

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |   |                             |  |                      |          |
|--|---|-----------------------------|--|----------------------|----------|
| Customer :   |   |                             |  |                      |          |
| Product line   | : NEMA Premium Efficiency Three-Phase                   | Product code :              | 11975508   |                      |          |
|  |   | Catalog # :                 | 20018ET3G447TC-W22   |                      |          |
| Frame  | : 445/7TC   | 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> | : 2333 lb  |                      |          |
| Protection degree  | : IP55  | Moment of inertia (J)       | : 76.2 sq.ft.lb  |                      |          |
| Design   | : B   |                             |  |                      |          |
| Output [HP]  | 200   | 200                         | 200  | 200                  |          |
| Poles  | 4   | 4                           | 4  | 4                    |          |
| Frequency [Hz]   | 60  | 50                          | 50   | 50                   |          |
| Rated voltage [V]  | 460   | 380                         | 400  | 415                  |          |
| Rated current [A]  | 230   | 279                         | 264  | 257                  |          |
| L. R. Amperes [A]  | 1564  | 1423                        | 1478   | 1568                 |          |
| LRC [A]  | 6.8x(Code G)  | 5.1x(Code E)                | 5.6x(Code F)   | 6.1x(Code G)         |          |
| No load current [A]  | 70.0  | 69.0                        | 75.0   | 79.0                 |          |
| Rated speed [RPM]  | 1785  | 1475                        | 1480   | 1480                 |          |
| Slip [%]   | 0.83  | 1.67                        | 1.33   | 1.33                 |          |
| Rated torque [ft.lb]   | 588   | 712                         | 710  | 710                  |          |
| Locked rotor torque [%]  | 229   | 170                         | 190  | 210                  |          |
| Breakdown torque [%]   | 250   | 200                         | 220  | 240                  |          |
| Service factor   | 1.15  | 1.00                        | 1.00   | 1.00                 |          |
| Temperature rise   | 80 K  | 105 K                       | 105 K  | 105 K                |          |
| Locked rotor time  | 28s (cold) 16s (hot)                                    | 18s (cold) 10s (hot)        | 18s (cold) 10s (hot)   | 18s (cold) 10s (hot) |          |
| Noise level <sup>2</sup>   | 73.0 dB(A)  |                             |  |                      |          |
| Efficiency (%)   | 25%   | 95.7                        | 94.3   | 94.9                 | 94.9     |
|  | 50%   | 95.8                        | 94.5   | 95.0                 | 95.0     |
|  | 75%   | 96.2                        | 95.0   | 95.4                 | 95.4     |
|  | 100%  | 96.2                        | 95.0   | 95.4                 | 95.4     |
| Power Factor   | 25%   | 0.50                        | 0.56   | 0.53                 | 0.50     |
|  | 50%   | 0.73                        | 0.78   | 0.76                 | 0.73     |
|  | 75%   | 0.82                        | 0.85   | 0.84                 | 0.82     |
|  | 100%  | 0.85                        | 0.86   | 0.86                 | 0.85     |
| Bearing type   | : <u>Drive end</u> 6319 C3 <u>Non drive end</u> 6316 C3 | Foundation loads            |  |                      |          |
| Sealing  | : WSeal WSeal   | Max. traction               | : 3373 lb  |                      |          |
| Lubrication interval   | : 8000 h 10000 h  | Max. compression            | : 5707 lb  |                      |          |
| Lubricant amount   | : 45 g 34 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   | 14/04/2022  |                             |  | 1 / 21               |          |

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



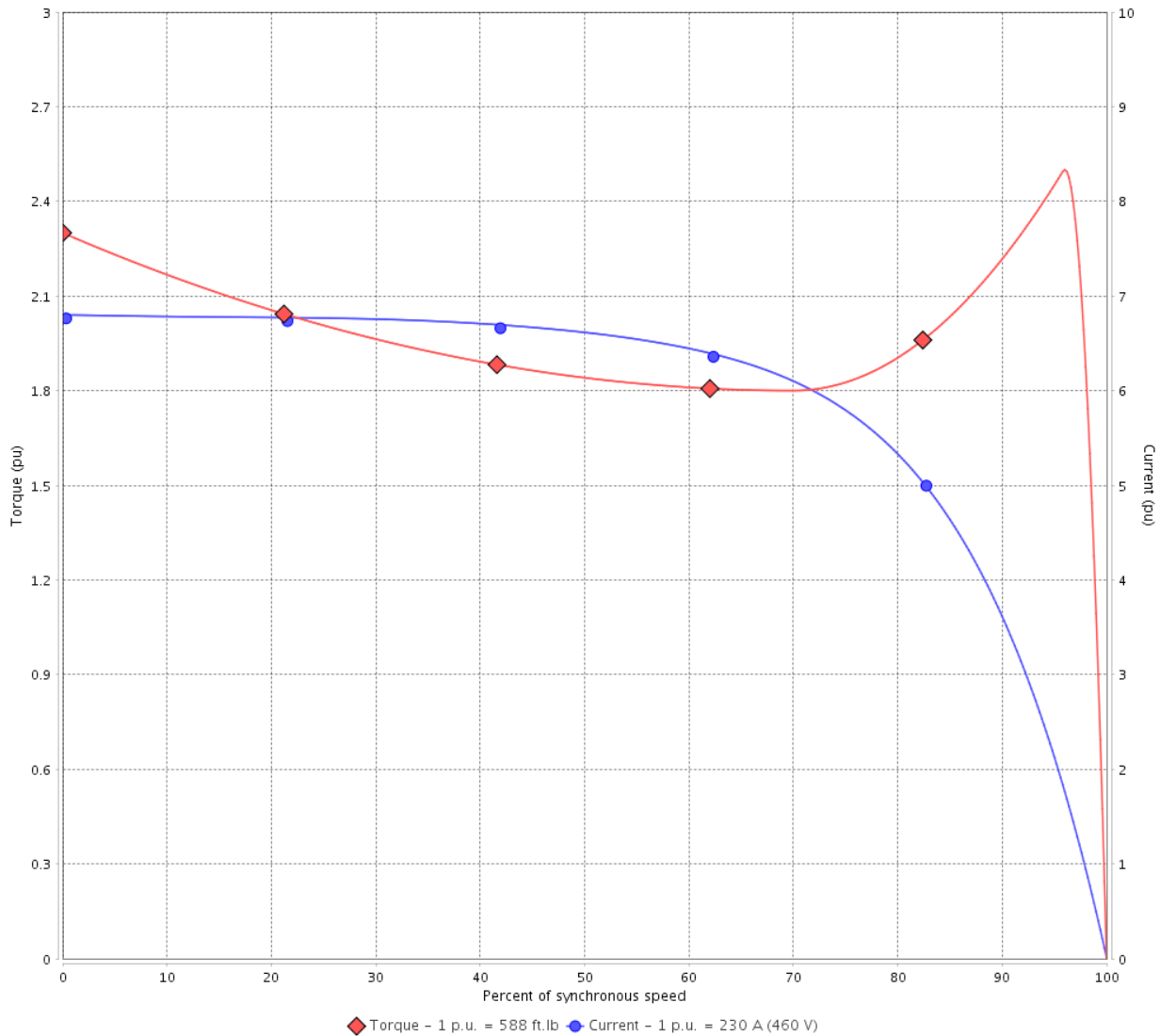
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11975508

Catalog # : 20018ET3G447TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 4P

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 230 A     | Moment of inertia (J) | : 76.2 sq.ft.lb |
| LRC                 | : 6.8       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 588 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 229 %     | Service factor        | : 1.15          |
| Breakdown torque    | : 250 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 1785 rpm  | Design                | : B             |

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

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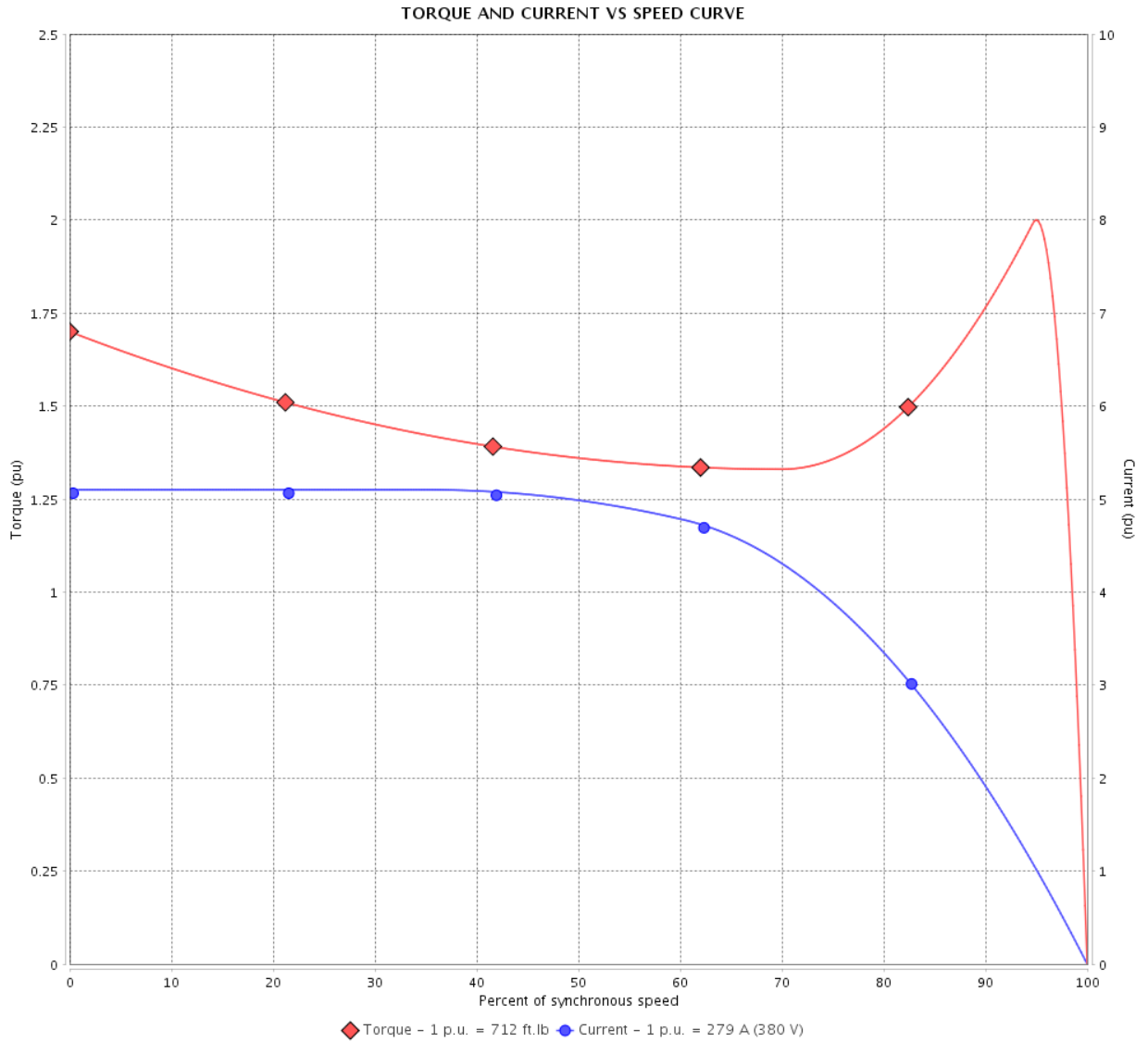
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Customer :

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Product code : 11975508

Catalog # : 20018ET3G447TC-W22



Performance : 380 V 50 Hz 4P IE2

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 279 A     | Moment of inertia (J) | : 76.2 sq.ft.lb |
| LRC                 | : 5.1       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 712 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 170 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 200 %     | Temperature rise      | : 105 K         |
| Rated speed         | : 1475 rpm  | Design                | : B             |

Locked rotor time : 18s (cold) 10s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



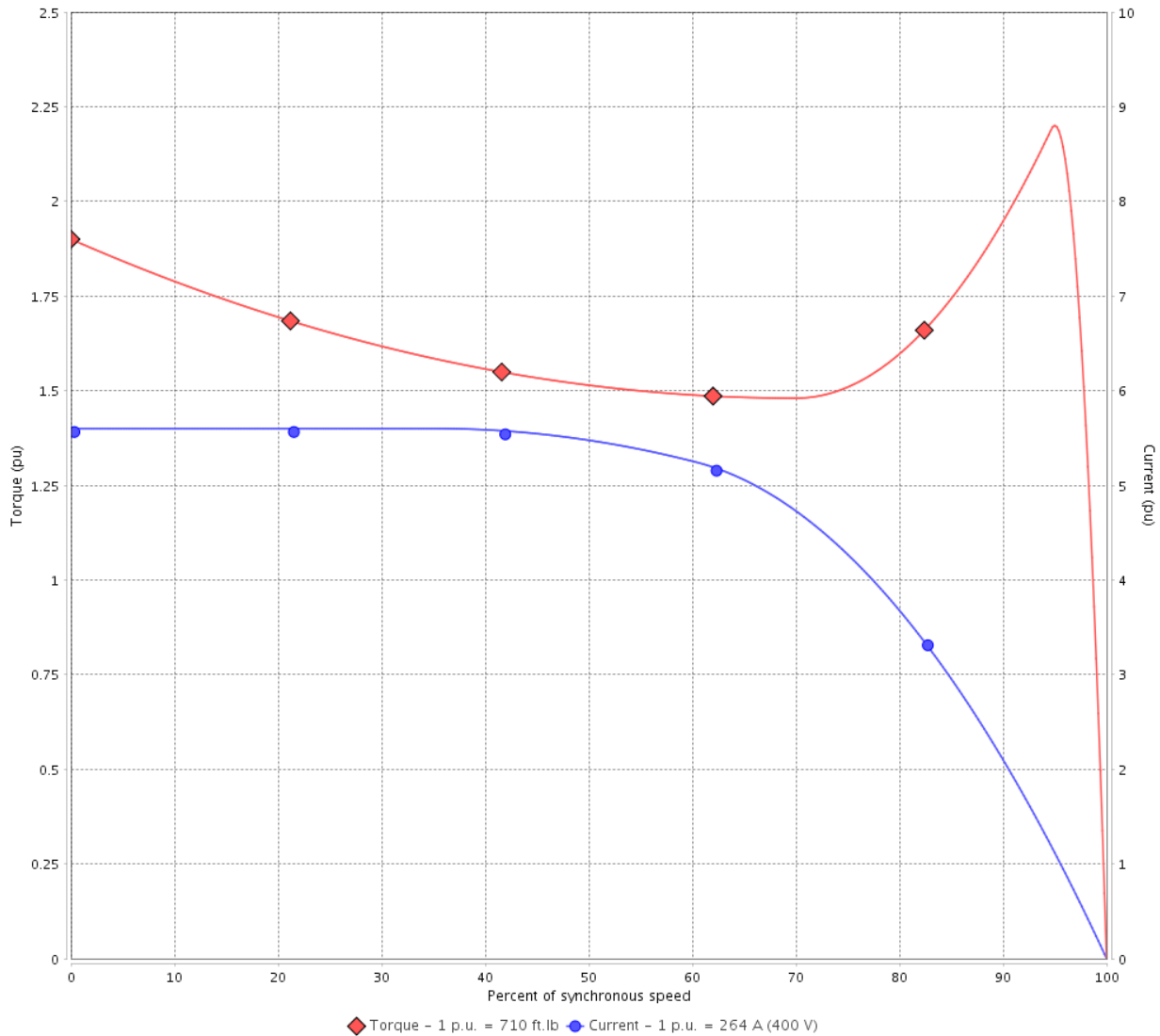
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11975508

Catalog # : 20018ET3G447TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE2

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 264 A     | Moment of inertia (J) | : 76.2 sq.ft.lb |
| LRC                 | : 5.6       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 710 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 190 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 220 %     | Temperature rise      | : 105 K         |
| Rated speed         | : 1480 rpm  | Design                | : B             |

Locked rotor time : 18s (cold) 10s (hot)

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



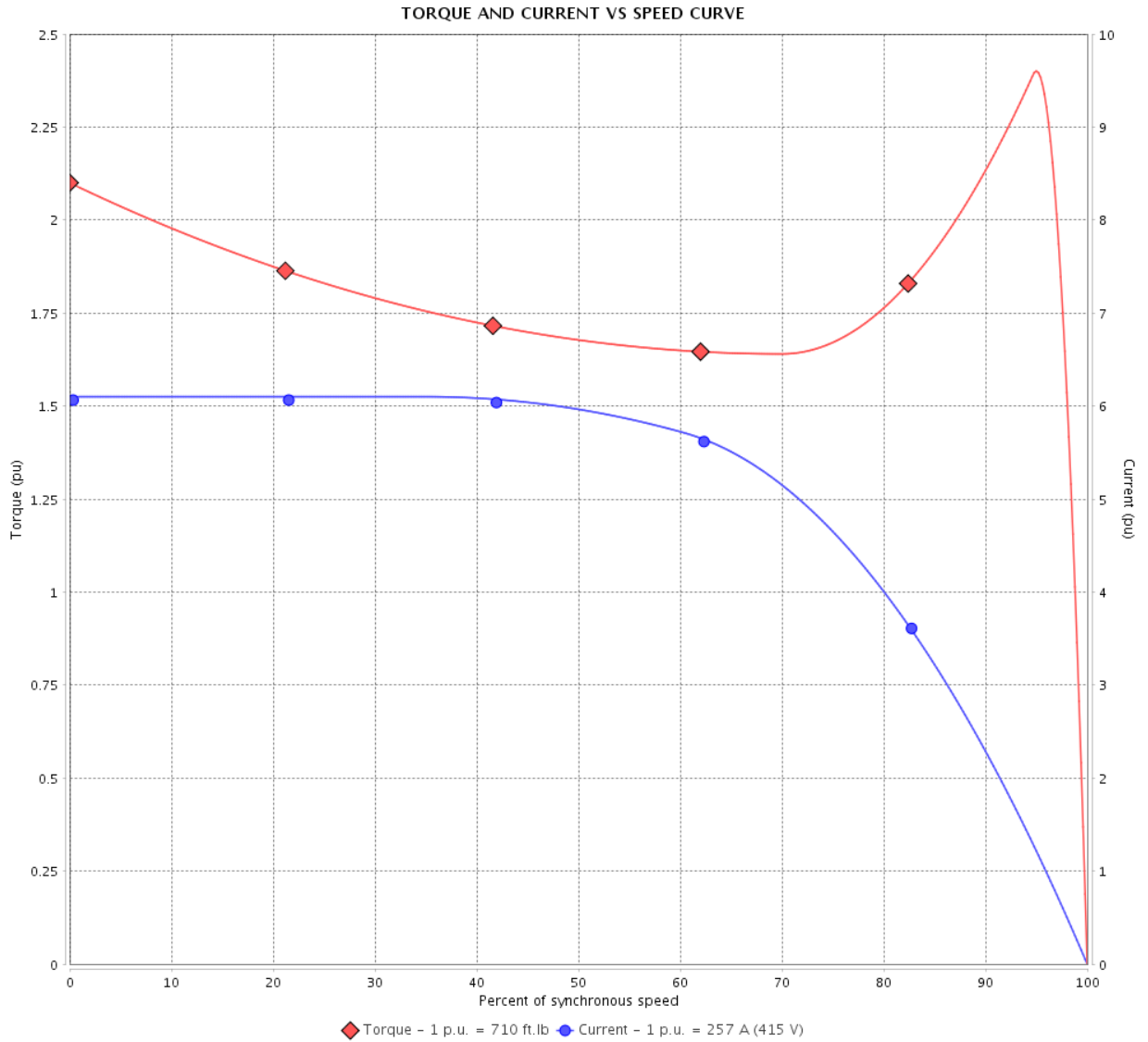
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Product code : 11975508

Catalog # : 20018ET3G447TC-W22



Performance : 415 V 50 Hz 4P IE2

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 257 A     | Moment of inertia (J) | : 76.2 sq.ft.lb |
| LRC                 | : 6.1       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 710 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 210 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 240 %     | Temperature rise      | : 105 K         |
| Rated speed         | : 1480 rpm  | Design                | : B             |

Locked rotor time : 18s (cold) 10s (hot)

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

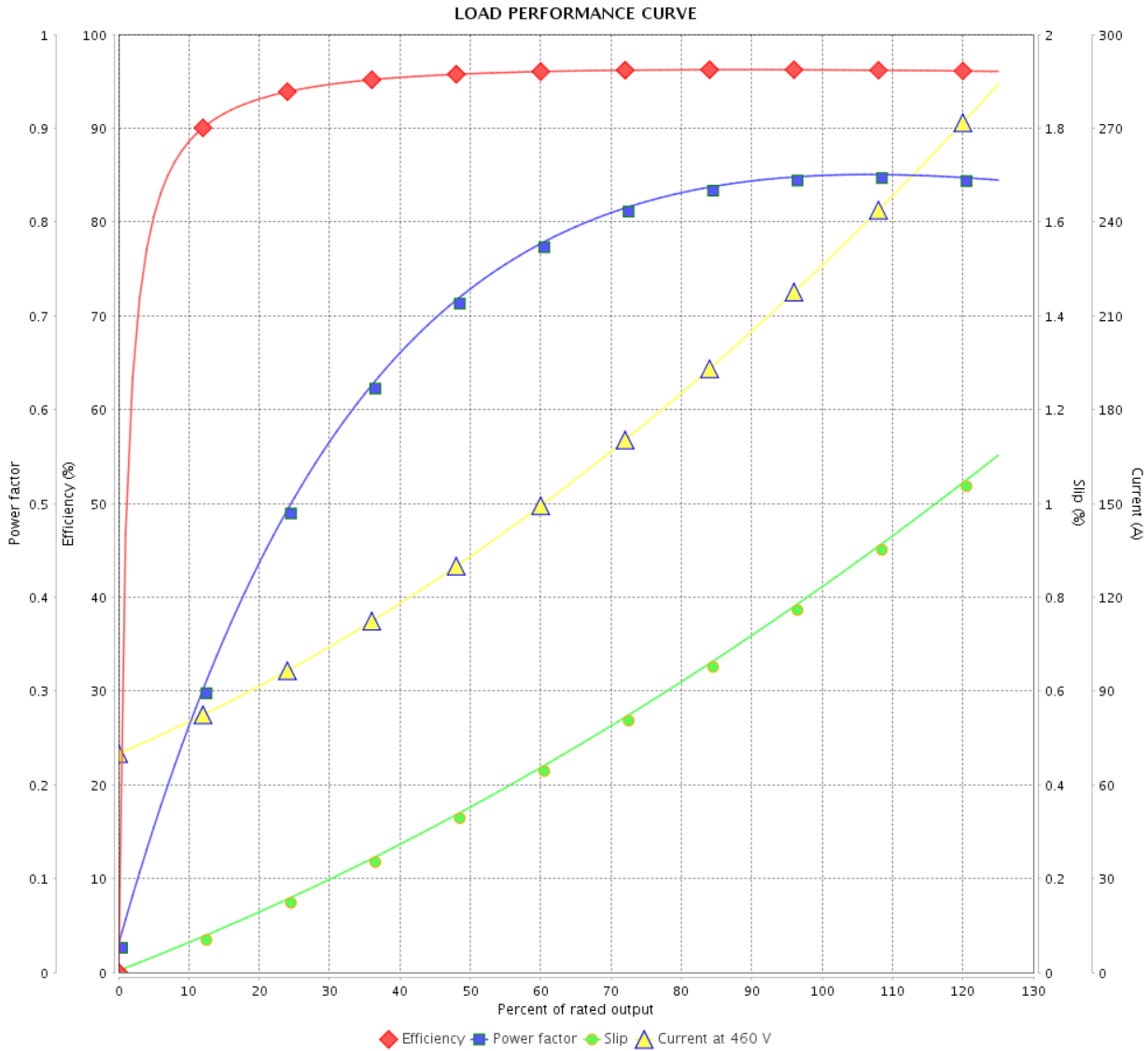


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11975508

Catalog # : 20018ET3G447TC-W22



Performance : 460 V 60 Hz 4P

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 230 A     | Moment of inertia (J) | : 76.2 sq.ft.lb |
| LRC                 | : 6.8       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 588 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 229 %     | Service factor        | : 1.15          |
| Breakdown torque    | : 250 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 1785 rpm  | Design                | : B             |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

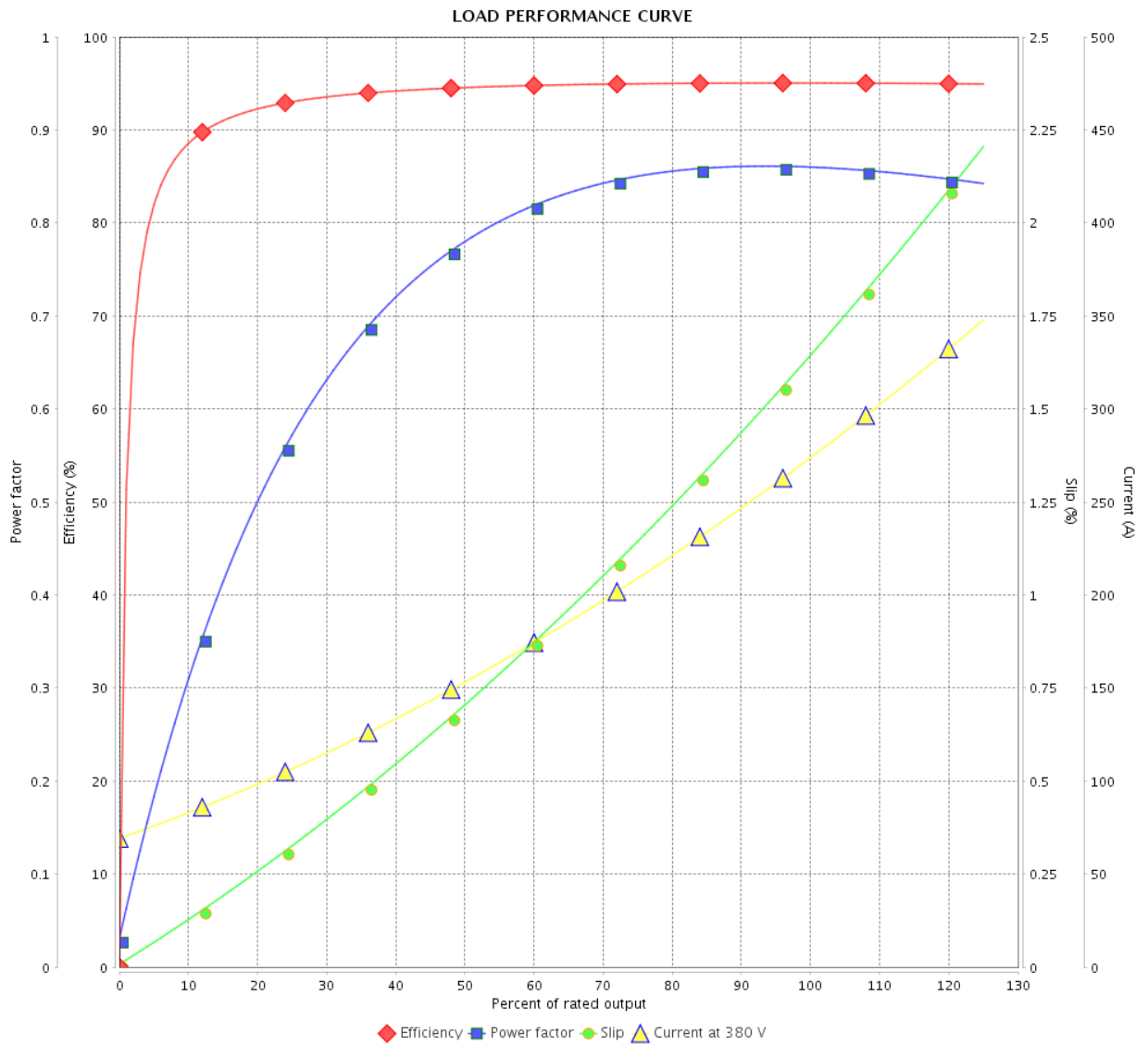


Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11975508

Catalog # : 20018ET3G447TC-W22



Performance : 380 V 50 Hz 4P IE2

Rated current : 279 A  
 LRC : 5.1  
 Rated torque : 712 ft.lb  
 Locked rotor torque : 170 %  
 Breakdown torque : 200 %  
 Rated speed : 1475 rpm

Moment of inertia (J) : 76.2 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

| Rev.         | Changes Summary | Performed | Checked | Date     |
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Three Phase Induction Motor - Squirrel Cage

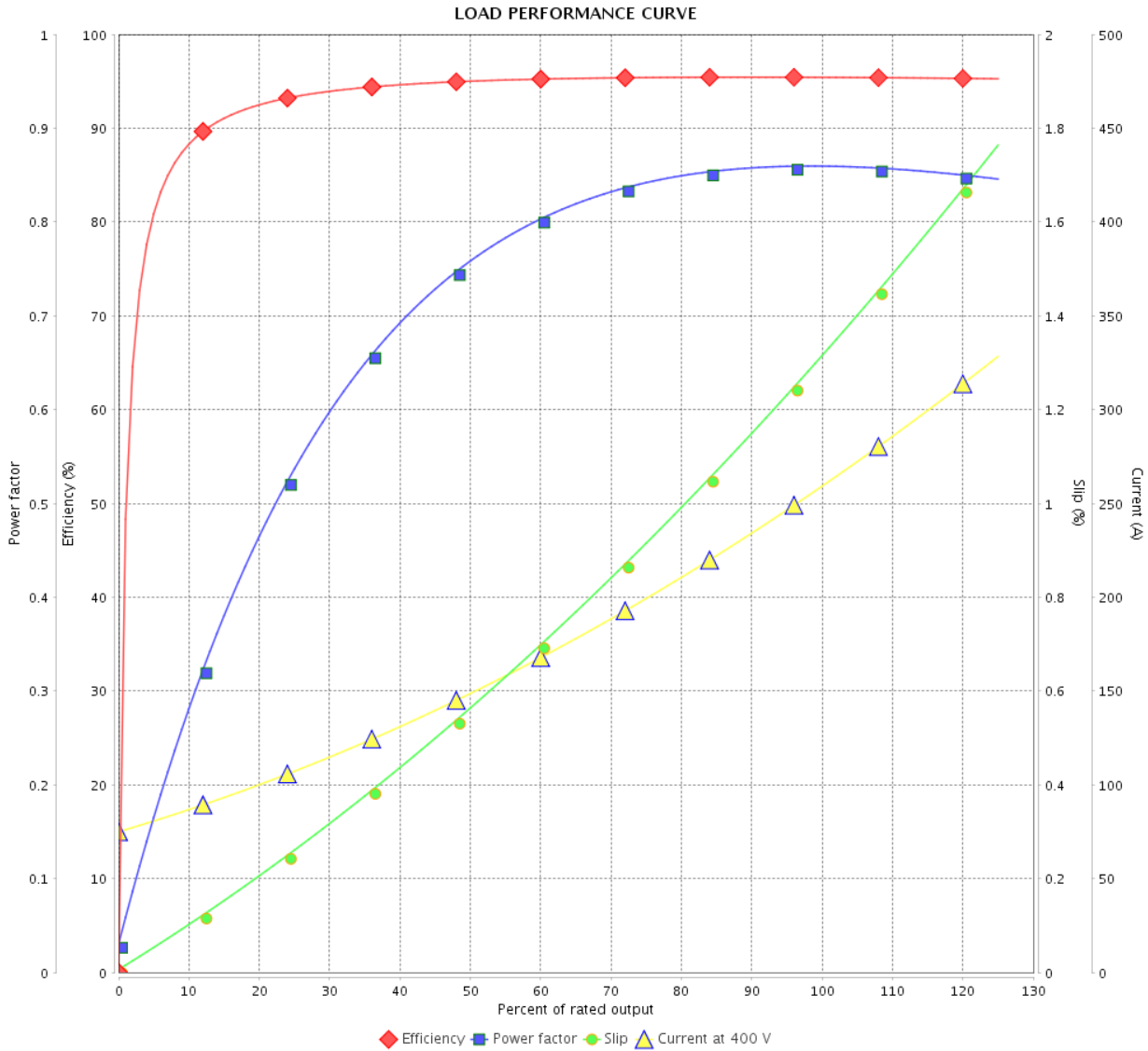


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11975508

Catalog # : 20018ET3G447TC-W22



Performance : 400 V 50 Hz 4P IE2

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 264 A     | Moment of inertia (J) | : 76.2 sq.ft.lb |
| LRC                 | : 5.6       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 710 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 190 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 220 %     | Temperature rise      | : 105 K         |
| Rated speed         | : 1480 rpm  | Design                | : B             |

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# LOAD PERFORMANCE CURVE

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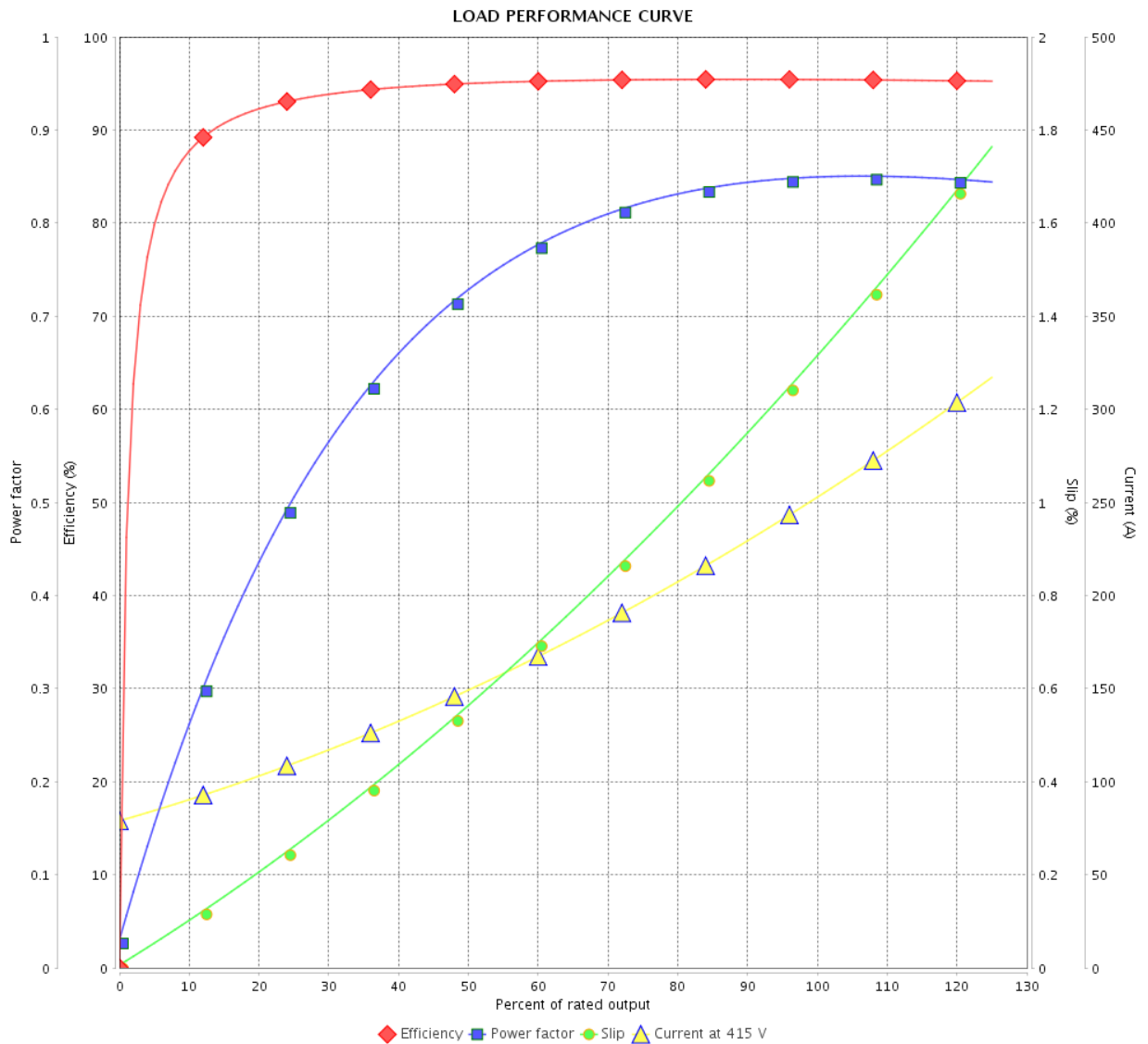


Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11975508

Catalog # : 20018ET3G447TC-W22



Performance : 415 V 50 Hz 4P IE2

Rated current : 257 A  
 LRC : 6.1  
 Rated torque : 710 ft.lb  
 Locked rotor torque : 210 %  
 Breakdown torque : 240 %  
 Rated speed : 1480 rpm

Moment of inertia (J) : 76.2 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 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 : 11975508  
 Catalog # : 20018ET3G447TC-W22

Performance : 460 V 60 Hz 4P

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 230 A       | Moment of inertia (J) : 76.2 sq.ft.lb |
| LRC : 6.8                   | Duty cycle : Cont.(S1)                |
| Rated torque : 588 ft.lb    | Insulation class : F                  |
| Locked rotor torque : 229 % | Service factor : 1.15                 |
| Breakdown torque : 250 %    | Temperature rise : 80 K               |
| Rated speed : 1785 rpm      | Design : B                            |

Heating constant

Cooling constant

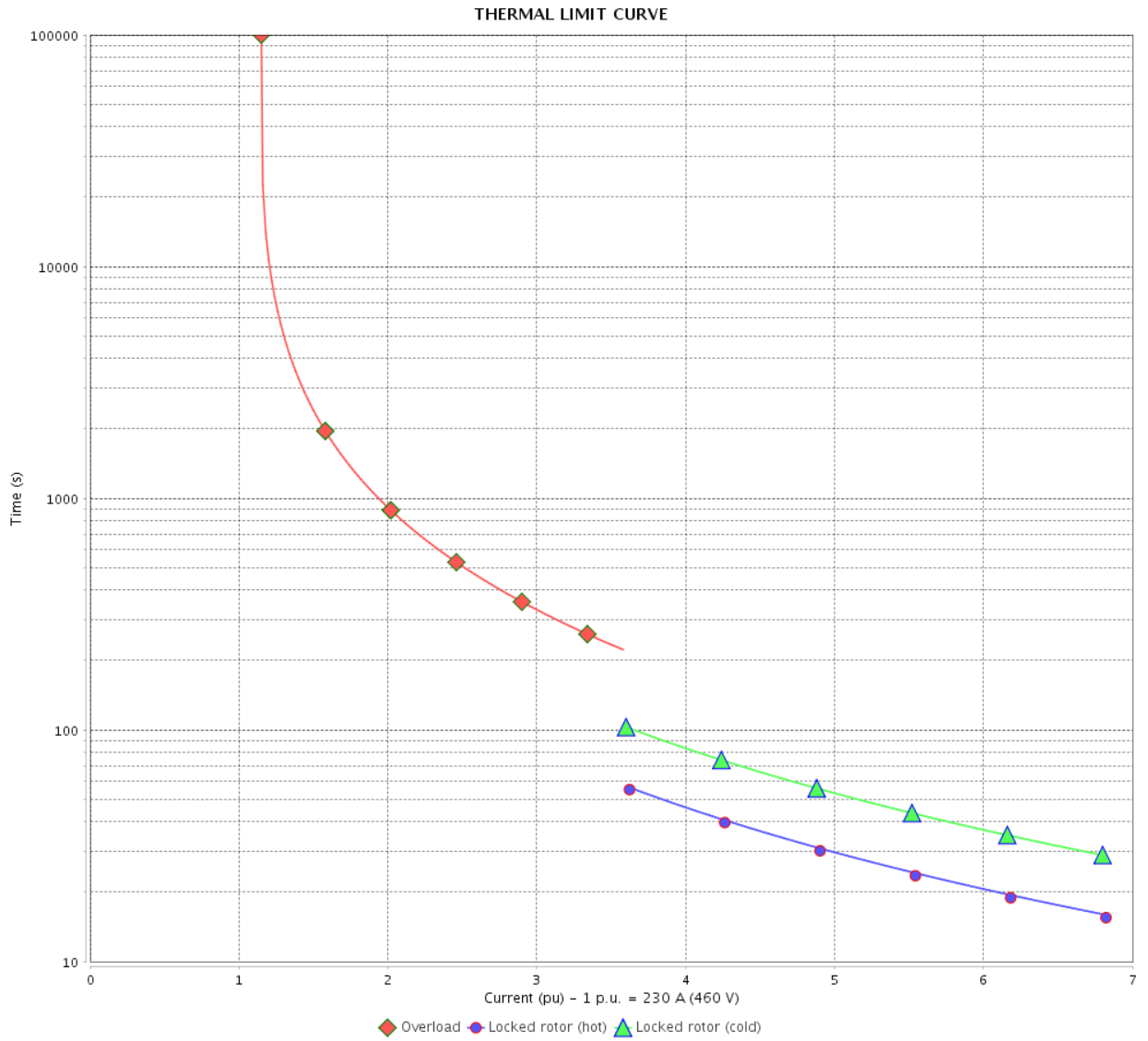
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# THERMAL LIMIT CURVE

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 : 11975508

Catalog # : 20018ET3G447TC-W22

Performance : 380 V 50 Hz 4P IE2

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 279 A     | Moment of inertia (J) | : 76.2 sq.ft.lb |
| LRC                 | : 5.1       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 712 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 170 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 200 %     | Temperature rise      | : 105 K         |
| Rated speed         | : 1475 rpm  | Design                | : B             |

Heating constant

Cooling constant

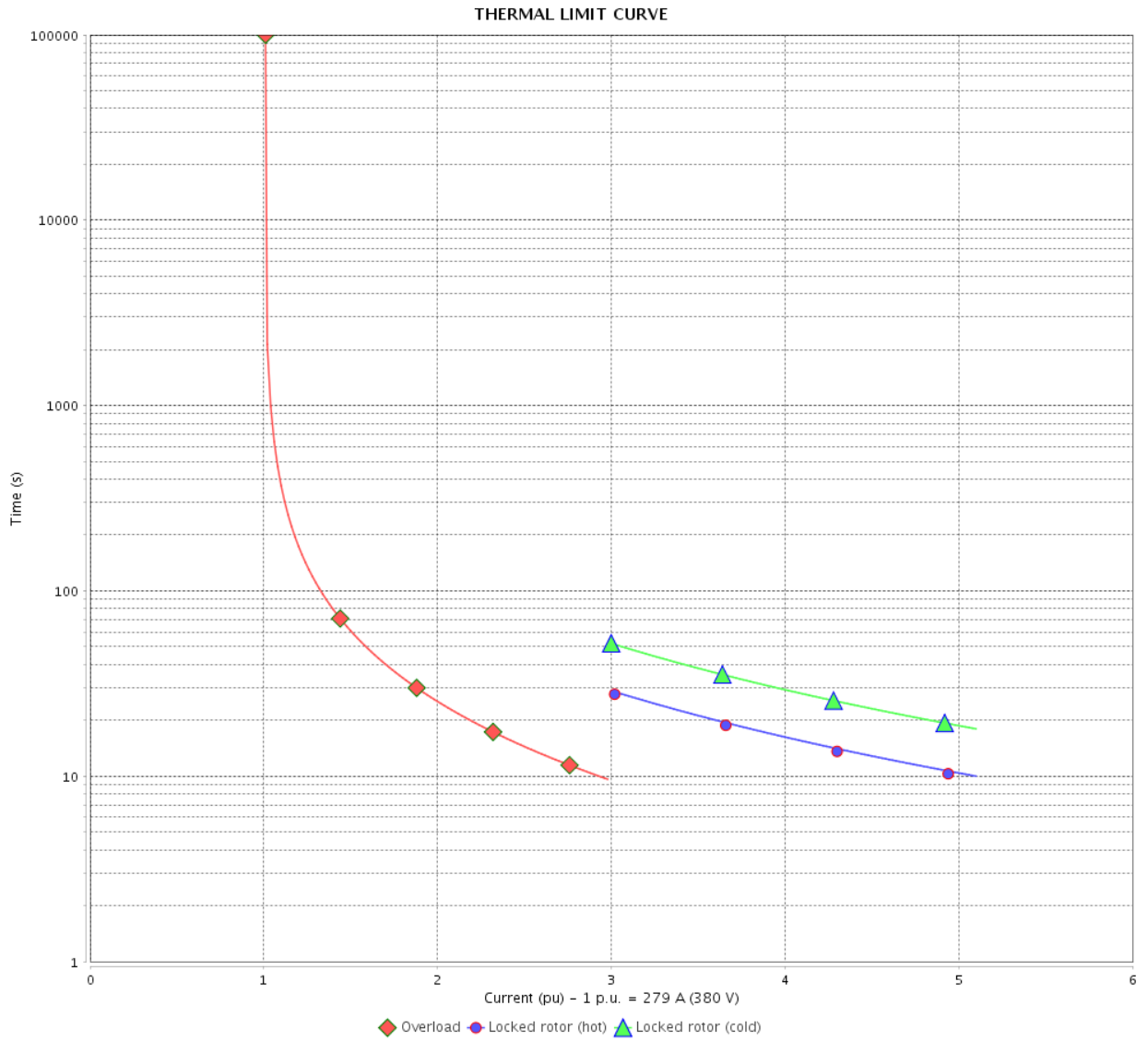
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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|                     |             |                       |                 |
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| Rated current       | : 264 A     | Moment of inertia (J) | : 76.2 sq.ft.lb |
| LRC                 | : 5.6       | Duty cycle            | : Cont.(S1)     |
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| Locked rotor torque | : 190 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 220 %     | Temperature rise      | : 105 K         |
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Cooling constant

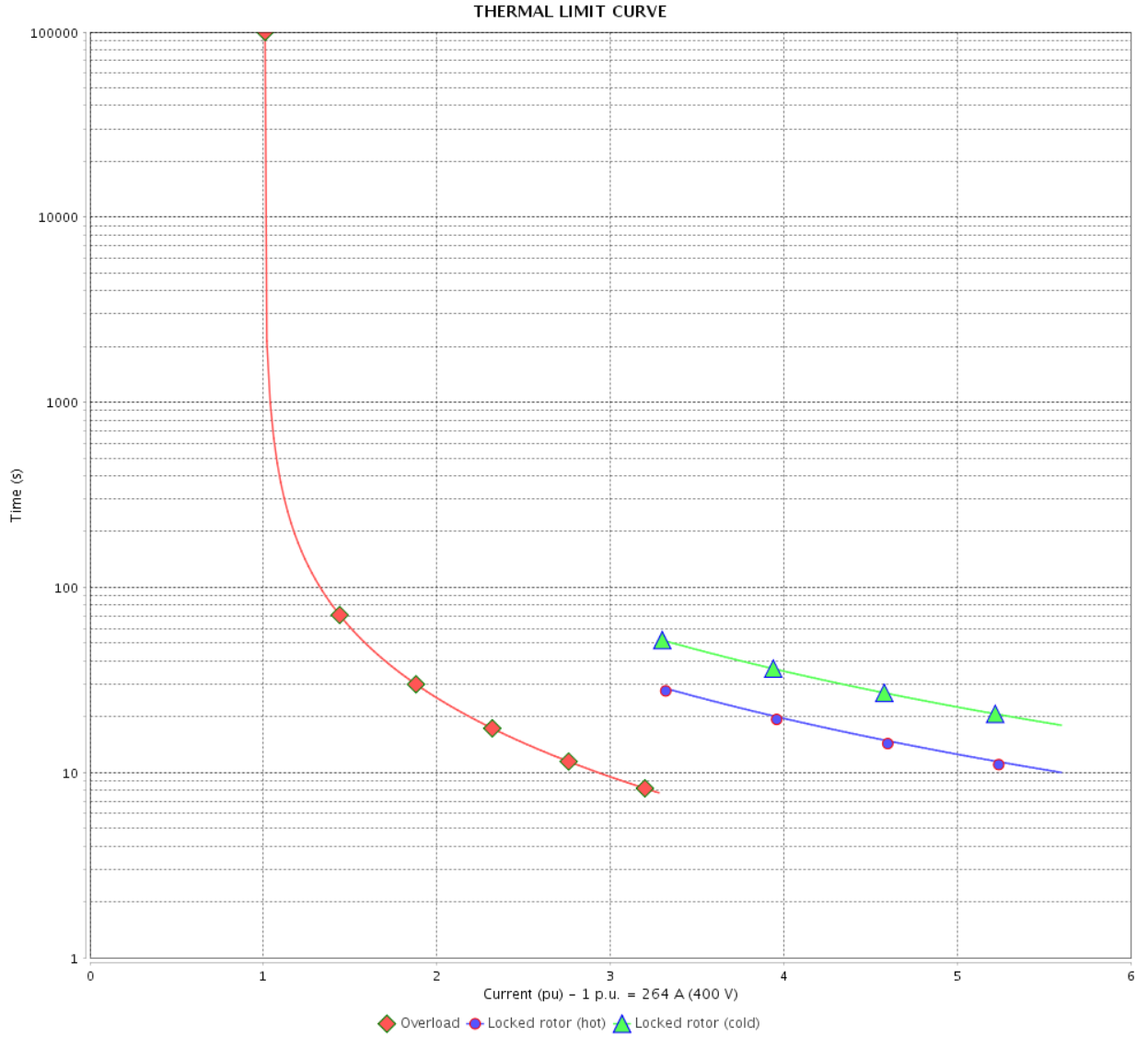
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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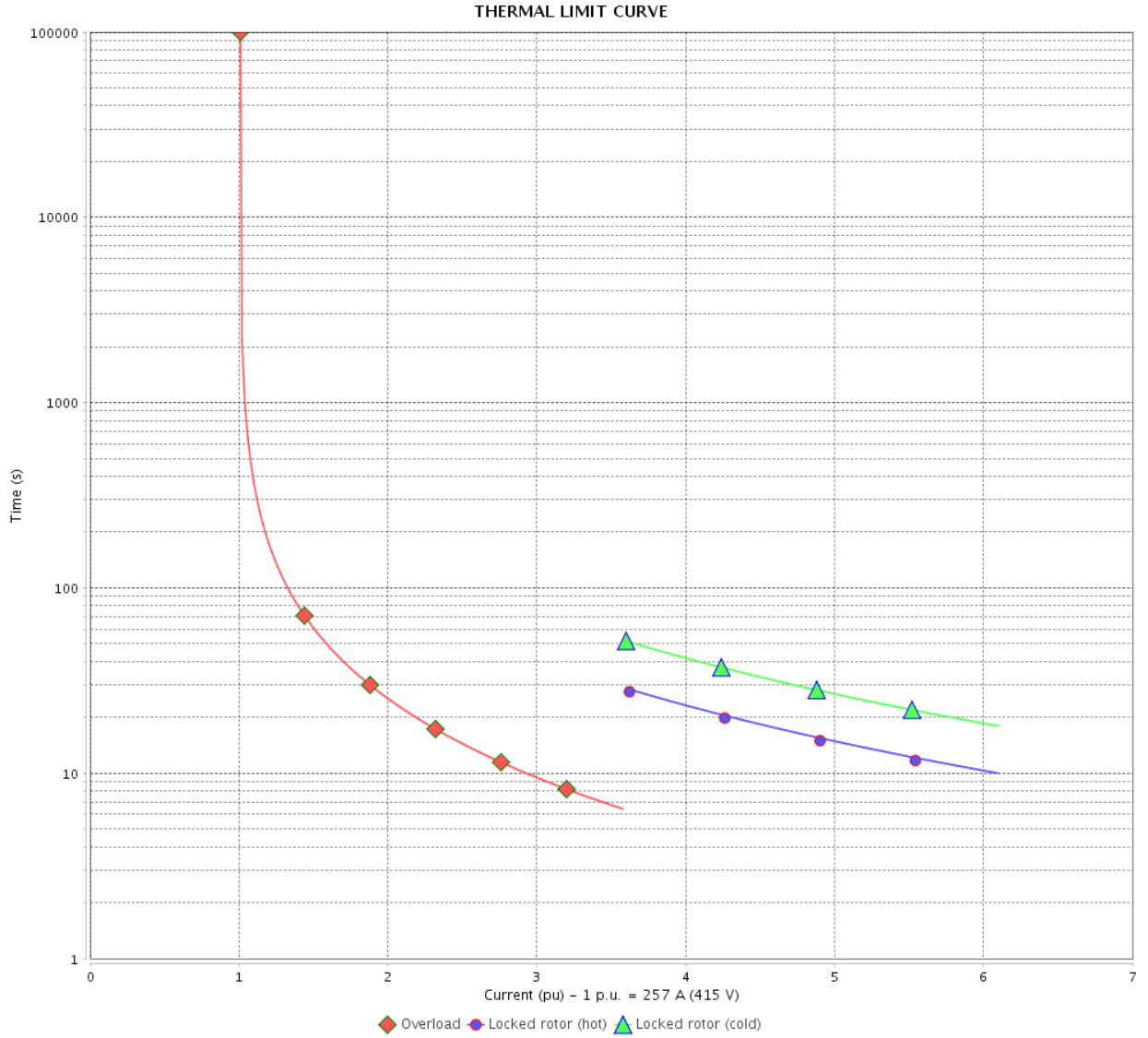


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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

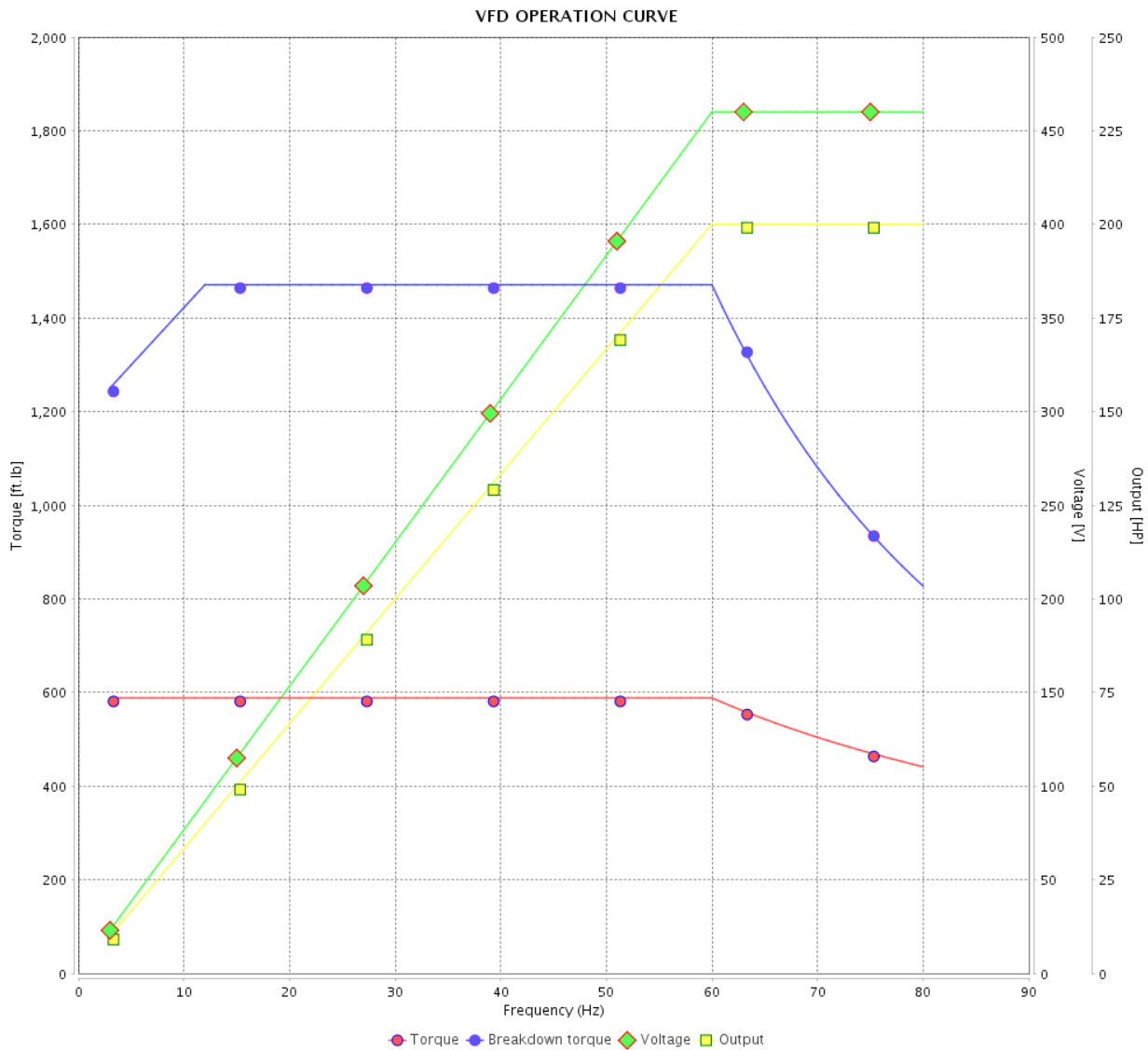


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 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# VFD OPERATION CURVE

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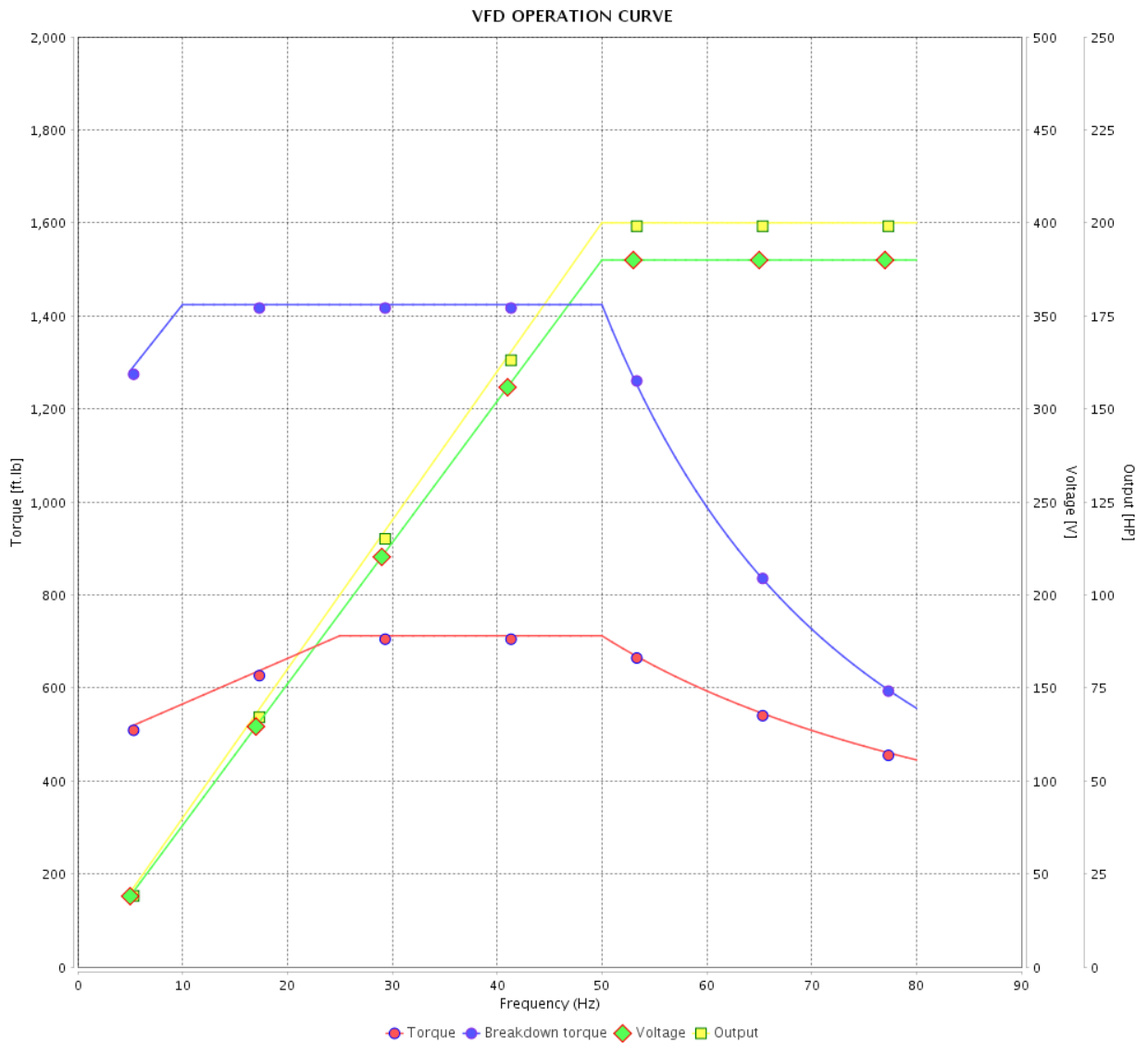


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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

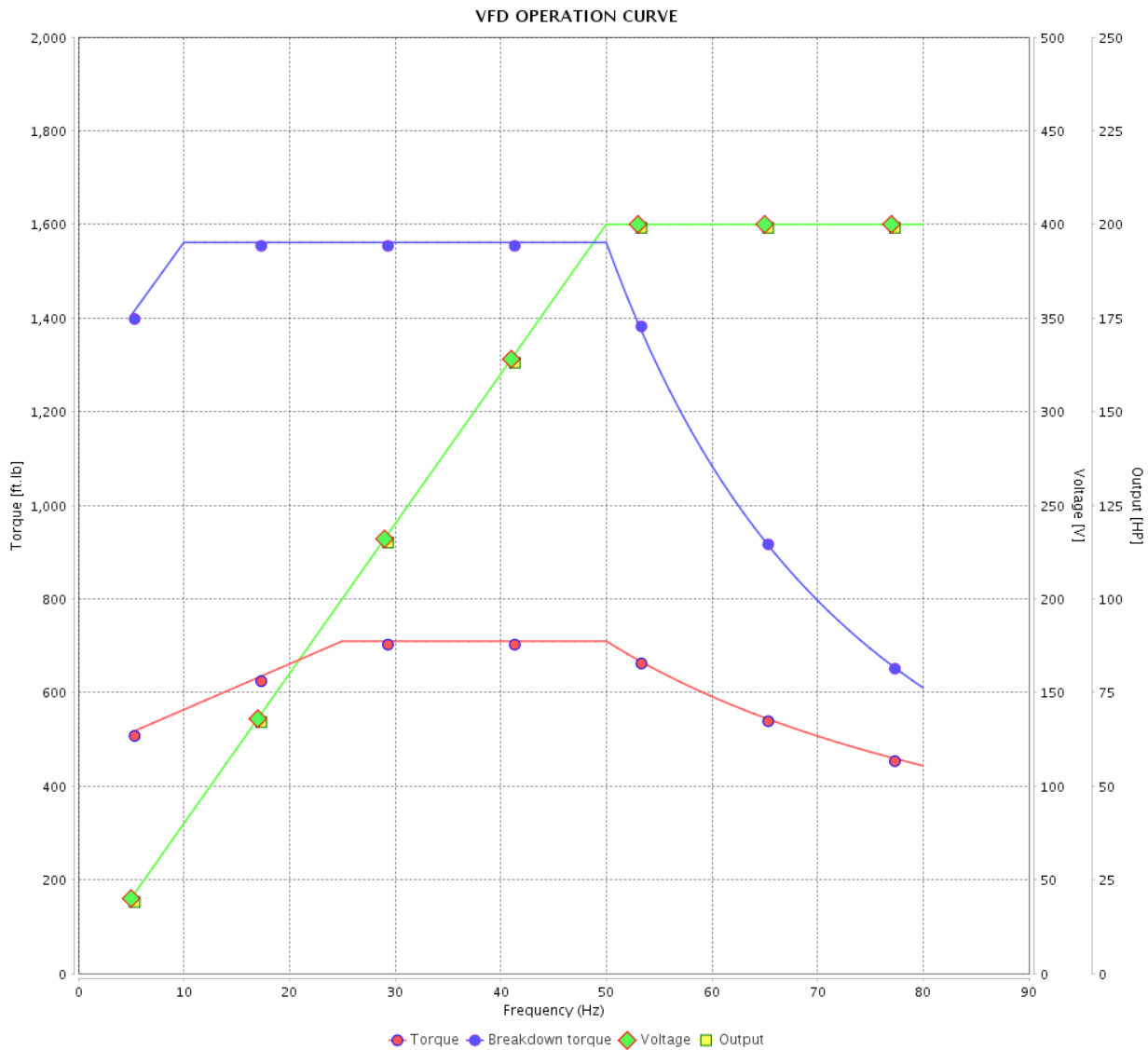


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|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 264 A     | Moment of inertia (J) | : 76.2 sq.ft.lb |
| LRC                 | : 5.6       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 710 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 190 %     | Service factor        | : 1.00          |
| Breakdown torque    | : 220 %     | Temperature rise      | : 105 K         |
| Rated speed         | : 1480 rpm  | Design                | : B             |

| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>20 / 21 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 14/04/2022      |           |                 |          |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

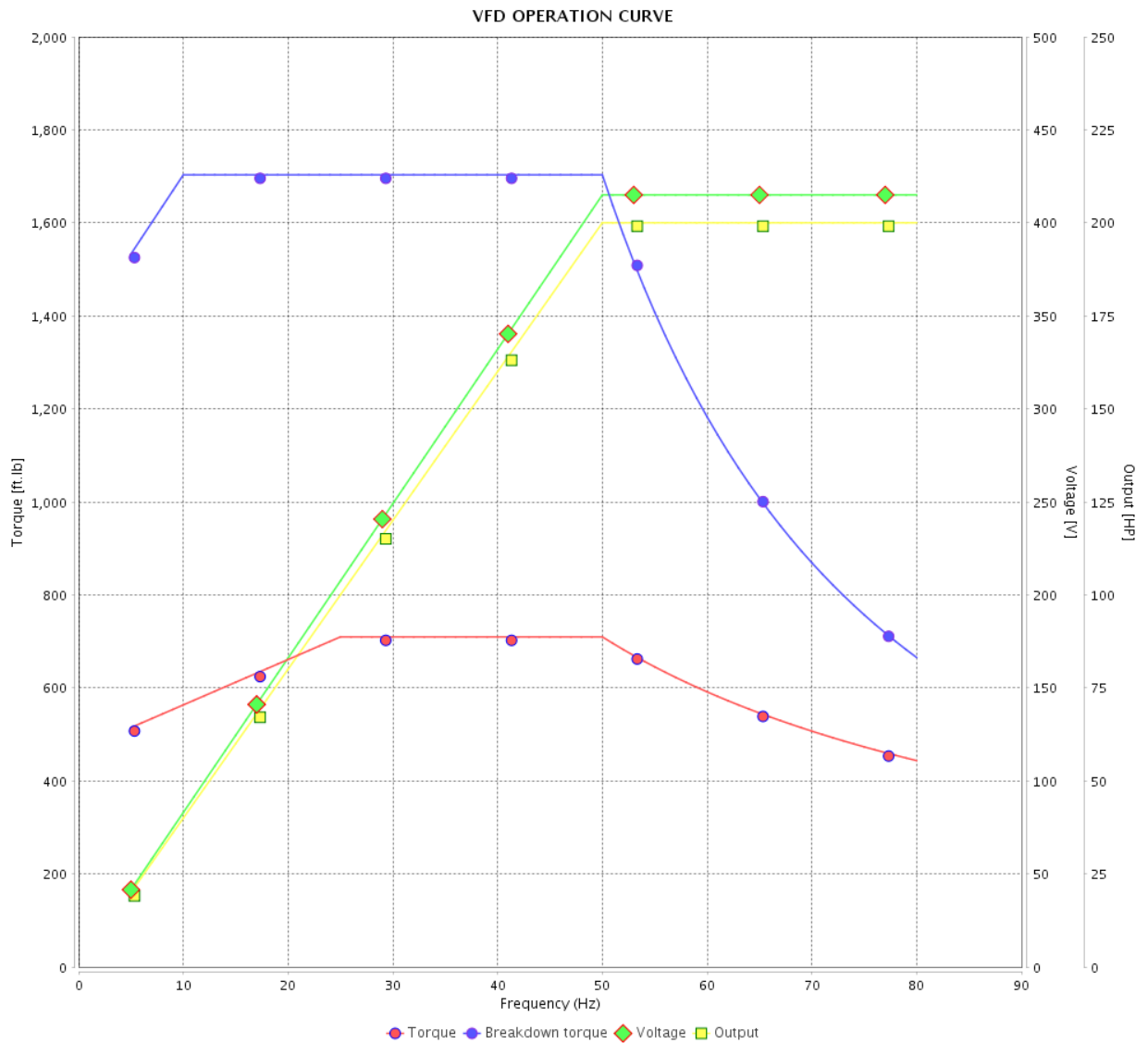


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11975508

Catalog # : 20018ET3G447TC-W22

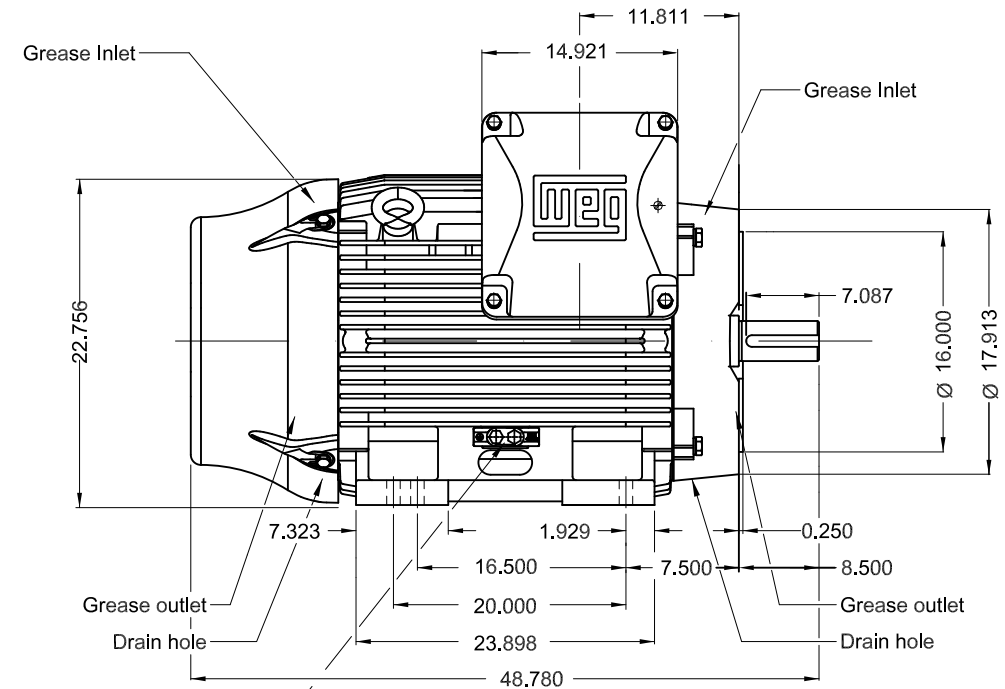
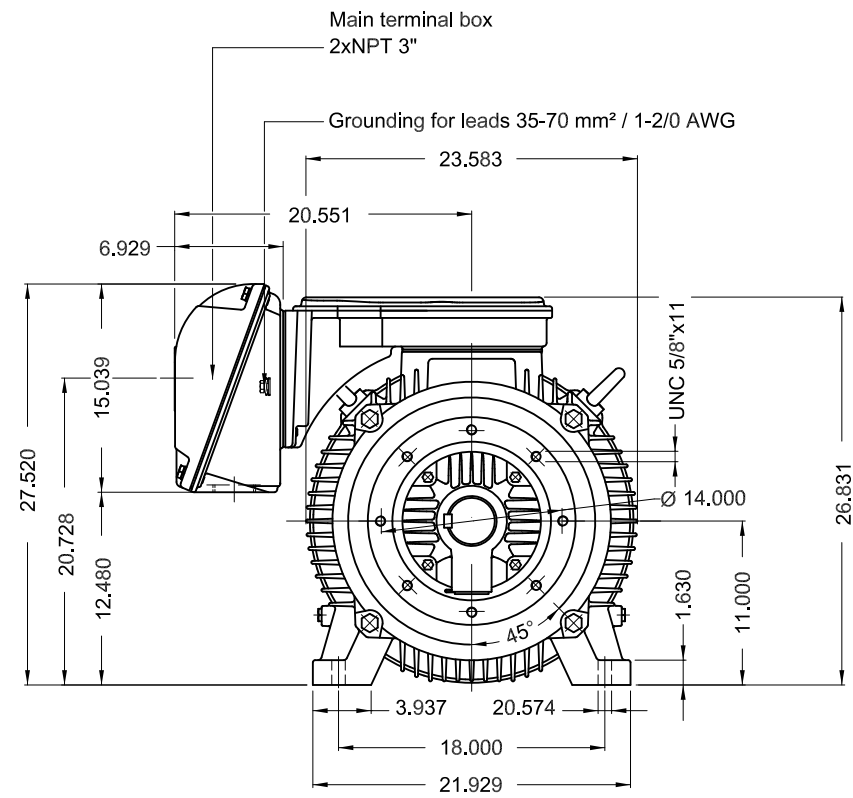


Performance : 415 V 50 Hz 4P IE2

Rated current : 257 A  
 LRC : 6.1  
 Rated torque : 710 ft.lb  
 Locked rotor torque : 210 %  
 Breakdown torque : 240 %  
 Rated speed : 1480 rpm

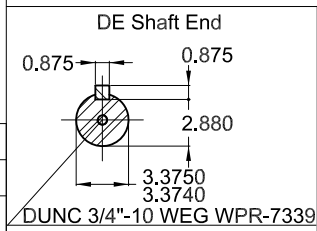
Moment of inertia (J) : 76.2 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

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



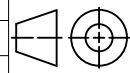
Grounding for leads 25-185 mm<sup>2</sup> / 3AWG-350MCM

Color RAL 5009  
 Painting plan 203A  
 Mounting B34R(D)



200 HP 04 Poles 60 Hz

Dimensions in inches

| ECM      | LOC       | SUMMARY OF MODIFICATIONS  | EXECUTED       | CHECKED             | RELEASED | DATE  | VER |
|----------|-----------|---|----------------|---------------------|----------|-------|-----|
| EXECUTED | PIRWBUSER |  THREE PH. MOTOR W22 PREM. EFF.<br>FRAME 445/7TC IP55 TEFC |                |                     |          |       |     |
| CHECKED  |           |   |                |                     |          |       |     |
| RELEASED |           |   |                |                     |          |       |     |
| REL DT.  | WMO       |   | Jaragua do Sul | Product Engineering | SHEET    | 1 / 1 |     |

**PREVIEW**  
 WDD



MADE IN MEXICO  
11975508



FOR SAFE AREA  
Mod.TE1BFOXON  
CC029A

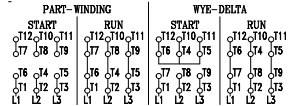




Class I, Div 2, Gr A, B, C and D - T3  
Class I, Zone 2, IIC - T3  
Class II, Div 2, Gr F and G - T3C  
For use on PWM: Gr. A, B, C, D and F,  
VT 1000:1, CT 20:1, 1.00SF - T3


MODEL 20018ET3G447TC-W22

Inverter Duty Motor  
Severe Duty

|            |      |             |              |                 |                    |        |
|------------|------|-------------|--------------|-----------------|--------------------|--------|
| PH3        | 60Hz | Fr. 445/7TC | 1000m.a.s.l. | IP55            | TEFC               | 2335lb |
| V 460      |      |             |              | A 230           |                    |        |
| HP 200     |      |             |              | kW 150          |                    |        |
| SF 1.15    |      |             |              | SFA 265         |                    |        |
| RPM 1785   |      |             |              | PF 0.85         |                    |        |
| AMB 40°C   |      |             |              | INS cl. F DT80K | NEMA NOM EFF 96.2% |        |
| DUTY CONT. |      |             |              | DES B Code G    |                    |        |



 → 6319-C3 (45g)  
 → 6316-C3 (34g)

 MOBIL POLYREX EM (8000h)

