

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |                         |  |  |                         |          |
|--|-------------------------|--|--|-------------------------|----------|
| Customer :   |                         |  |  |                         |          |
| Product line   |                         | : W40 NEMA Premium Efficiency<br>Three-Phase |  | Product code : 14446703 |          |
|  |                         |  | Catalog # :  | 02036OT3E254T-W40       |          |
| Frame : 254T   |                         | 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> : 207 lb         |  |                         |          |
| Protection degree : IP23   |                         | Moment of inertia (J) : 0.8718 sq.ft.lb      |  |                         |          |
| Design : B   |                         |  |  |                         |          |
| Output [HP]  | 20                      | 15   | 15   | 15                      |          |
| Poles  | 2                       | 2  | 2  | 2                       |          |
| Frequency [Hz]   | 60                      | 50   | 50   | 50                      |          |
| Rated voltage [V]  | 230/460                 | 380  | 400  | 415                     |          |
| Rated current [A]  | 48.6/24.3               | 21.6   | 21.2   | 21.5                    |          |
| L. R. Amperes [A]  | 306/153                 | 147  | 142  | 148                     |          |
| LRC [A]  | 6.3x(Code G)            | 6.8x(Code H)                                 | 6.7x(Code H)   | 6.9x(Code J)            |          |
| No load current [A]  | 16.8/8.40               | 8.00   | 9.30   | 10.3                    |          |
| Rated speed [RPM]  | 3535                    | 2945   | 2950   | 2955                    |          |
| Slip [%]   | 1.81                    | 1.83   | 1.67   | 1.50                    |          |
| Rated torque [ft.lb]   | 29.7                    | 26.7   | 26.7   | 26.7                    |          |
| Locked rotor torque [%]  | 200                     | 200  | 220  | 229                     |          |
| Breakdown torque [%]   | 280                     | 290  | 320  | 350                     |          |
| Service factor   | 1.25                    | 1.00   | 1.00   | 1.00                    |          |
| Temperature rise   | 80 K                    | 80 K   | 80 K   | 80 K                    |          |
| Locked rotor time  | 21s (cold) 12s (hot)    | 18s (cold) 10s (hot)                         | 19s (cold) 11s (hot)   | 19s (cold) 11s (hot)    |          |
| Noise level <sup>2</sup>   |                         |  |  |                         |          |
| Efficiency (%)   | 25%                     | 90.0   | 85.6   | 85.8                    | 85.9     |
|  | 50%                     | 90.2   | 88.0   | 88.1                    | 88.2     |
|  | 75%                     | 91.0   | 88.5   | 88.6                    | 88.7     |
|  | 100%                    | 91.0   | 91.2   | 91.2                    | 91.2     |
| Power Factor   | 25%                     | 0.48   | 0.46   | 0.39                    | 0.35     |
|  | 50%                     | 0.72   | 0.69   | 0.62                    | 0.57     |
|  | 75%                     | 0.82   | 0.80   | 0.75                    | 0.70     |
|  | 100%                    | 0.85   | 0.85   | 0.82                    | 0.78     |
| Bearing type   | : Drive end : 6309 Z C3 | : Non drive end : 6209 Z C3                  | Foundation loads   |                         |          |
| Sealing  | : Without               | : Without                                    | Max. traction  |                         |          |
|  | : Bearing Seal          | : Bearing Seal                               | Max. compression   |                         |          |
| Lubrication interval   | : 20000 h               | : 20000 h                                    |  |                         |          |
| Lubricant amount   | : 13 g                  | : 9 g  |  |                         |          |
| Lubricant type   | : Mobil Polyrex EM      |  |  |                         |          |
| Notes  |                         |  |  |                         |          |
| USABLE @208V 53.7A SF 1.15 SFA 61.8A   |                         |  |  |                         |          |
| 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



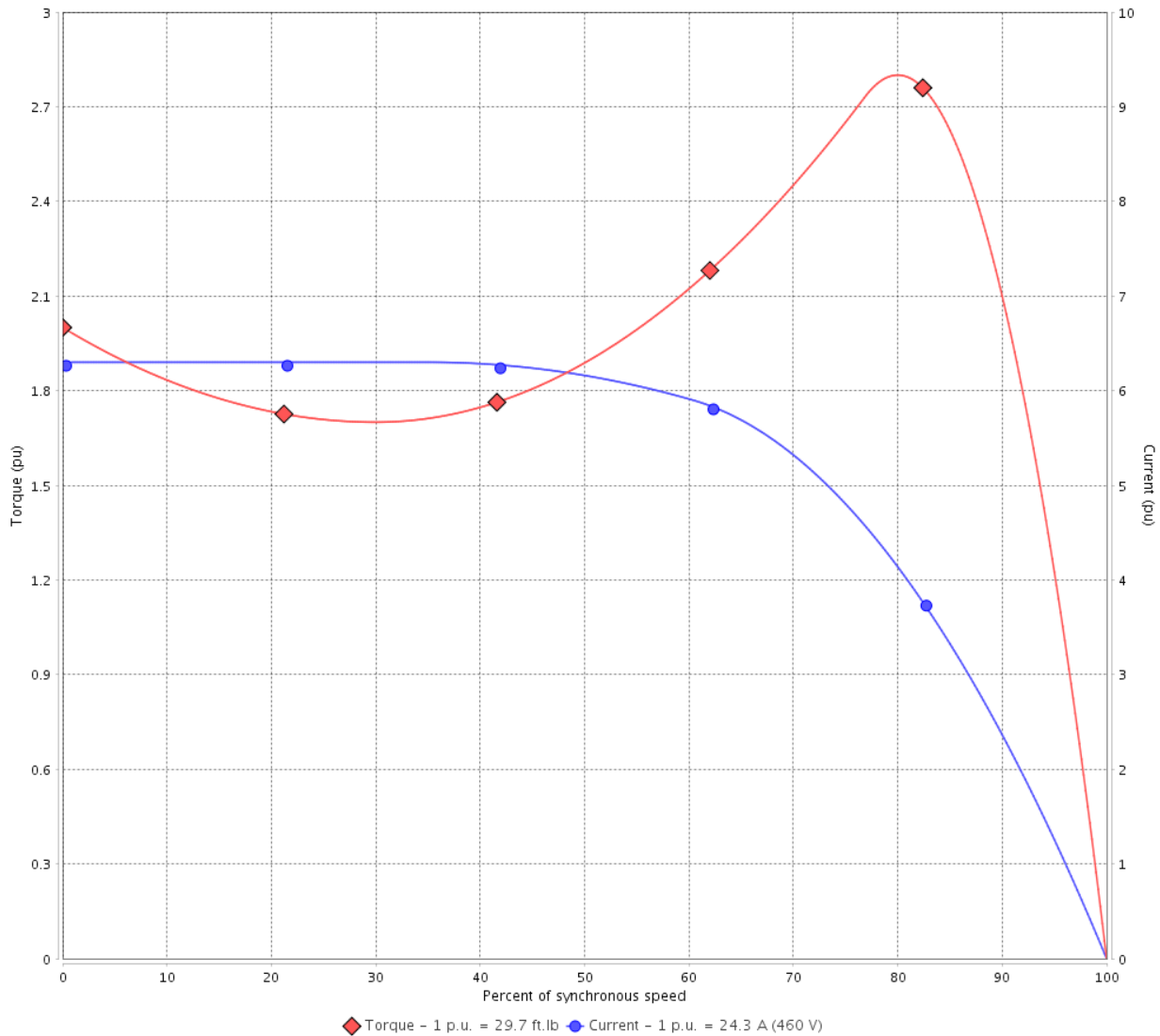
Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14446703

Catalog # : 02036OT3E254T-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 48.6/24.3 A  
LRC : 6.3  
Rated torque : 29.7 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 280 %  
Rated speed : 3535 rpm

Moment of inertia (J) : 0.8718 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Locked rotor time : 21s (cold) 12s (hot)

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



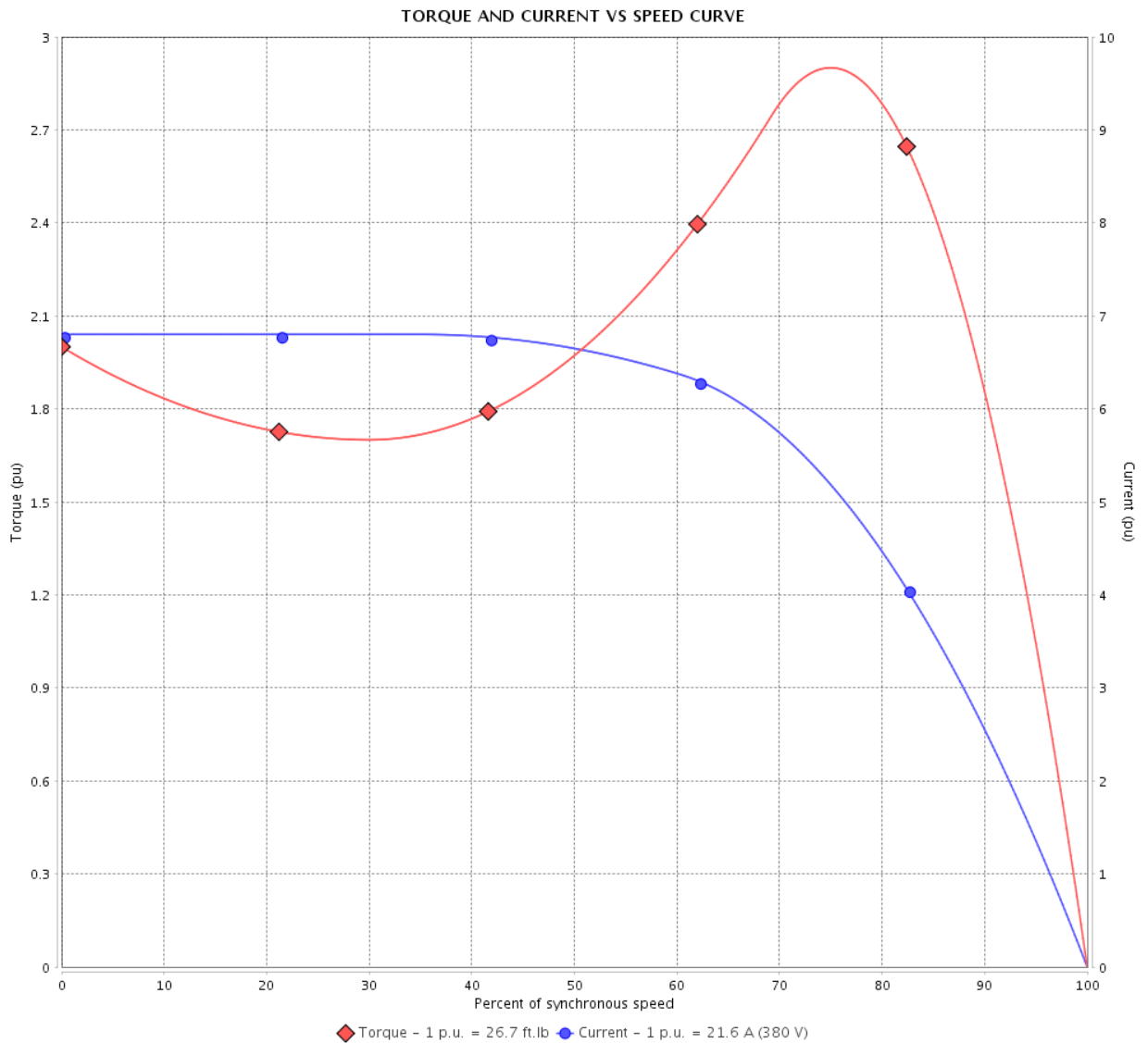
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14446703

Catalog # : 02036OT3E254T-W40



Performance : 380 V 50 Hz 2P IE3

|                     |              |                       |                   |
|---------------------|--------------|-----------------------|-------------------|
| Rated current       | : 21.6 A     | Moment of inertia (J) | : 0.8718 sq.ft.lb |
| LRC                 | : 6.8        | Duty cycle            | : Cont.(S1)       |
| Rated torque        | : 26.7 ft.lb | Insulation class      | : F               |
| Locked rotor torque | : 200 %      | Service factor        | : 1.00            |
| Breakdown torque    | : 290 %      | Temperature rise      | : 80 K            |
| Rated speed         | : 2945 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



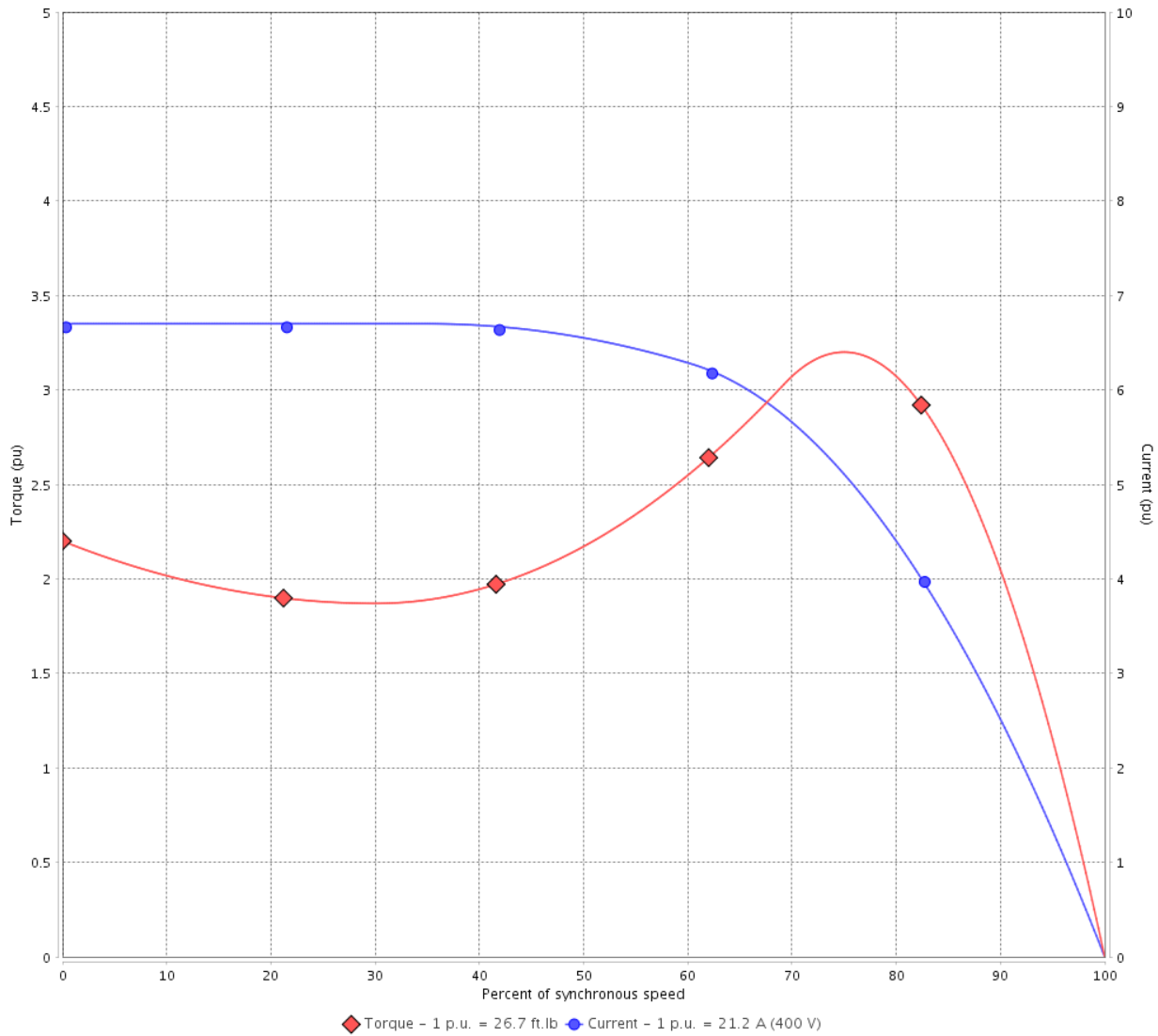
Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14446703

Catalog # : 02036OT3E254T-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

|                     |              |                       |                   |
|---------------------|--------------|-----------------------|-------------------|
| Rated current       | : 21.2 A     | Moment of inertia (J) | : 0.8718 sq.ft.lb |
| LRC                 | : 6.7        | Duty cycle            | : Cont.(S1)       |
| Rated torque        | : 26.7 ft.lb | Insulation class      | : F               |
| Locked rotor torque | : 220 %      | Service factor        | : 1.00            |
| Breakdown torque    | : 320 %      | Temperature rise      | : 80 K            |
| Rated speed         | : 2950 rpm   | Design                | : B               |

Locked rotor time : 19s (cold) 11s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



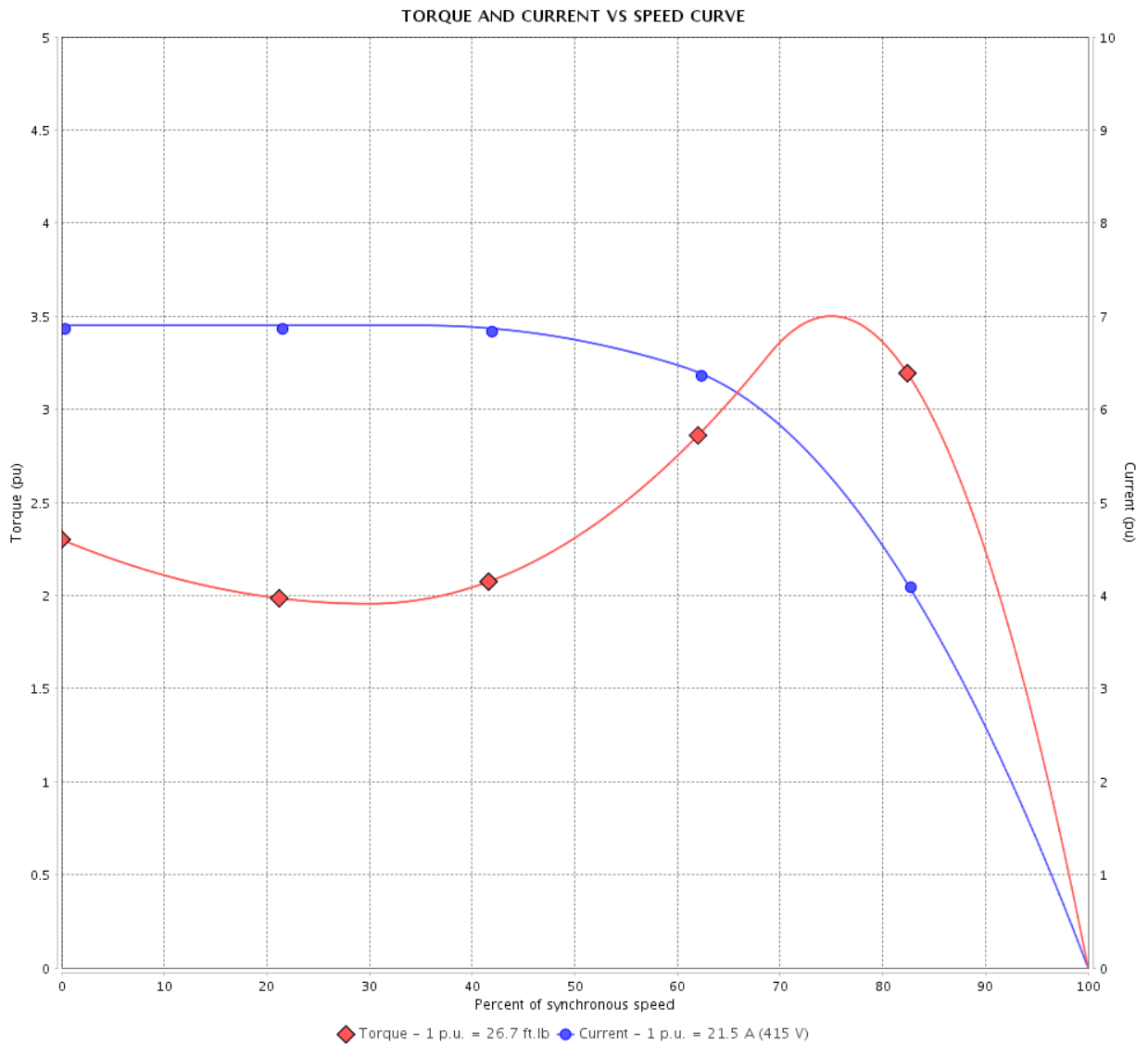
## Three Phase Induction Motor - Squirrel Cage

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Three-Phase

Product code : 14446703

Catalog # : 02036OT3E254T-W40



Performance : 415 V 50 Hz 2P IE3

|                     |              |                       |                   |
|---------------------|--------------|-----------------------|-------------------|
| Rated current       | : 21.5 A     | Moment of inertia (J) | : 0.8718 sq.ft.lb |
| LRC                 | : 6.9        | Duty cycle            | : Cont.(S1)       |
| Rated torque        | : 26.7 ft.lb | Insulation class      | : F               |
| Locked rotor torque | : 229 %      | Service factor        | : 1.00            |
| Breakdown torque    | : 350 %      | Temperature rise      | : 80 K            |
| Rated speed         | : 2955 rpm   | Design                | : B               |

Locked rotor time : 19s (cold) 11s (hot)

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



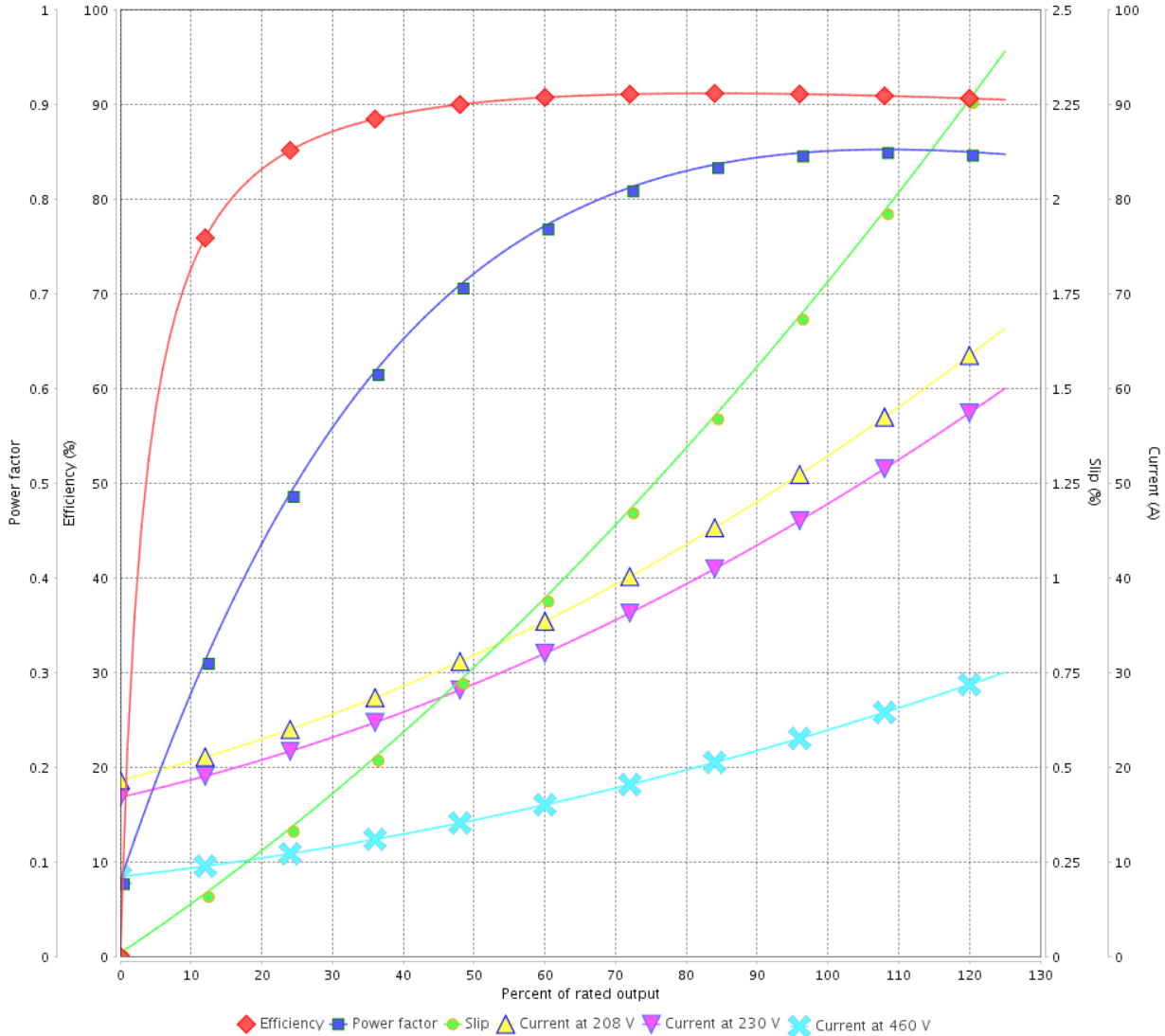
Customer : \_\_\_\_\_

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14446703

Catalog # : 02036OT3E254T-W40

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 48.6/24.3 A  
 LRC : 6.3  
 Rated torque : 29.7 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 280 %  
 Rated speed : 3535 rpm

Moment of inertia (J) : 0.8718 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

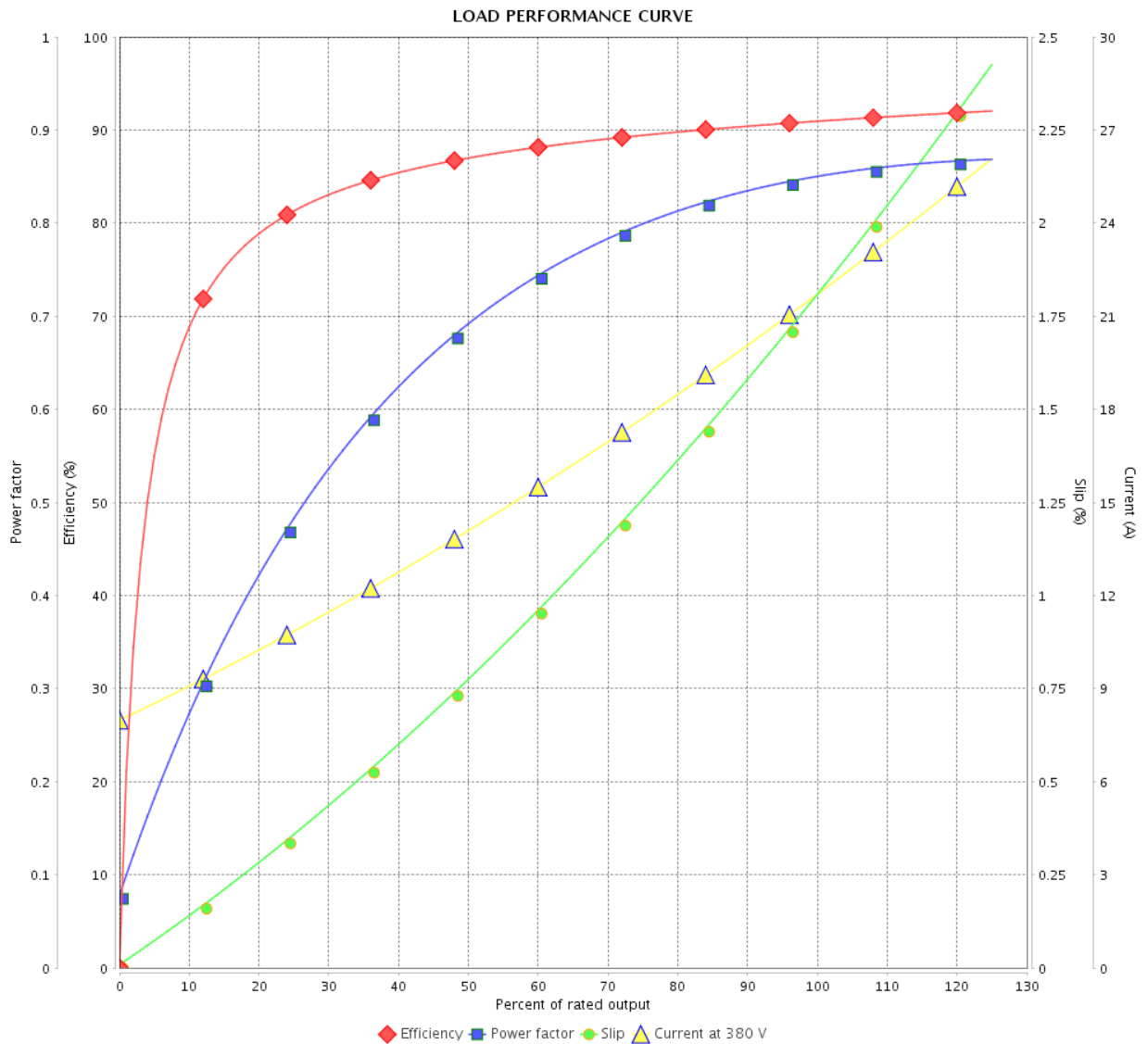


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14446703

Catalog # : 02036OT3E254T-W40



Performance : 380 V 50 Hz 2P IE3

Rated current : 21.6 A  
 LRC : 6.8  
 Rated torque : 26.7 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 290 %  
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.8718 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



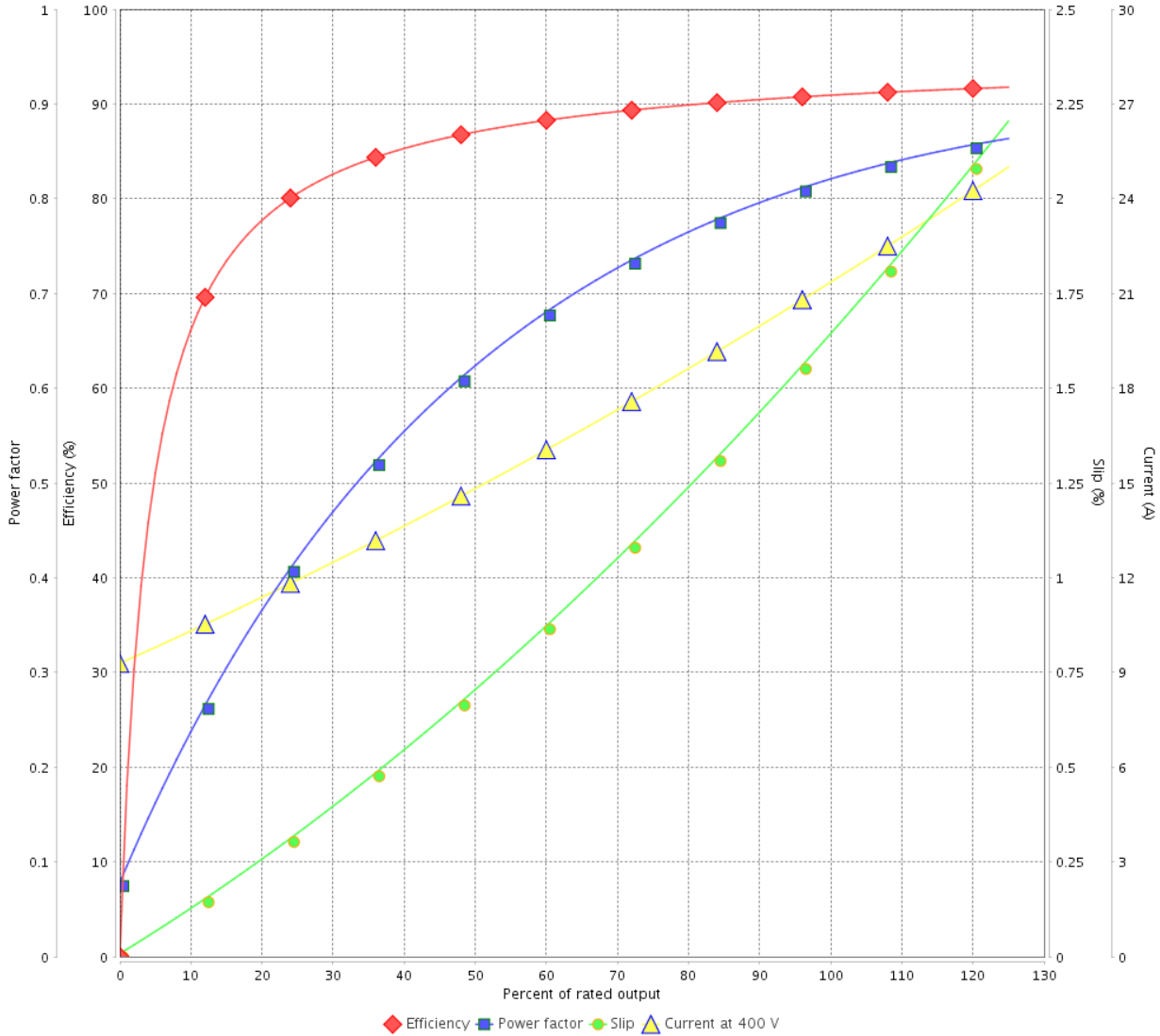
Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14446703

Catalog # : 02036OT3E254T-W40

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 21.2 A  
 LRC : 6.7  
 Rated torque : 26.7 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 320 %  
 Rated speed : 2950 rpm

Moment of inertia (J) : 0.8718 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

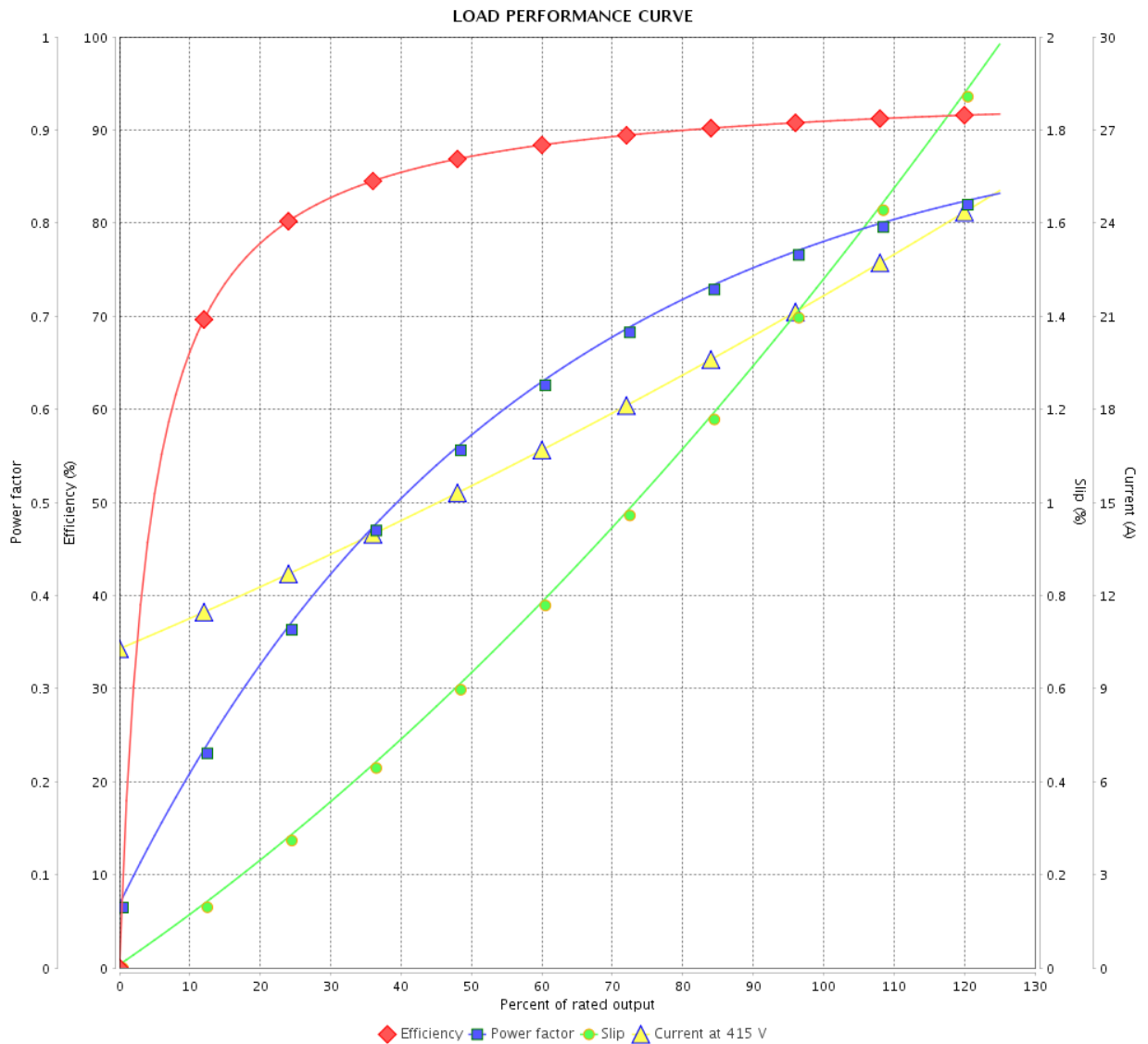


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14446703

Catalog # : 02036OT3E254T-W40



Performance : 415 V 50 Hz 2P IE3

Rated current : 21.5 A  
 LRC : 6.9  
 Rated torque : 26.7 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 350 %  
 Rated speed : 2955 rpm

Moment of inertia (J) : 0.8718 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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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14446703

Catalog # : 02036OT3E254T-W40

Performance : 230/460 V 60 Hz 2P

Rated current : 48.6/24.3 A  
LRC : 6.3  
Rated torque : 29.7 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 280 %  
Rated speed : 3535 rpm

Moment of inertia (J) : 0.8718 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

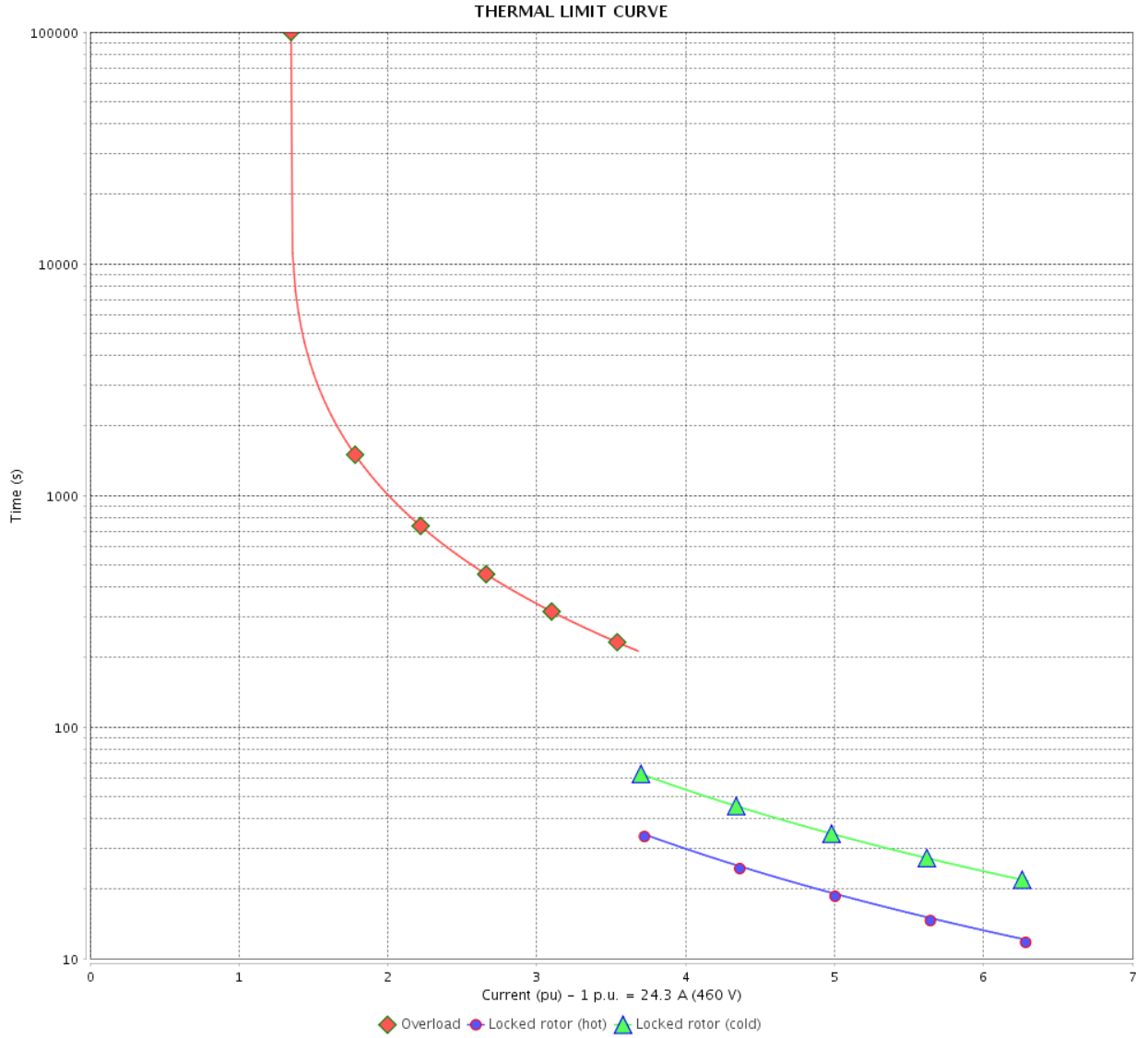
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# THERMAL LIMIT CURVE

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 : 14446703

Catalog # : 02036OT3E254T-W40

Performance : 380 V 50 Hz 2P IE3

Rated current : 21.6 A  
LRC : 6.8  
Rated torque : 26.7 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 290 %  
Rated speed : 2945 rpm

Moment of inertia (J) : 0.8718 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

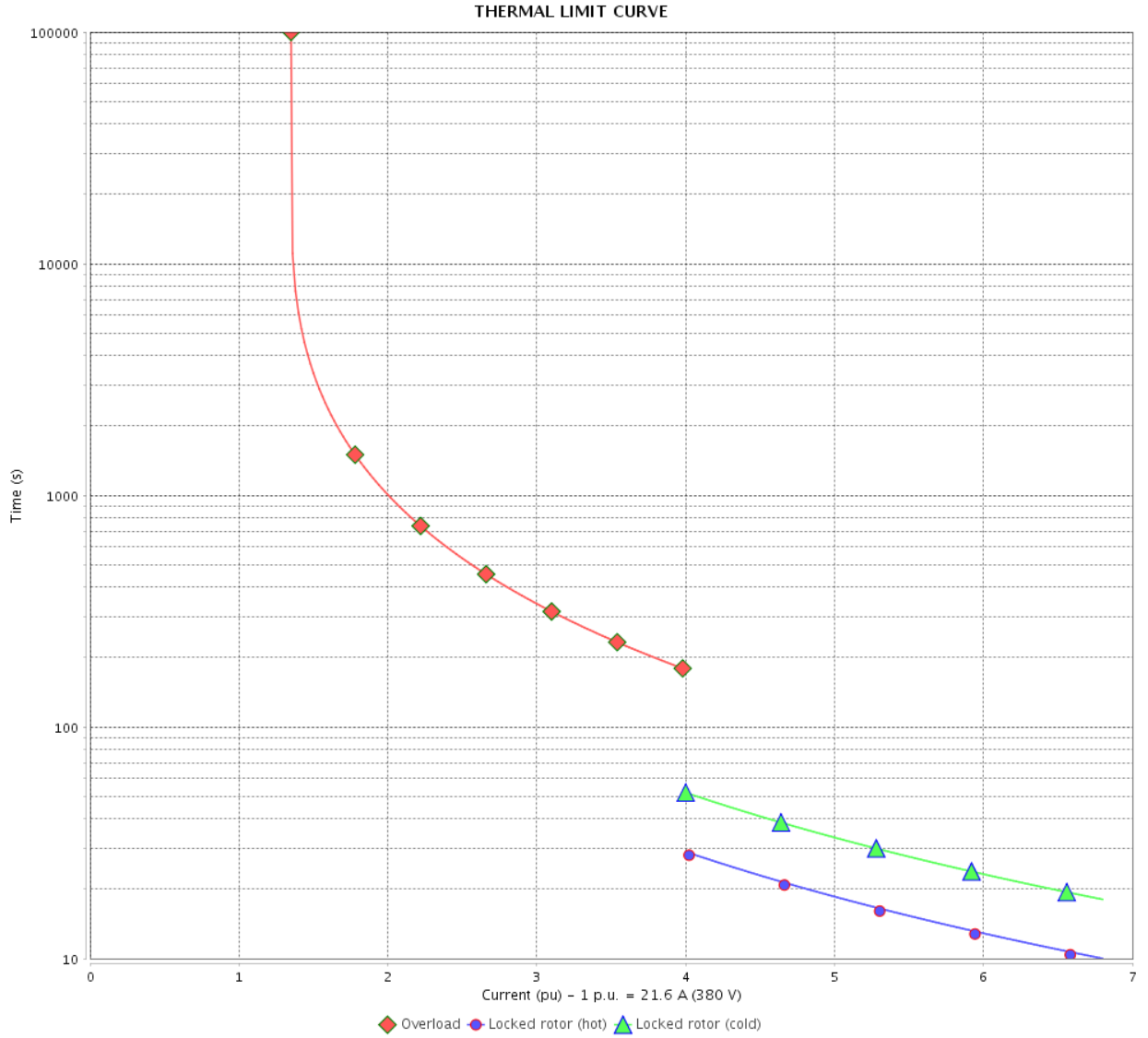
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# THERMAL LIMIT CURVE

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 : 14446703  
 Catalog # : 02036OT3E254T-W40

Performance : 400 V 50 Hz 2P IE3

|                             |   |
|-----------------------------|---|
| Rated current : 21.2 A      | Moment of inertia (J) : 0.8718 sq.ft.lb |
| LRC : 6.7                   | Duty cycle : Cont.(S1)                  |
| Rated torque : 26.7 ft.lb   | Insulation class : F                    |
| Locked rotor torque : 220 % | Service factor : 1.00                   |
| Breakdown torque : 320 %    | Temperature rise : 80 K                 |
| Rated speed : 2950 rpm      | Design : B                              |

Heating constant

Cooling constant

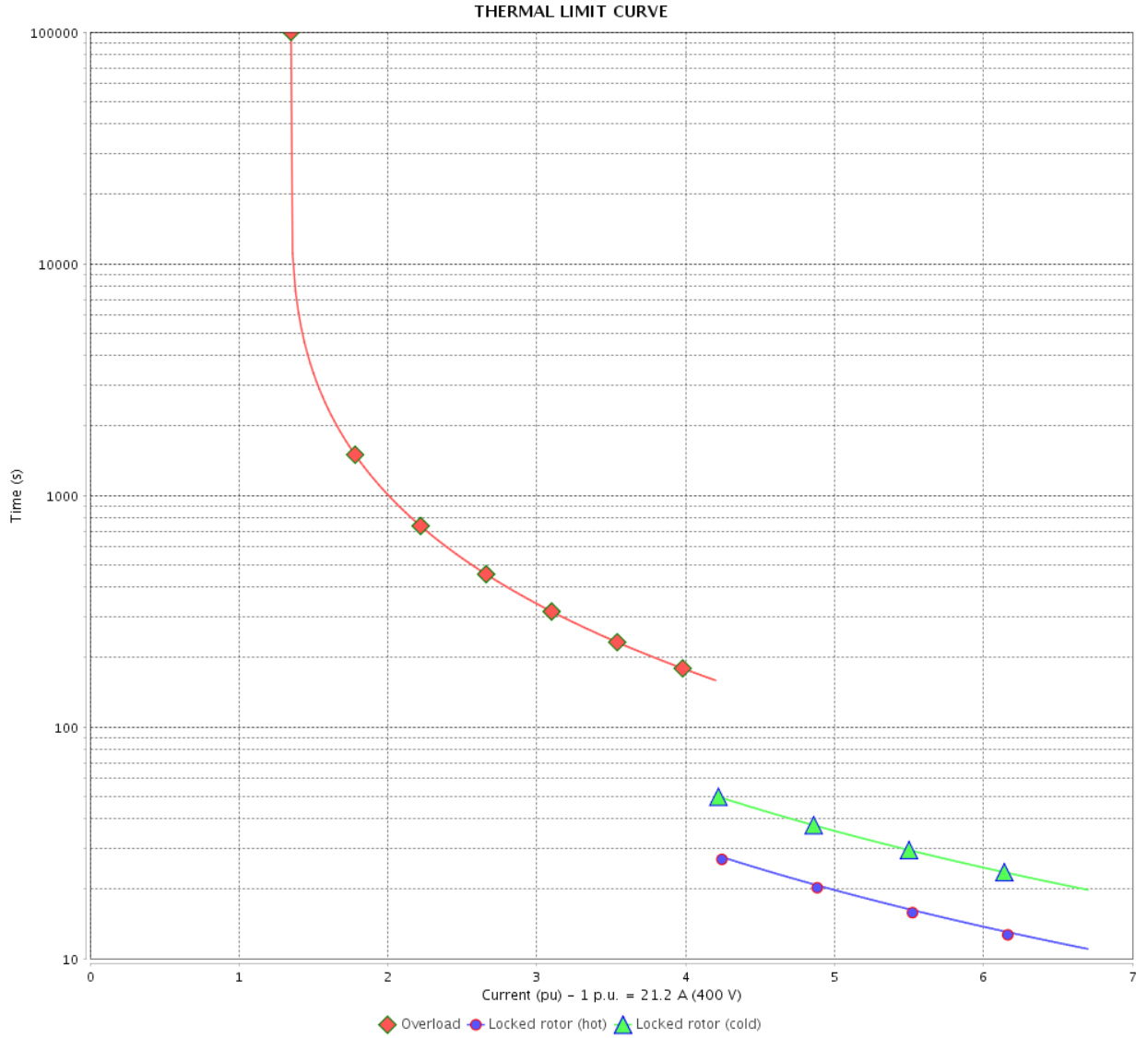
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# THERMAL LIMIT CURVE

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



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## Three Phase Induction Motor - Squirrel Cage

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Catalog # : 02036OT3E254T-W40

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Rated current : 21.5 A  
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Breakdown torque : 350 %  
Rated speed : 2955 rpm

Moment of inertia (J) : 0.8718 sq.ft.lb  
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| Rev.         | Changes Summary | Performed | Checked | Date     |
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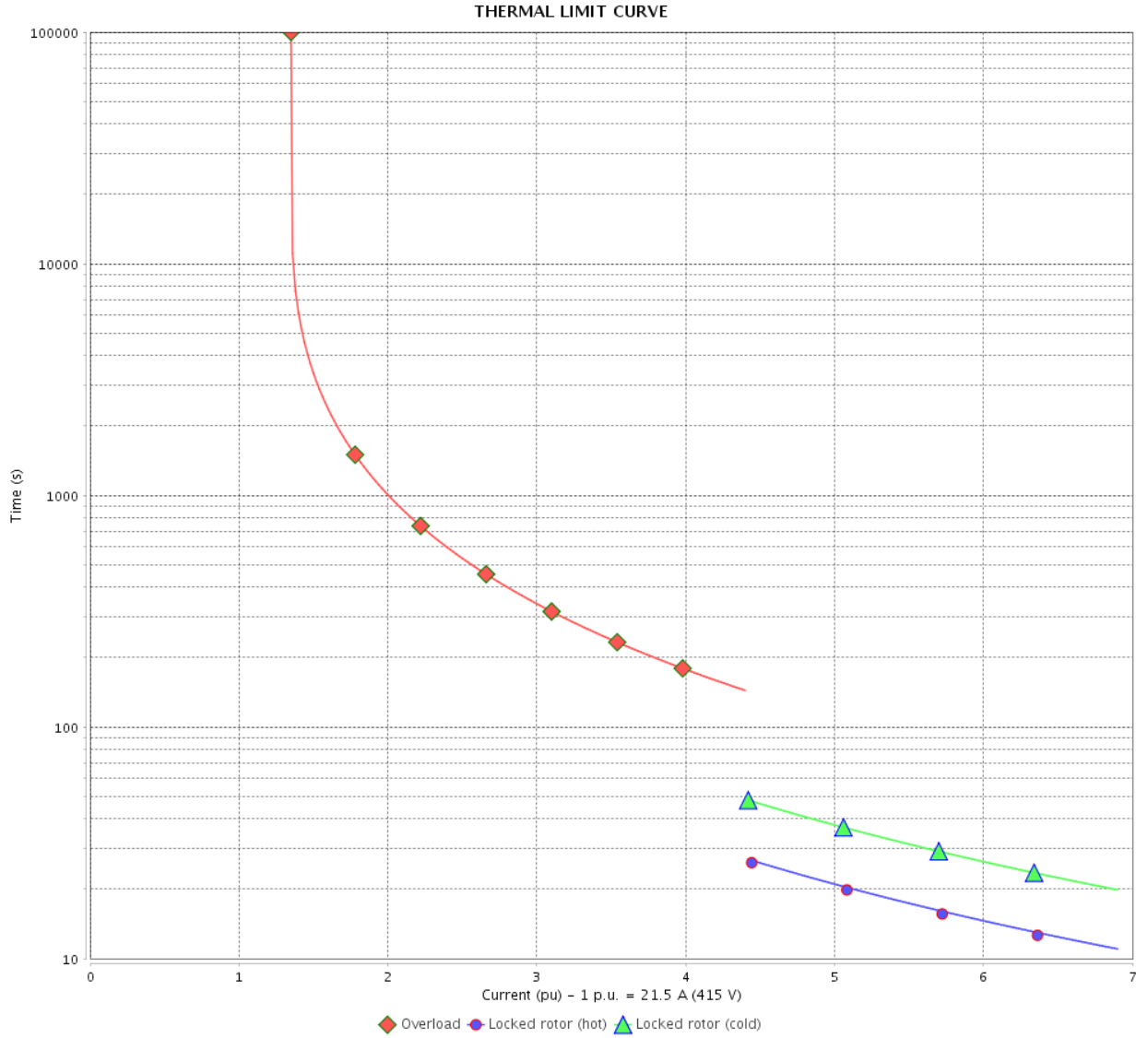


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| Rev.         | Changes Summary | Performed  | Checked | Date     |
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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



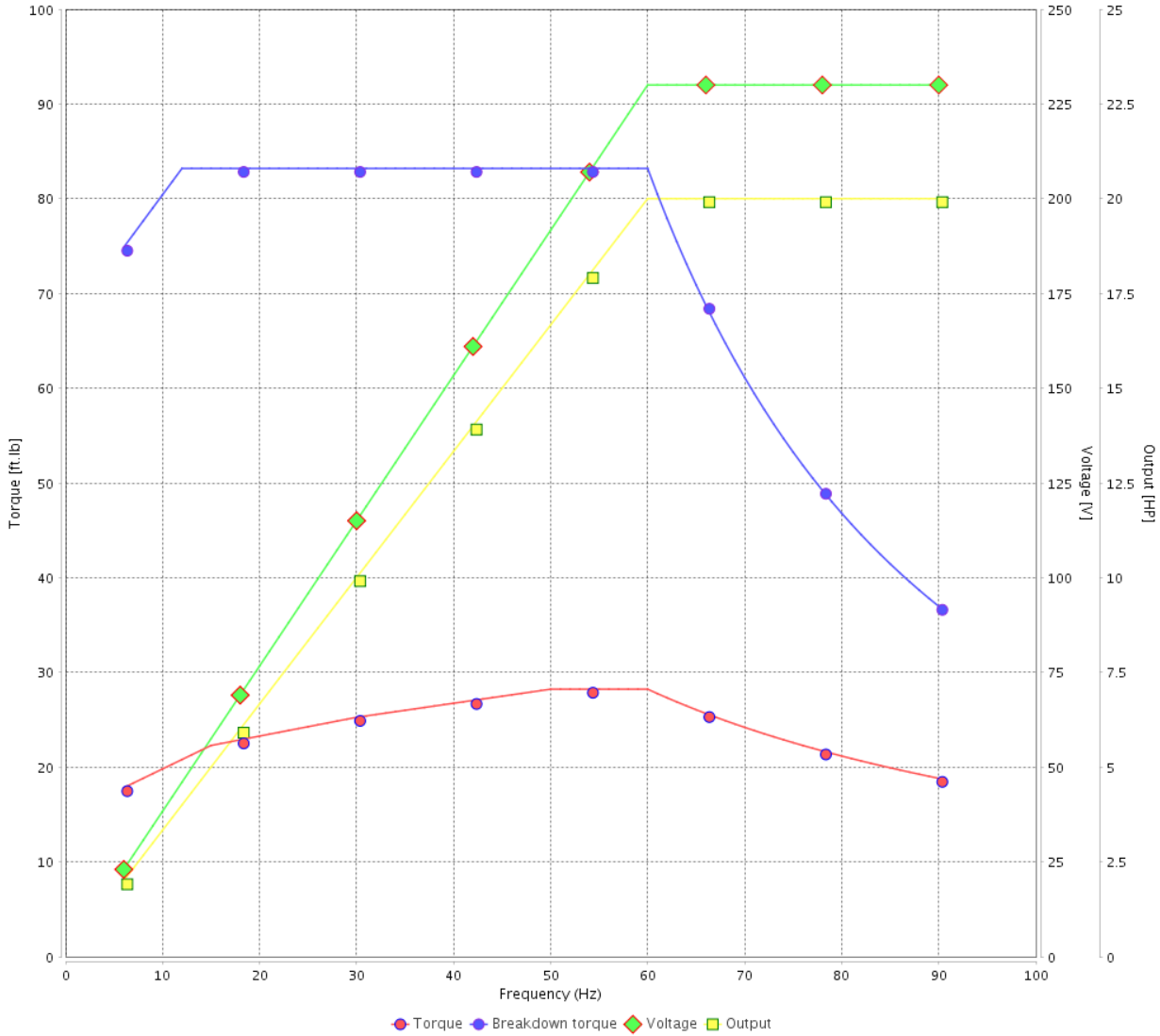
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VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 2P

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 Breakdown torque : 280 %  
 Rated speed : 3535 rpm

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 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

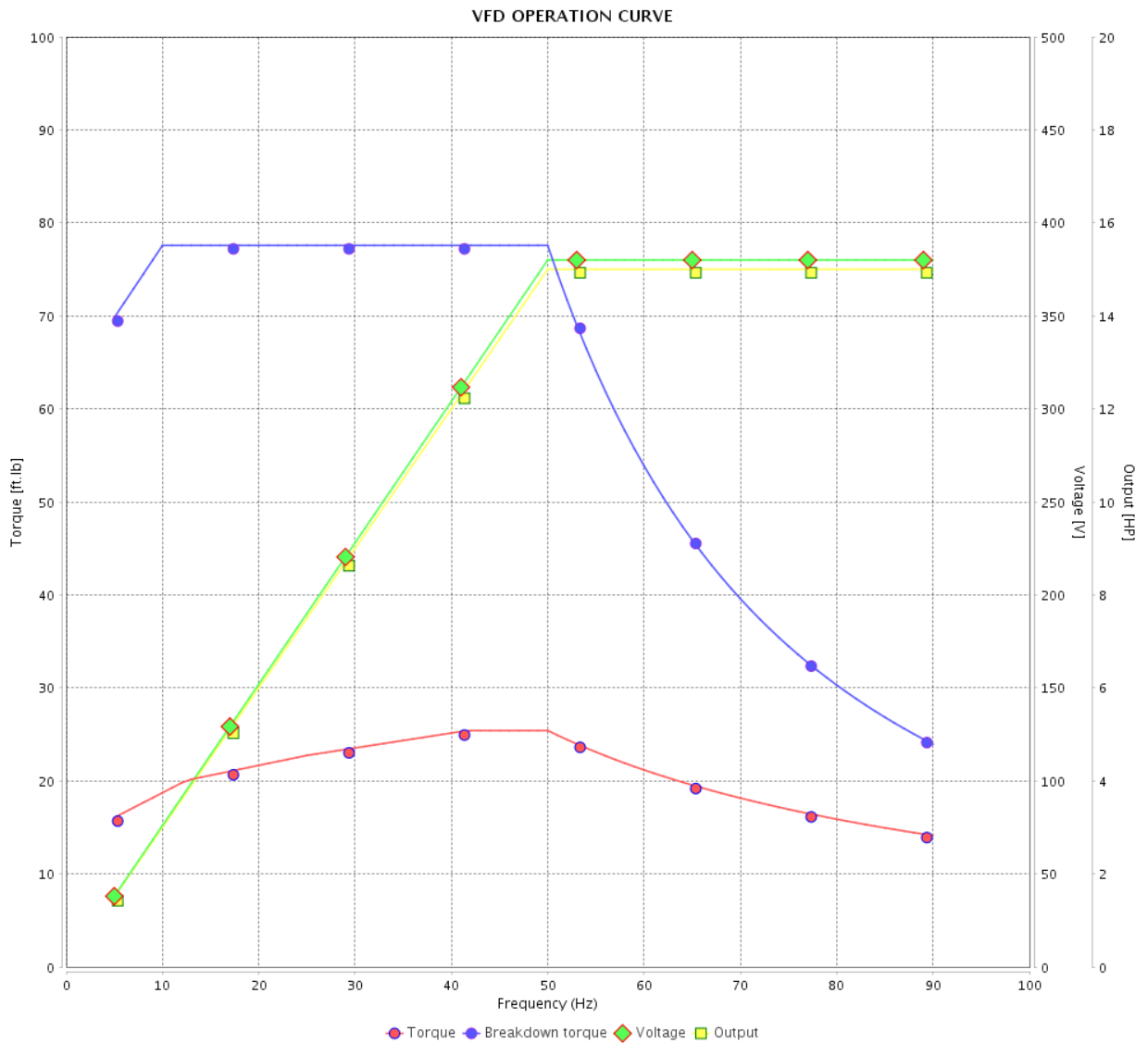


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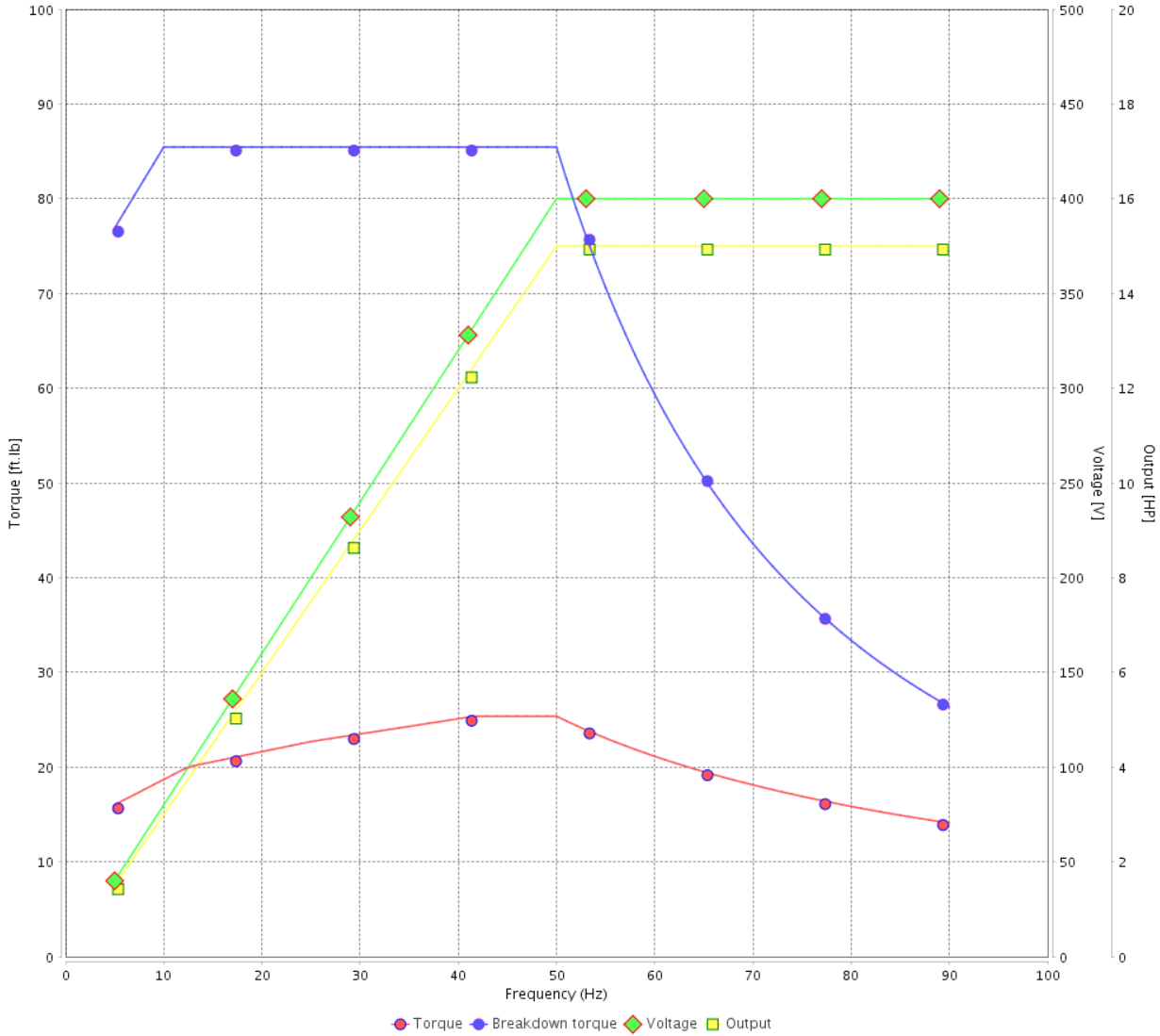
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 Breakdown torque : 320 %  
 Rated speed : 2950 rpm

Moment of inertia (J) : 0.8718 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         | 14/04/2022      |           |                 |          |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

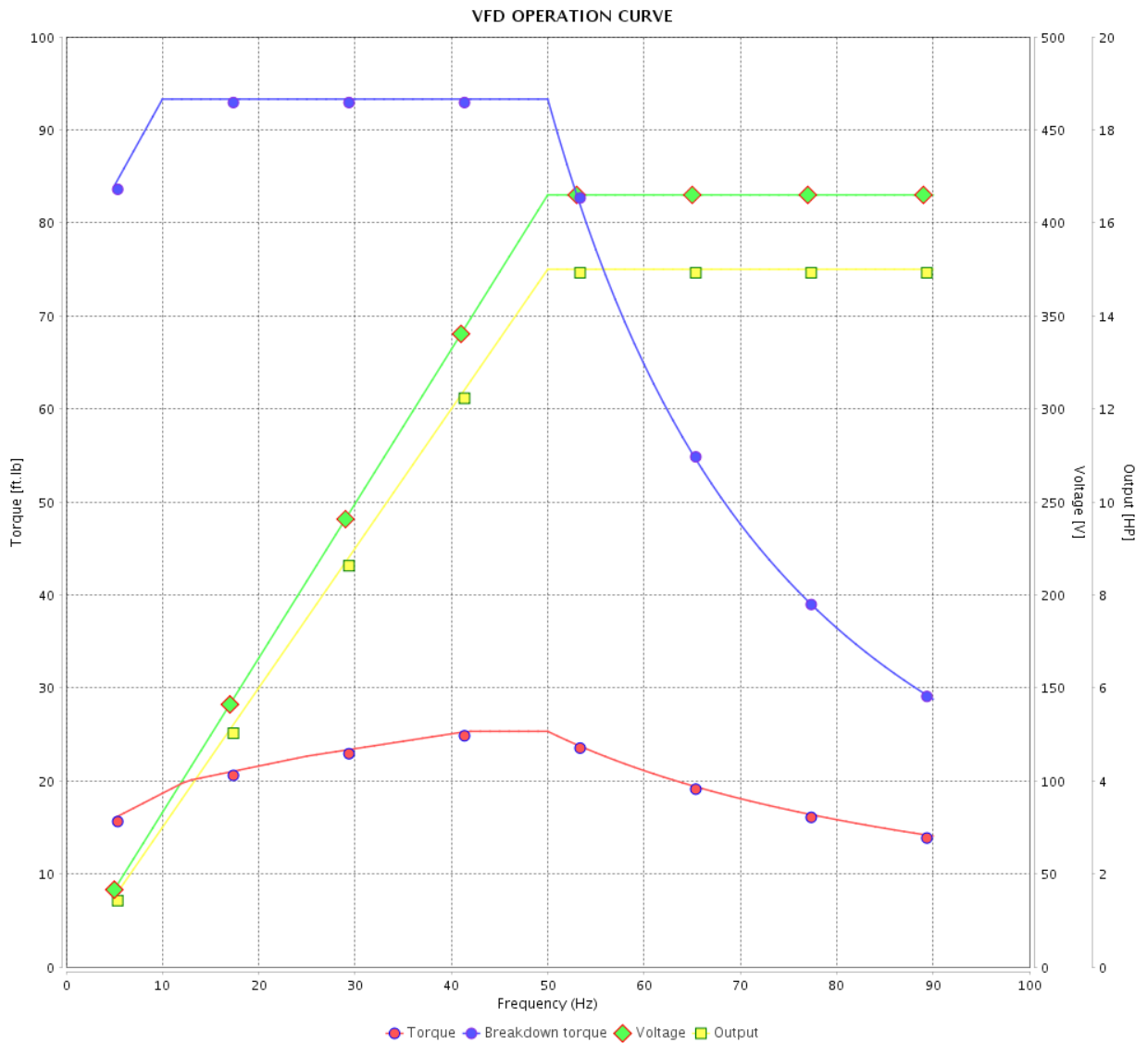


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14446703

Catalog # : 02036OT3E254T-W40

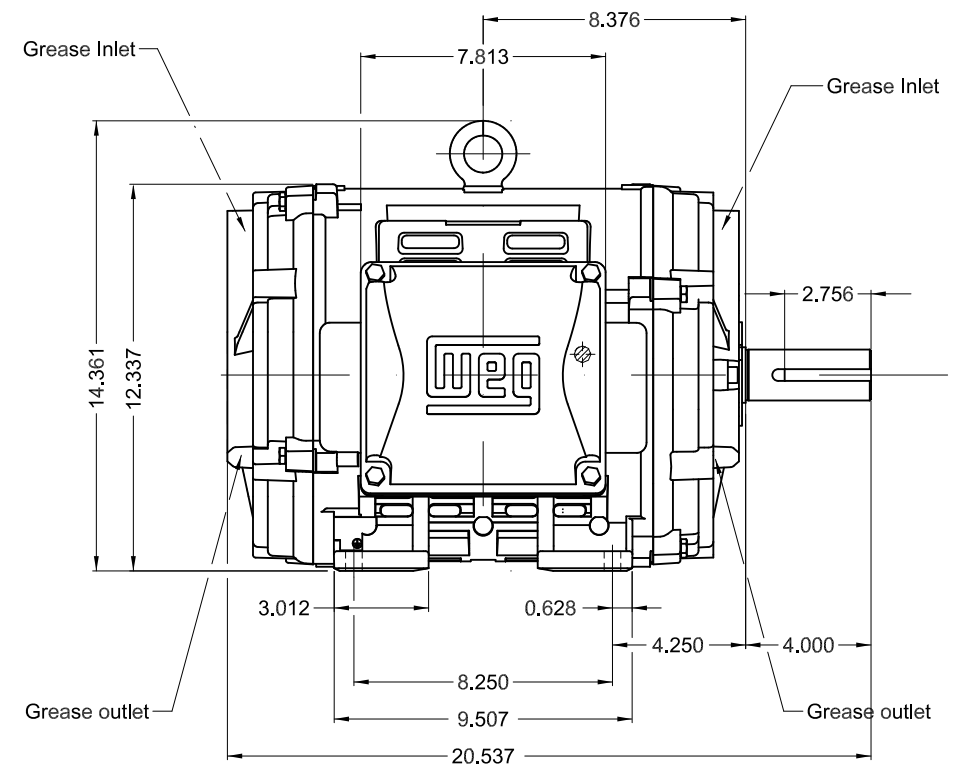
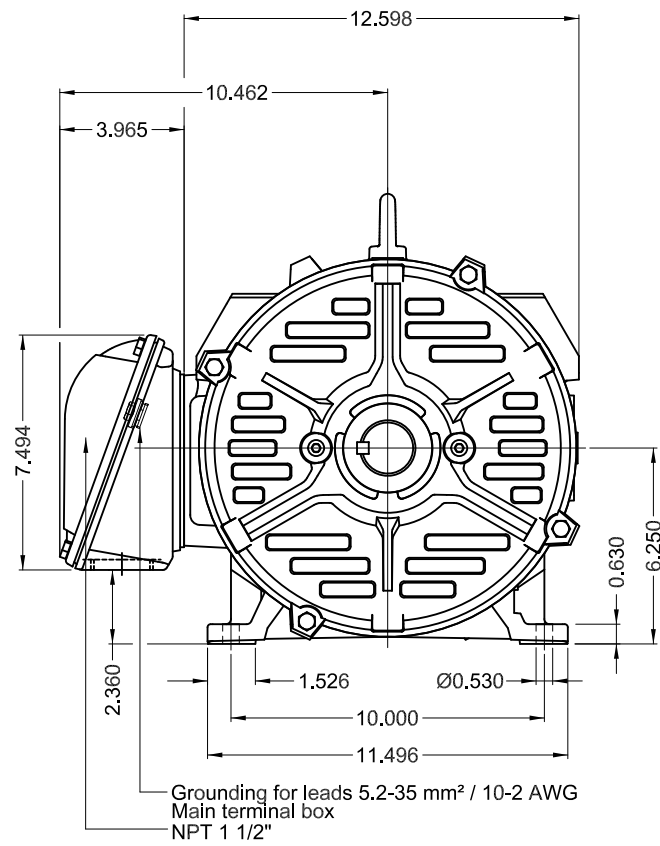


Performance : 415 V 50 Hz 2P IE3

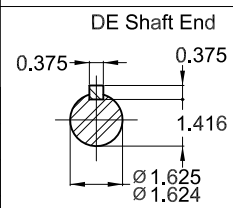
Rated current : 21.5 A  
 LRC : 6.9  
 Rated torque : 26.7 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 350 %  
 Rated speed : 2955 rpm

Moment of inertia (J) : 0.8718 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         | 14/04/2022      |           |         |                 |



Color RAL 5009  
Painting plan 203A  
Mounting NEMA F-1  
Mounting B3R(D)



20 HP 02 Poles 60 Hz

A

1:6

| ECM      | LOC       | SUMMARY OF MODIFICATIONS       | EXECUTED            | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--------------------------------|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR W40 PREM. EFF. |                     |         |          |      |     |
| CHECKED  |           | FRAME 254T IP23 ODP            |                     |         |          |      |     |
| RELEASED |           |                                |                     |         |          |      |     |
| REL DT.  |           | WMO Jaragua do Sul             | Product Engineering | SHEET   | 1 / 1    |      |     |

**PREVIEW**  
WDD



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



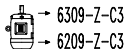
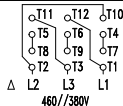
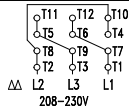
IEC 60034-1  
 MOD.T01#FOXON



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

MODEL 020360T3E254T-W40  
 MADE IN BRAZIL  
 14446703

|  |         |                    |               |           |          |
|--|---------|--------------------|---------------|-----------|----------|
| PH 3   | FR 254T | HP(kW) 20.0(15.0)  |               | Hz 60     |          |
| V 230/460  |         | A 48.6/24.3        |               | RPM 3535  | DES B    |
| NEMA NOM EFF 91.0 %                                      |         | INS. CL. F ΔT 80 K |               | IP23      |          |
| ENCL ODP   |         | DUTY CONT.         |               | AMB. 40°C |          |
| CODE G   | PF 0.85 | SF 1.25            | SFA 60.8/30.4 |           |          |
| USABLE @208V 53.7 A                                      |         | SF 1.15            | SFA 61.8      |           |          |
| 15HP 11kW 50Hz 380V 21.6A 2945RPM SF1.00 EFF 91.2% (IE3) |         |                    |               | ALT 1000  | m.a.s.l. |



MOBIL POLYREX EM  
 13 g 20000 h

ALT 1000 m.a.s.l. 216 Lbs