

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |   |  |                      |                     |
|--|---|--|----------------------|---------------------|
| Customer :   |   |  |                      |                     |
| Product line   |   | : W40 JM Pump NEMA Premium Efficiency Three-Phase  | Product code :       | 14484577            |
|  |   |  | Catalog # :          | 02536OT3E256JM-W40  |
| Frame  | : 254/6JM   | 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>  | : 243 lb             |                     |
| Protection degree  | : IP23  | Moment of inertia (J)  | : 1.13 sq.ft.lb      |                     |
| Design   | : B   |  |                      |                     |
| Output [HP]  | 25  | 20   | 20                   | 20                  |
| Poles  | 2   | 2  | 2                    | 2                   |
| Frequency [Hz]   | 60  | 50   | 50                   | 50                  |
| Rated voltage [V]  | 230/460   | 380  | 400                  | 415                 |
| Rated current [A]  | 57.6/28.8   | 28.2   | 27.4                 | 27.0                |
| L. R. Amperes [A]  | 374/187   | 192  | 186                  | 200                 |
| LRC [A]  | 6.5x(Code G)  | 6.8x(Code H)   | 6.8x(Code H)         | 7.4x(Code J)        |
| No load current [A]  | 17.0/8.50   | 8.20   | 9.10                 | 10.0                |
| Rated speed [RPM]  | 3535  | 2935   | 2945                 | 2950                |
| Slip [%]   | 1.81  | 2.17   | 1.83                 | 1.67                |
| Rated torque [ft.lb]   | 37.1  | 35.8   | 35.7                 | 35.6                |
| Locked rotor torque [%]  | 200   | 200  | 220                  | 229                 |
| Breakdown torque [%]   | 280   | 260  | 300                  | 320                 |
| Service factor   | 1.25  | 1.00   | 1.00                 | 1.00                |
| Temperature rise   | 80 K  | 80 K   | 80 K                 | 80 K                |
| Locked rotor time  | 19s (cold) 11s (hot)  | 14s (cold) 8s (hot)  | 18s (cold) 10s (hot) | 14s (cold) 8s (hot) |
| Noise level <sup>2</sup>   |   |  |                      |                     |
| Efficiency (%)   | 25%   | 90.8   | 87.6                 | 87.9                |
|  | 50%   | 91.0   | 89.5                 | 89.6                |
|  | 75%   | 91.7   | 89.9                 | 90.1                |
|  | 100%  | 91.7   | 91.9                 | 91.9                |
| Power Factor   | 25%   | 0.53   | 0.54                 | 0.49                |
|  | 50%   | 0.77   | 0.77                 | 0.73                |
|  | 75%   | 0.85   | 0.85                 | 0.82                |
|  | 100%  | 0.88   | 0.88                 | 0.86                |
| Bearing type   | : <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 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<br>USABLE @208V 63.7A SF 1.15 SFA 73.2A  |   |  |                      |                     |
| 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             |
|  |   |  |                      |                     |
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# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



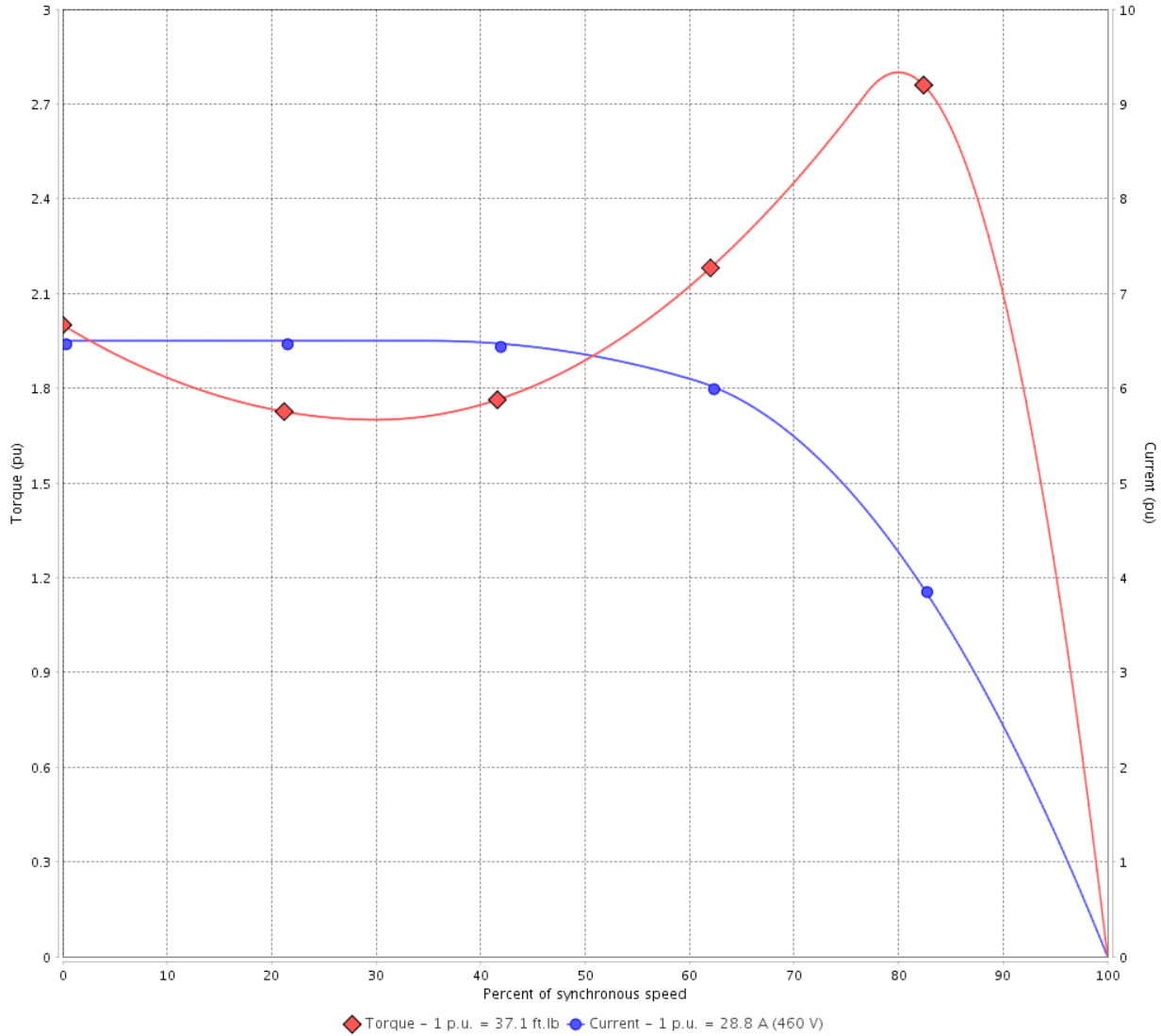
Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

|                     |               |                       |                 |
|---------------------|---------------|-----------------------|-----------------|
| Rated current       | : 57.6/28.8 A | Moment of inertia (J) | : 1.13 sq.ft.lb |
| LRC                 | : 6.5         | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 37.1 ft.lb  | Insulation class      | : F             |
| Locked rotor torque | : 200 %       | Service factor        | : 1.25          |
| Breakdown torque    | : 280 %       | Temperature rise      | : 80 K          |
| Rated speed         | : 3535 rpm    | Design                | : B             |

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

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



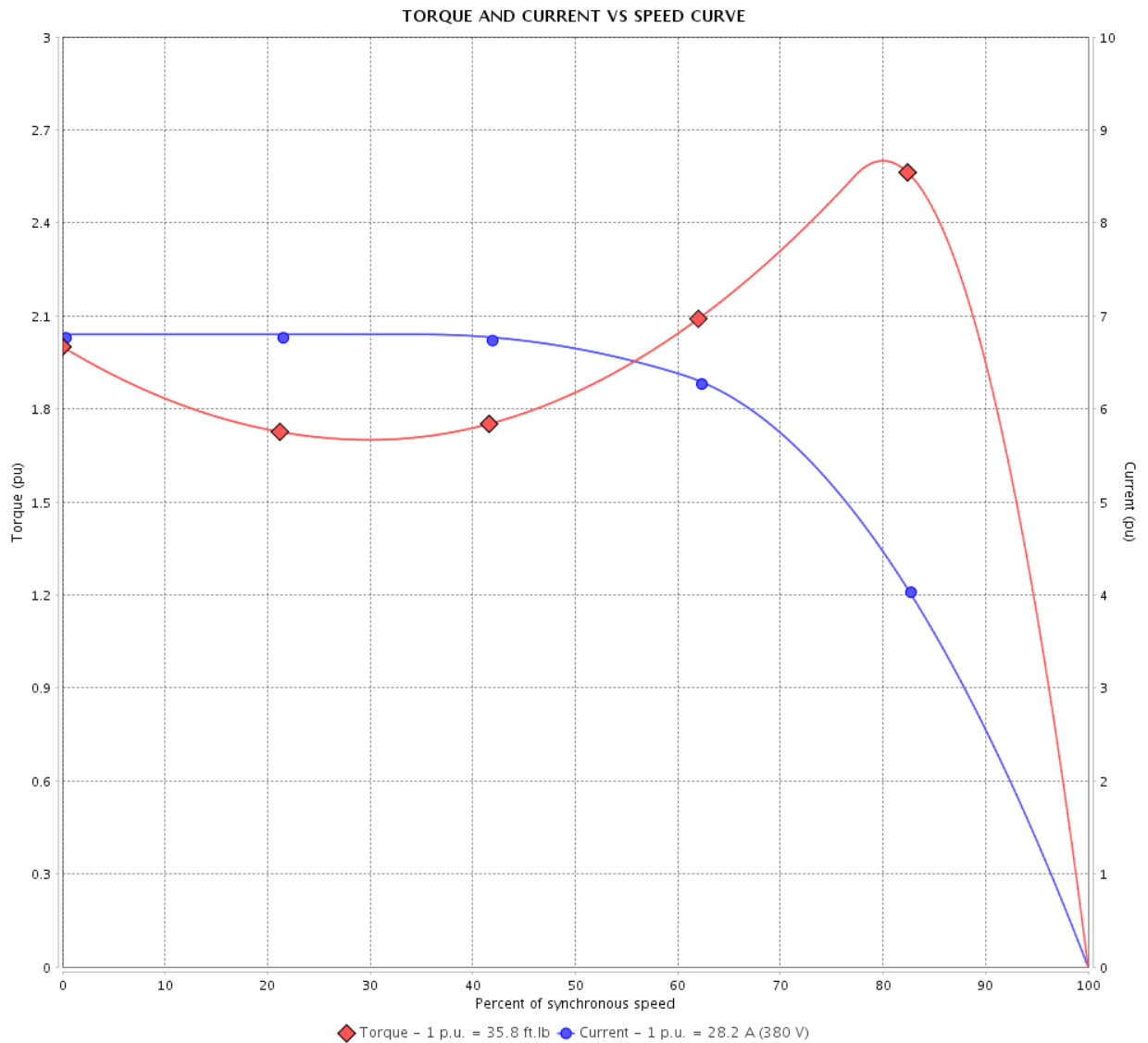
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40



Performance : 380 V 50 Hz 2P IE3

|                     |              |                       |                 |
|---------------------|--------------|-----------------------|-----------------|
| Rated current       | : 28.2 A     | Moment of inertia (J) | : 1.13 sq.ft.lb |
| LRC                 | : 6.8        | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 35.8 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 200 %      | Service factor        | : 1.00          |
| Breakdown torque    | : 260 %      | Temperature rise      | : 80 K          |
| Rated speed         | : 2935 rpm   | Design                | : B             |

Locked rotor time : 14s (cold) 8s (hot)

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

## Three Phase Induction Motor - Squirrel Cage



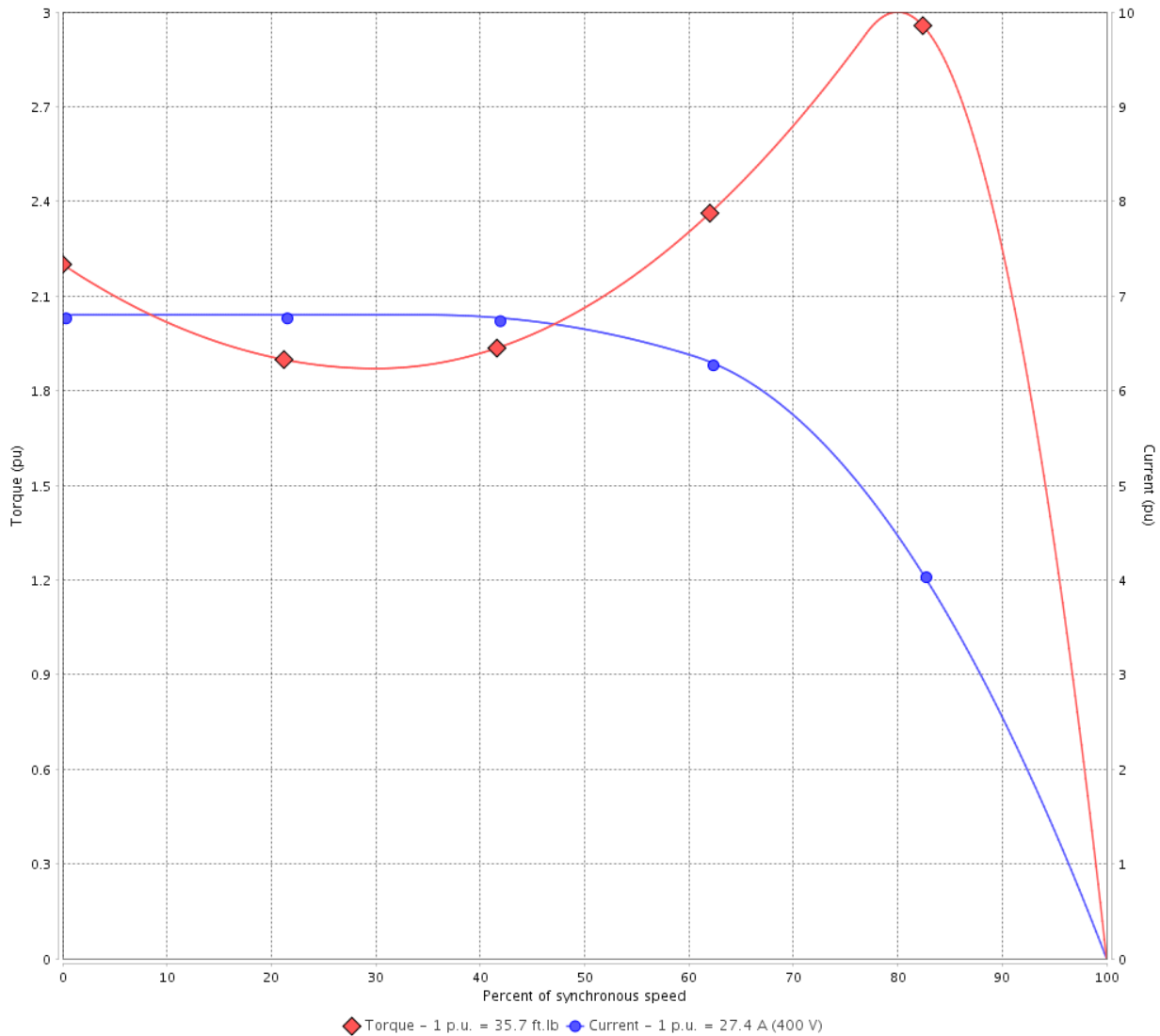
Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

|                     |              |                       |                 |
|---------------------|--------------|-----------------------|-----------------|
| Rated current       | : 27.4 A     | Moment of inertia (J) | : 1.13 sq.ft.lb |
| LRC                 | : 6.8        | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 35.7 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 220 %      | Service factor        | : 1.00          |
| Breakdown torque    | : 300 %      | 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



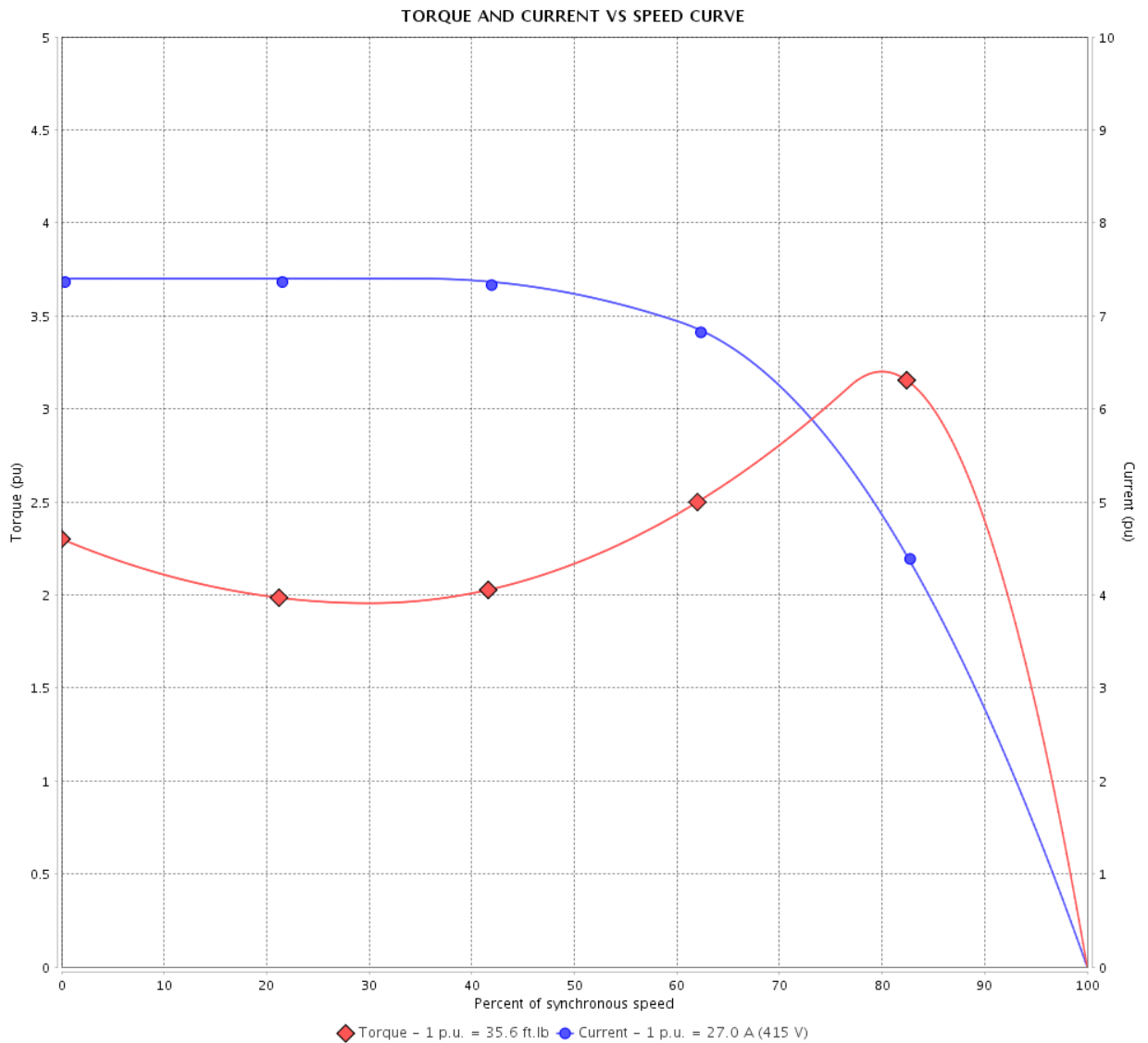
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Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40



Performance : 415 V 50 Hz 2P IE3

Rated current : 27.0 A  
 LRC : 7.4  
 Rated torque : 35.6 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 320 %  
 Rated speed : 2950 rpm

Moment of inertia (J) : 1.13 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

Locked rotor time : 14s (cold) 8s (hot)

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

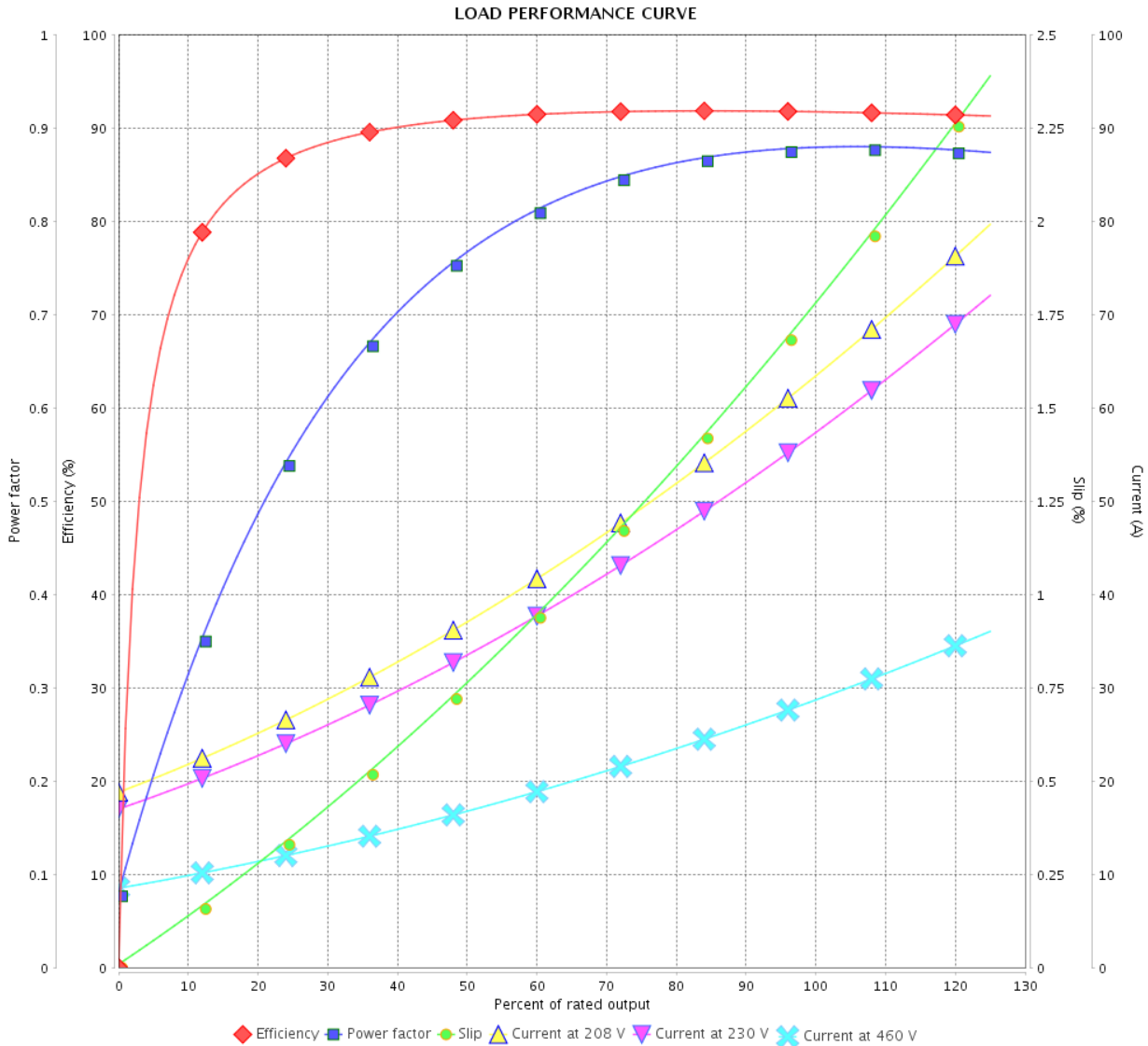


Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40



Performance : 230/460 V 60 Hz 2P

Rated current : 57.6/28.8 A  
 LRC : 6.5  
 Rated torque : 37.1 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 280 %  
 Rated speed : 3535 rpm

Moment of inertia (J) : 1.13 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

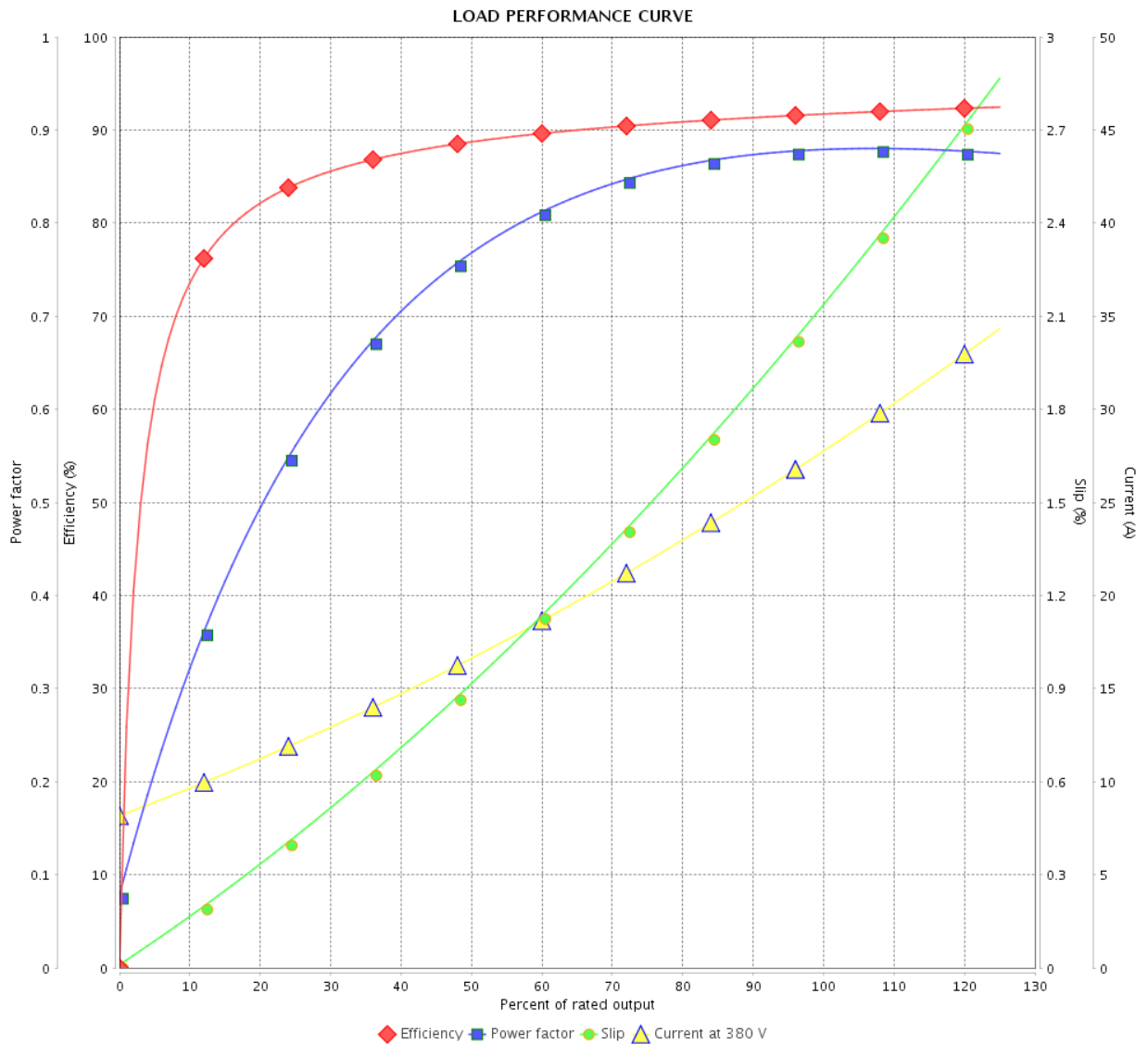


Customer :

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Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40



Performance : 380 V 50 Hz 2P IE3

Rated current : 28.2 A  
 LRC : 6.8  
 Rated torque : 35.8 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 260 %  
 Rated speed : 2935 rpm

Moment of inertia (J) : 1.13 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



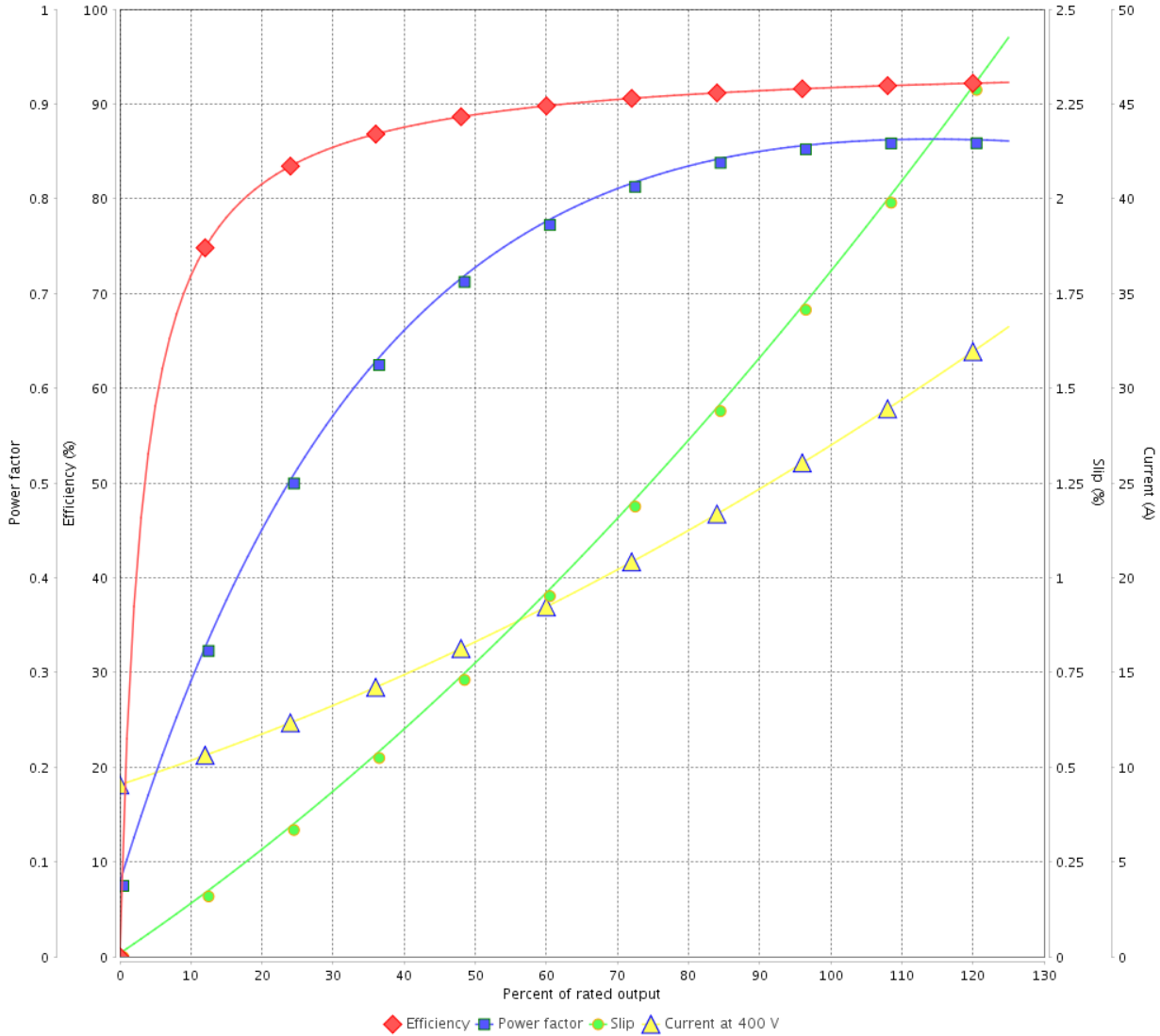
Customer : \_\_\_\_\_

Product line : W40 JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 27.4 A  
 LRC : 6.8  
 Rated torque : 35.7 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 300 %  
 Rated speed : 2945 rpm

Moment of inertia (J) : 1.13 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

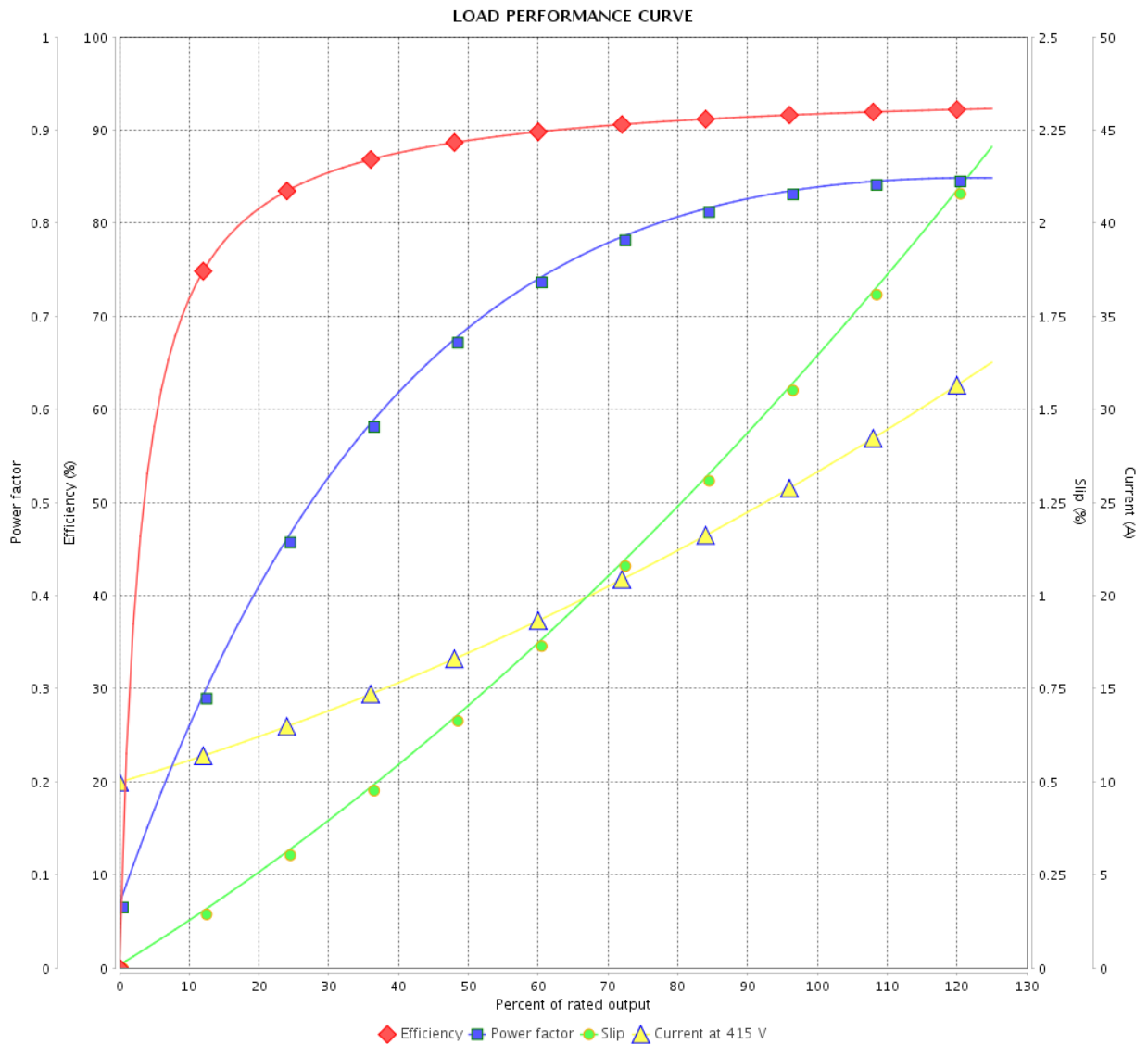


Customer : \_\_\_\_\_

Product line : W40 JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40



Performance : 415 V 50 Hz 2P IE3

Rated current : 27.0 A  
 LRC : 7.4  
 Rated torque : 35.6 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 320 %  
 Rated speed : 2950 rpm

Moment of inertia (J) : 1.13 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 JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40

Performance : 230/460 V 60 Hz 2P

Rated current : 57.6/28.8 A  
LRC : 6.5  
Rated torque : 37.1 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 280 %  
Rated speed : 3535 rpm

Moment of inertia (J) : 1.13 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

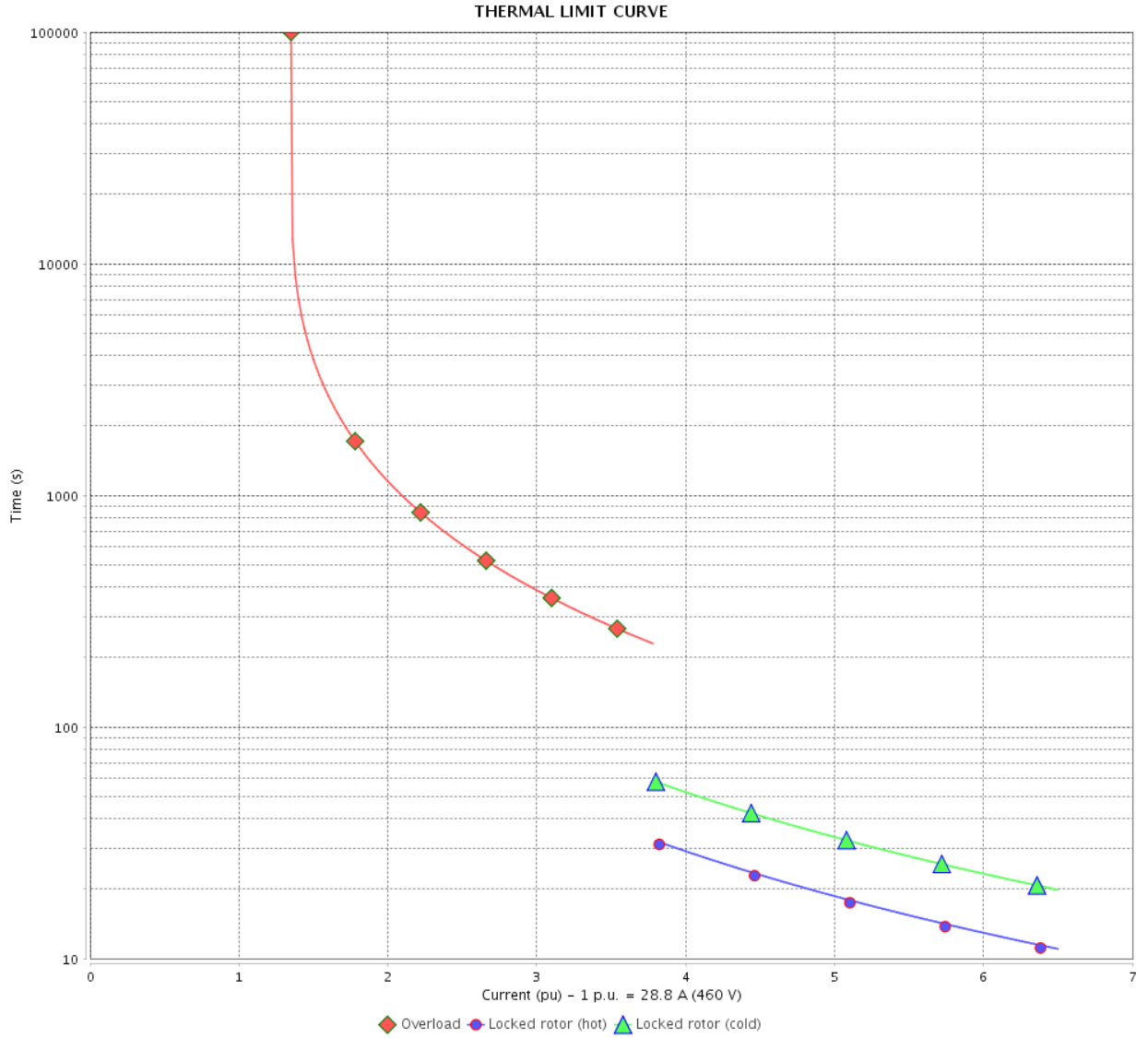
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40

Performance : 380 V 50 Hz 2P IE3

|                     |              |                       |                 |
|---------------------|--------------|-----------------------|-----------------|
| Rated current       | : 28.2 A     | Moment of inertia (J) | : 1.13 sq.ft.lb |
| LRC                 | : 6.8        | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 35.8 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 200 %      | Service factor        | : 1.00          |
| Breakdown torque    | : 260 %      | Temperature rise      | : 80 K          |
| Rated speed         | : 2935 rpm   | Design                | : B             |

Heating constant

Cooling constant

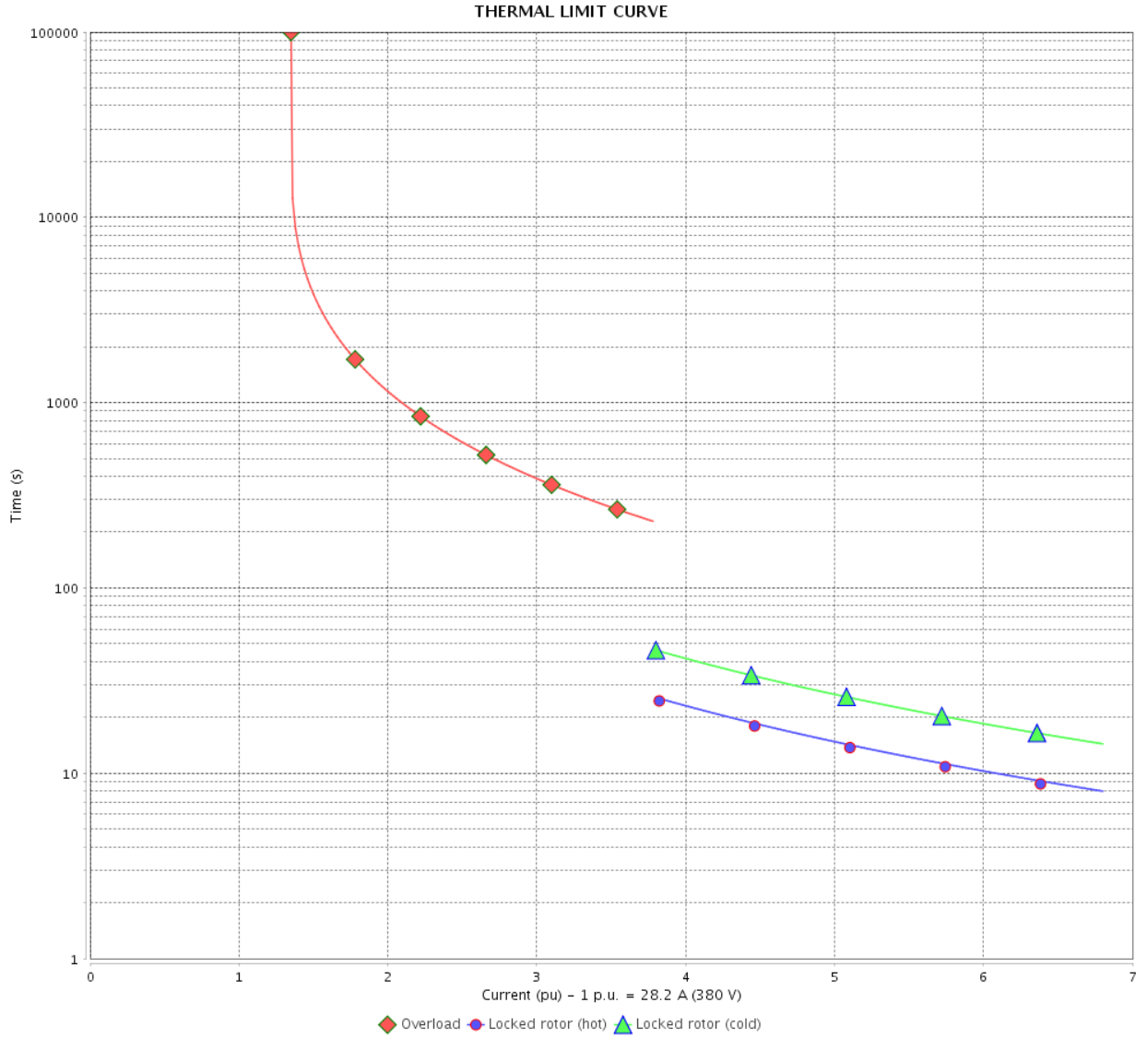
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

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Product line : W40 JM Pump NEMA Premium  
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Product code : 14484577

Catalog # : 02536OT3E256JM-W40

Performance : 400 V 50 Hz 2P IE3

Rated current : 27.4 A  
LRC : 6.8  
Rated torque : 35.7 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 300 %  
Rated speed : 2945 rpm

Moment of inertia (J) : 1.13 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

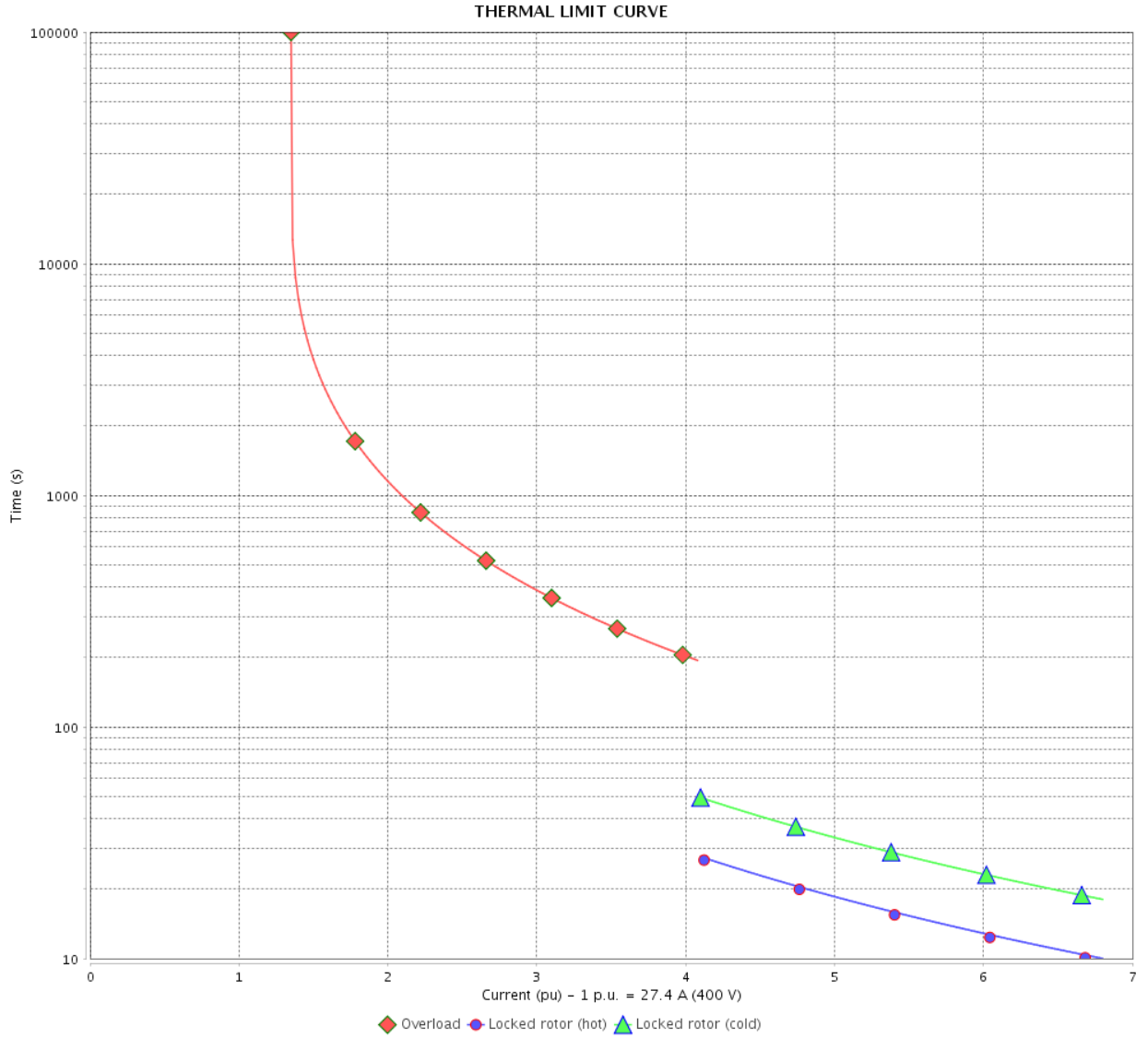
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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| Rev.         | Changes Summary | Performed       | Checked | Date     |
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Catalog # : 02536OT3E256JM-W40

Performance : 415 V 50 Hz 2P IE3

|                     |              |                       |                 |
|---------------------|--------------|-----------------------|-----------------|
| Rated current       | : 27.0 A     | Moment of inertia (J) | : 1.13 sq.ft.lb |
| LRC                 | : 7.4        | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 35.6 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 229 %      | Service factor        | : 1.00          |
| Breakdown torque    | : 320 %      | Temperature rise      | : 80 K          |
| Rated speed         | : 2950 rpm   | Design                | : B             |

Heating constant

Cooling constant

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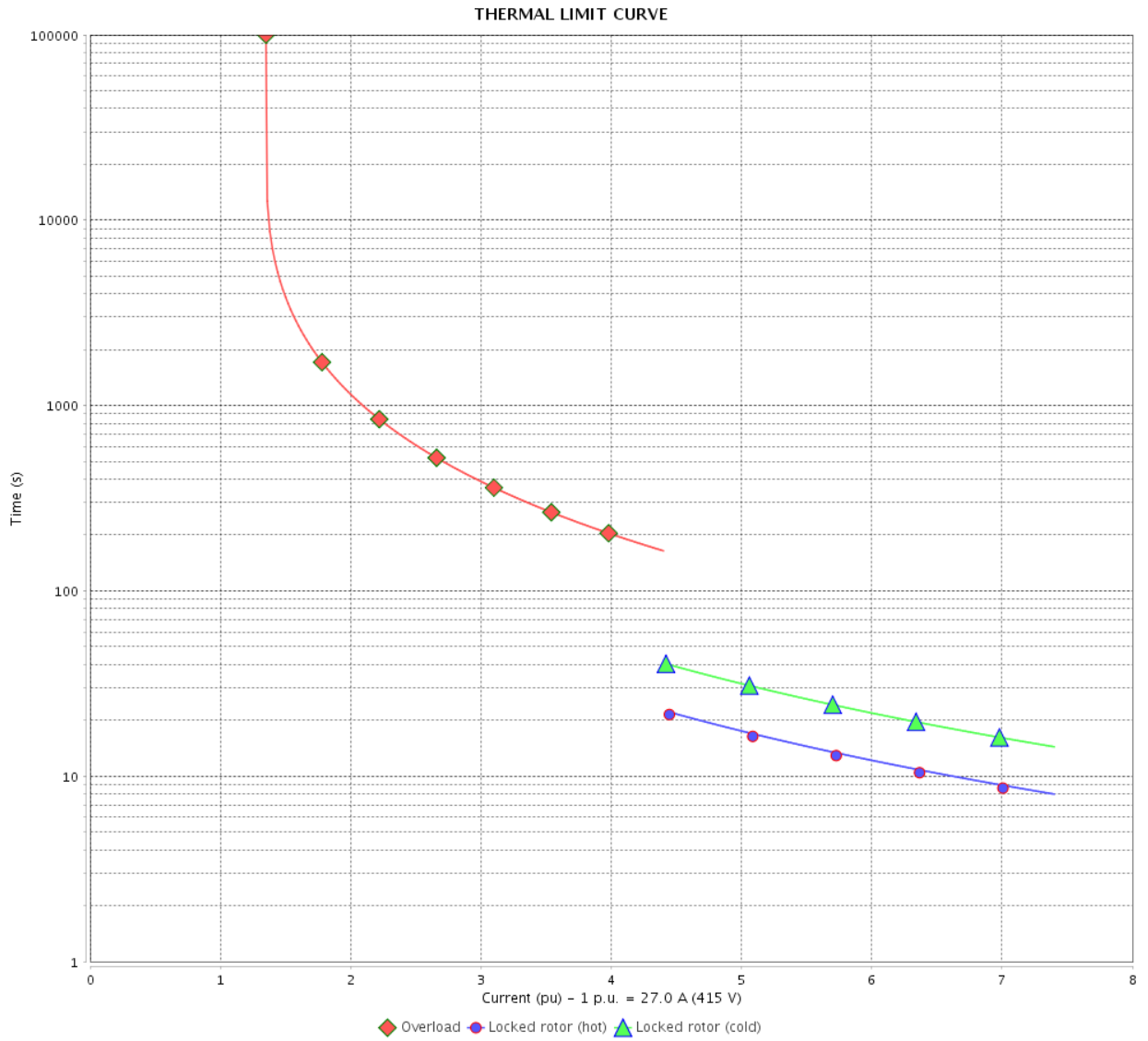


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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



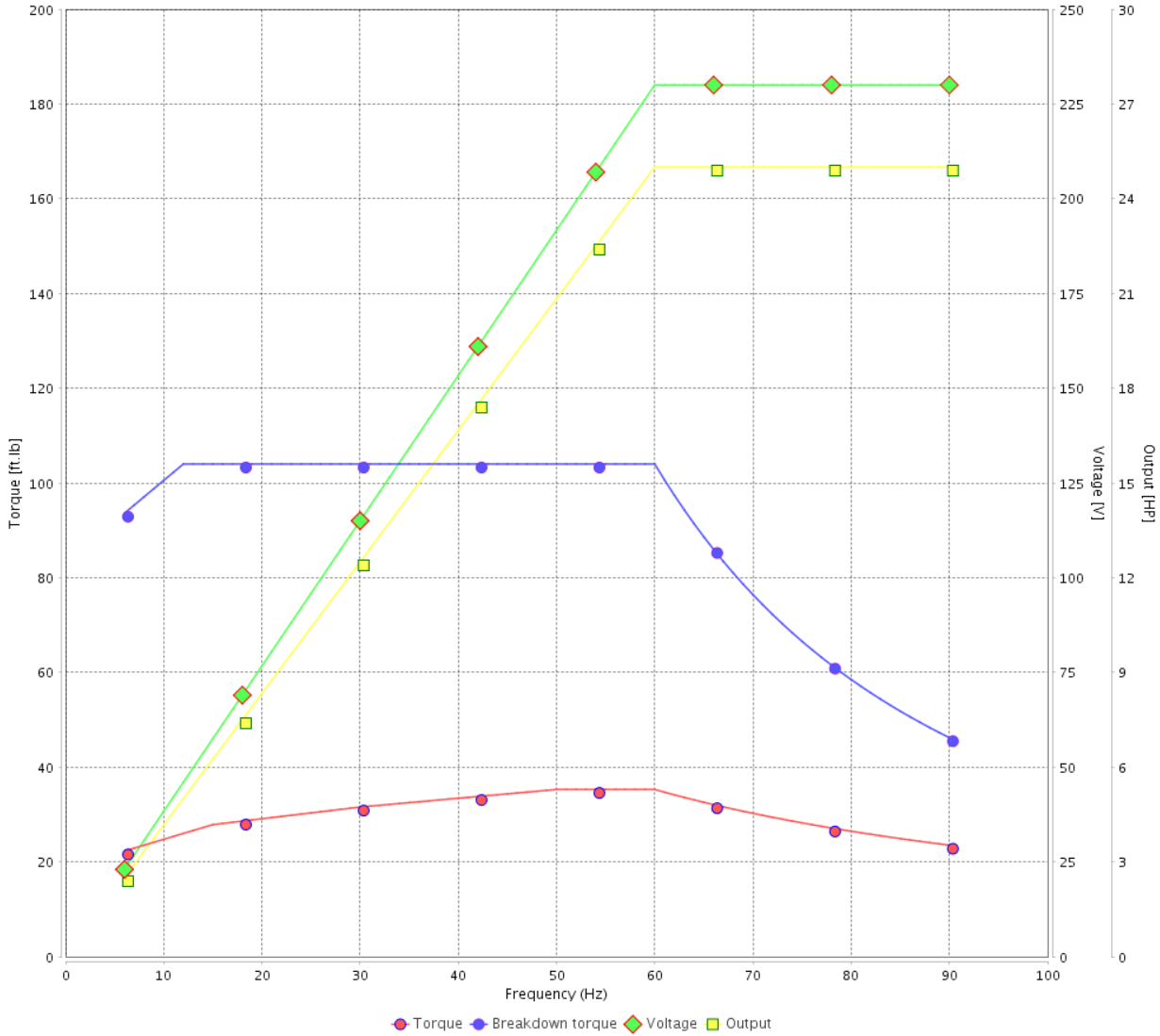
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VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 2P

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 Breakdown torque : 280 %  
 Rated speed : 3535 rpm

Moment of inertia (J) : 1.13 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

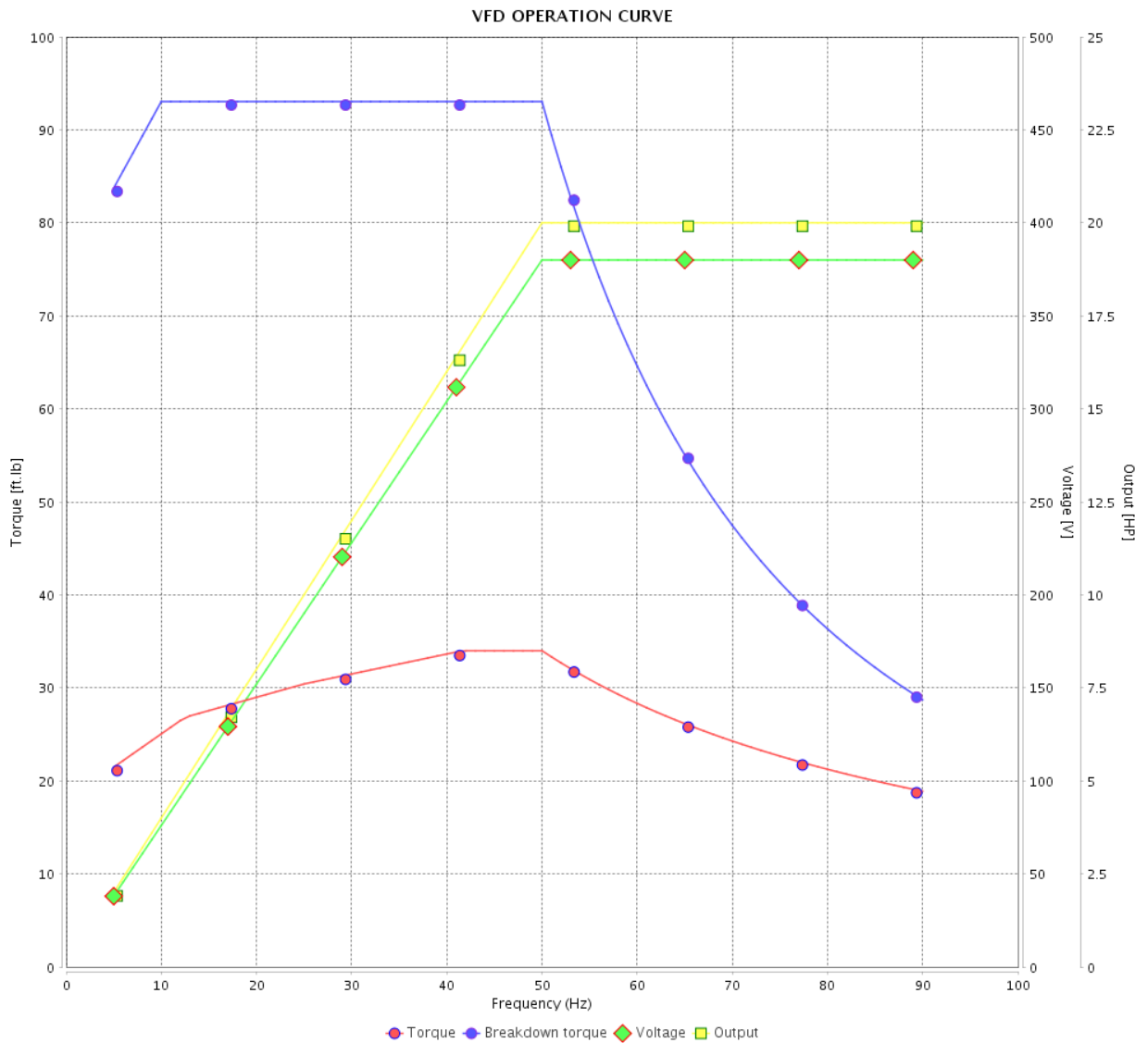


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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

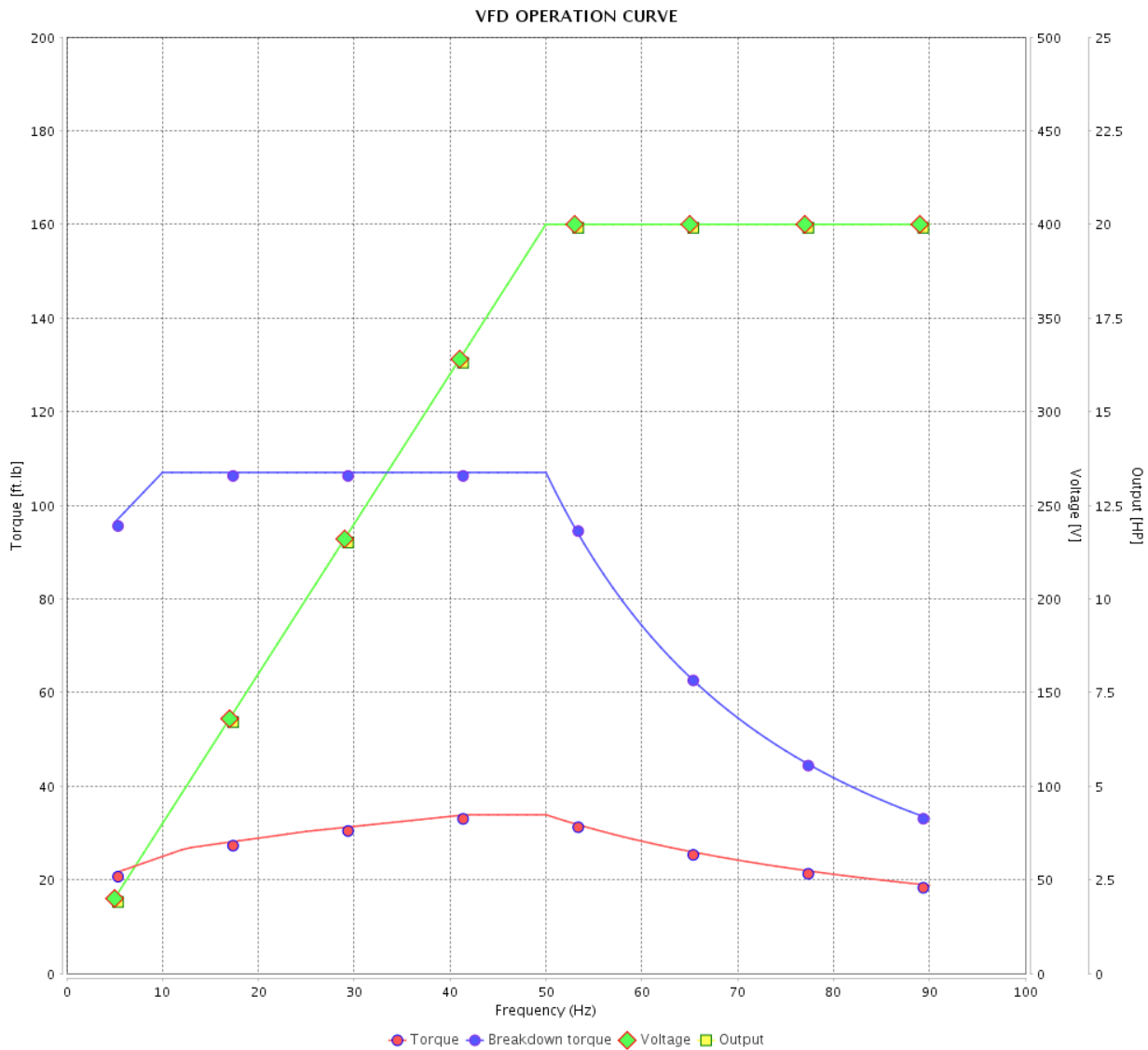


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 Rated torque : 35.7 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 300 %  
 Rated speed : 2945 rpm

Moment of inertia (J) : 1.13 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   |                 |           |         |          |
| Date         |                 |           |         |          |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

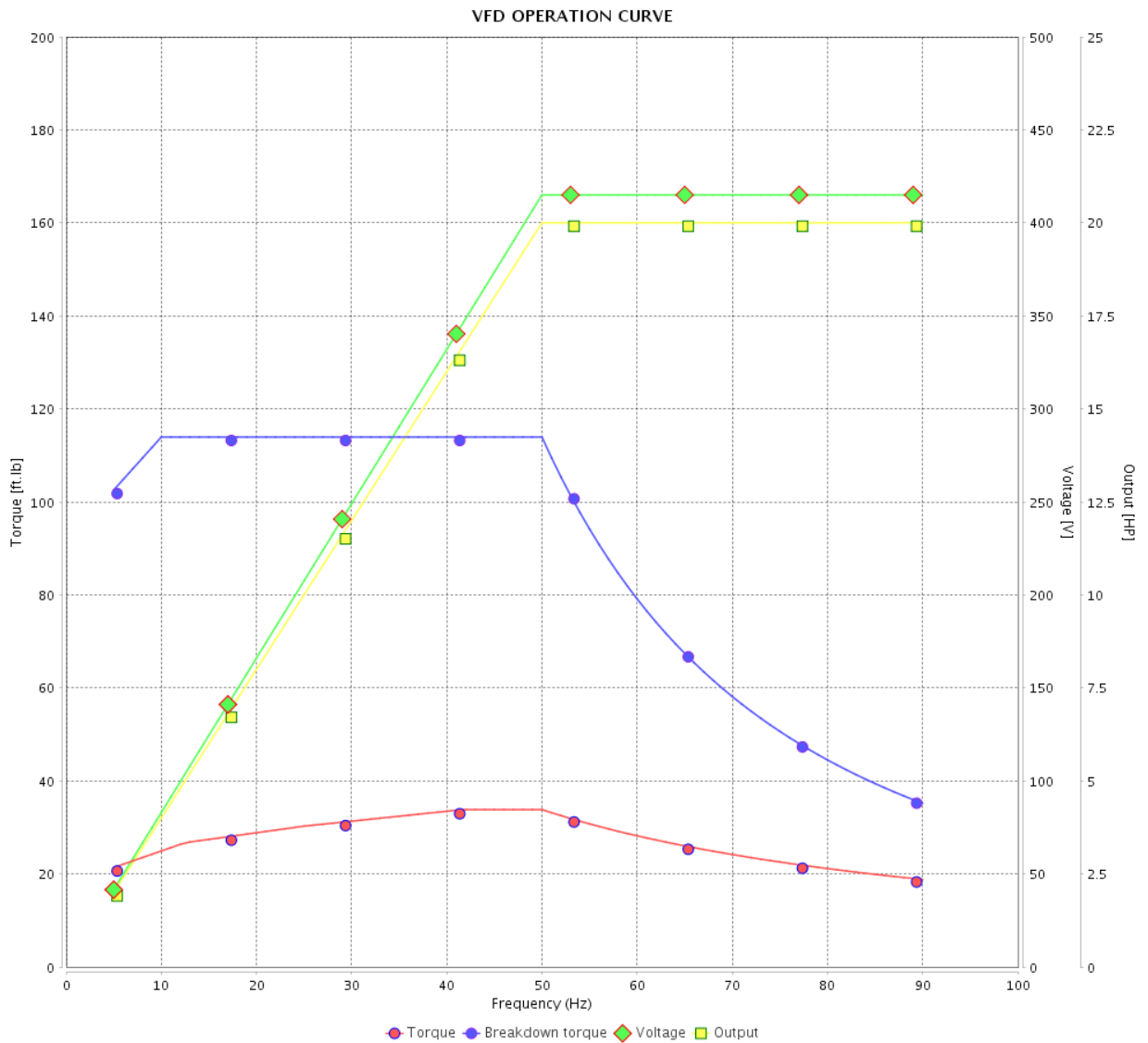


Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase

Product code : 14484577

Catalog # : 02536OT3E256JM-W40

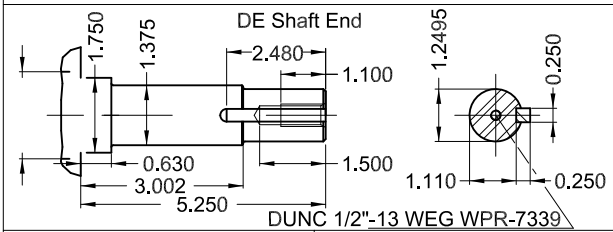
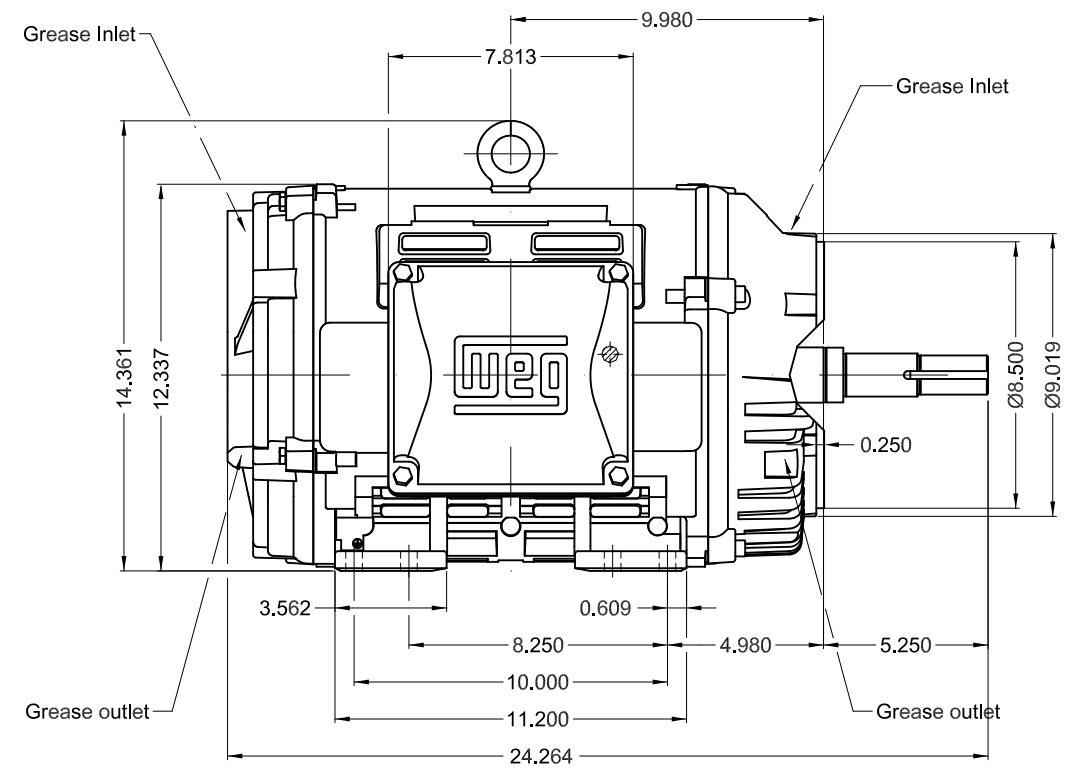
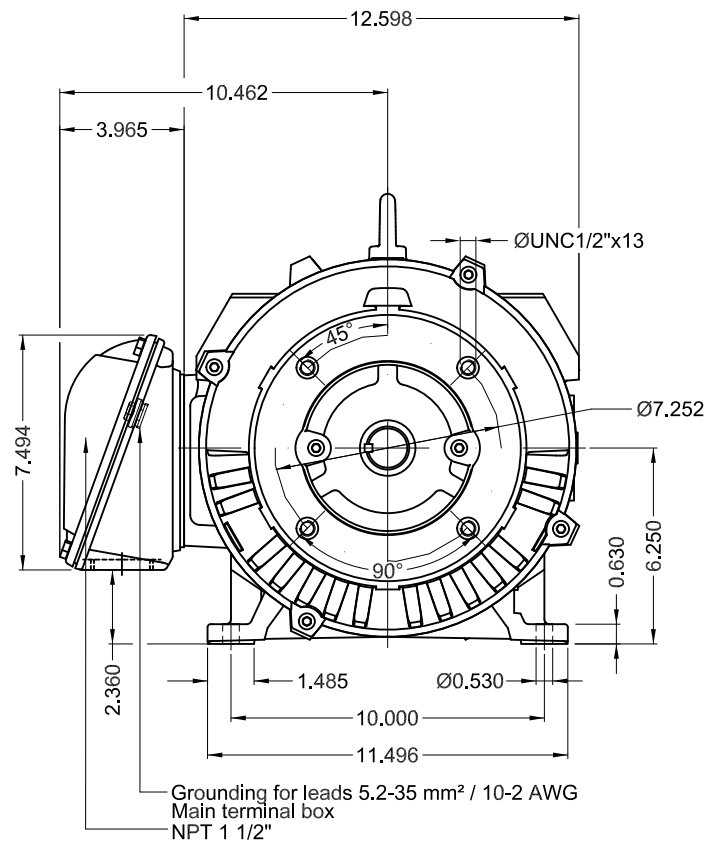


Performance : 415 V 50 Hz 2P IE3

Rated current : 27.0 A  
 LRC : 7.4  
 Rated torque : 35.6 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 320 %  
 Rated speed : 2950 rpm

Moment of inertia (J) : 1.13 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   |                 | 21 / 21    |         |          |
| Date         |                 | 14/04/2022 |         |          |



25 HP 02 Poles 60 Hz

A

1:6

| ECM      | LOC       | SUMMARY OF MODIFICATIONS                                 | EXECUTED            | CHECKED | RELEASED | DATE  | VER |
|----------|-----------|--|---------------------|---------|----------|-------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR W40 CLOSE COUPLED PUMP JM TYPE PREM-EST. |                     |         |          |       |     |
| CHECKED  |           | FRAME 254/6JM IP23 ODP                                   |                     |         |          |       |     |
| RELEASED |           |  |                     |         |          |       |     |
| REL DT.  | WMO       | Jaragua do Sul   | Product Engineering | WDD     | SHEET    | 1 / 1 |     |

Color RAL 5009  
 Painting plan 203A  
 Mounting NEMA F-1  
 Mounting B34R(D)

PREVIEW  
 WDD



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



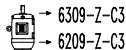
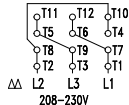
IEC 60034-1  
 MOD.T01#FOXON



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

MODEL 025360T3E256JM-W40  
 MADE IN BRAZIL  
 14484577

|  |                            |                   |               |
|--|----------------------------|-------------------|---------------|
| PH 3   | FR 254/6JM                 | HP(kW) 25.0(18.5) | Hz 60         |
| V 230/460  | A 57.6/28.8                | RPM 3535          | DES B         |
| NEMA NOM EFF 91.7 %                                      | INS. CL. F $\Delta$ T 80 K | IP23              |               |
| ENCL ODP   | DUTY CONT.                 | AMB. 40°C         |               |
| CODE G   | PF 0.88                    | SF 1.25           | SFA 72.0/36.0 |
| USABLE @208V   | 63.7 A                     | SF 1.15           | SFA 73.3      |
| 20HP 15kW 50Hz 380V 28.2A 2935RPM SF1.00 EFF 91.9% (IE3) | ALT 1000 m.a.s.l.          |                   |               |



MOBIL POLYREX EM  
 13 g 20000 h

ALT 1000 m.a.s.l. 254 Lbs