

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |  |                             |  |                      |          |
|--|--|-----------------------------|--|----------------------|----------|
| Customer :   |  |                             |  |                      |          |
| Product line   | : W40 NEMA Premium Efficiency<br>Three-Phase | Product code :              | 14504156   |                      |          |
|  |  | Catalog # :                 | 06036OT3E326TS-W40G  |                      |          |
| Frame  | : 324/6TS                                    | Cooling method              | : IC01 - ODP   |                      |          |
| Insulation class   | : F  | Mounting                    | : F-1  |                      |          |
| Duty cycle   | : Cont.(S1)                                  | Rotation <sup>1</sup>       | : Both (CW and CCW)  |                      |          |
| Ambient temperature  | : -20°C to +40°C                             | Starting method             | : Direct On Line   |                      |          |
| Altitude   | : 1000 m.a.s.l.                              | Approx. weight <sup>2</sup> | : 549 lb   |                      |          |
| Protection degree  | : IP23                                       | Moment of inertia (J)       | : 3.82 sq.ft.lb  |                      |          |
| Design   | : B  |                             |  |                      |          |
| Output [HP]  | 60   | 50                          | 50   | 50                   |          |
| Poles  | 2  | 2                           | 2  | 2                    |          |
| Frequency [Hz]   | 60   | 50                          | 50   | 50                   |          |
| Rated voltage [V]  | 230/460                                      | 380                         | 400  | 415                  |          |
| Rated current [A]  | 142/71.0                                     | 69.8                        | 68.7   | 69.5                 |          |
| L. R. Amperes [A]  | 895/447                                      | 482                         | 460  | 473                  |          |
| LRC [A]  | 6.3x(Code G)                                 | 6.9x(Code H)                | 6.7x(Code H)   | 6.8x(Code H)         |          |
| No load current [A]  | 50.0/25.0                                    | 23.0                        | 27.0   | 30.0                 |          |
| Rated speed [RPM]  | 3560   | 2960                        | 2960   | 2965                 |          |
| Slip [%]   | 1.11   | 1.33                        | 1.33   | 1.17                 |          |
| Rated torque [ft.lb]   | 88.5   | 88.7                        | 88.7   | 88.6                 |          |
| Locked rotor torque [%]  | 220  | 220                         | 240  | 260                  |          |
| Breakdown torque [%]   | 229  | 229                         | 250  | 270                  |          |
| Service factor   | 1.25   | 1.00                        | 1.00   | 1.00                 |          |
| Temperature rise   | 80 K   | 80 K                        | 80 K   | 80 K                 |          |
| Locked rotor time  | 27s (cold) 15s (hot)                         | 28s (cold) 16s (hot)        | 25s (cold) 14s (hot)   | 23s (cold) 13s (hot) |          |
| Noise level <sup>2</sup>   | 75.0 dB(A)                                   |                             |  |                      |          |
| Efficiency (%)   | 25%  | 91.7                        | 88.9   | 89.0                 | 89.2     |
|  | 50%  | 92.4                        | 90.5   | 90.6                 | 90.7     |
|  | 75%  | 93.0                        | 92.0   | 92.1                 | 92.2     |
|  | 100%   | 93.6                        | 93.7   | 93.7                 | 93.7     |
| Power Factor   | 25%  | 0.48                        | 0.50   | 0.43                 | 0.38     |
|  | 50%  | 0.73                        | 0.73   | 0.67                 | 0.60     |
|  | 75%  | 0.82                        | 0.82   | 0.77                 | 0.72     |
|  | 100%   | 0.85                        | 0.86   | 0.83                 | 0.79     |
| Bearing type   | : Drive end : 6312 Z C3                      | Non drive end : 6211 Z C3   | Foundation loads   |                      |          |
| Sealing  | : Without                                    | Without                     | Max. traction  |                      |          |
|  | Bearing Seal                                 | Bearing Seal                | Max. compression   |                      |          |
| Lubrication interval   | : 19658 h                                    | 20000 h                     |  |                      |          |
| Lubricant amount   | : 21 g                                       | 11 g                        |  |                      |          |
| Lubricant type   | : Mobil Polyrex EM                           |                             |  |                      |          |
| Notes<br>USABLE @208V 157A SF 1.15 SFA 181A  |  |                             |  |                      |          |
| 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   | 13/04/2022                                   |                             |  | 1 / 21               |          |

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



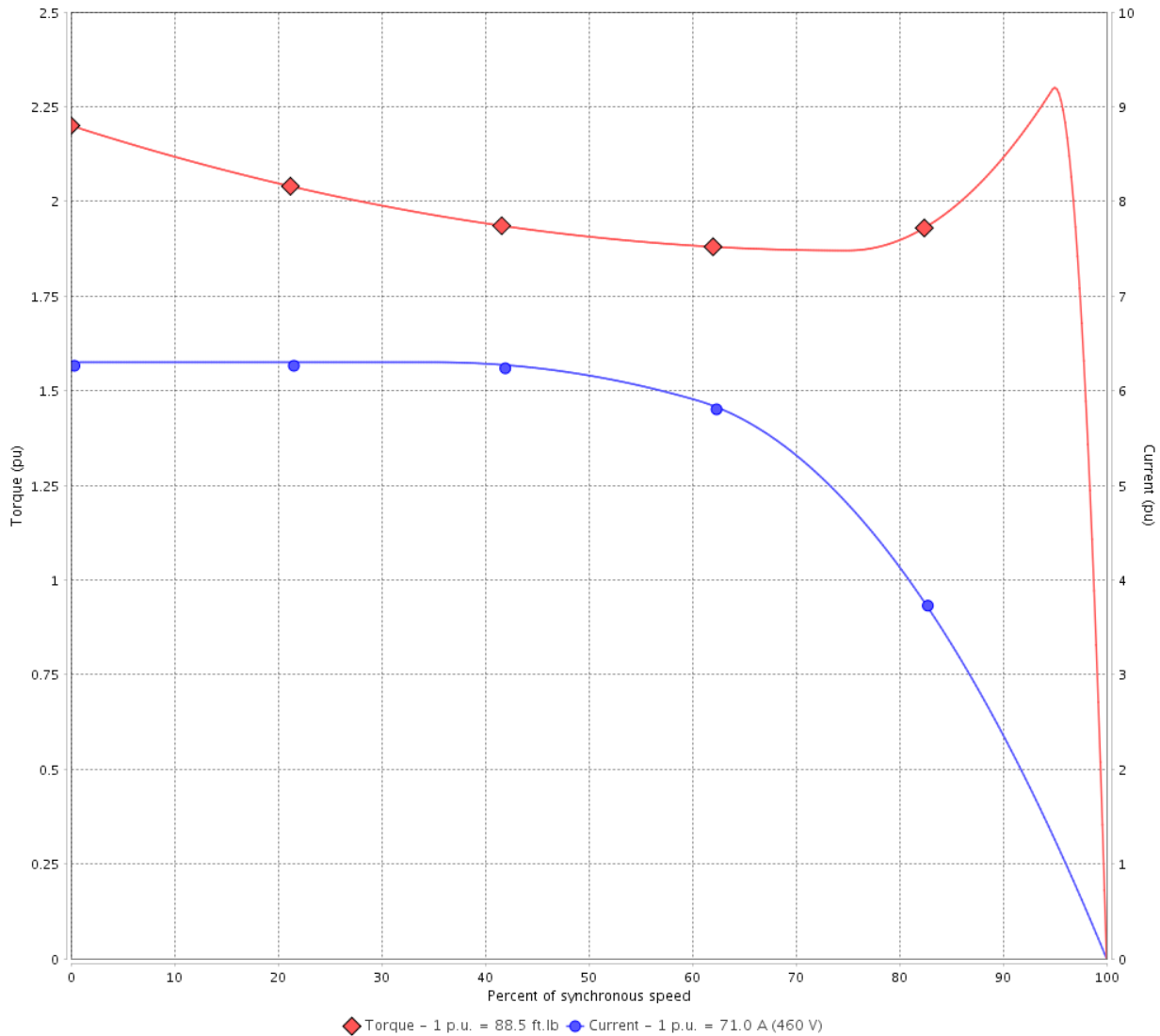
Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14504156

Catalog # : 060360T3E326TS-W40G

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

|                     |              |                       |                 |
|---------------------|--------------|-----------------------|-----------------|
| Rated current       | : 142/71.0 A | Moment of inertia (J) | : 3.82 sq.ft.lb |
| LRC                 | : 6.3        | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 88.5 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 220 %      | Service factor        | : 1.25          |
| Breakdown torque    | : 229 %      | Temperature rise      | : 80 K          |
| Rated speed         | : 3560 rpm   | Design                | : B             |

Locked rotor time : 27s (cold) 15s (hot)

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



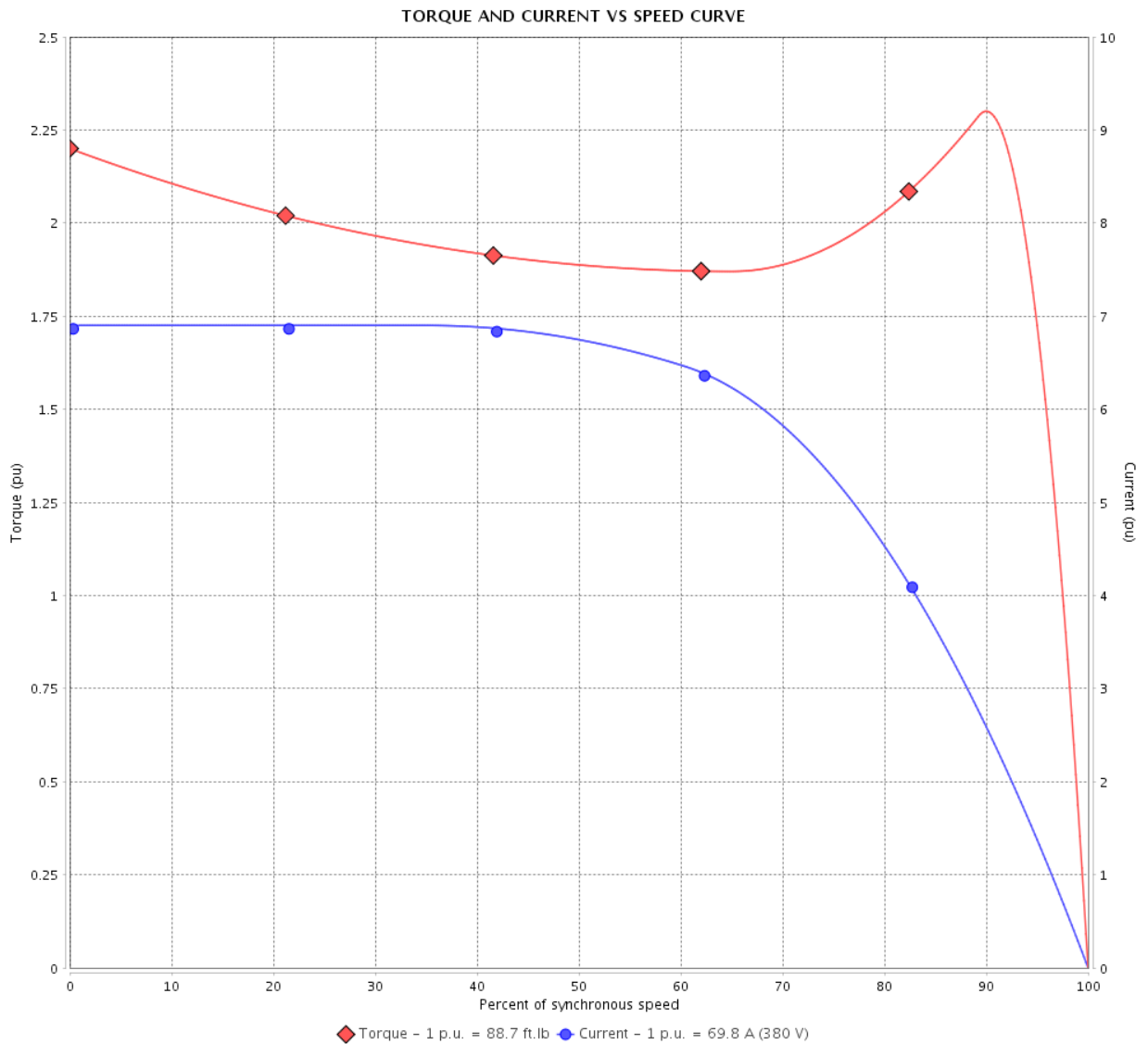
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G



Performance : 380 V 50 Hz 2P IE3

Rated current : 69.8 A  
 LRC : 6.9  
 Rated torque : 88.7 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 229 %  
 Rated speed : 2960 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

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

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# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



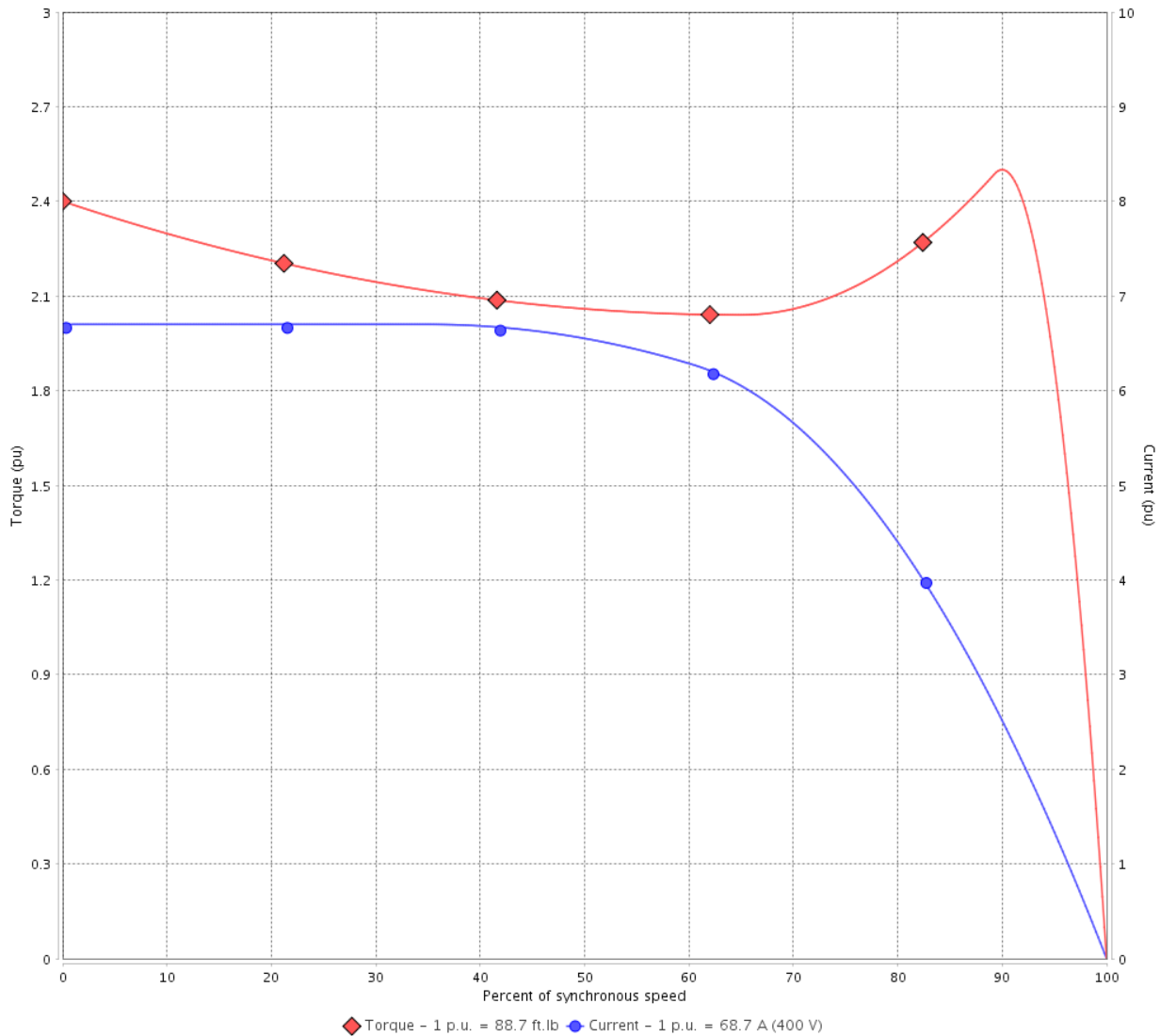
Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

|                     |              |                       |                 |
|---------------------|--------------|-----------------------|-----------------|
| Rated current       | : 68.7 A     | Moment of inertia (J) | : 3.82 sq.ft.lb |
| LRC                 | : 6.7        | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 88.7 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 240 %      | Service factor        | : 1.00          |
| Breakdown torque    | : 250 %      | Temperature rise      | : 80 K          |
| Rated speed         | : 2960 rpm   | Design                | : B             |

Locked rotor time : 25s (cold) 14s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



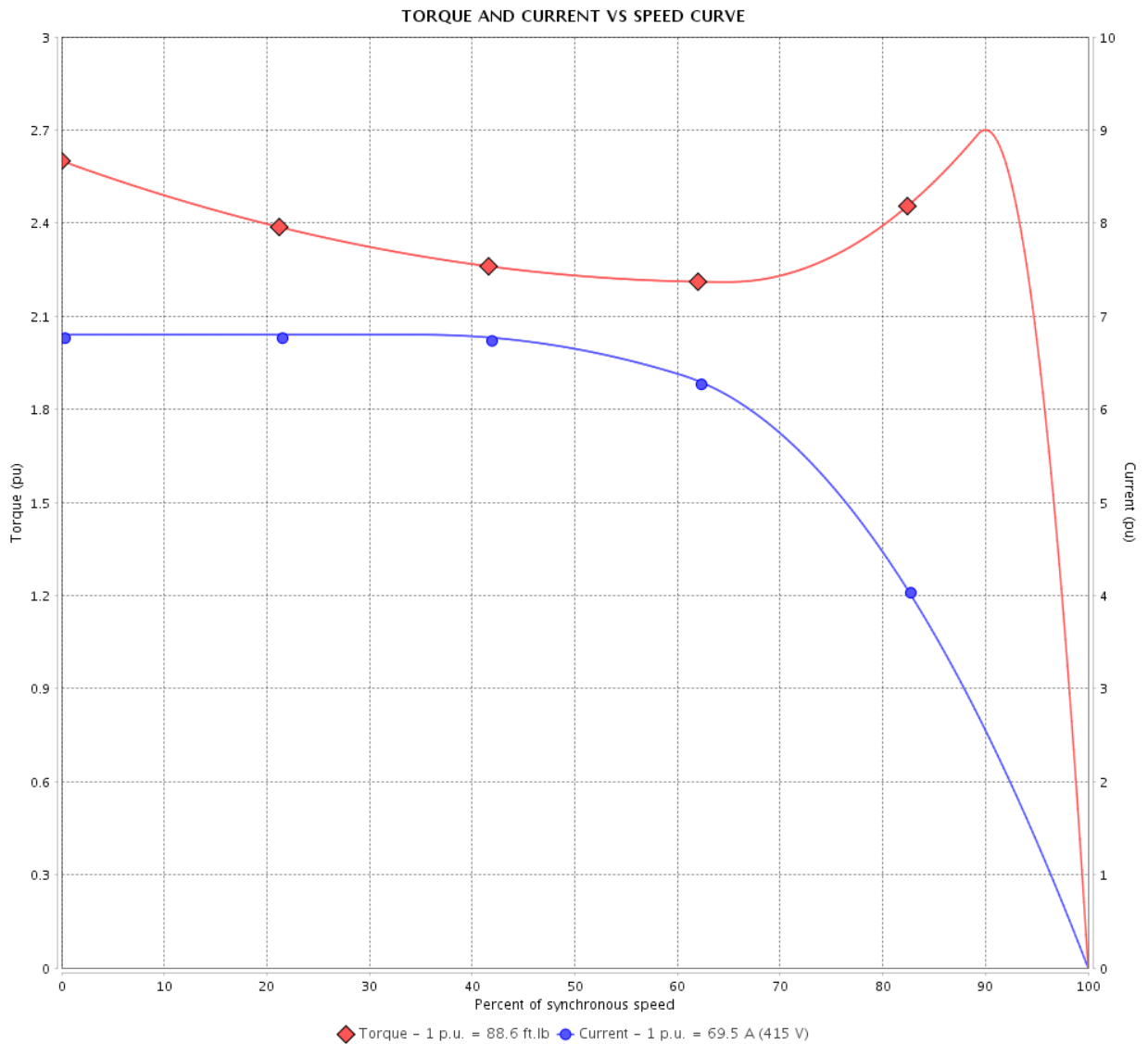
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G



Performance : 415 V 50 Hz 2P IE3

Rated current : 69.5 A  
 LRC : 6.8  
 Rated torque : 88.6 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 270 %  
 Rated speed : 2965 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

Locked rotor time : 23s (cold) 13s (hot)

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

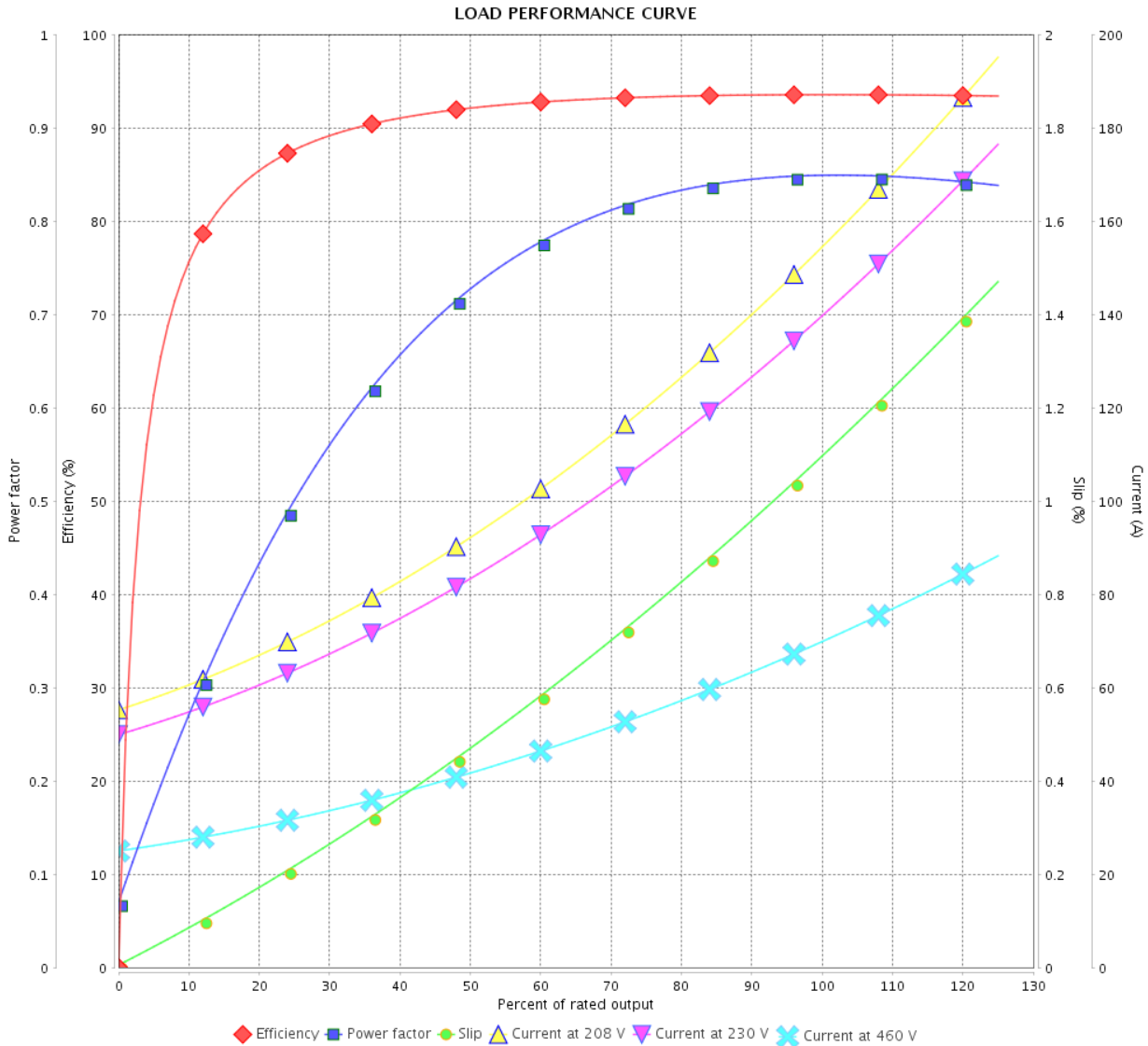


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G



Performance : 230/460 V 60 Hz 2P

Rated current : 142/71.0 A  
 LRC : 6.3  
 Rated torque : 88.5 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 229 %  
 Rated speed : 3560 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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

## Three Phase Induction Motor - Squirrel Cage

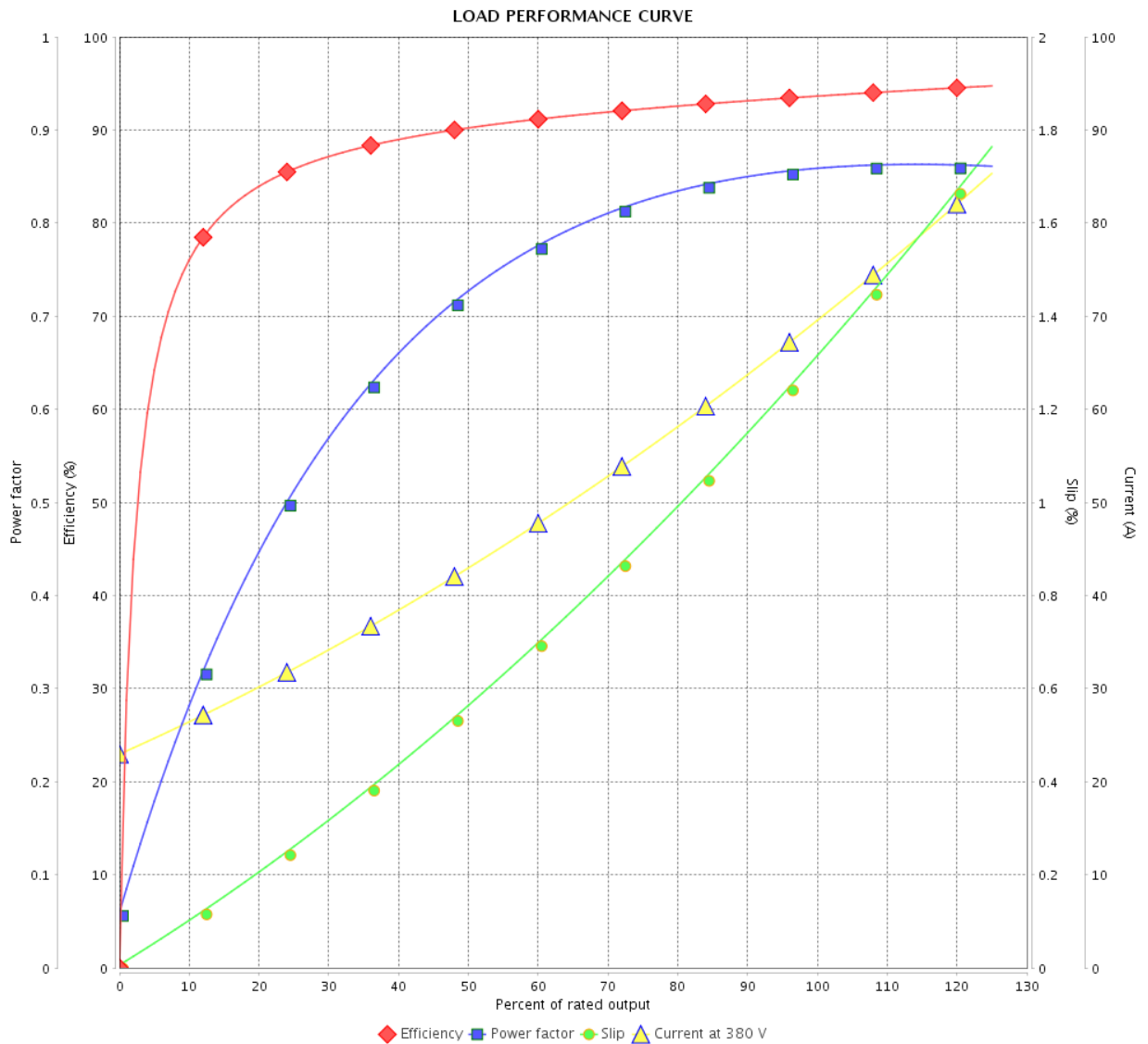


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G



Performance : 380 V 50 Hz 2P IE3

Rated current : 69.8 A  
 LRC : 6.9  
 Rated torque : 88.7 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 229 %  
 Rated speed : 2960 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

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

Three Phase Induction Motor - Squirrel Cage

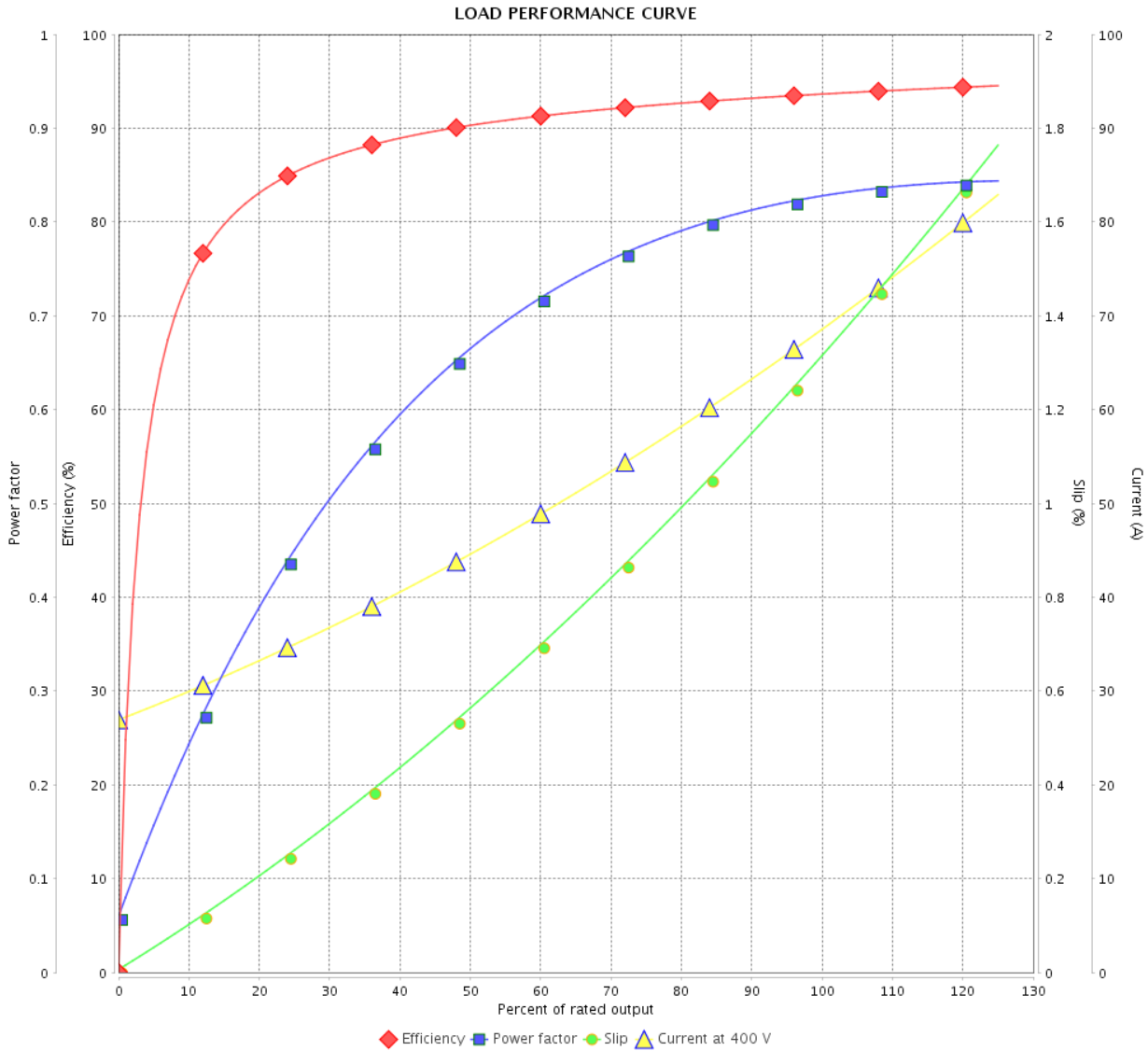


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G



Performance : 400 V 50 Hz 2P IE3

Rated current : 68.7 A  
 LRC : 6.7  
 Rated torque : 88.7 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 250 %  
 Rated speed : 2960 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

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

## Three Phase Induction Motor - Squirrel Cage

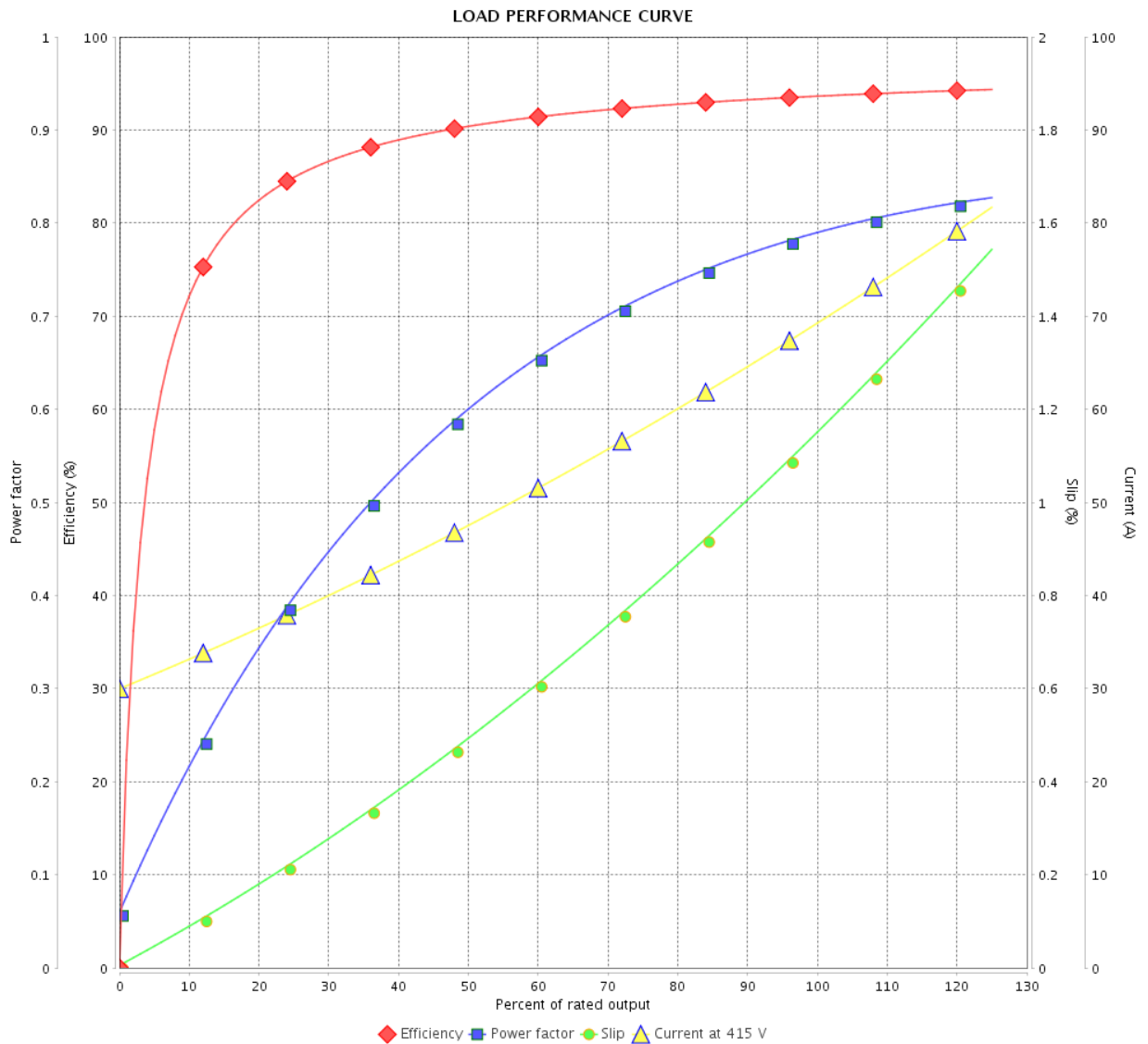


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G



Performance : 415 V 50 Hz 2P IE3

Rated current : 69.5 A  
 LRC : 6.8  
 Rated torque : 88.6 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 270 %  
 Rated speed : 2965 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G

Performance : 230/460 V 60 Hz 2P

Rated current : 142/71.0 A  
LRC : 6.3  
Rated torque : 88.5 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 229 %  
Rated speed : 3560 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

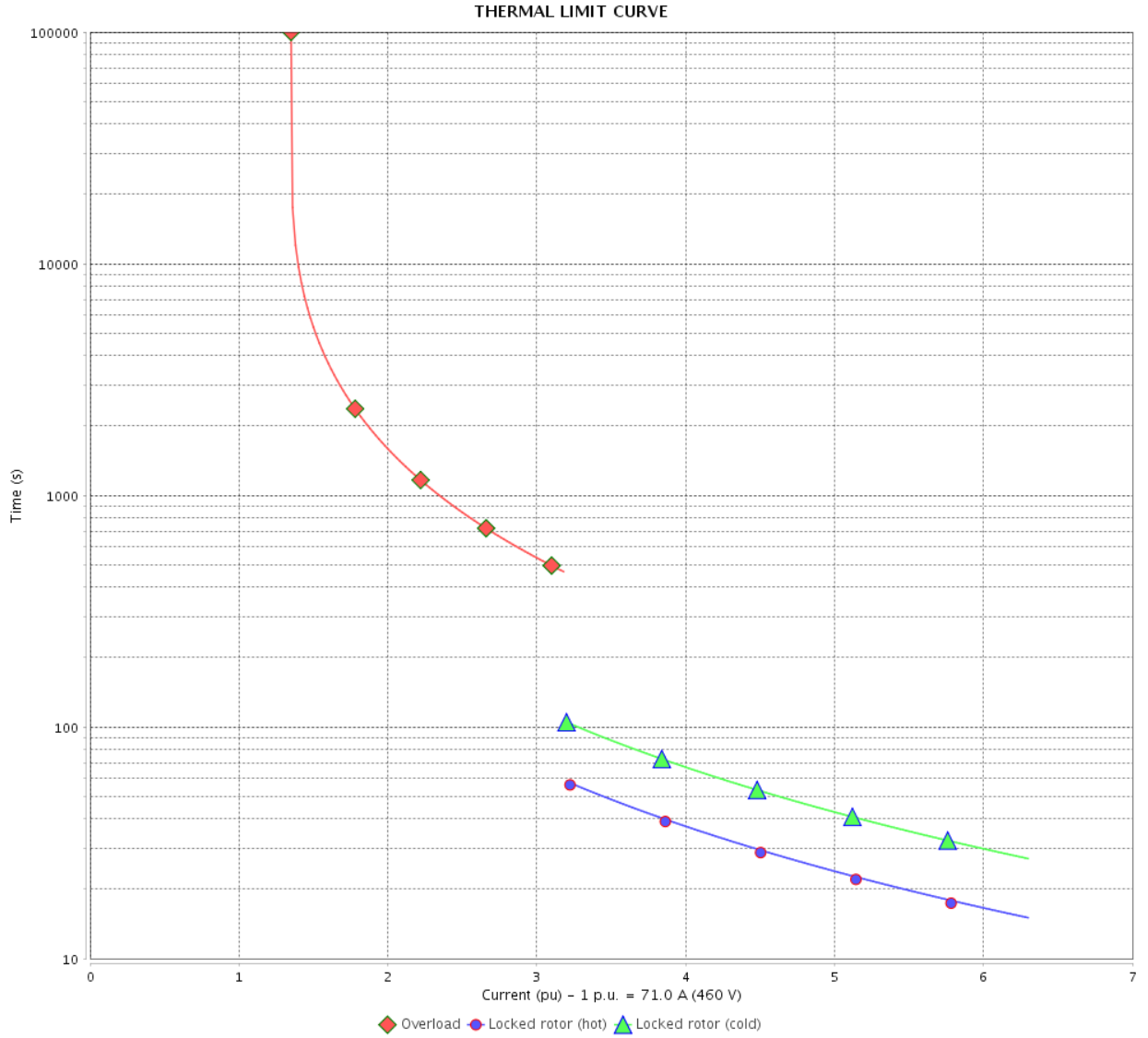
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G

Performance : 380 V 50 Hz 2P IE3

|                             |                                       |
|-----------------------------|---------------------------------------|
| Rated current : 69.8 A      | Moment of inertia (J) : 3.82 sq.ft.lb |
| LRC : 6.9                   | Duty cycle : Cont.(S1)                |
| Rated torque : 88.7 ft.lb   | Insulation class : F                  |
| Locked rotor torque : 220 % | Service factor : 1.00                 |
| Breakdown torque : 229 %    | Temperature rise : 80 K               |
| Rated speed : 2960 rpm      | Design : B                            |

Heating constant

Cooling constant

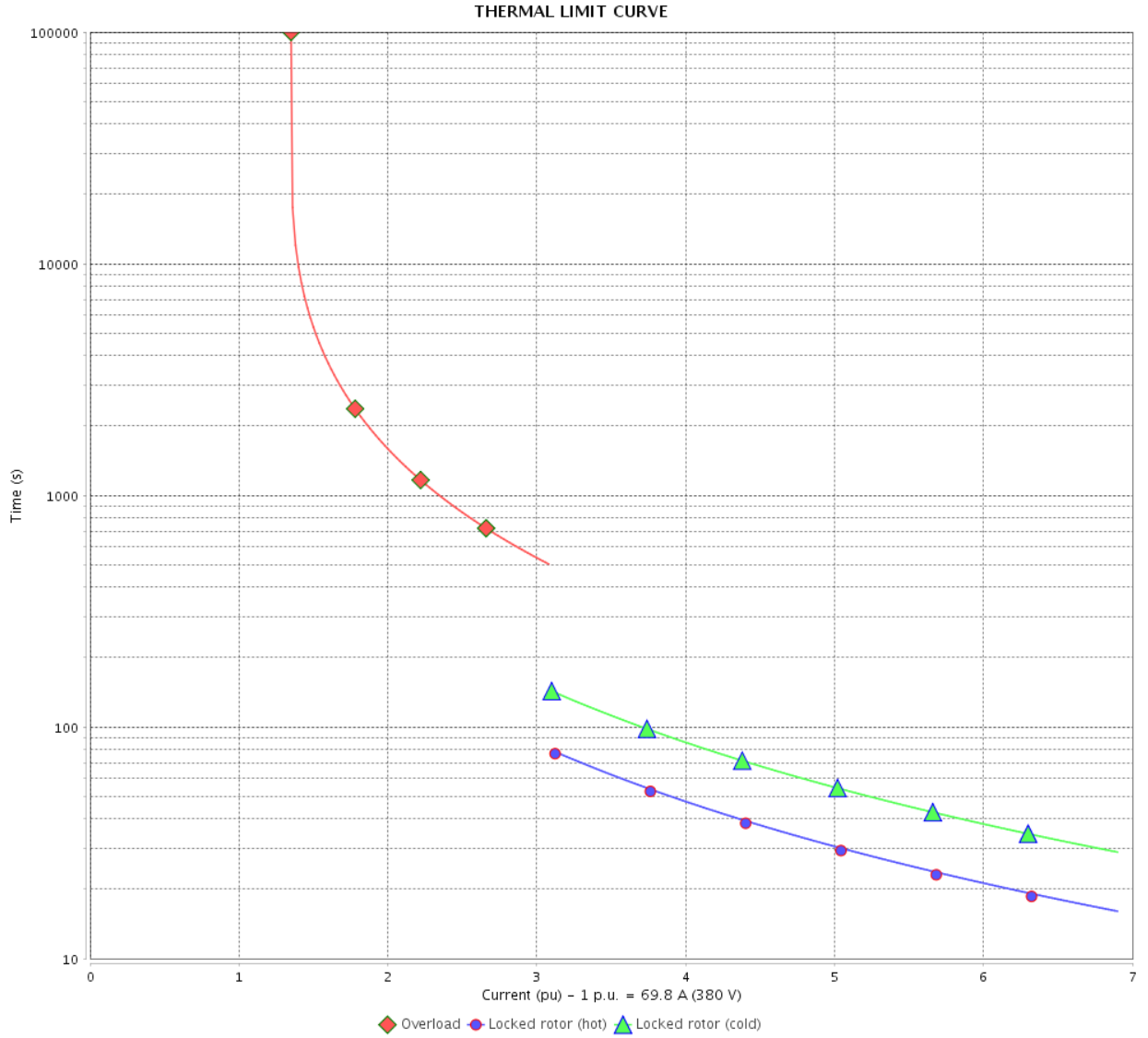
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G

Performance : 400 V 50 Hz 2P IE3

|                     |              |                       |                 |
|---------------------|--------------|-----------------------|-----------------|
| Rated current       | : 68.7 A     | Moment of inertia (J) | : 3.82 sq.ft.lb |
| LRC                 | : 6.7        | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 88.7 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 240 %      | Service factor        | : 1.00          |
| Breakdown torque    | : 250 %      | Temperature rise      | : 80 K          |
| Rated speed         | : 2960 rpm   | Design                | : B             |

Heating constant

Cooling constant

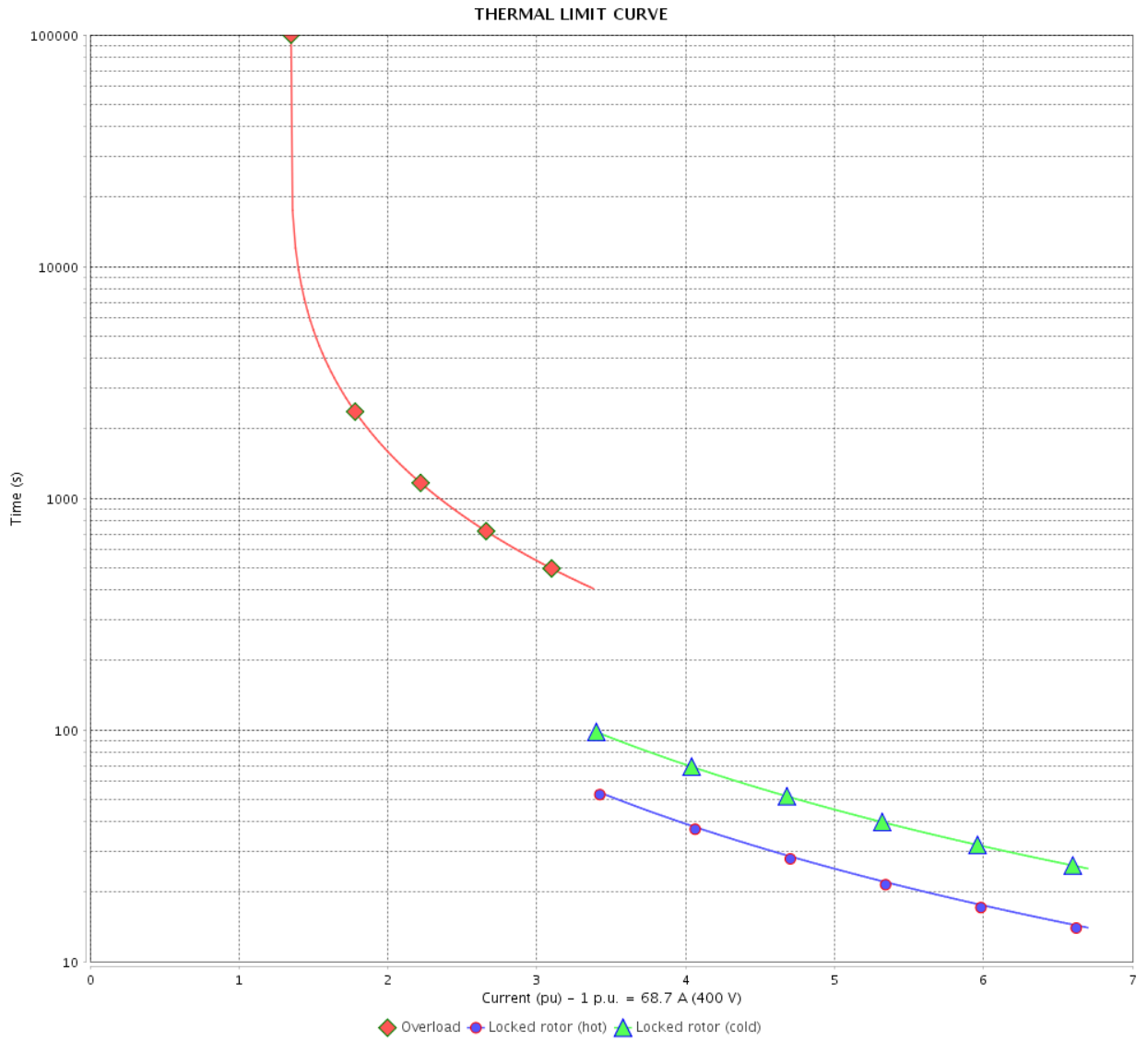
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
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Product code : 14504156

Catalog # : 06036OT3E326TS-W40G

Performance : 415 V 50 Hz 2P IE3

|                     |              |                       |                 |
|---------------------|--------------|-----------------------|-----------------|
| Rated current       | : 69.5 A     | Moment of inertia (J) | : 3.82 sq.ft.lb |
| LRC                 | : 6.8        | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 88.6 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 260 %      | Service factor        | : 1.00          |
| Breakdown torque    | : 270 %      | Temperature rise      | : 80 K          |
| Rated speed         | : 2965 rpm   | Design                | : B             |

Heating constant

Cooling constant

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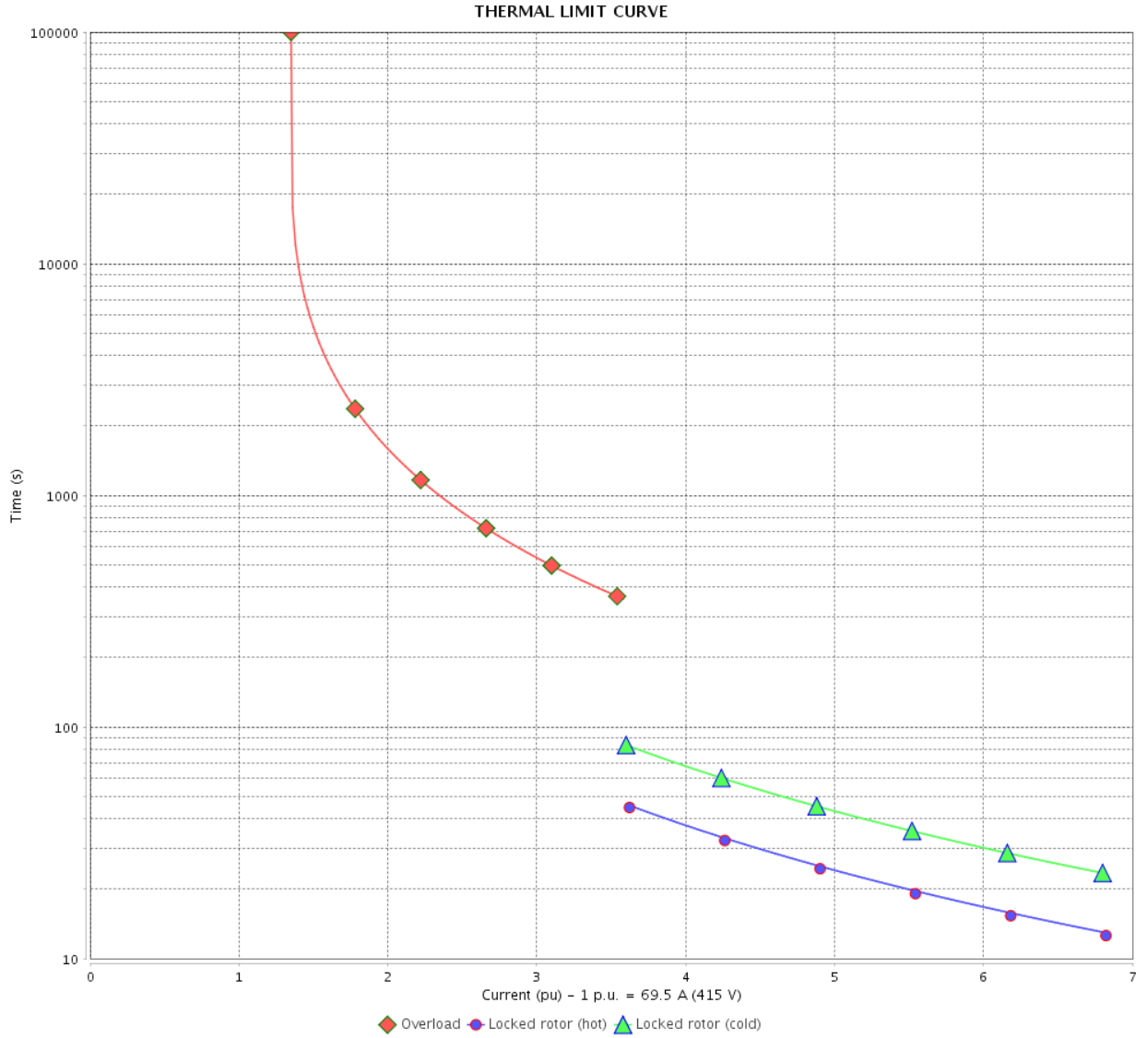


# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



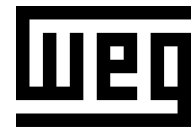
Customer : \_\_\_\_\_



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| Checked by   |                 |                 |         |          |
| Date         |                 |                 |         |          |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

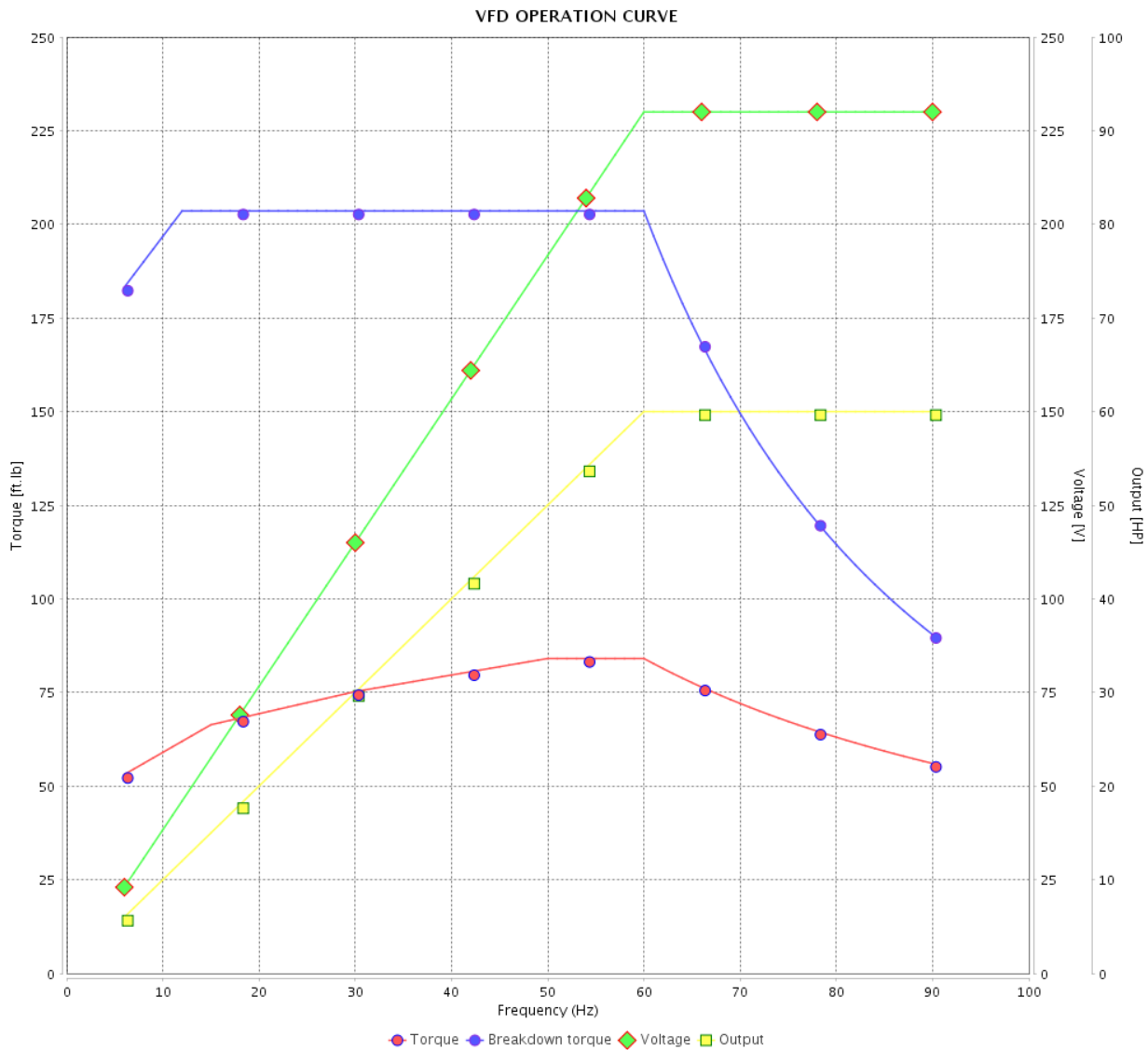


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G



Performance : 230/460 V 60 Hz 2P

Rated current : 142/71.0 A  
 LRC : 6.3  
 Rated torque : 88.5 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 229 %  
 Rated speed : 3560 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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

Three Phase Induction Motor - Squirrel Cage

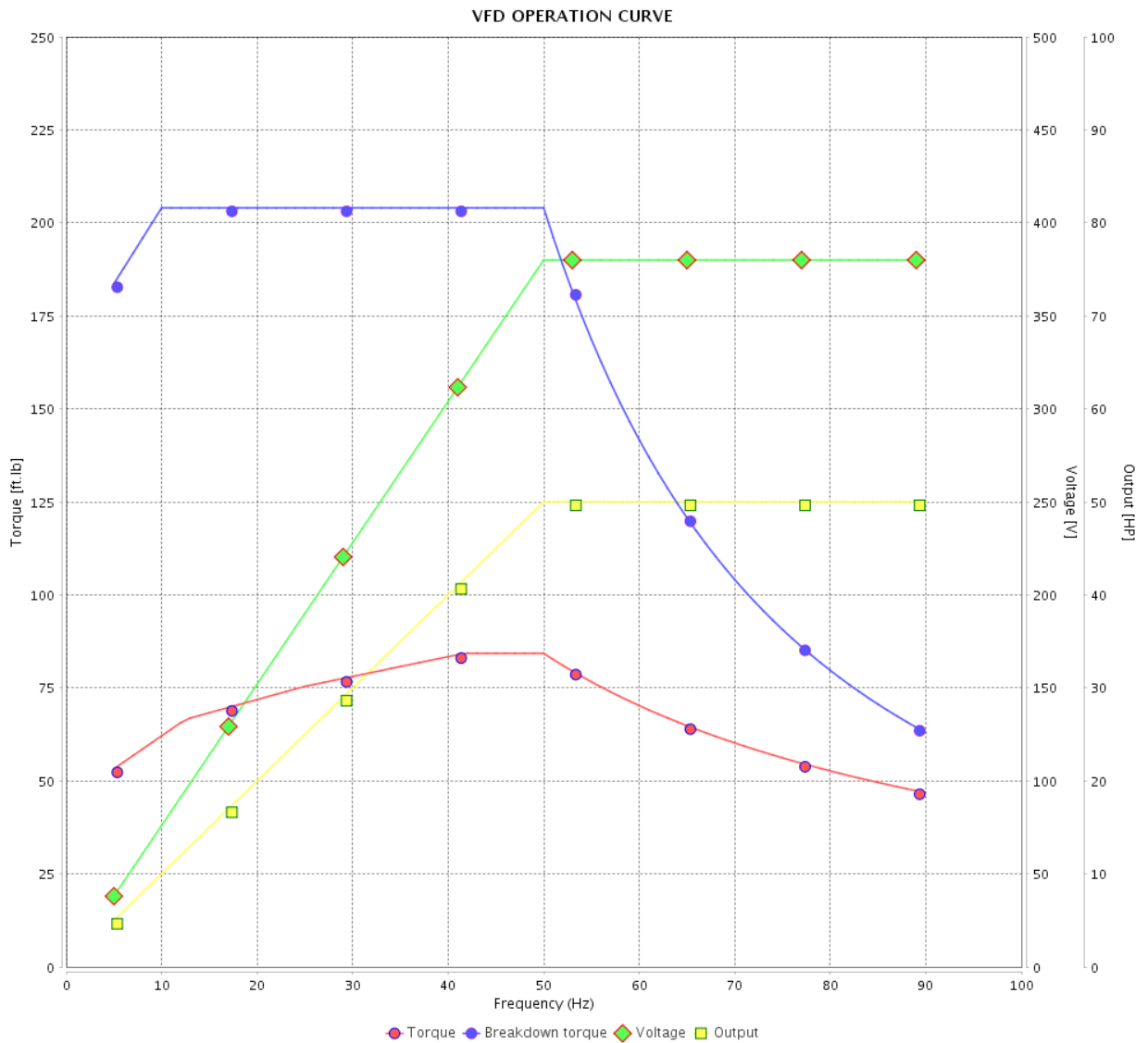


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Product code : 14504156

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Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : B

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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



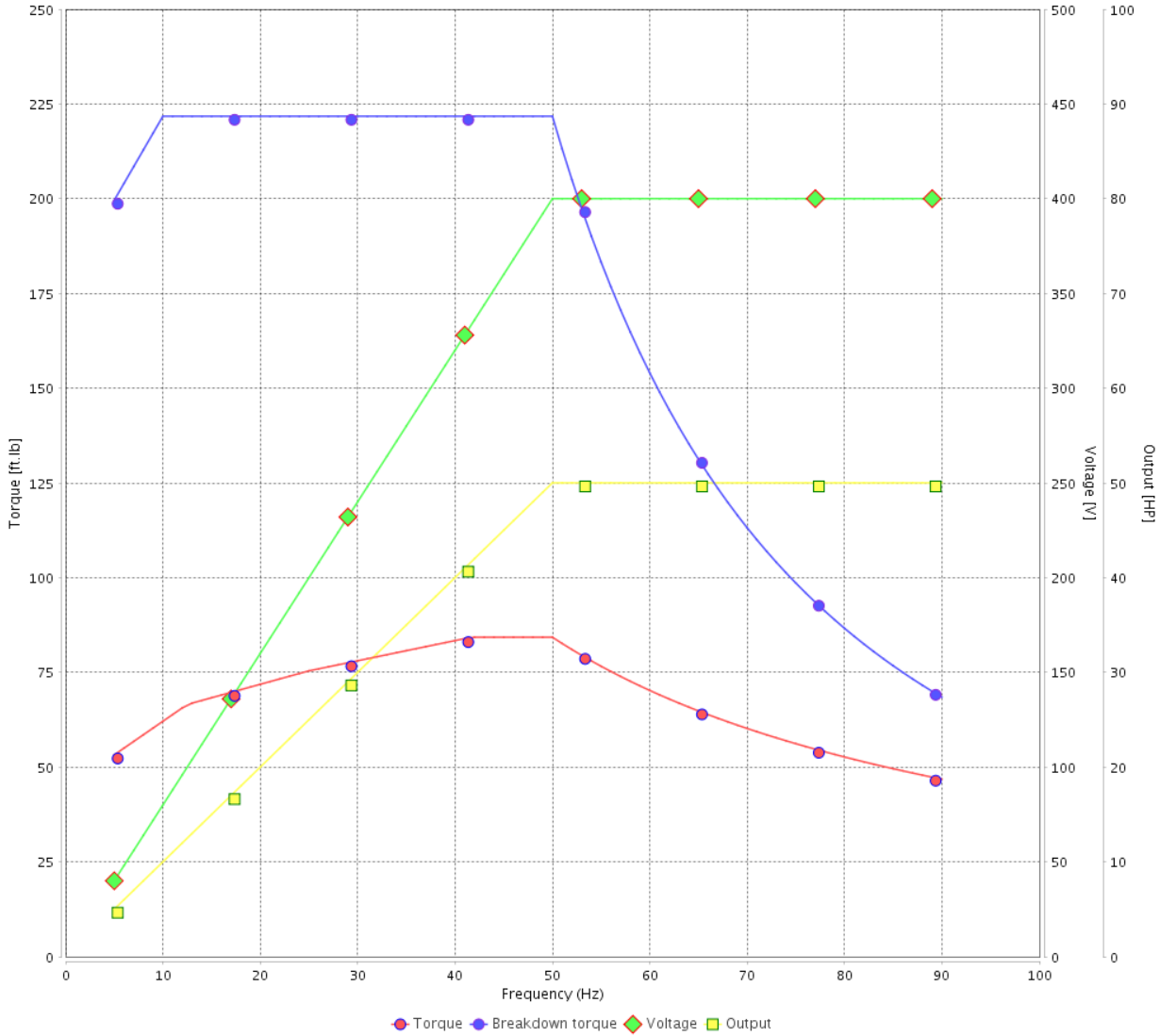
Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 68.7 A  
 LRC : 6.7  
 Rated torque : 88.7 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 250 %  
 Rated speed : 2960 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

| Rev.         | Changes Summary | Performed | Checked         | Date     |
|--------------|-----------------|-----------|-----------------|----------|
|              |                 |           |                 |          |
| Performed by |                 |           | Page<br>20 / 21 | Revision |
| Checked by   |                 |           |                 |          |
| Date         | 13/04/2022      |           |                 |          |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

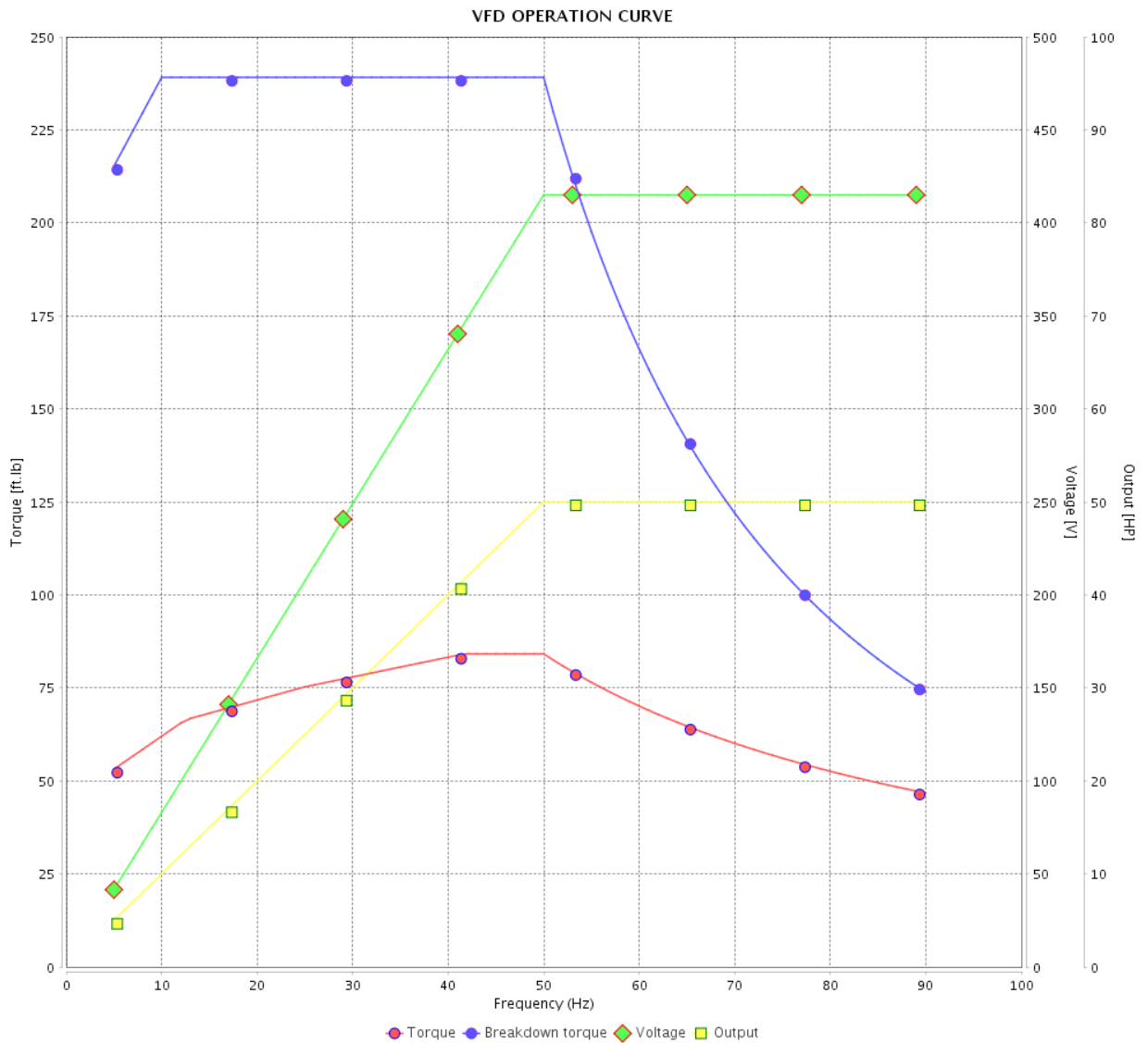


Customer : \_\_\_\_\_

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14504156

Catalog # : 06036OT3E326TS-W40G

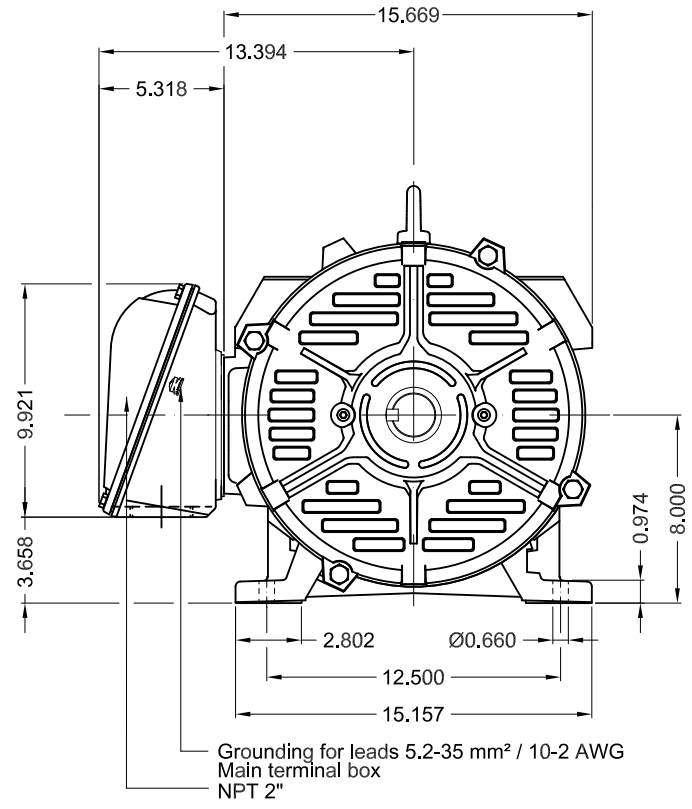


Performance : 415 V 50 Hz 2P IE3

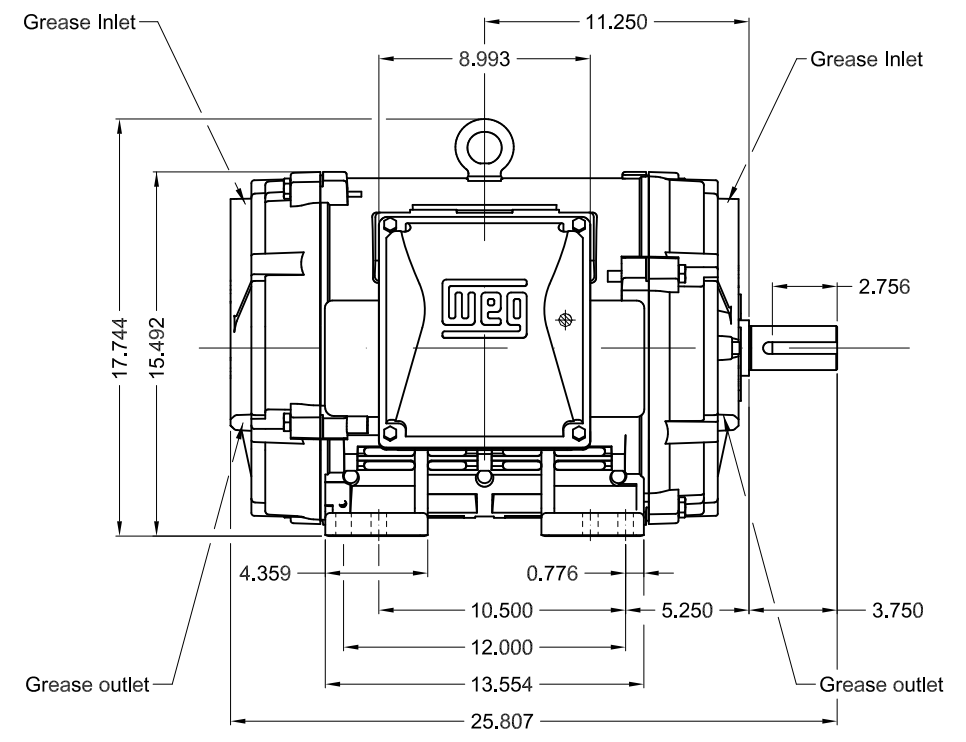
Rated current : 69.5 A  
LRC : 6.8  
Rated torque : 88.6 ft.lb  
Locked rotor torque : 260 %  
Breakdown torque : 270 %  
Rated speed : 2965 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : B

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



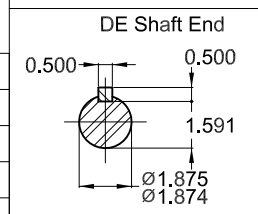
Grounding for leads 5.2-35 mm<sup>2</sup> / 10-2 AWG  
Main terminal box  
NPT 2"



60 HP 02 Poles 60 Hz A

1:8

- Internal AEGIS ground ring on the DE
- Color RAL 5009
- Painting plan 203A
- Mounting NEMA F-1
- Mounting B3R(D)



| ECM      | LOC       | SUMMARY OF MODIFICATIONS                                 | EXECUTED            | CHECKED | RELEASED | DATE  | VER |
|----------|-----------|--|---------------------|---------|----------|-------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR W40 PREM. EFF.<br>FRAME 324/6TS IP23 ODP |                     |         |          |       |     |
| CHECKED  |           |  |                     |         |          |       |     |
| RELEASED |           |  |                     |         |          |       |     |
| REL DT.  |           |  |                     |         |          |       |     |
|          |           | WMO Jaragua do Sul                                       | Product Engineering | SHEET   |          | 1 / 1 |     |

**PREVIEW**  
WDD



**WEG** **W40 NEMA**  
**CC029A Premium**  
*Inverter Duty Motor*



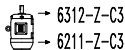
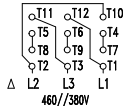
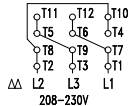
IEC 60034-1  
 MOD.T01#FOXON



For 60Hz use on PWM, VT 1000:1, CT 3:1, 1.0SF

MODEL 060360T3E326TS-W40G  
 MADE IN BRAZIL  
 14504156

|  |                            |                   |              |
|--|----------------------------|-------------------|--------------|
| PH 3   | FR 324/6TS                 | HP(kW) 60.0(45.0) | Hz 60        |
| V 230/460  | A 142/71.0                 | RPM 3560          | DES B        |
| NEMA NOM EFF 93.6 %                                      | INS. CL. F $\Delta$ T 80 K | IP23              |              |
| ENCL ODP   | DUTY CONT.                 | AMB. 40°C         |              |
| CODE G   | PF 0.85                    | SF 1.25           | SFA 178/88.8 |
| USABLE @208V   | 157 A                      | SF 1.15           | SFA 181      |
| 50HP 37kW 50Hz 380V 69.8A 2960RPM SF1.00 EFF 93.7% (IE3) | ALT 1000 m.a.s.l.          |                   |              |



MOBIL POLYREX EM  
 21 g 19658 h

ALT 1000 m.a.s.l. 461 Lbs