DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium Efficiency

Product code:

14483518

Three-Phase

Catalog #: 02036OT3E254JM-W40

Frame : 254JM

Cooling method : IC01 - ODP

Insulation class : Cont.(S1) Mounting : F-1

Duty cycle

Rotation¹

Ambient temperature

: -20°C to +40°C Starting method : Both (CW and CCW) : Direct On Line

Altitude

: 1000 m.a.s.l.

: 222 lb

Protection degree

: IP23

Approx. weight³

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 [RPN | / 1] | 3535 | 2945 | 2950 | 2955 |
| Slip [%] | | 1.81 | 1.83 | 1.67 | 1.50 |
| Rated torque [ft.lb] |] | 29.8 | 26.8 | 26.7 | 26.7 |
| Locked rotor torqu | Locked rotor torque [%] | | 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 ² | | | | | |
| | 25% | 90.0 | 85.6 | 85.8 | 85.9 |
| Efficiency (%) | 50% | 90.2 | 88.0 | 88.1 | 88.2 |
| Elliciency (70) | 75% | 91.0 | 88.5 | 88.6 | 88.7 |
| | 100% | 91.0 | 91.2 | 91.2 | 91.2 |
| | 25% | 0.48 | 0.46 | 0.39 | 0.35 |
| Power Factor | 50% | 0.72 | 0.69 | 0.62 | 0.57 |
| I OWEI FACIOI | 75% | 0.82 | 0.80 | 0.75 | 0.70 |
| | 100% | 0.85 | 0.85 | 0.82 | 0.78 |

Drive end 6309 Z C3

Non drive end

Foundation loads

Bearing type Sealing

6209 Z C3 Max. traction Without Max. compression

Without

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount

20000 h 20000 h

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.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (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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| Checked by | | | | Page | Revision |
| Date | 30/11/2022 | | | 1 / 21 | |

Three Phase Induction Motor - Squirrel Cage



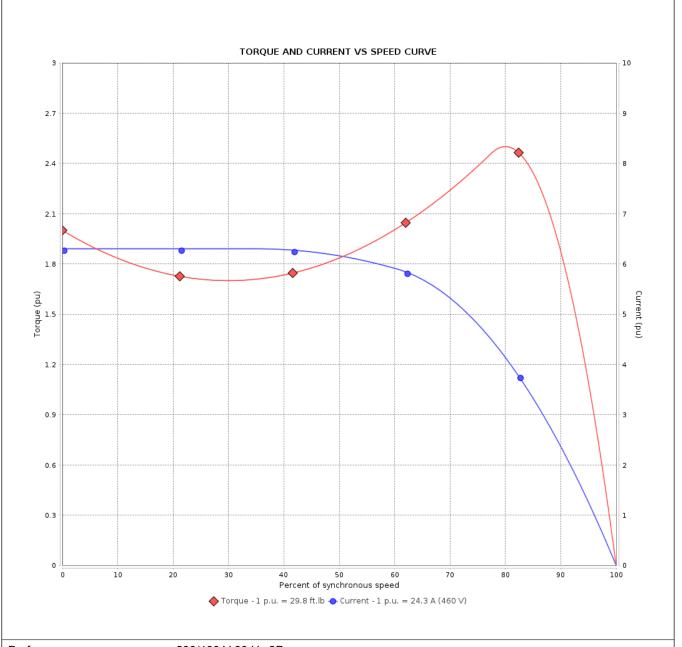
Customer :

Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

Product code: 14483518

Catalog #: 02036OT3E254JM-W40



Performance : 230/460 V 60 Hz 2P Rated current : 48.6/24.3 A Moment of inertia (J) : 0.8718 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 29.8 ft.lb Insulation class Rated torque : 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 : 21s (cold) 12s (hot)

| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
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| Checked by | | | | Page | Revision |
| Date | 30/11/2022 | | | 2 / 21 | |

Three Phase Induction Motor - Squirrel Cage



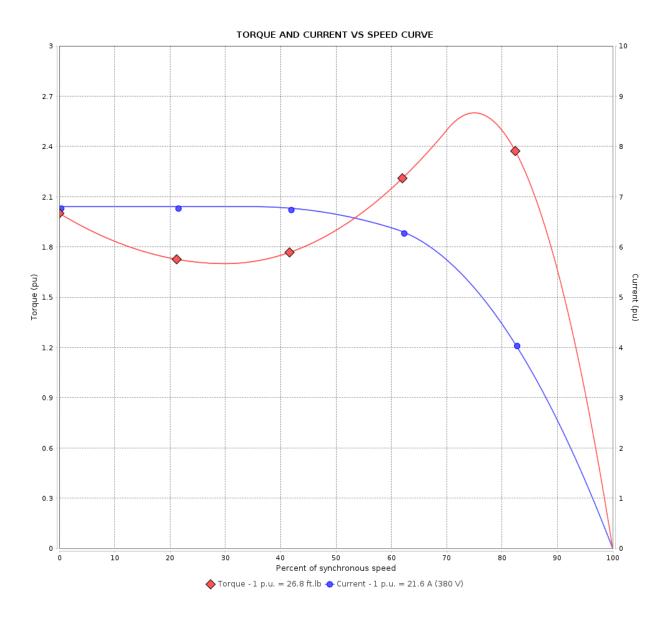
Customer :

Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

Product code: 14483518

Catalog #: 02036OT3E254JM-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) Insulation class : F Rated torque : 26.8 ft.lb Locked rotor torque : 200 % Service factor : 1.00 : 80 K Breakdown torque : 290 % Temperature rise : B Rated speed : 2945 rpm Design

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

| Lockou rotor tim | • | 00 (0014) 100 (1101) | | | |
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| Date | 30/11/2022 | 7 | | 3 / 21 | |

Three Phase Induction Motor - Squirrel Cage



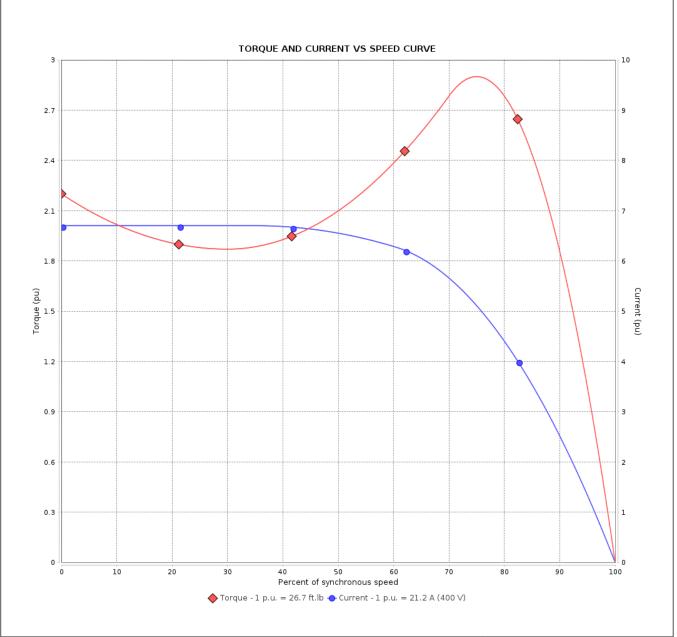
Customer :

Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

Product code: 14483518

Catalog #: 02036OT3E254JM-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) : F : 26.7 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 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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| Rev. | | Changes Summary | Performed | Checked | Date |
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| Date | 30/11/2022 | | | 4 / 21 | |

Three Phase Induction Motor - Squirrel Cage

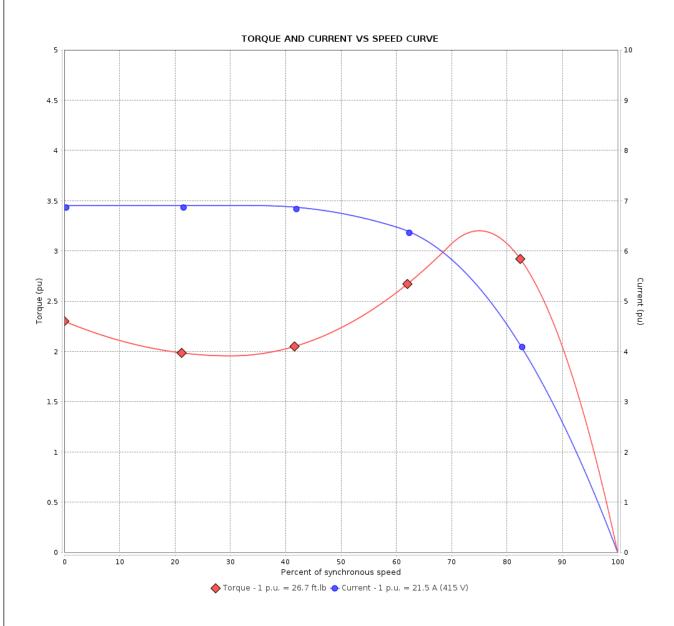


Customer

Product line : W40 JM Pump NEMA Premium Efficiency

Product code: 14483518

Catalog #: 02036OT3E254JM-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) | | |

| LOCKCO TOTOL UITK | . 1 | 33 (cold) 113 (flot) | | | |
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| Rev. | | Changes Summary | Performed | Checked | Date |
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| Date | 30/11/2022 | | | 5 / 21 | |

Three Phase Induction Motor - Squirrel Cage



Customer

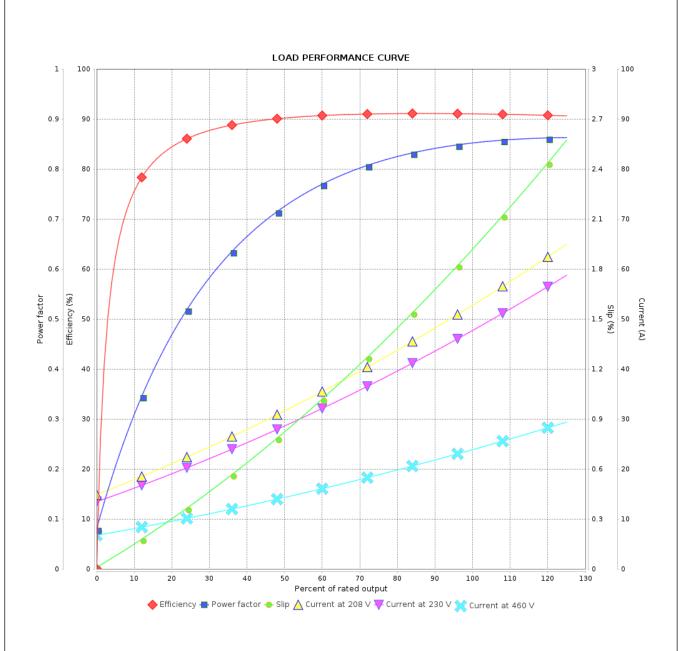
Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

Product code: 14483518

Catalog #: 02036OT3E254JM-W40

6/21



| Performance | : 230/460 V 60 Hz 2P | | | |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 48.6/24.3 A : 6.3 : 29.8 ft.lb : 200 % : 280 % : 3535 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | : 0.8718 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B | lb |
| Rev. | Changes Summary | Performed | Checked | Date |
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30/11/2022

Date

Three Phase Induction Motor - Squirrel Cage



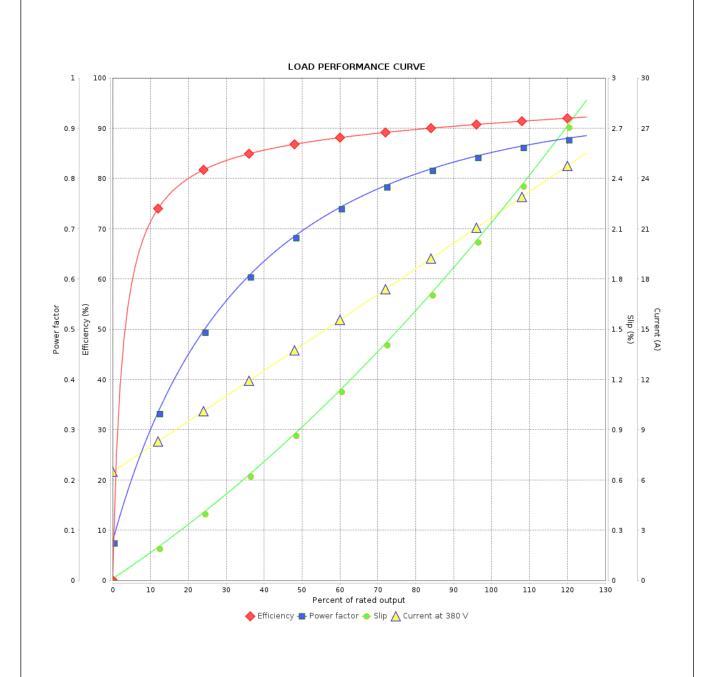
Customer :

Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

Product code: 14483518

Catalog #: 02036OT3E254JM-W40



| Performance | : 3 | : 380 V 50 Hz 2P IE3 | | | | |
|-------------------------------------------|------------|----------------------|------------|---------------|----------------|----------|
| Rated current | : 2 | 1.6 A | Moment of | f inertia (J) | : 0.8718 sq.ft | .lb |
| LRC | : 6 | .8 | Duty cycle |) | : Cont.(S1) | |
| Rated torque | : 2 | 6.8 ft.lb | Insulation | class | : F | |
| Locked rotor torq | jue : 2 | 00 % | Service fa | ctor | : 1.00 | |
| Breakdown torque : 290 % Temperature rise | | ıre rise | : 80 K | | | |
| Rated speed | : 2 | 945 rpm | Design | | : B | |
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| Date | 30/11/2022 | 1 | | | 7 / 21 | |

Three Phase Induction Motor - Squirrel Cage



Customer :

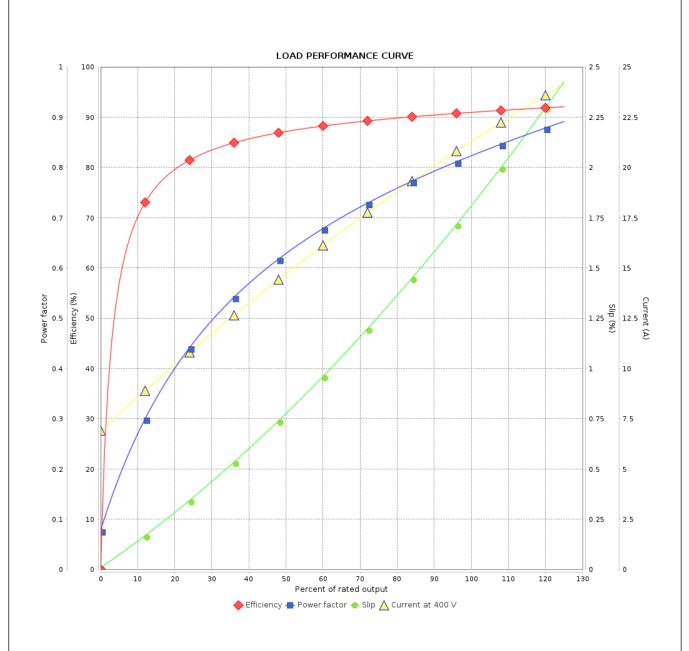
Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

Product code: 14483518

Catalog #: 02036OT3E254JM-W40

8 / 21



| erformance | : | 400 V 50 Hz 2P IE3 | 3 | | | |
|------------------|-------|-----------------------|------------|------------------|-------------|----------|
| | | Moment of inertia (J) | | .lb | | |
| LRC | | 6.7 | Duty cycle | | : Cont.(S1) | |
| ated torque | - | 26.7 ft.lb | Insulation | | : F | |
| ocked rotor tor | que : | 220 % | Service fa | actor | : 1.00 | |
| Breakdown torque | | 320 % | Temperat | Temperature rise | | |
| ated speed | : | 2950 rpm | Design | | : B | |
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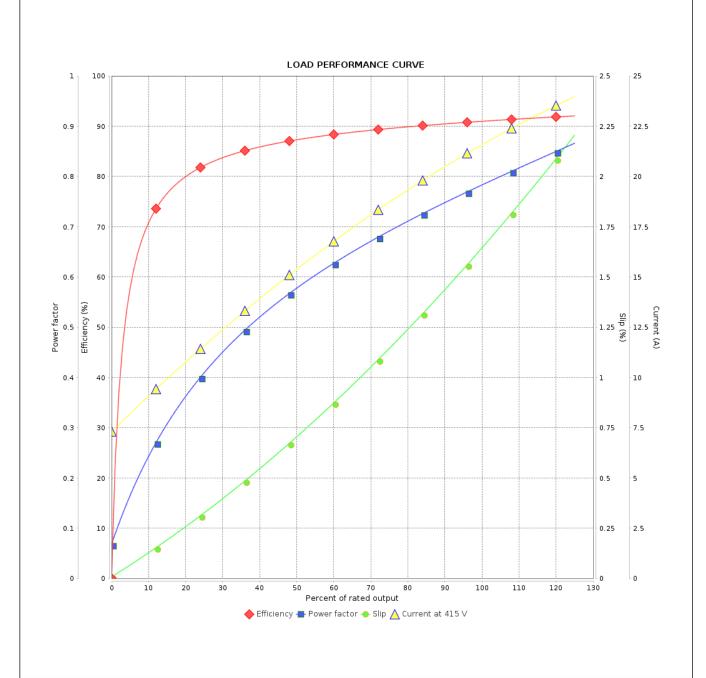
Customer :

Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

Product code: 14483518

Catalog #: 02036OT3E254JM-W40



| Performance | : | 415 V 50 Hz 2P IE3 | | | | |
|-------------------|------------|--------------------|------------|-----------------------|-------------|----------|
| Rated current | : | : 21.5 A | | Moment of inertia (J) | | .lb |
| LRC | : | 6.9 | Duty cycle | • | : Cont.(S1) | |
| Rated torque | : | 26.7 ft.lb | Insulation | class | : F | |
| Locked rotor torc | que : | 229 % | Service fa | ictor | : 1.00 | |
| Breakdown torqu | ie : | 350 % | Temperat | Temperature rise | | |
| Rated speed | : | 2955 rpm | Design | | : B | |
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| Date | 30/11/2022 | | | | 9 / 21 | |

Three Phase Induction Motor - Squirrel Cage

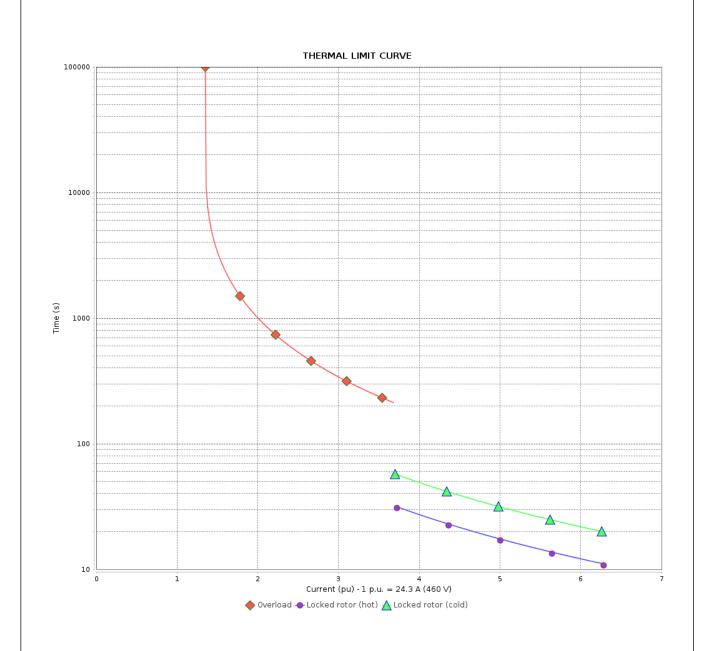


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| Customer | : | | | | |
| Product line | : W40 JM Pump NEMA Premium Three-Phase | Efficiency | Product code : | 14483518 | |
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| D (| 000/400 V 00 II 0D | | | | |
| Performance Rated current | : 230/460 V 60 Hz 2P : 48.6/24.3 A | Moment | of inertia (J) | : 0.8718 sq.ft. | lh |
| LRC | : 6.3 | Duty cyc | ele | : Cont.(S1) | iD |
| Rated torque | : 29.8 ft.lb | Insulatio Service | | : F : 1.25 | |
| Locked rotor torqu Breakdown torque | | | iture rise | : 80 K | |
| Rated speed | : 3535 rpm | Design | | : B | |
| Heating constant | | | | | |
| Cooling constant | | | 1 | 1 | |
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| Date | 30/11/2022 | | | 10 / 21 | LOVISION |

Three Phase Induction Motor - Squirrel Cage



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| Rev. | Changes Summary | | Performed | Checked | Date |
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| Date | 30/11/2022 | | | 11 / 21 | |

Three Phase Induction Motor - Squirrel Cage

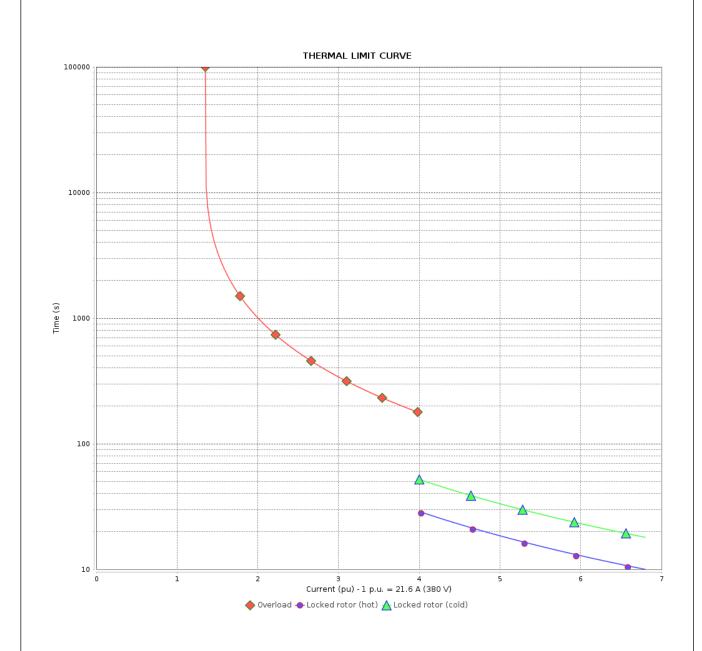


| Customer | <u>:</u> | | | | |
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| Product line | : W40 JM Pump NEMA Premium Efficiency | | Product code : | 14483518 | |
| | Three-Phase | • | Catalog # : | 02036OT3E | 254.IM-W40 |
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| | | | | | |
| Performance | : 380 V 50 H | 7 2D IE3 | | | |
| Rated current | : 21.6 A | | of inertia (J) | : 0.8718 sq.ft. | lb |
| LRC | : 6.8 | Duty cyc | ele | : Cont.(S1) | - |
| Rated torque Locked rotor tord | : 26.8 ft.lb que : 200 % | Insulation Service | | : F : 1.00 | |
| Breakdown torqu | | | iture rise | : 80 K | |
| Rated speed | : 2945 rpm | Design | | : B | |
| Heating constan | t | | | , | |
| Cooling constan | t | | | | |
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| Date | 30/11/2022 | | | 12 / 21 | |

Three Phase Induction Motor - Squirrel Cage



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| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
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| Date | 30/11/2022 | 1 | | 13 / 21 | |

Three Phase Induction Motor - Squirrel Cage

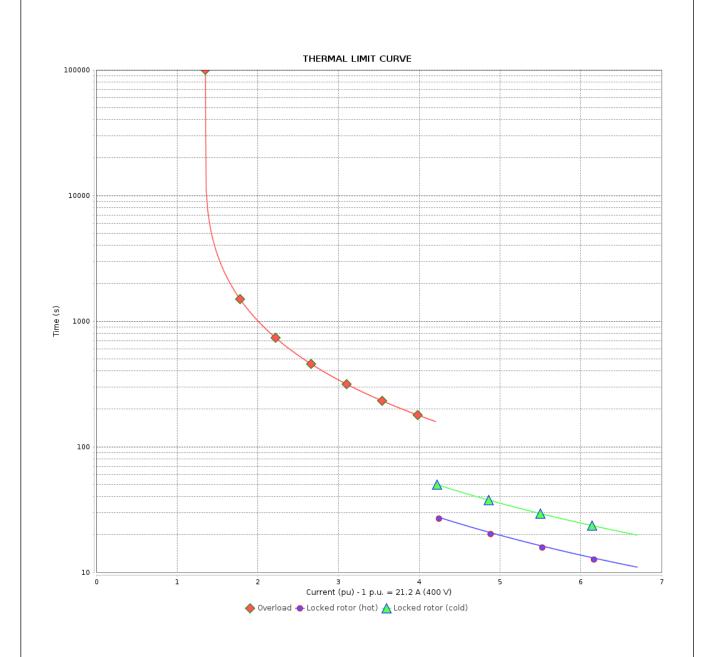


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| Customer | : | | | | |
| Product line | : W40 JM Pump NEMA Premium Eff Three-Phase | | Product code : | 14483518 | 05.1841440 |
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| Performance Rated current | : 400 V 50 Hz 2P IE3 : 21.2 A | Moment of | inortia (I) | : 0.8718 sq.ft. | lh. |
| LRC | : 6.7 | Duty cycle | | : Cont.(S1) | ib |
| Rated torque | : 26.7 ft.lb | Insulation of Service fac | | : F | |
| Locked rotor torque Breakdown torque | | Temperatu | | : 1.00 : 80 K | |
| Rated speed | : 2950 rpm | Design | | : B | |
| Heating constant | | | | | |
| Cooling constant | | | | | |
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| Date | 30/11/2022 | | | 14 / 21 | 1704191011 |

Three Phase Induction Motor - Squirrel Cage



Customer :



| Rev. | Changes Summary | | Performed | Checked | Date |
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| Date | 30/11/2022 | | | 15 / 21 | |

Three Phase Induction Motor - Squirrel Cage

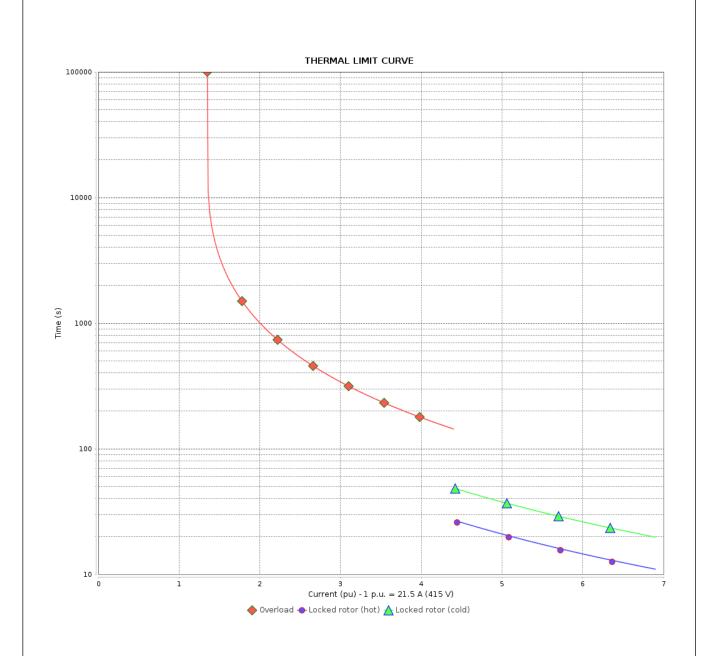


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| Customer | : | | | | | |
| Product line | : W40 JM F Three-Phas | Pump NEMA Premium Effi se | | Product code : | 14483518 02036OT3E2 | 254JM-W40 |
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| | | | | | | |
| Performance | . 11 | 5 V 50 Hz 2P IE3 | | | | |
| Rated current | | 5 V 50 HZ ZP 1E3 | Moment o | f inertia (J) | : 0.8718 sq.ft.l | b |
| LRC | : 6.9 | 9 | Duty cycle | ; | : Cont.(S1) | - |
| Rated torque Locked rotor tord | | .7 ft.lb 9 % | Insulation Service fa | | : F : 1.00 | |
| Breakdown torqu | | 0 % | Temperatu | | : 80 K | |
| Rated speed | | 55 rpm | Design | | : B | |
| Heating constan | t | | | | | |
| Cooling constan | t | | | | | |
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| Checked by | 20/44/2022 | | | | Page 16 / 21 | Revision |
| Date | 30/11/2022 | | | | 10/21 | |

Three Phase Induction Motor - Squirrel Cage



Customer



| Rev. | | Changes Summary | Performed | Checked | Date |
|--------------|------------|-----------------|-----------|---------|----------|
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| Performed by | | | | | |
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| Date | 30/11/2022 | | | 17 / 21 | |

Three Phase Induction Motor - Squirrel Cage



Customer :

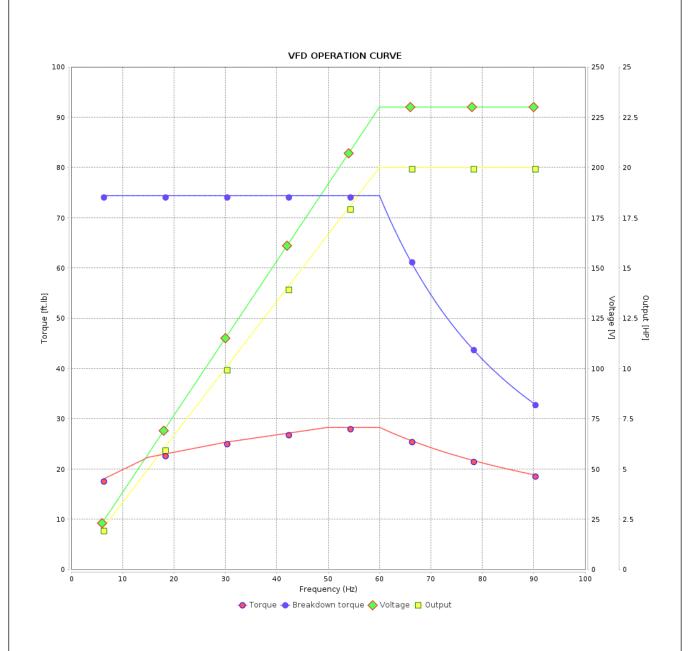
Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

Product code: 14483518

Catalog #: 02036OT3E254JM-W40

18 / 21



| Performance | | | | | |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 48.6/24.3 A : 6.3 : 29.8 ft.lb : 200 % : 280 % : 3535 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.8718 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B | |
| Rev. | Changes Summary | | Performed | Checked | Date |
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| Checked by | | | | Page | Revision |

30/11/2022

Date

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Customer :

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Date

30/11/2022

Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

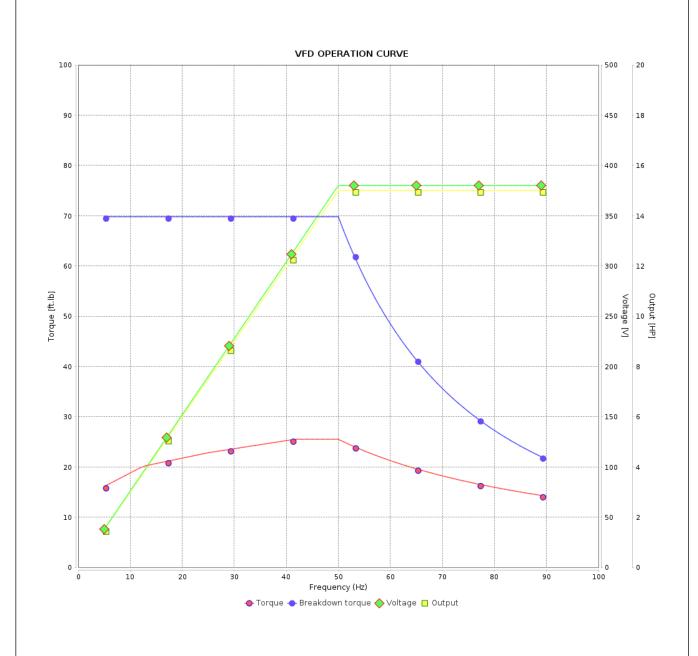
Product code: 14483518

Catalog #: 02036OT3E254JM-W40

Page

19/21

Revision



| Performance : 380 V 50 Hz 2P IE3 | | | | | |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------|------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 21.6 A : 6.8 : 26.8 ft.lb : 200 % : 290 % : 2945 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.8718 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
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Three Phase Induction Motor - Squirrel Cage



Revision

Page

20 / 21

Customer :

Checked by

Date

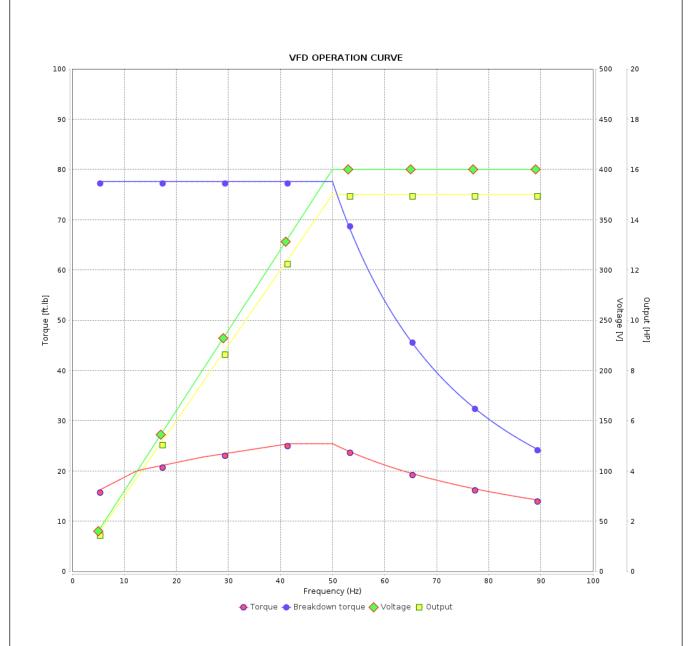
30/11/2022

Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

Product code: 14483518

Catalog #: 02036OT3E254JM-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) : 26.7 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



Customer :

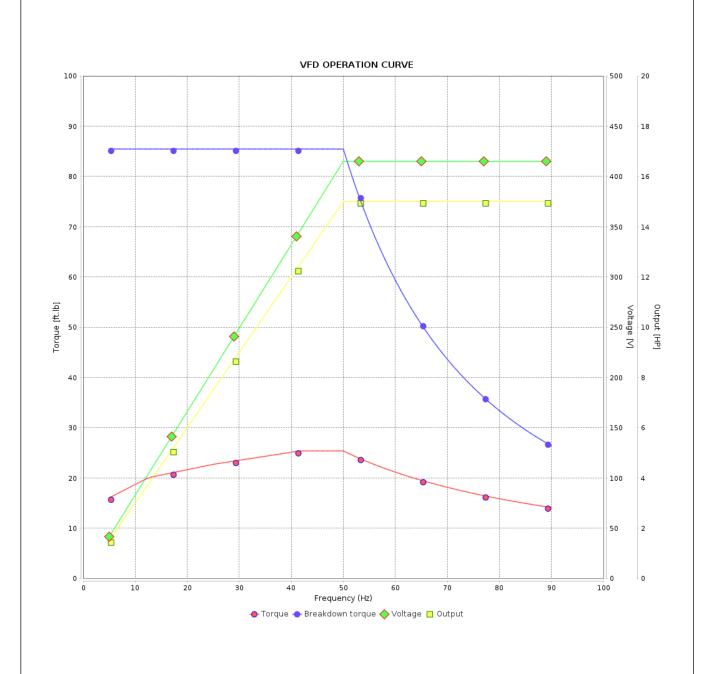
Product line : W40 JM Pump NEMA Premium Efficiency

Three-Phase

Product code: 14483518

Catalog #: 02036OT3E254JM-W40

21 / 21



| 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 Rev. Changes Summary Performed Checked | Performance | : 415 V 50 Hz 2P IE3 | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------|-----------|----------------------------------------|----------|
| Performed by | LRC Rated torque Locked rotor torque Breakdown torque | : 6.9 : 26.7 ft.lb : 229 % : 350 % | Duty cycle Insulation class Service factor Temperature rise | | : Cont.(S1) : F : 1.00 : 80 K | |
| | Rev. | Rev. Changes Summary | | Performed | Checked | Date |
| | Performed by | | | | | |
| Checked by Page | Checked by | | | | Page | Revision |

30/11/2022

Date

