DATA SHEET

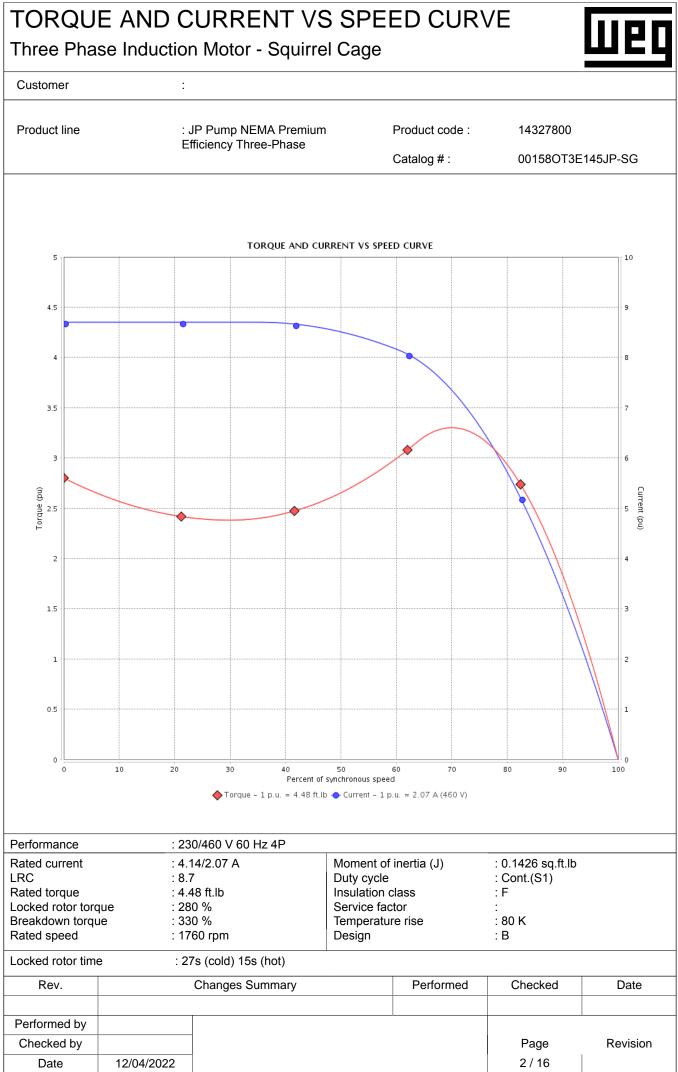
Three Phase Induction Motor - Squirrel Cage

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Customer

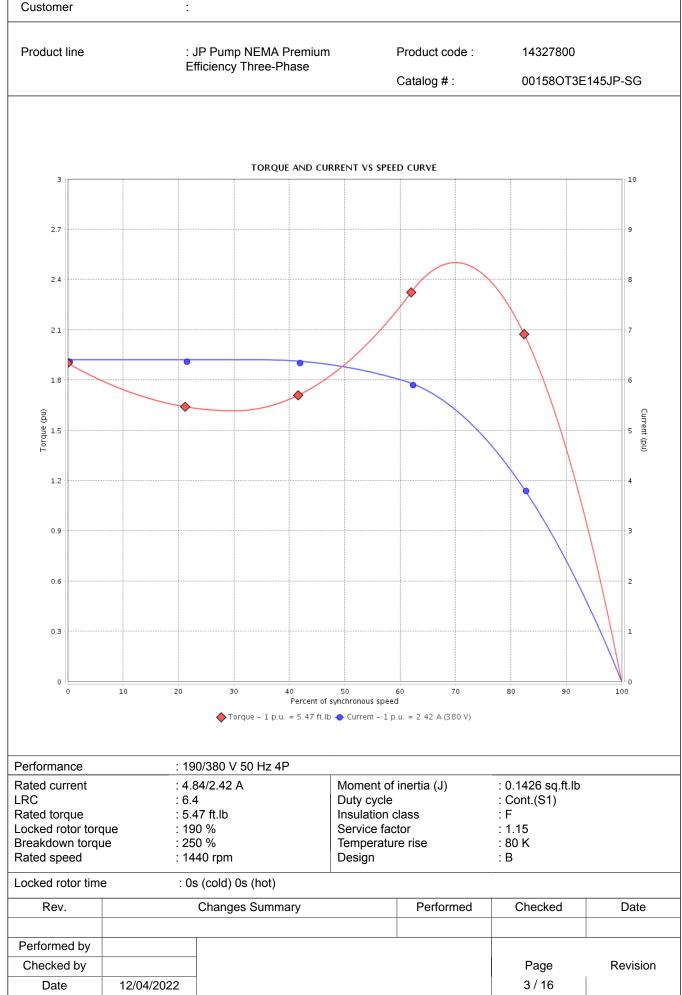
| Product line | | : JP Pump NEMA Premiun Efficiency Three-Phase | Product code : | 14327800 | | |
|--|--|---|-----------------------------|--|---------------------|--|
| | | | Catalog # : | 00158OT3E145JP- | 00158OT3E145JP-SG | |
| Frame | | : 143/5JP | Cooling method | : IC01 - ODP | | |
| Insulation class | | : F | Mounting | : F-1 | | |
| Duty cycle | | : Cont.(S1) | Rotation ¹ | | : Both (CW and CCW) | |
| Ambient tempera | ature | : -20°C to +40°C | Starting method | : Direct On Line | | |
| Altitude | | : 1000 m.a.s.l. | Approx. weight ³ | | : 41.9 lb | |
| Design | | : B | Moment of inertia (J) | : 0.1426 sq.ft.lb | | |
| | | | | | | |
| Output [HP] | | 1.5 | 1.5 | 1.5 | | |
| Poles | | 4 | 4 | 4 | | |
| Frequency [Hz] | | 60 | 50 | 50 | | |
| Rated voltage [V] | | 230/460 | 190/380 | 220/415 | | |
| Rated current [A] | | 4.14/2.07 | 4.84/2.42 | 4.41/2.34 | | |
| L. R. Amperes [A] | | 36.0/18.0 | 31.0/15.5 | 30.9/16.4 | 30.9/16.4 | |
| LRC [A] | | 8.7x(Code L) | 6.4x(Code H) | | 7.0x(Code J) | |
| No load current [A | 1 | 2.40/1.20 | 2.36/1.18 | 2.41/1.28 | , | |
| Rated speed [RPN | | 1760 | 1440 | 1445 | | |
| Slip [%] | 1 | 2.22 | 4.00 | 3.67 | | |
| | 1 | 4.48 | 5.47 | | 1 | |
| Rated torque [ft.lb] | | | | | 5.45 | |
| Locked rotor torqu | | 280 | 190 | | 220 | |
| Breakdown torque | e [%] | 330 | 250 | | 280 | |
| Service factor | | | 1.15 | | 1.15 | |
| Temperature rise | | 80 K | 80 K | | 80 K | |
| Locked rotor time | | 27s (cold) 15s (hot) | 0s (cold) 0s (hot) | 0s (cold) 0s (h | ot) | |
| Noise level ² | | 52.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) | | |
| | 25% | 83.6 | 85.3 | 84.0 | | |
| | 50% | 84.0 | 84.3 | 83.6 | | |
| Efficiency (%) | 75% | 86.5 | 84.7 | 84.8 | | |
| | 100% | 86.5 | 83.2 | 83.9 | | |
| | 25% | 0.32 | 0.38 | 0.35 | | |
| | | | | | | |
| Power Factor | 50% | 0.56 | 0.64 | 0.60 | | |
| | 75% | 0.69 | 0.77 | 0.73 | | |
| | 100% | 0.77 | 0.83 | 0.81 | | |
| | | Drive end Non drive e | nd Foundation loads | | | |
| Bearing type | | : 6206 ZZ 6203 Z | Max. traction | : 112 lb | | |
| Sealing | | : Without Withou | | : 154 lb | | |
| | | Bearing Seal Bearing S | | | | |
| Lubrication interv | val | : | | | | |
| Lubricant amoun | | : | | | | |
| Lubricant type | - | : Mobil Polyrex EM | | | | |
| | | | | | | |
| Notes USABLE @208V | 4.58A SF 1. | 00 SFA 4.58A | | | | |
| | ed. lotor from the Im and with t | ncel the previous one, which e shaft end. olerance of +3dB(A). et to changes after | | s based on tests with sinus he tolerances stipulated in | | |
| (3) Approximate w manufacturing pro | ocess. | | | | | |
| (1) Looking the m(2) Measured at 1(3) Approximate v | ocess. | | | | | |
| (1) Looking the m(2) Measured at 1(3) Approximate vmanufacturing pro | ocess. | Changes Summary | Performed | Checked E | Date | |
| (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful | ocess. | Changes Summary | Performed | Checked E | Date | |
| (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by | ocess. | Changes Summary | Performed | | | |
| (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. | ocess. | | Performed | | Date | |



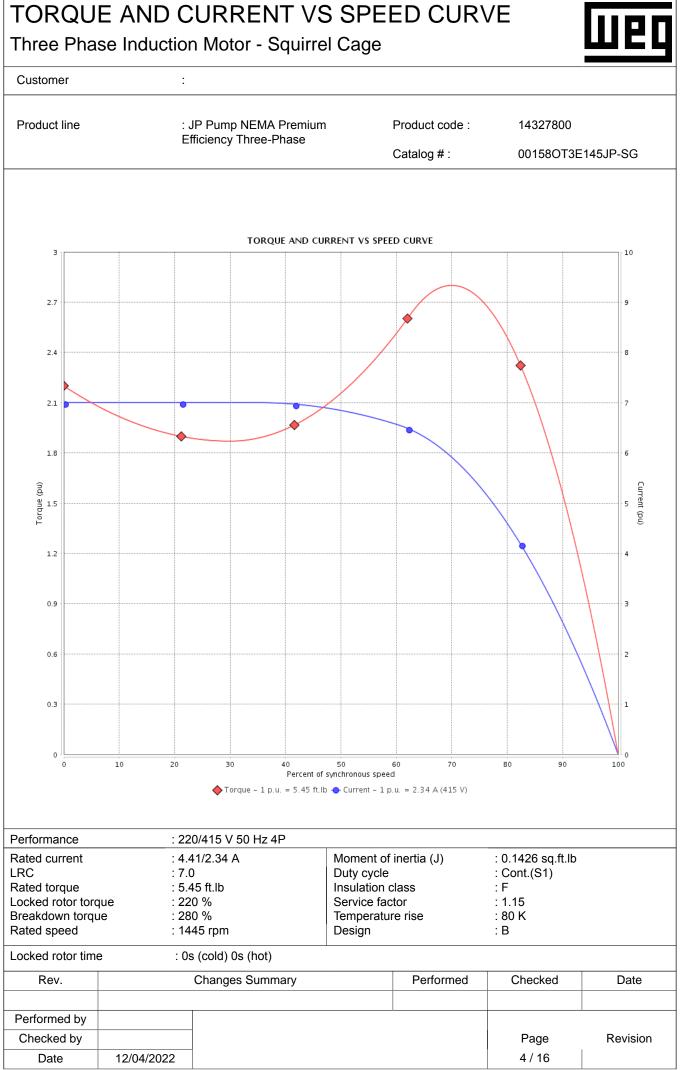
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



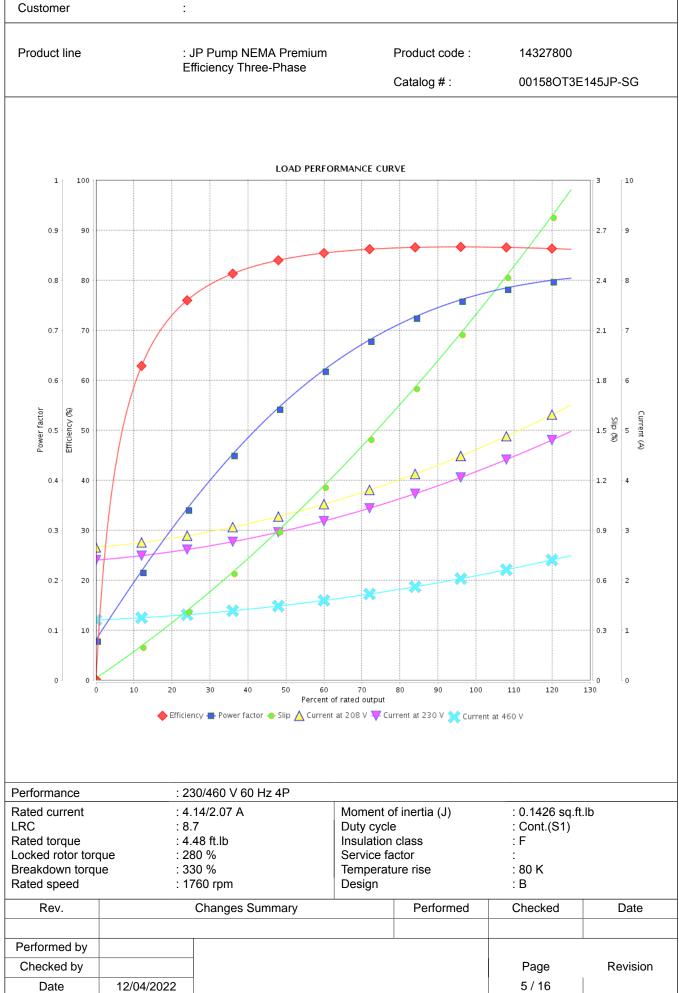
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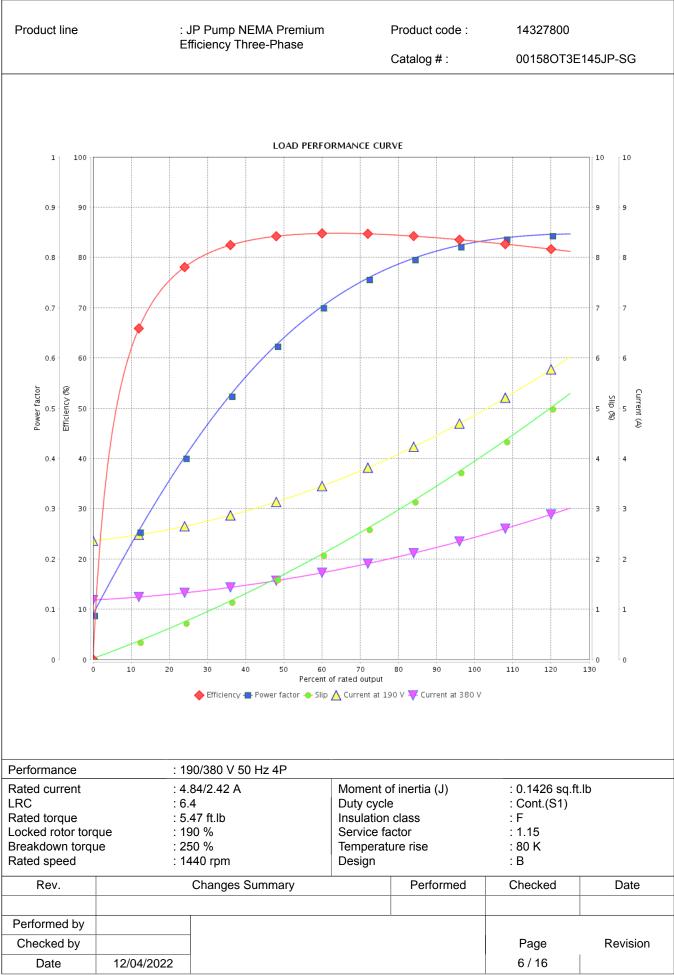
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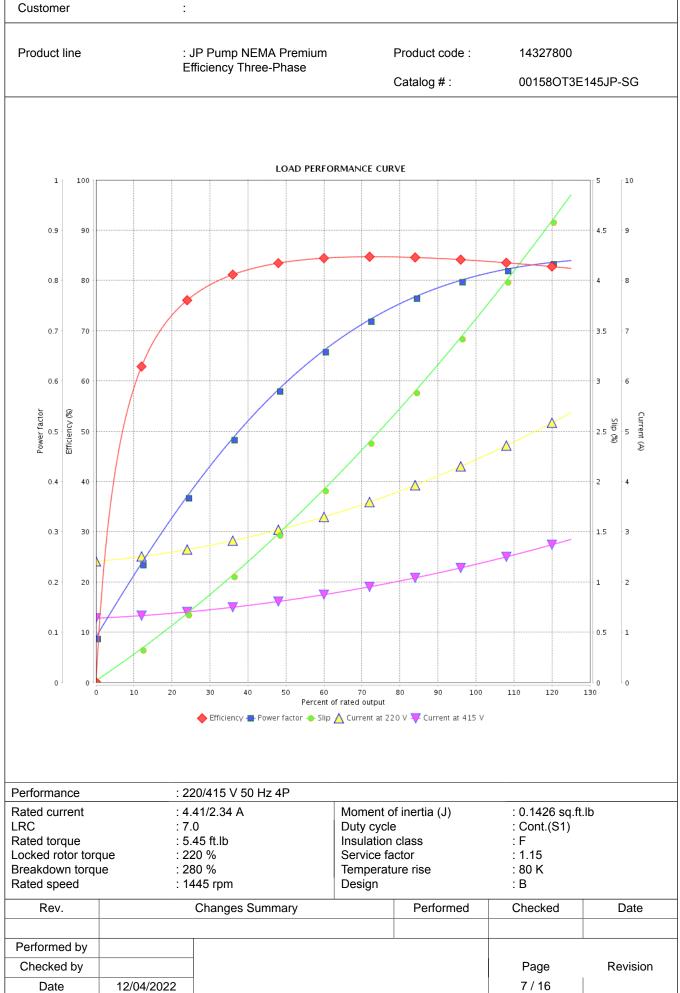
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THERMAL LIMIT CURVE

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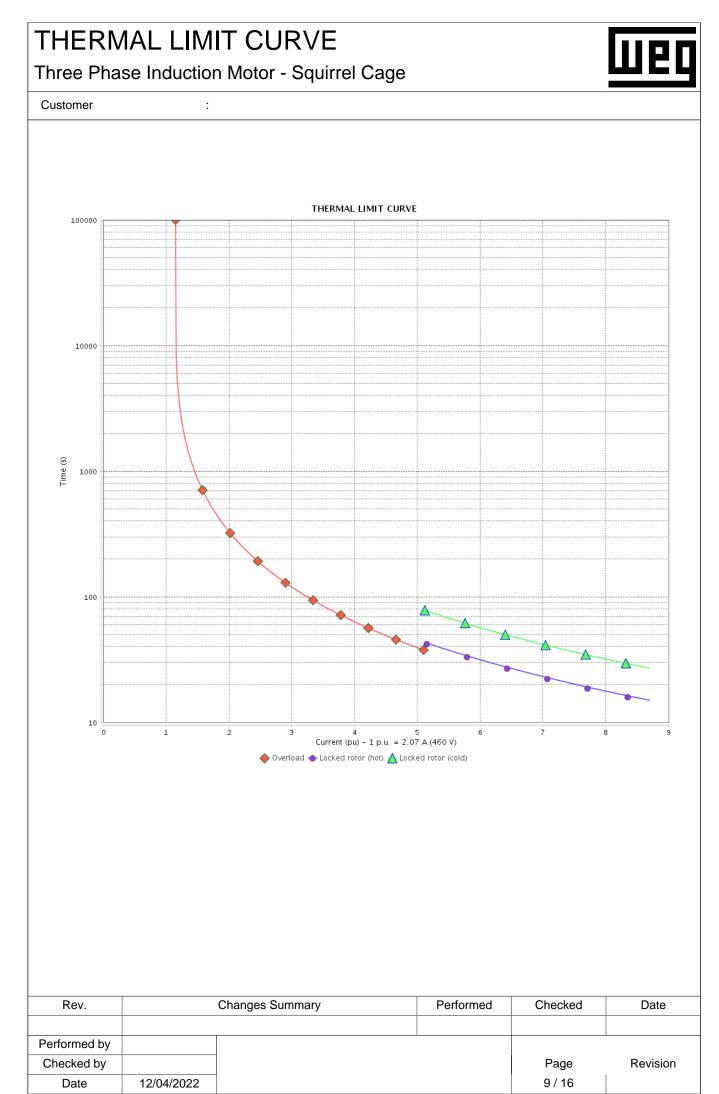


Customer

| Product line | | : JP Pump NEMA Premium Efficiency Three-Phase | | Product code : Catalog # : | 14327800 00158OT3E145JP-SG | | |
|---|------------|--|---|-------------------------------|---|-----------------------------------|--|
| | | | | | | | |
| Defenses | | | | | | | |
| Performance | | 30/460 V 60 Hz 4P | Momenta | finartia (I) | · 0 1426 ~~ # | lb | |
| LRC: 8.7Rated torque: 4.48Locked rotor torque: 280 °Breakdown torque: 330 ° | | 48 ft.lb 30 % | Moment o Duty cycle Insulation Service fa Temperatu Design | class ctor | : 0.1426 sq.ft. : Cont.(S1) : F : : 80 K : B | : Cont.(S1) : F : : 80 K | |
| Heating constant | t | | | | | | |
| Cooling constant | | | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date | |
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| Performed by | <u> </u> | | | | | | |
| Checked by | <u> </u> | - | | | Page | Revision | |
| Date | 12/04/2022 | | | | 8 / 16 | | |

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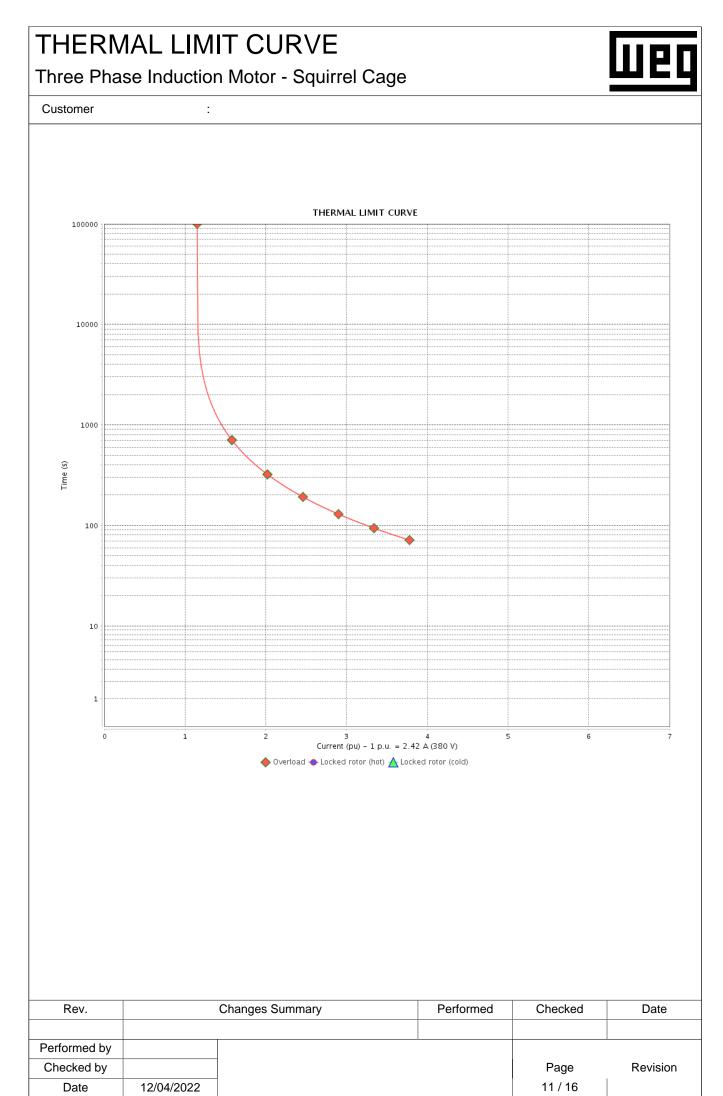


Customer

| Product line | | : JP Pump NEMA Premium Efficiency Three-Phase | | Product code : Catalog # : | 14327800 00158OT3E145JP-SG | |
|-----------------------------------|------------|--|--------------------------|-------------------------------|-------------------------------|----------|
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| | | | | | | |
| Performance | : 19 | 90/380 V 50 Hz 4P | | | | |
| Rated current | | 84/2.42 A | Moment o | f inertia (J) | : 0.1426 sq.ft | lb |
| LRC | : 6. | | Duty cycle | | : Cont.(S1) | |
| Rated torque Locked rotor torc | | 47 ft.lb 90 % | Insulation Service fa | | : F : 1.15 | |
| Breakdown torqu | | 50 % | Temperati | | : 80 K | |
| Rated speed | | 440 rpm | Design | | : B | |
| Heating constant | | | | | | |
| Cooling constant | | | | | | |
| Rev. | | | | Performed | Checked | Date |
| | | | | | | |
| Performed by | | | | | | |
| Checked by | | • | | | Page | Revision |
| Date | 12/04/2022 | | | | 10 / 16 | |

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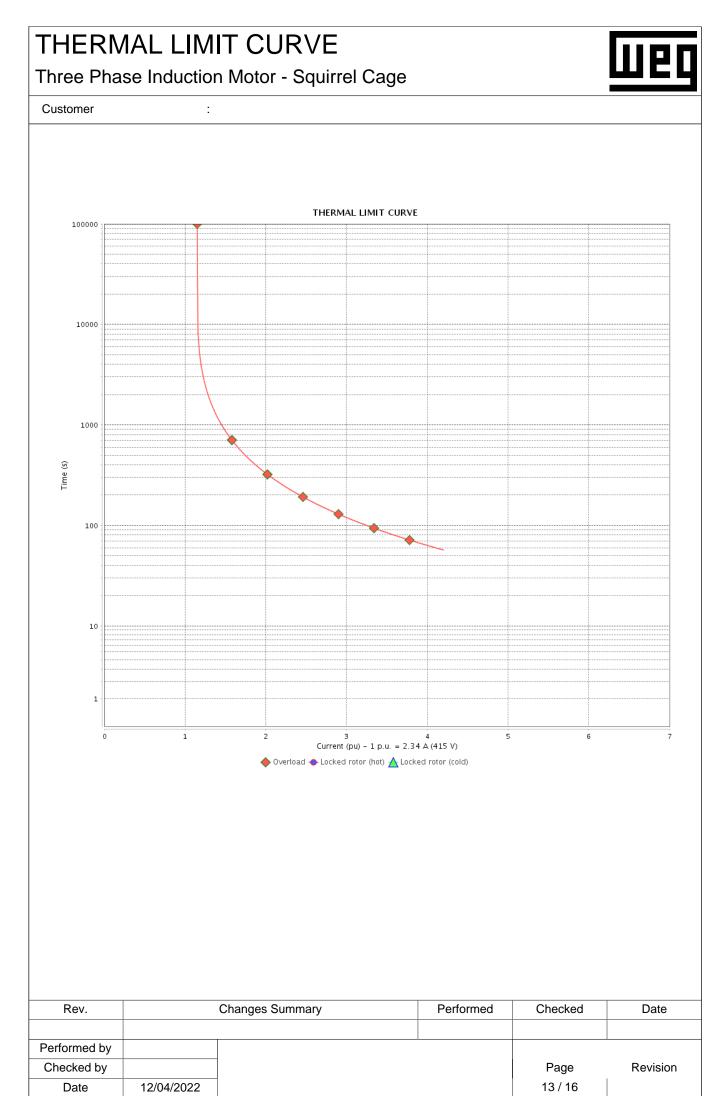


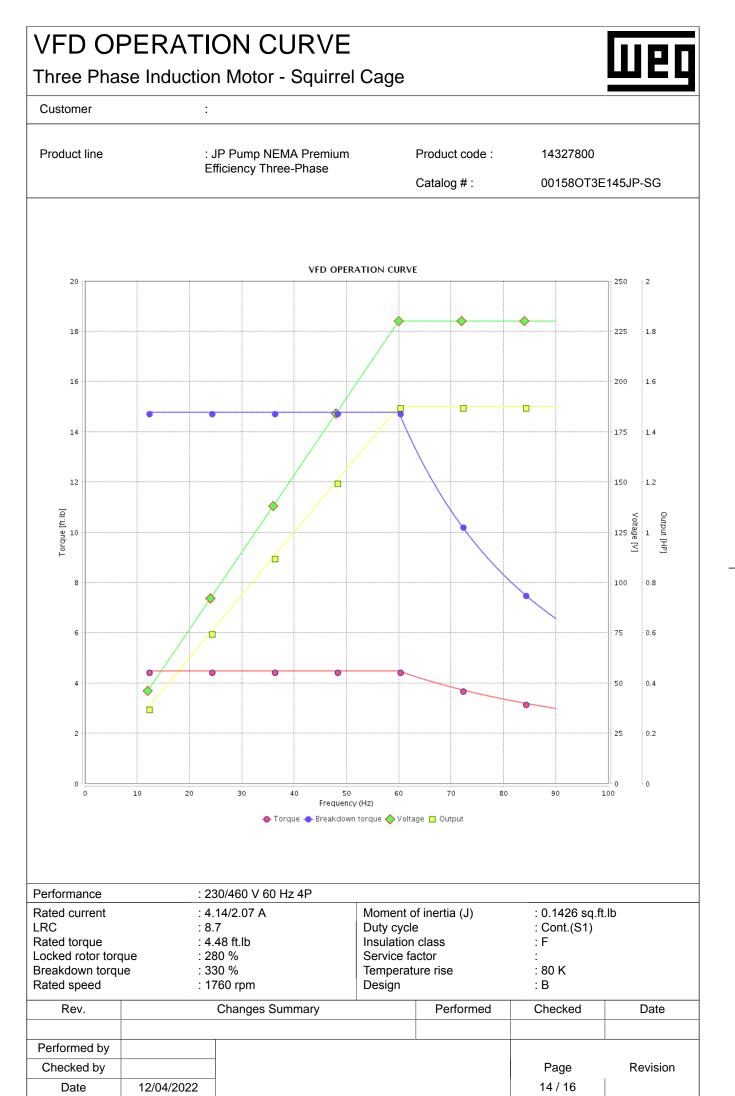
Customer

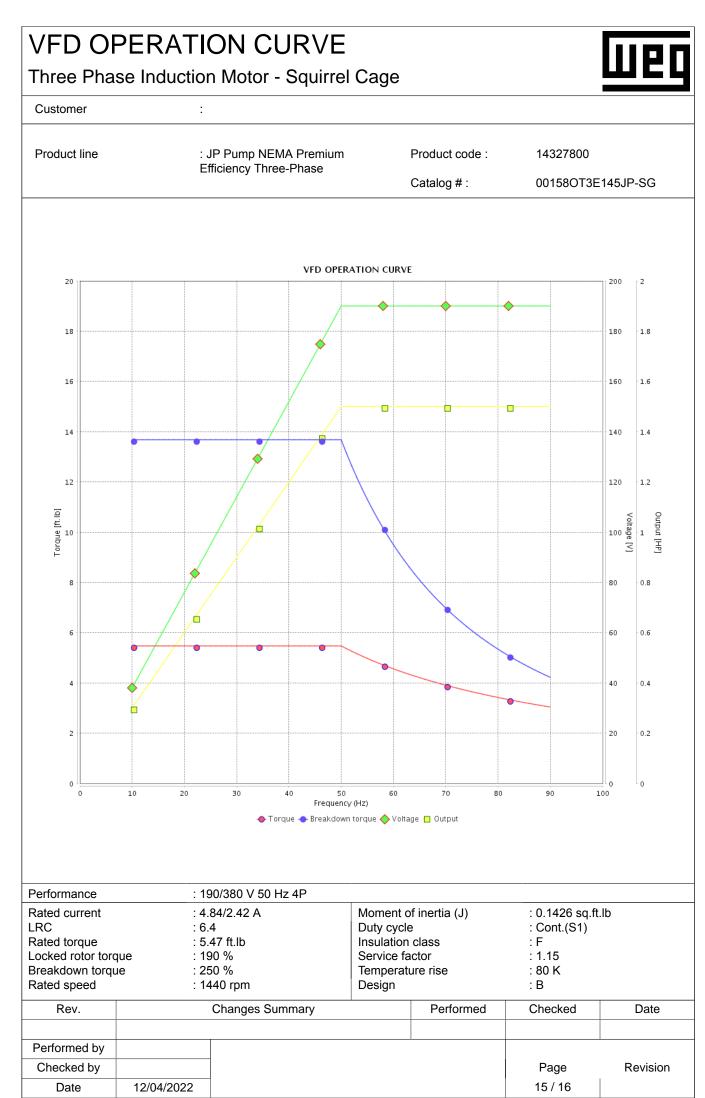
| Product line | | : JP Pump NEMA Premium Efficiency Three-Phase | | Product code : Catalog # : | 14327800 00158OT3E145JP-SG | |
|--|------------|--|---|-------------------------------|--|----------|
| | | | | | | |
| Performance | : 22 | 20/415 V 50 Hz 4P | | | | |
| Rated current: 4.41/2.34 ALRC: 7.0Rated torque: 5.45 ft.lbLocked rotor torque: 220 %Breakdown torque: 280 %Rated speed: 1445 rpm | | 0 45 ft.lb 20 % 80 % | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.1426 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Heating constant | + | | | | | |
| Cooling constant | | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
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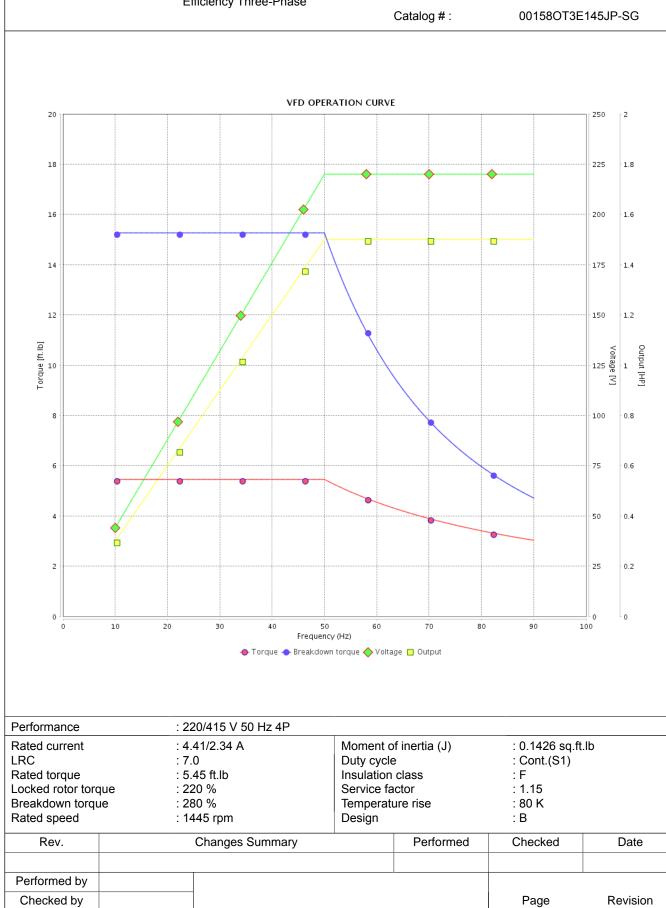
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VFD OPERATION CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : JP Pump NEMA Premium Product code : Efficiency Three-Phase



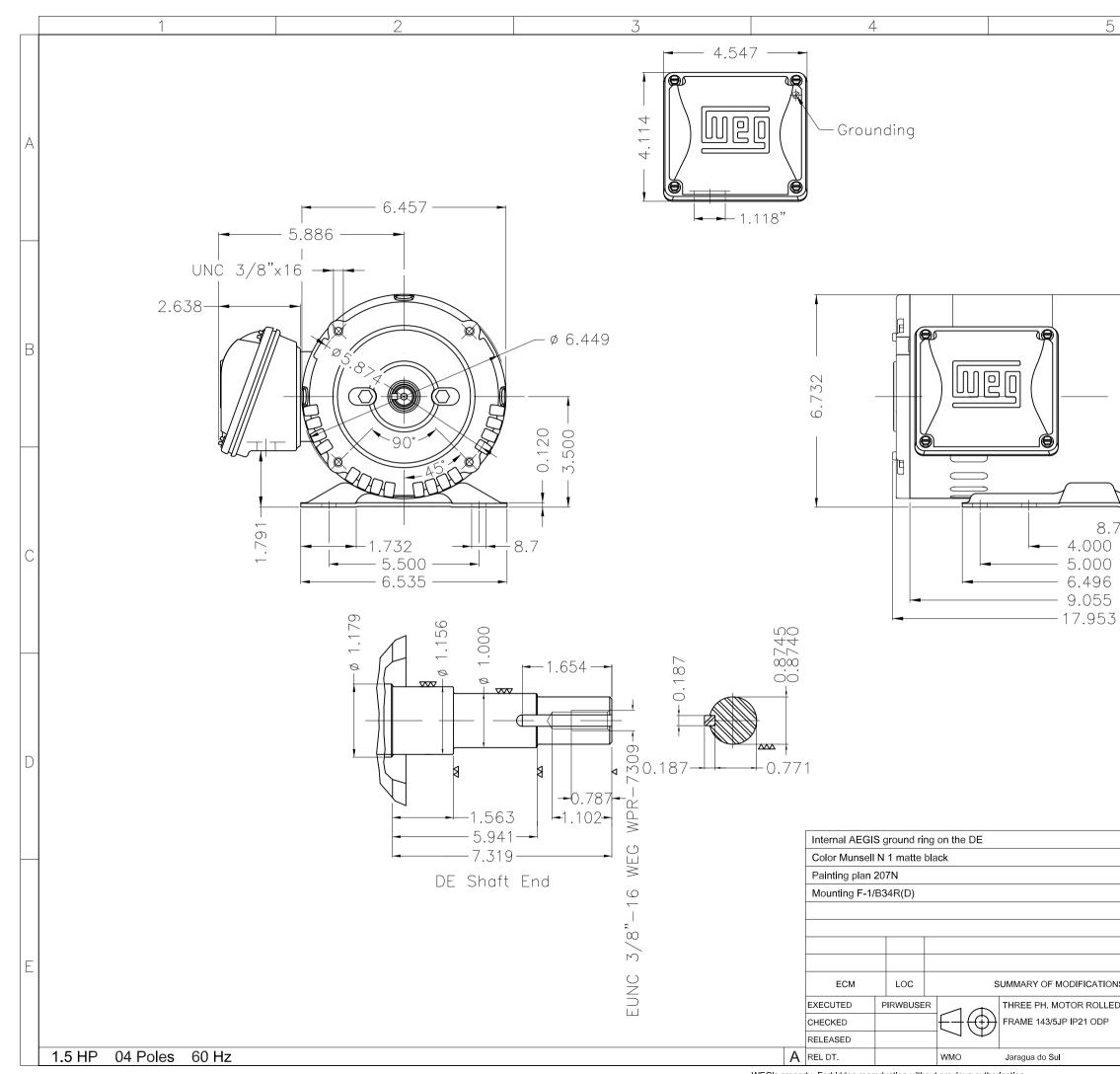
14327800

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16/16

Date

12/04/2022



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| | | - 0.157 | | | Dimensions in inches |
|-----------------|---------------|---------|----------|------|----------------------|
| | | | | | |
| IONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
| LED STEEL CLOSE | COUPLED PU | ₽ JPREV | 1EW | | = |
|)P | | WDD | | ШВ | A3 |
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