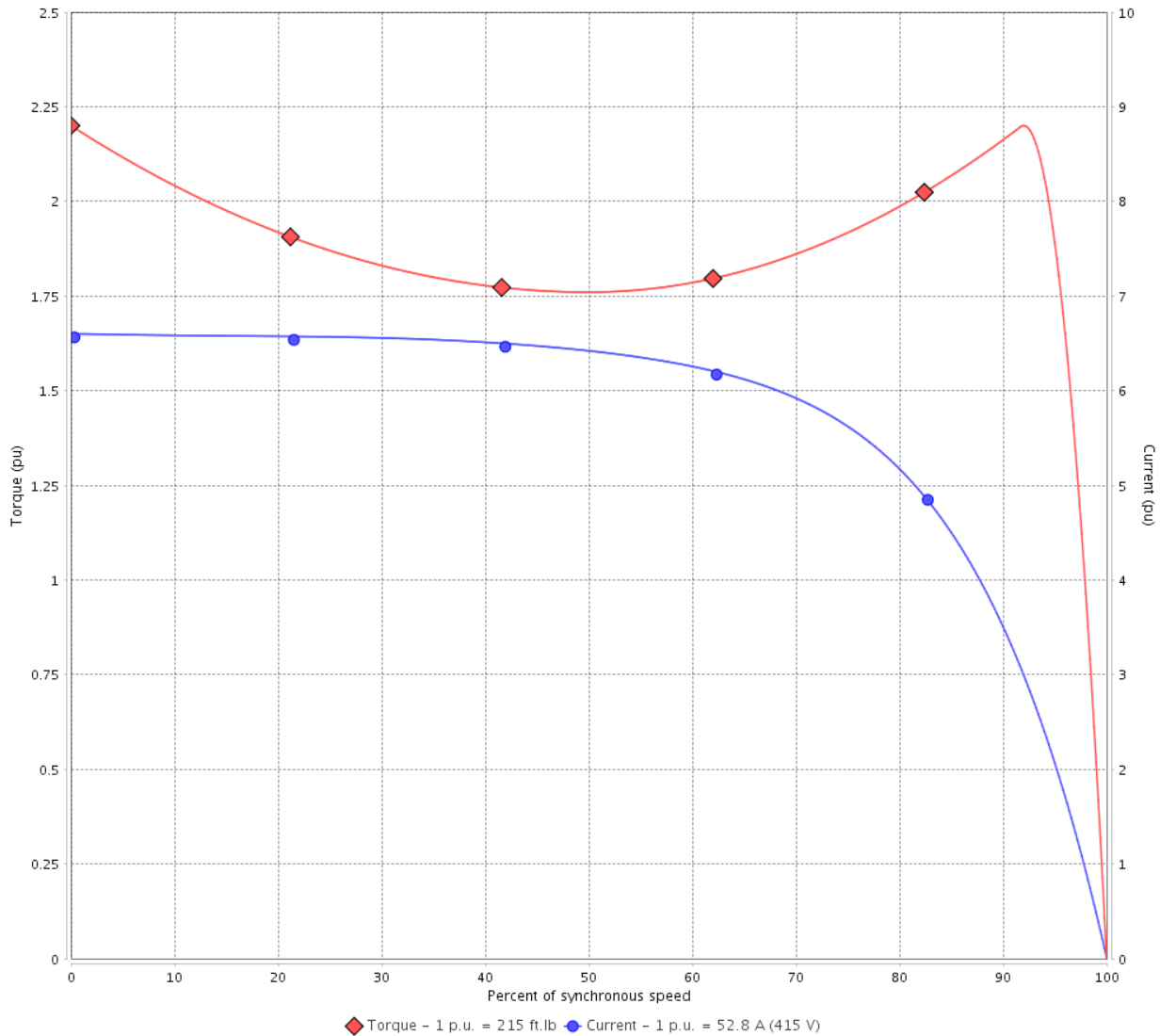
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 6P IE3

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 52.8 A    | Moment of inertia (J) | : 29.0 sq.ft.lb |
| LRC                 | : 6.6       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 215 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 220 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 220 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 975 rpm   | Design                | : B             |

Locked rotor time : 36s (cold) 20s (hot)

| Rev.         | Changes Summary | Performed | Checked        | Date     |
|--------------|-----------------|-----------|----------------|----------|
|              |                 |           |                |          |
| Performed by |                 |           | Page<br>6 / 22 | Revision |
| Checked by   |                 |           |                |          |
| Date         | 12/04/2022      |           |                |          |

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

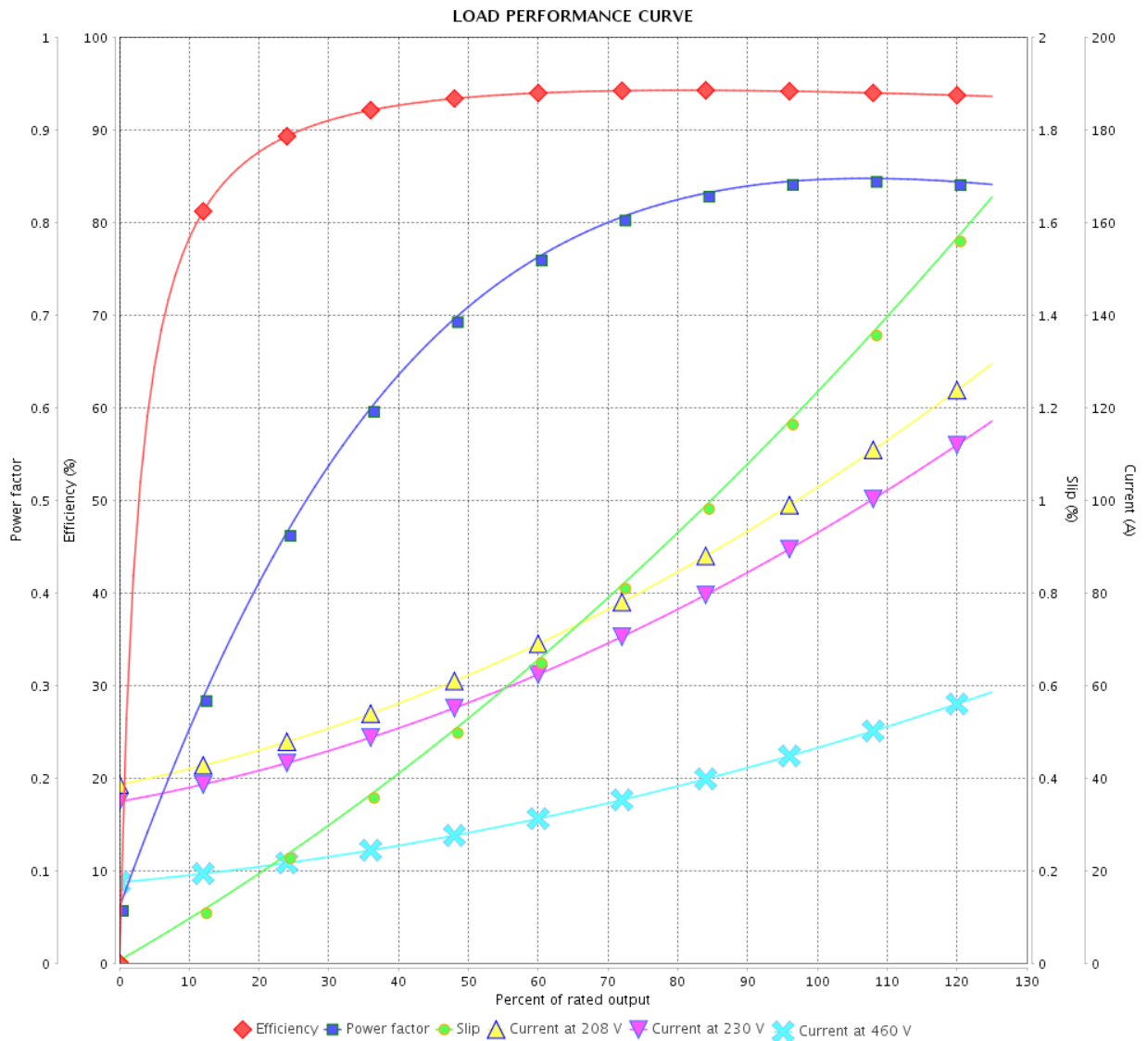


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T



Performance : 230/460 V 60 Hz 6P

Rated current : 94.2/47.1 A  
 LRC : 7.0  
 Rated torque : 177 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 229 %  
 Rated speed : 1185 rpm

Moment of inertia (J) : 29.0 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     |
|--------------|-----------------|------------|---------|----------|
|              |                 |            |         |          |
| Performed by |                 | Page       |         | Revision |
| Checked by   |                 | 7 / 22     |         |          |
| Date         |                 | 12/04/2022 |         |          |

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



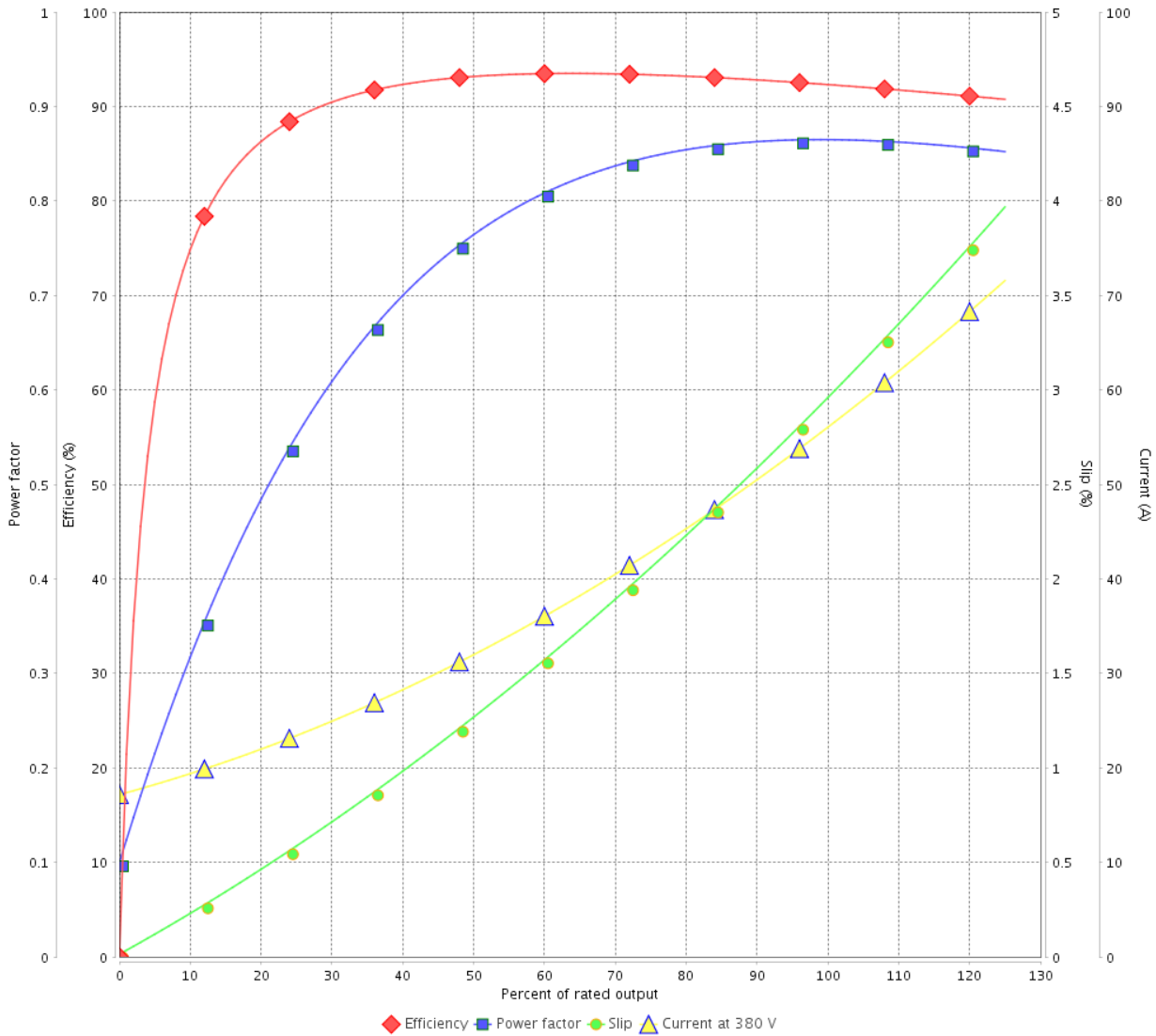
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T

LOAD PERFORMANCE CURVE



Performance : 380 V 50 Hz 6P IE2

Rated current : 56.7 A  
 LRC : 5.4  
 Rated torque : 217 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 180 %  
 Rated speed : 970 rpm

Moment of inertia (J) : 29.0 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 / 22    |         |          |
| Date         | 12/04/2022      |           |         |          |



# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

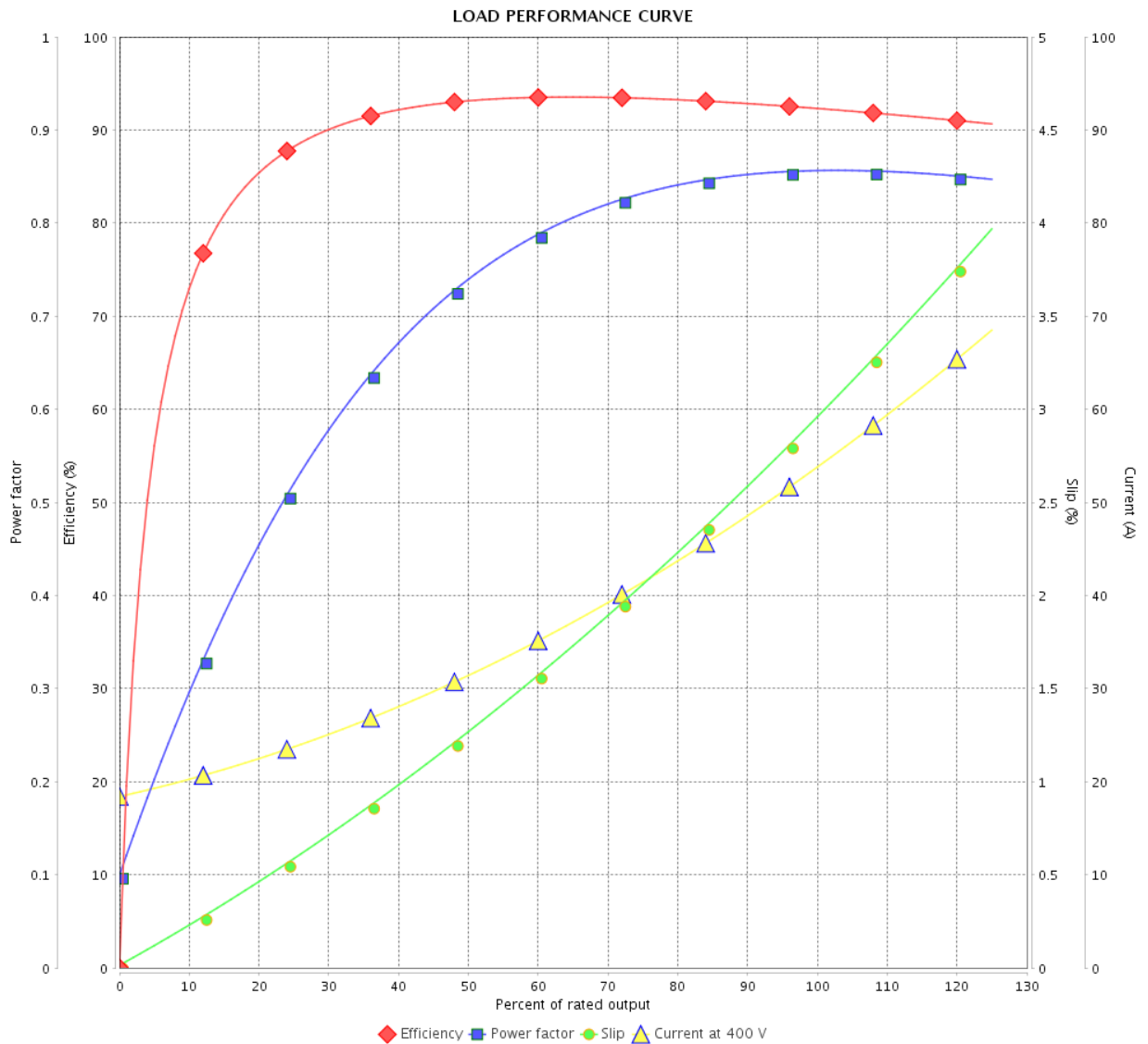


Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T



Performance : 400 V 50 Hz 6P IE2

Rated current : 54.5 A  
 LRC : 6.1  
 Rated torque : 217 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 200 %  
 Rated speed : 970 rpm

Moment of inertia (J) : 29.0 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 / 22     |         |          |
| Date         |                 | 12/04/2022 |         |          |

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

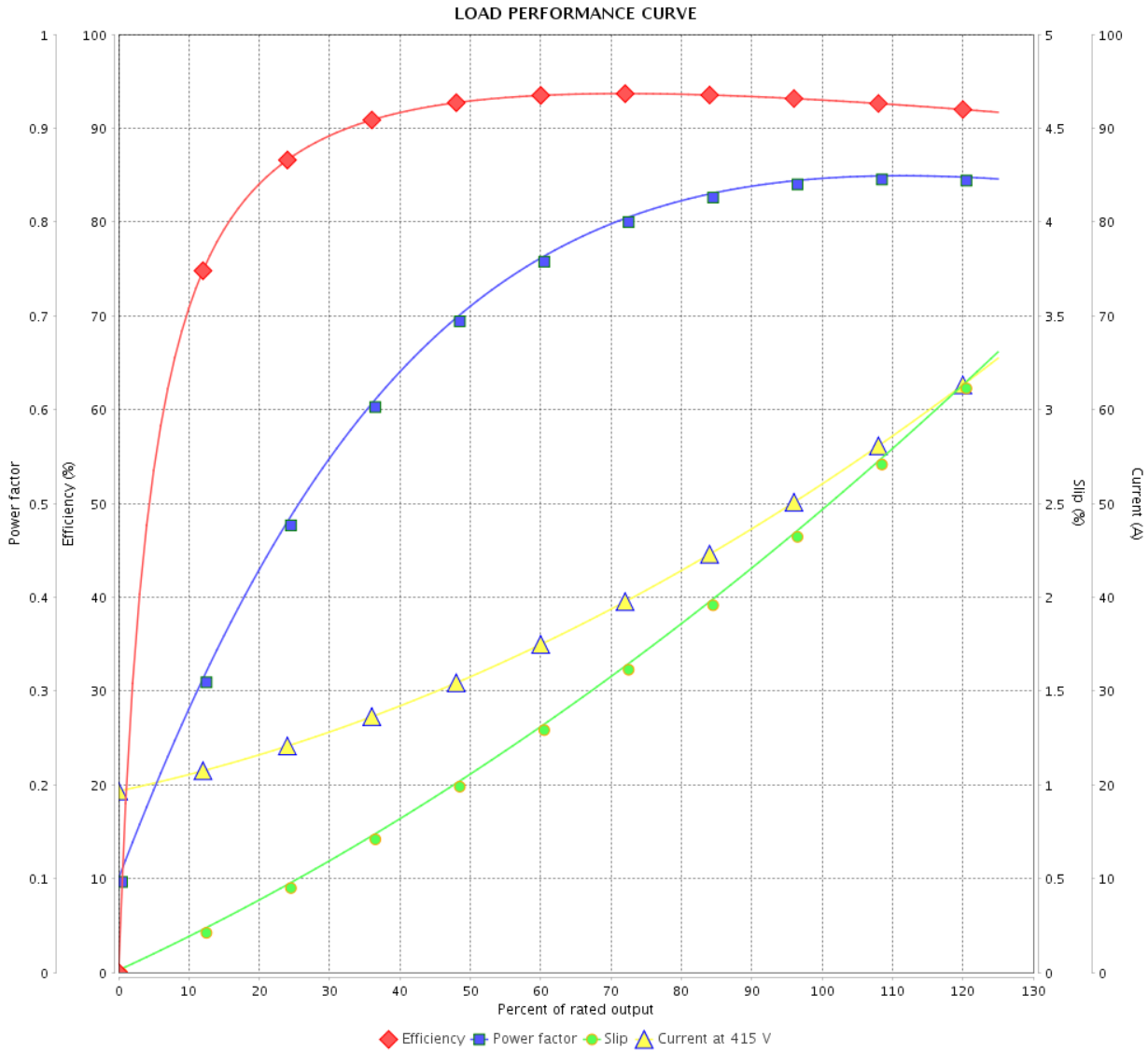


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T



Performance : 415 V 50 Hz 6P IE3

Rated current : 52.8 A  
 LRC : 6.6  
 Rated torque : 215 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 220 %  
 Rated speed : 975 rpm

Moment of inertia (J) : 29.0 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>10 / 22 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 11341752  
 Catalog # : 04012XT3E364T

Performance : 230/460 V 60 Hz 6P

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 94.2/47.1 A | Moment of inertia (J) : 29.0 sq.ft.lb |
| LRC : 7.0                   | Duty cycle : Cont.(S1)                |
| Rated torque : 177 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 229 % | Service factor : 1.15                 |
| Breakdown torque : 229 %    | Temperature rise : 80 K               |
| Rated speed : 1185 rpm      | Design : B                            |

Heating constant

Cooling constant

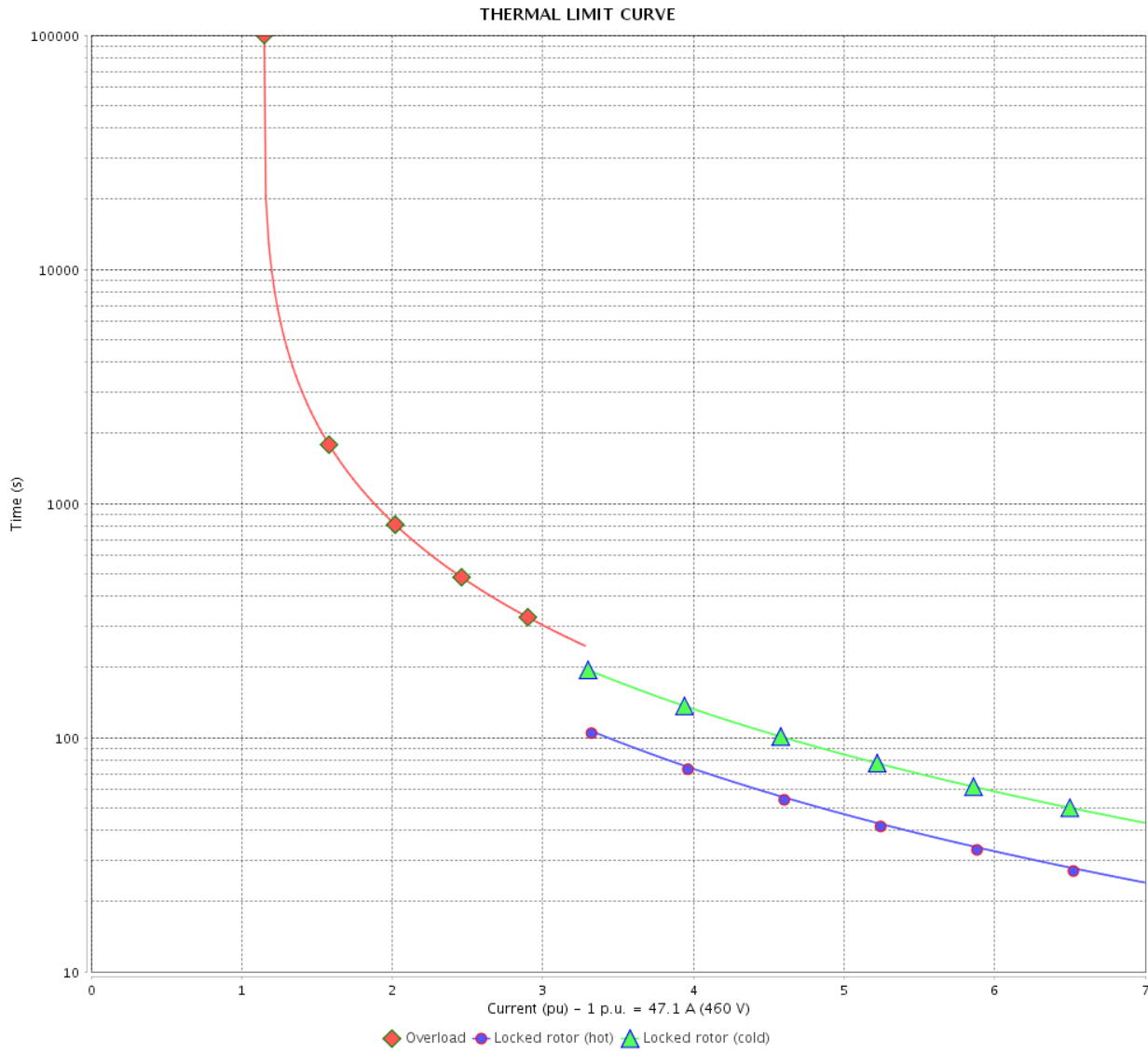
| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>11 / 22 | Revision |
| 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   |                 | 12 / 22    |         |          |
| Date         |                 | 12/04/2022 |         |          |

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 11341752  
 Catalog # : 04012XT3E364T

Performance : 380 V 50 Hz 6P IE2

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 56.7 A      | Moment of inertia (J) : 29.0 sq.ft.lb |
| LRC : 5.4                   | Duty cycle : Cont.(S1)                |
| Rated torque : 217 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 180 % | Service factor : 1.00                 |
| Breakdown torque : 180 %    | Temperature rise : 80 K               |
| Rated speed : 970 rpm       | Design : B                            |

Heating constant

Cooling constant

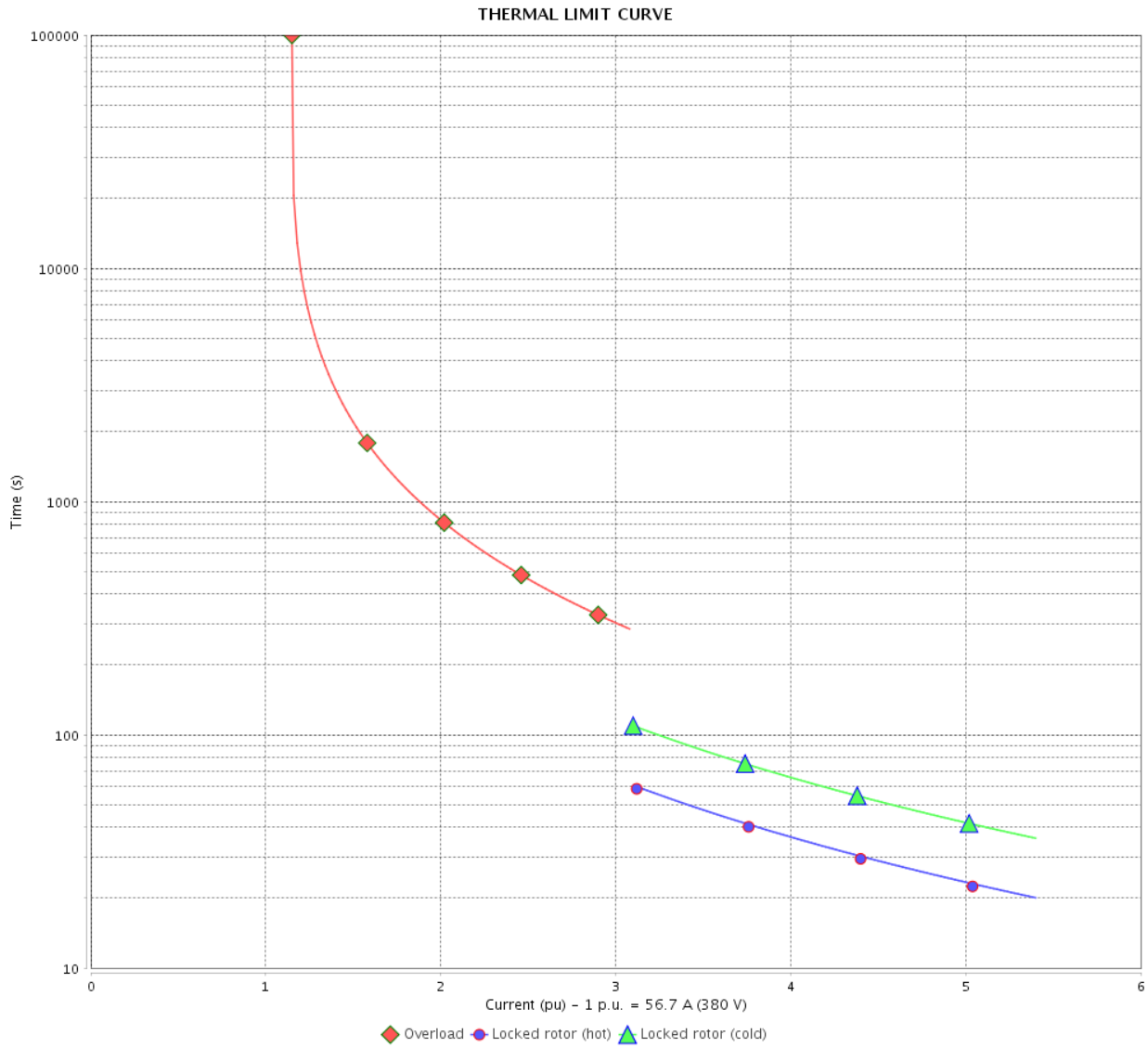
| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>13 / 22 | Revision |
| 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   |                 | 14 / 22    |         |          |
| Date         |                 | 12/04/2022 |         |          |

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 11341752  
 Catalog # : 04012XT3E364T

Performance : 400 V 50 Hz 6P IE2

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 54.5 A      | Moment of inertia (J) : 29.0 sq.ft.lb |
| LRC : 6.1                   | Duty cycle : Cont.(S1)                |
| Rated torque : 217 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 200 % | Service factor : 1.00                 |
| Breakdown torque : 200 %    | Temperature rise : 80 K               |
| Rated speed : 970 rpm       | Design : B                            |

Heating constant

Cooling constant

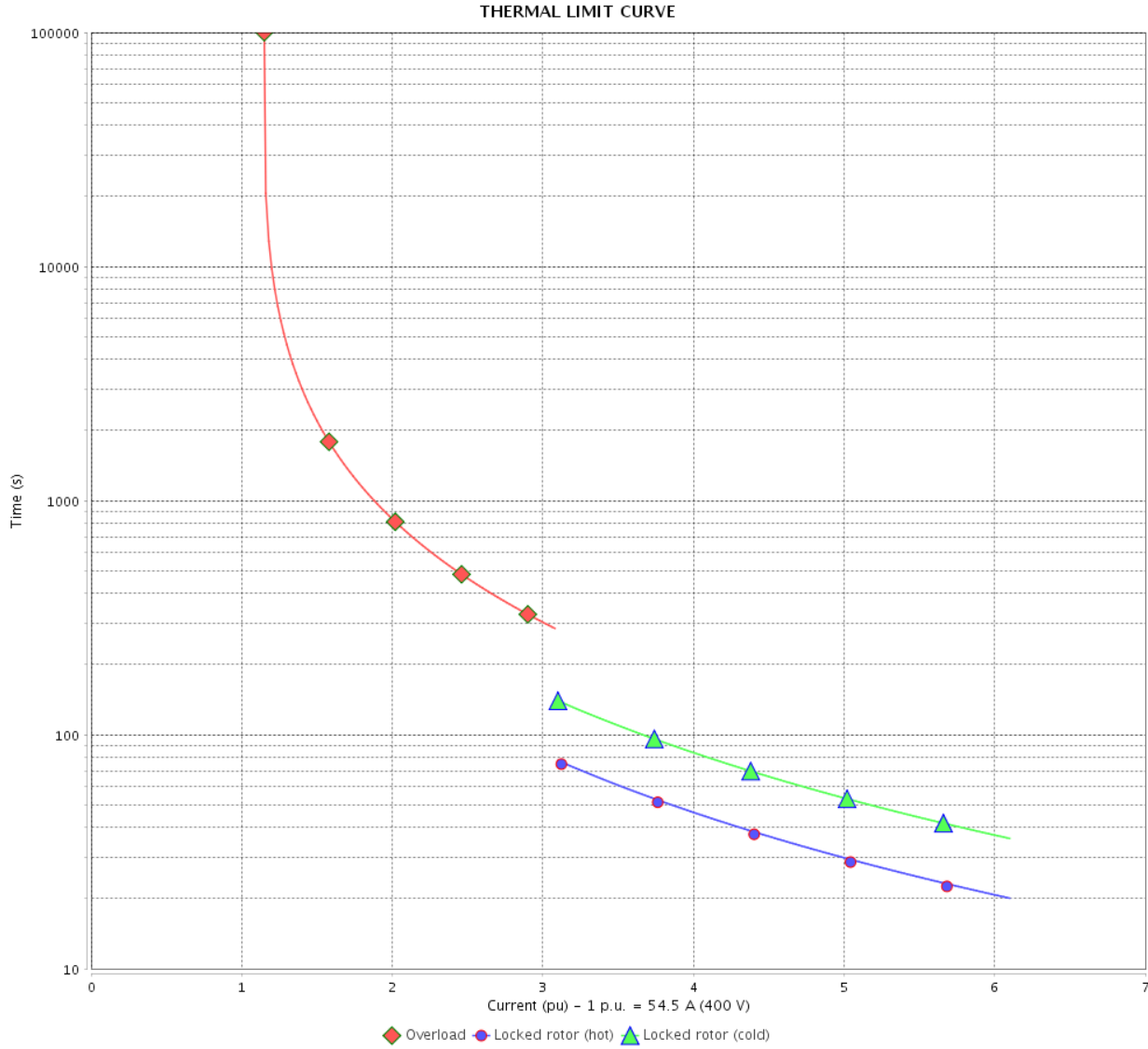
| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>15 / 22 | Revision |
| 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   |                 | 16 / 22    |         |          |
| Date         |                 | 12/04/2022 |         |          |



# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 11341752  
 Catalog # : 04012XT3E364T

Performance : 415 V 50 Hz 6P IE3

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 52.8 A      | Moment of inertia (J) : 29.0 sq.ft.lb |
| LRC : 6.6                   | Duty cycle : Cont.(S1)                |
| Rated torque : 215 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 220 % | Service factor : 1.00                 |
| Breakdown torque : 220 %    | Temperature rise : 80 K               |
| Rated speed : 975 rpm       | Design : B                            |

Heating constant

Cooling constant

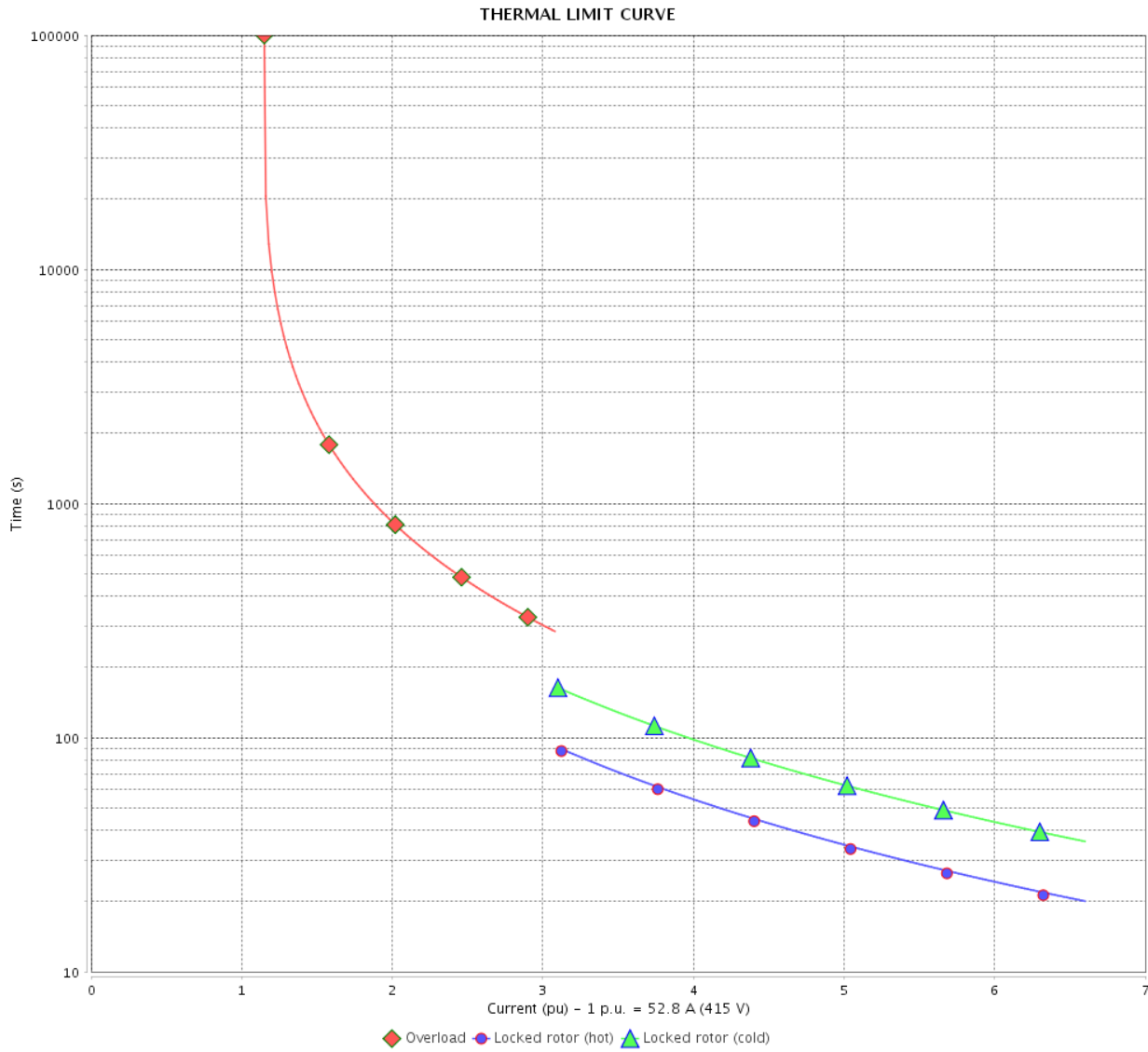
| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>17 / 22 | Revision |
| 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   |                 | 18 / 22    |         |          |
| Date         |                 | 12/04/2022 |         |          |

# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

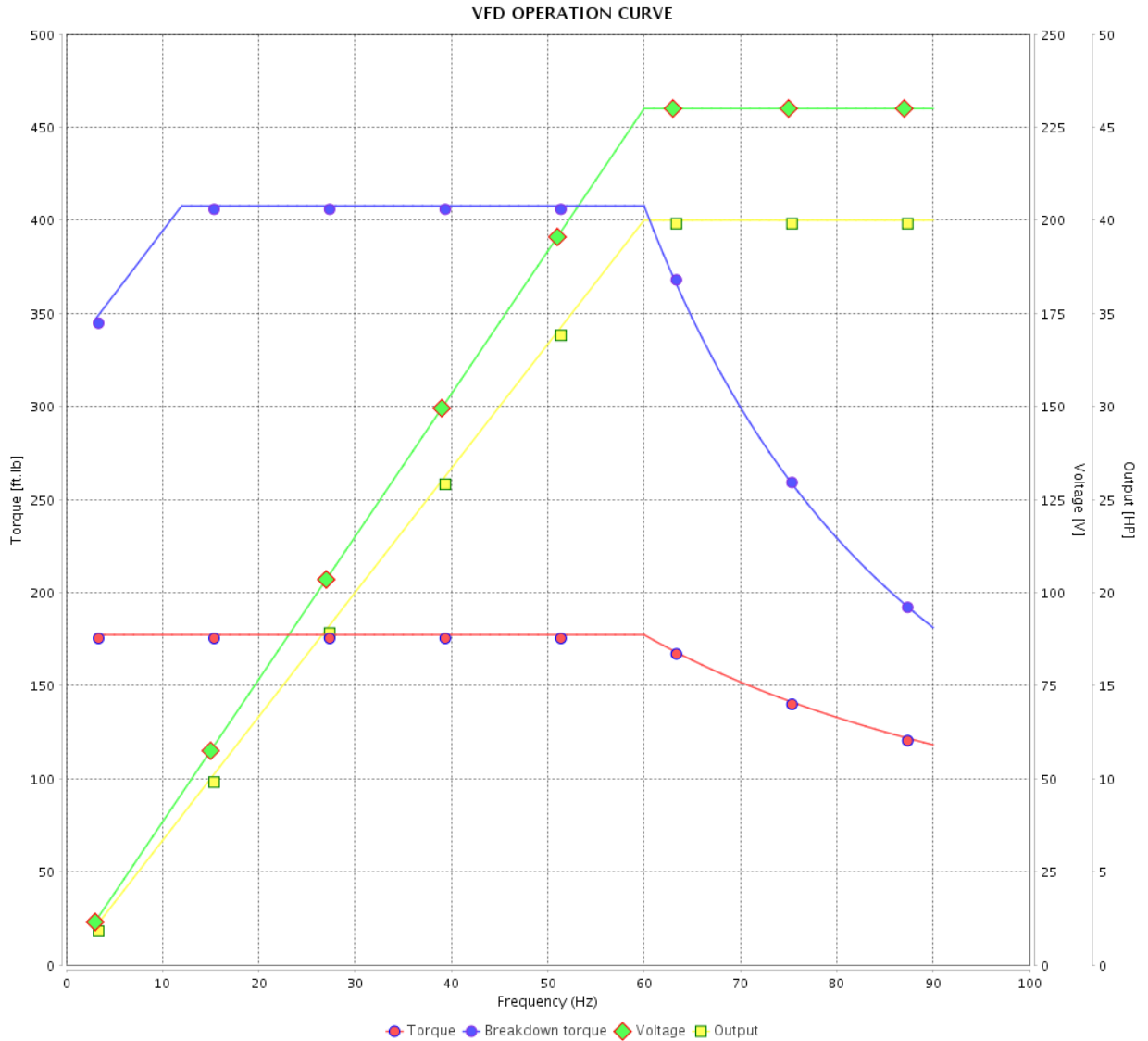


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T



Performance : 230/460 V 60 Hz 6P

Rated current : 94.2/47.1 A  
 LRC : 7.0  
 Rated torque : 177 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 229 %  
 Rated speed : 1185 rpm

Moment of inertia (J) : 29.0 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     |
|--------------|-----------------|------------|---------|----------|
|              |                 |            |         |          |
| Performed by |                 | Page       |         | Revision |
| Checked by   |                 | 19 / 22    |         |          |
| Date         |                 | 12/04/2022 |         |          |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



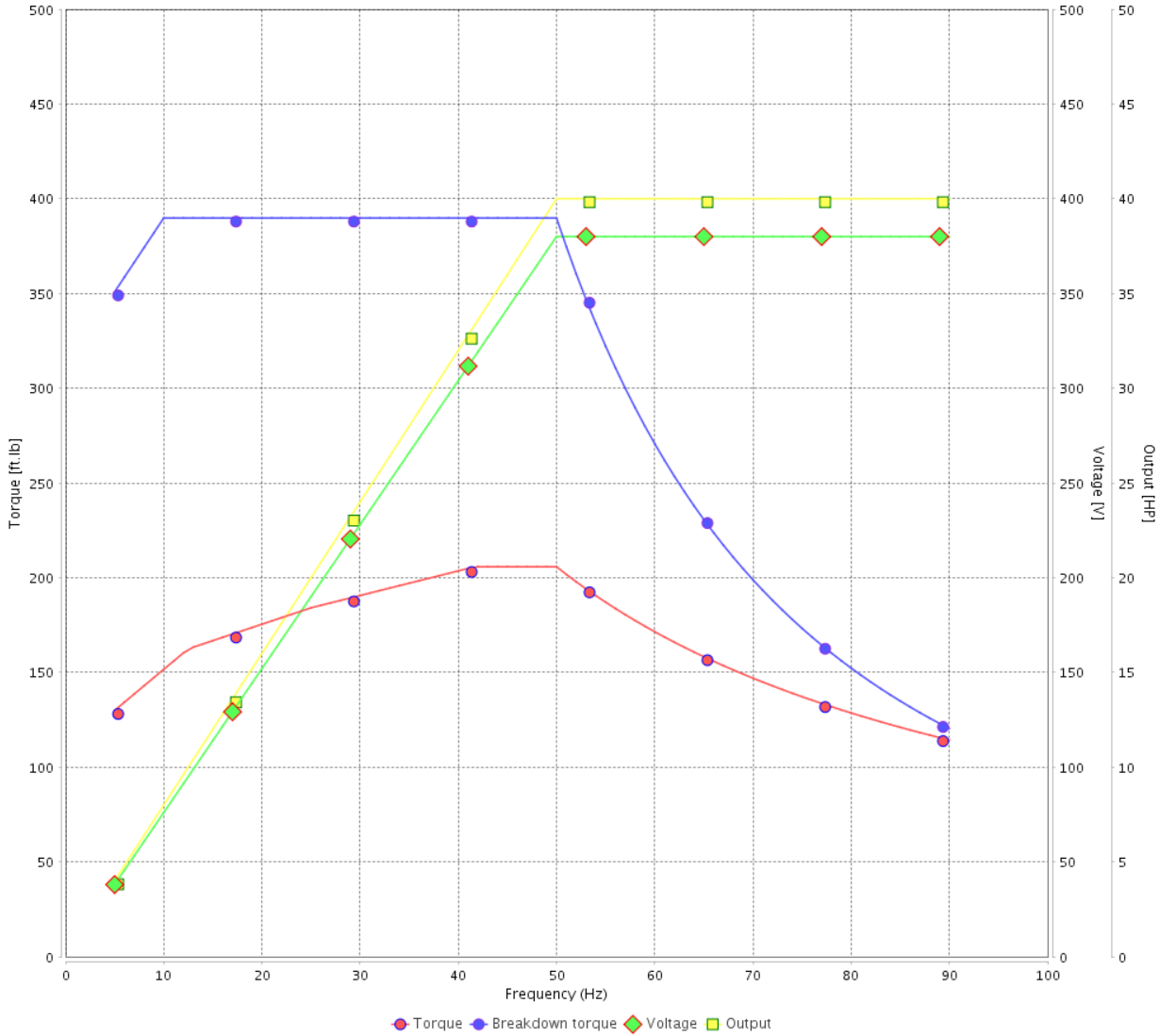
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T

VFD OPERATION CURVE



Performance : 380 V 50 Hz 6P IE2

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 56.7 A    | Moment of inertia (J) | : 29.0 sq.ft.lb |
| LRC                 | : 5.4       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 217 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 180 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 180 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 970 rpm   | Design                | : B             |

| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>20 / 22 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |

# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

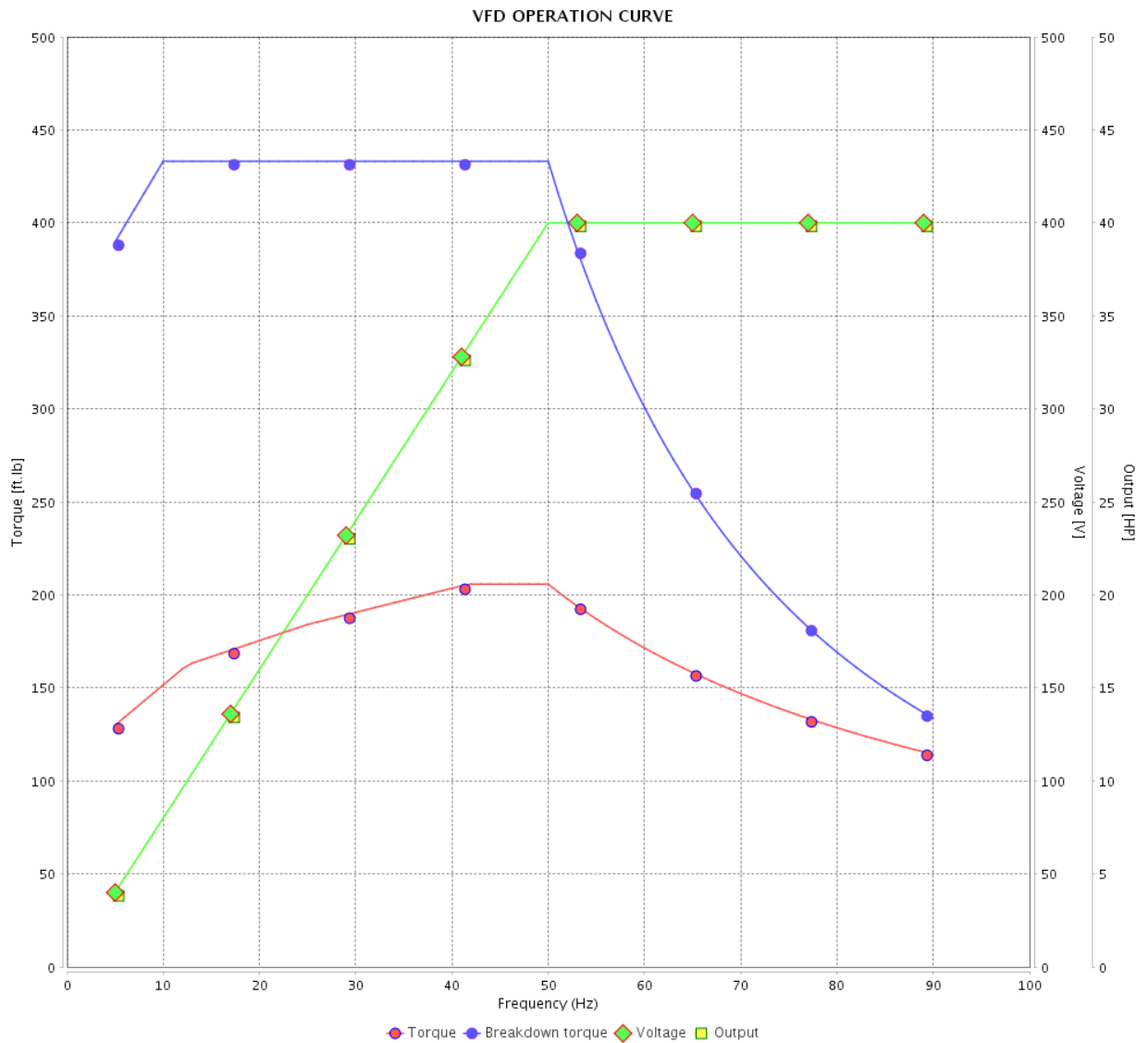


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T



Performance : 400 V 50 Hz 6P IE2

Rated current : 54.5 A  
 LRC : 6.1  
 Rated torque : 217 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 200 %  
 Rated speed : 970 rpm

Moment of inertia (J) : 29.0 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 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

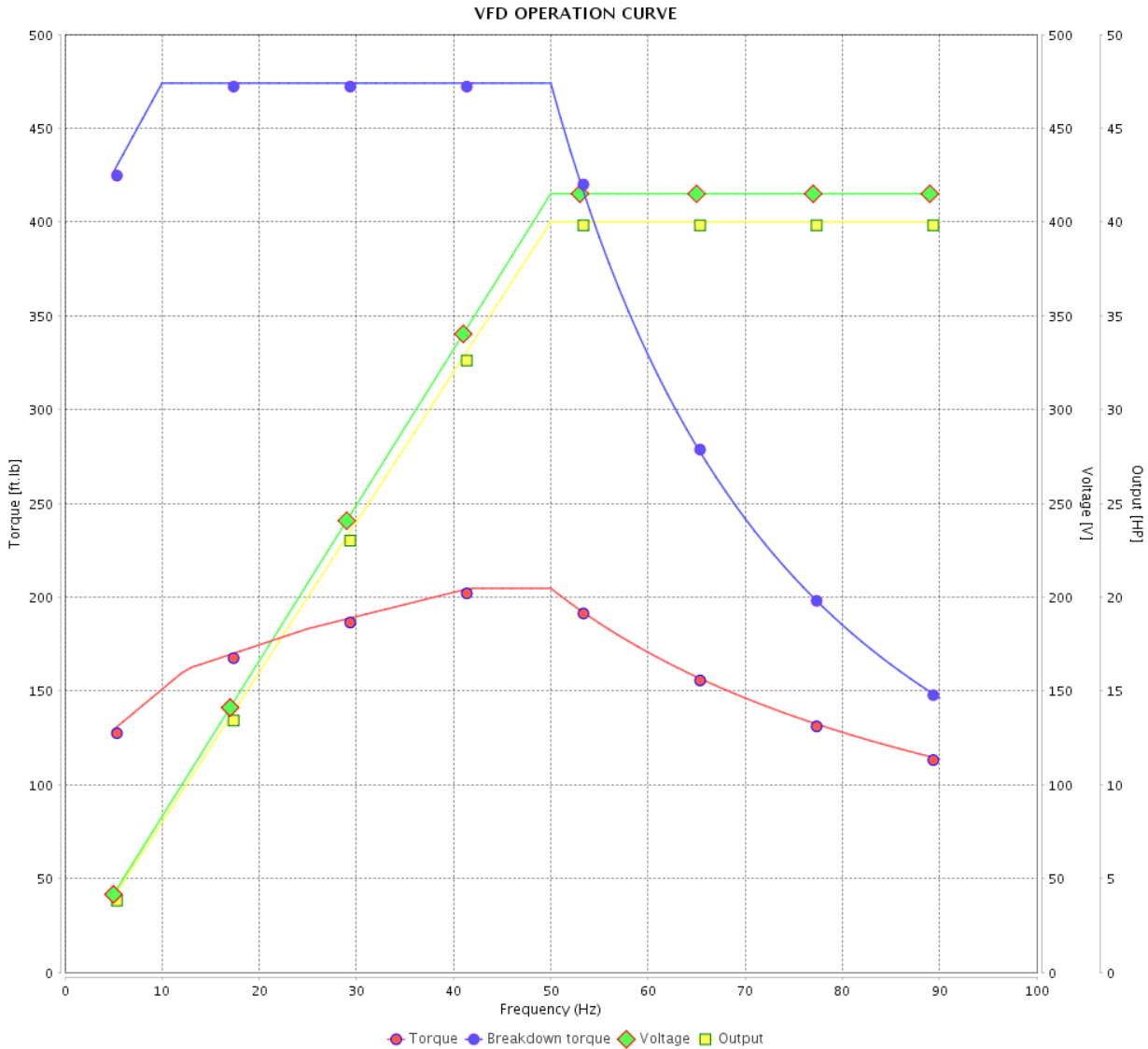


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11341752

Catalog # : 04012XT3E364T

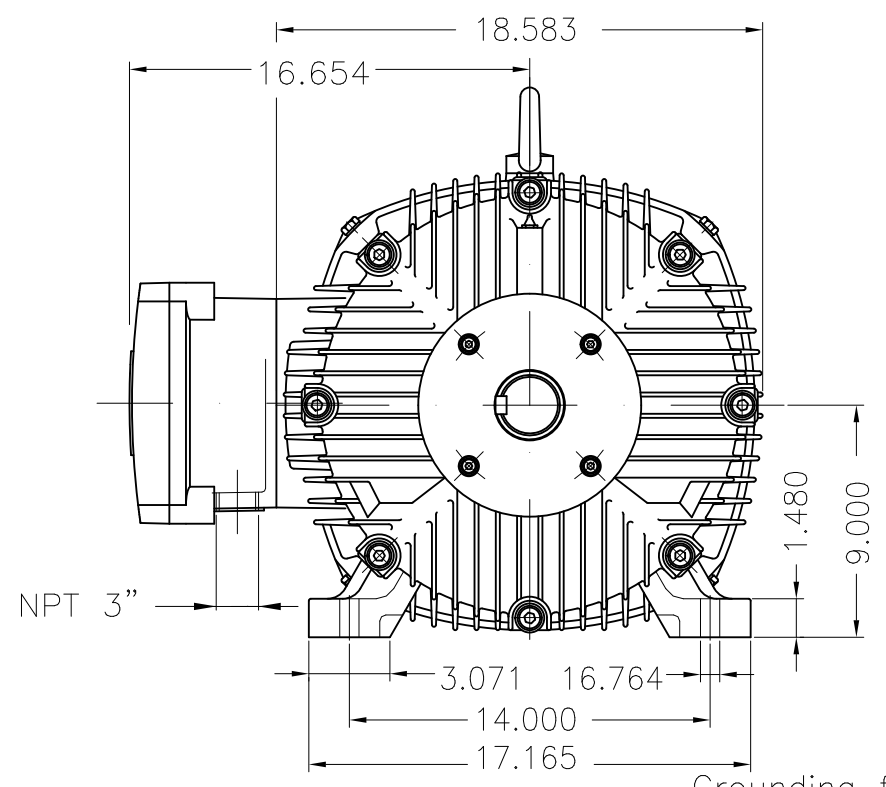


Performance : 415 V 50 Hz 6P IE3

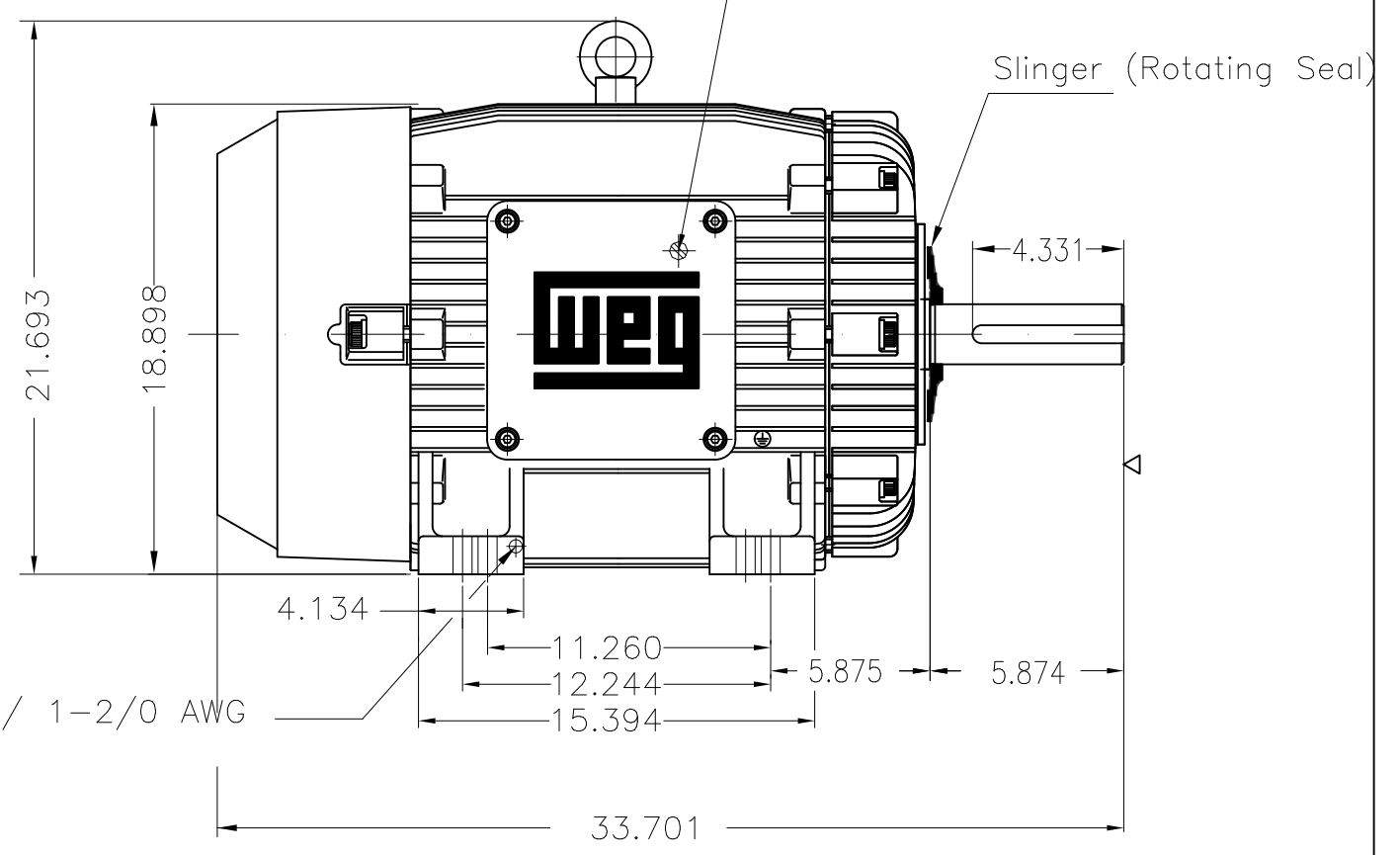
Rated current : 52.8 A  
 LRC : 6.6  
 Rated torque : 215 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 220 %  
 Rated speed : 975 rpm

Moment of inertia (J) : 29.0 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>22 / 22 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 12/04/2022      |           |                 |          |



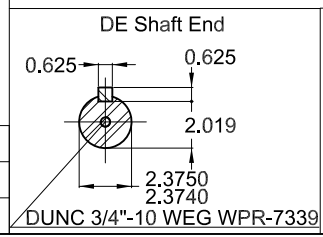
Grounding for leads 25-50 mm<sup>2</sup> / 3-1 AWG



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

40 HP 06 Poles 60 Hz A

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

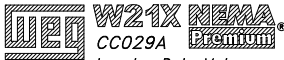


| ECM      | LOC       | SUMMARY OF MODIFICATIONS                   | EXECUTED            | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR EXPLOSION PROOF PREM. EFF. |                     |         |          |      |     |
| CHECKED  |           | FRAME 364/5T IP55 TEFC                     |                     |         |          |      |     |
| RELEASED |           |  |                     |         |          |      |     |
| REL DT.  | WMO       | Jaragua do Sul                             | Product Engineering |         |          |      |     |

PREVIEW  
 WDD



SHEET 1 / 1



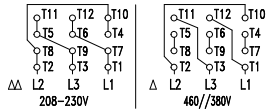
**W21X NEMA**  
**CC029A Premium**  
*Inverter Duty Motor*  
*Severe Duty*



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 04012XT3E364T  
 MADE IN BRAZIL  
 11341752

|                      |   |                            |          |
|----------------------|---|----------------------------|----------|
| PH 3                 | FR 364/5T   | HP(kW) 40.0(30.0)          | Hz 60    |
| V 230/460            |   | A 94.2/47.1                | RPM 1185 |
| NEMA NOM. EFF. 94.1% |   | INS CL F $\Delta$ T 80 K   | IP55     |
| PF 0.85              | DUTY CONT.  |                            | CODE H   |
| ENCL. TEFC           | SF 1.15   | SFA 108/54.2               |          |
| AMB 40°C             | DES B   | USABLE @208V 104 A SF 1.00 |          |
| AMB 55°C SF1.0       | -bearings lub interval reduced by a factor of 50% |                            |          |



→ 6314-C3(27g) MOBIL POLYREX EM  
 → 6314-C3(27g) 14267 h  
 ALT 1000 m.a.s.l **974** Lbs

40HP 30kW 50Hz 380V 56.7A 970RPM SF1.00 EFF 92.4% (IE2)