DATA SHEET

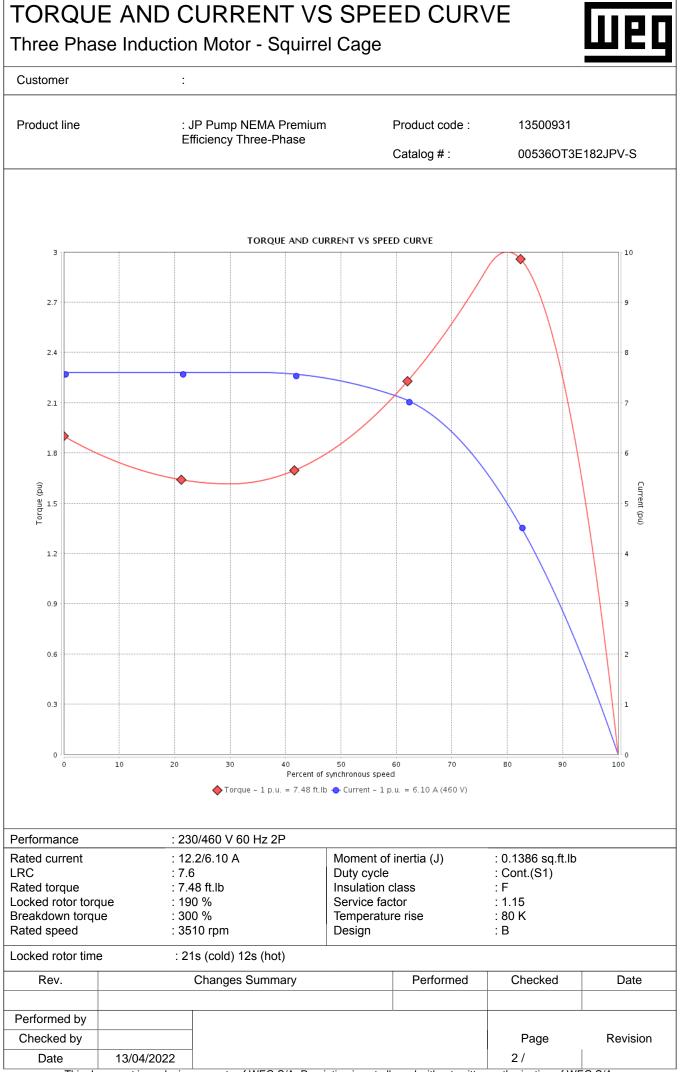
Three Phase Induction Motor - Squirrel Cage

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Customer

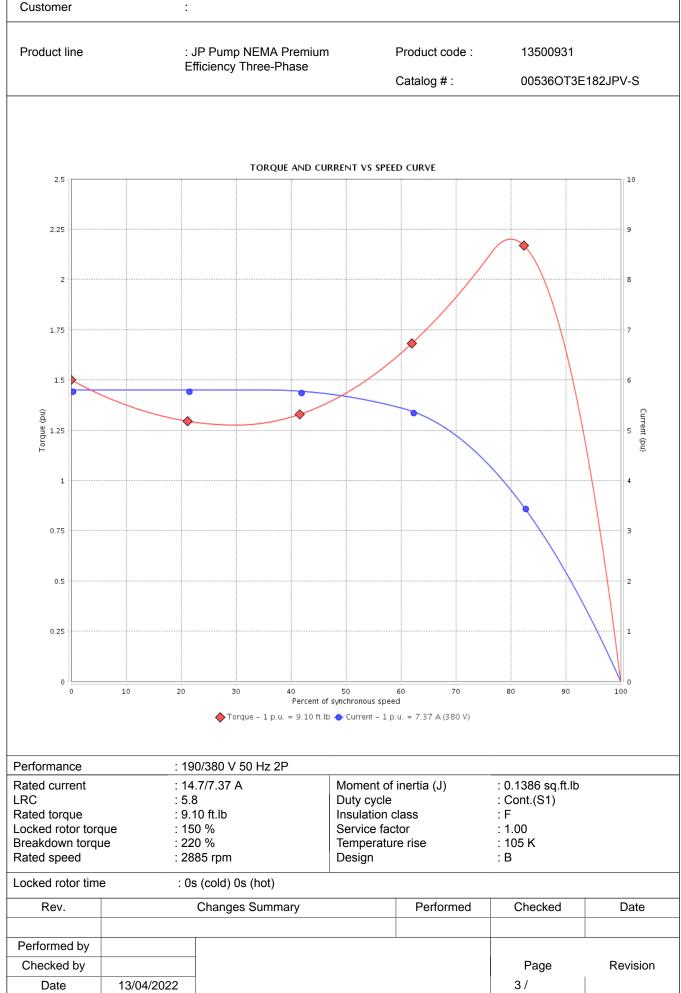
| Product line | | : JP Pump NEMA Prem Efficiency Three-Phase | | Product code : | | 13500931 | | |
|---|---|--|---------------------------|--|-------------------------------|--------------------|--|--|
| | | | | Catalog # : | 00536OT3E | 182JPV-S | | |
| Frame | | : 182/4JP | Cooling | l method | : IC01 - OD | Р | | |
| Insulation class | | : F | Mountir | | : W-6 | | | |
| Duty cycle | | : Cont.(S1) | Rotatio | | : Both (CW | and CCW) | | |
| Ambient temperature | | : -20°C to +40°C | | g method | : Direct On | | | |
| Altitude | | : 1000 m.a.s.l. | | . weight ³ | | : 62.2 lb | | |
| Design | | : B | | t of inertia (J) | : 0.1386 sq. | .ft.lb | | |
| Dutput [HP] | | 5 | | 5 | | 5 | | |
| Poles | | 2 | | 2 | | 2 | | |
| Frequency [Hz] | | 60 | | 50 | | 50 | | |
| Rated voltage [V] | | 230/460 | | 190/380 | | 220/415 | | |
| Rated current [A] | | 12.2/6.10 | | 14.7/7.37 | | 13.2/7.01 | | |
| . R. Amperes [A] | | 92.7/46.4 | | 85.5/42.7 | | 86.0/45.6 | | |
| | | | | | | 6.5x(Code H) | | |
| RC [A] lo load current [A | 1 | 7.6x(Code J) | | 5.8x(Code G) | | | | |
| • | - | 5.15/2.58 | | 5.05/2.53 | | 33/2.83 | | |
| Rated speed [RPN | /1] | 3510 | | 2885 | | 2900 | | |
| Slip [%] | 1 | 2.50 | | 3.83 | | 3.33 | | |
| Rated torque [ft.lb] | | 7.48 | | 9.10 | | 9.05 | | |
| ocked rotor torqu | | 190 | | 150 | | 170 | | |
| Breakdown torque | [%] | 300 | | 220 | | 250 | | |
| Service factor | | 1.15 | | 1.00 | | 1.00 | | |
| Temperature rise | | 80 K | | 105 K | | 80 K | | |
| ocked rotor time | | 21s (cold) 12s (hot |) 0s | s (cold) 0s (hot) | | Os (cold) Os (hot) | | |
| loise level ² | | 65.0 dB(A) | | 63.0 dB(A) | | 0 dB(A) | | |
| | 25% | 85.2 | | 88.3 | | 87.1 | | |
| Efficiency (%) | 50% | 85.5 | | 86.5 | | 86.0 | | |
| Efficiency (%) | 75% | 86.5 | | 86.0 | | 86.2 | | |
| 10 | 100% | 86.5 | | 83.8 | | 84.7 | | |
| | 25% | 0.45 | | 0.51 | | 0.47 | | |
| Power Factor | 50% | 0.73 | | 0.79 | | 0.75 | | |
| | 75% | 0.83 | | 0.88 | | 0.85 | | |
| | 100% | 0.88 | | 0.91 0.90 | | 0.90 | | |
| | | Drive end Non driv | | ion loads | | | | |
| Bearing type | | : 6207 ZZ 6209 | 5 ZZ Max. tra | Max. traction : 113 lb | | | | |
| Sealing | | : Without With | | mpression | : 175 lb | : 175 lb | | |
| | | Bearing Seal Bearin | Bearing Seal Bearing Seal | | | | | |
| Lubrication interv | | : | . | | | | | |
| Lubricant amoun | t | : - · | . | | | | | |
| Lubricant type | | : Mobil Polyrex EN | Λ | | | | | |
| Lubricant type | | | | | | | | |
| Lubricant type Notes USABLE @208V | 13.5A SF 1. | | · <u> </u> | | | | | |
| Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 | aces and car ed. lotor from the lm and with t veight subjec ocess. | 00 SFA 13.5A | ch These a | re average values upply, subject to the | | | | |
| Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro | aces and car ed. lotor from the lm and with t veight subjec ocess. | 00 SFA 13.5A Icel the previous one, whi shaft end. olerance of +3dB(A). | ch These a power s | | | | | |
| Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful | aces and car ed. lotor from the lm and with t veight subjec ocess. | 00 SFA 13.5A ncel the previous one, whi shaft end. olerance of +3dB(A). t to changes after | ch These a power s | upply, subject to the | e tolerances stipu | lated in NEMA | | |
| Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by | aces and car ed. lotor from the lm and with t veight subjec ocess. | 00 SFA 13.5A ncel the previous one, whi shaft end. olerance of +3dB(A). t to changes after | ch These a power s | upply, subject to the | e tolerances stipu Checked | Ilated in NEMA | | |
| Notes USABLE @208V This revision replanust be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. | aces and car ed. lotor from the lm and with t veight subjec ocess. | 00 SFA 13.5A ncel the previous one, whi shaft end. olerance of +3dB(A). t to changes after | ch These a power s | upply, subject to the | e tolerances stipu | lated in NEMA | | |



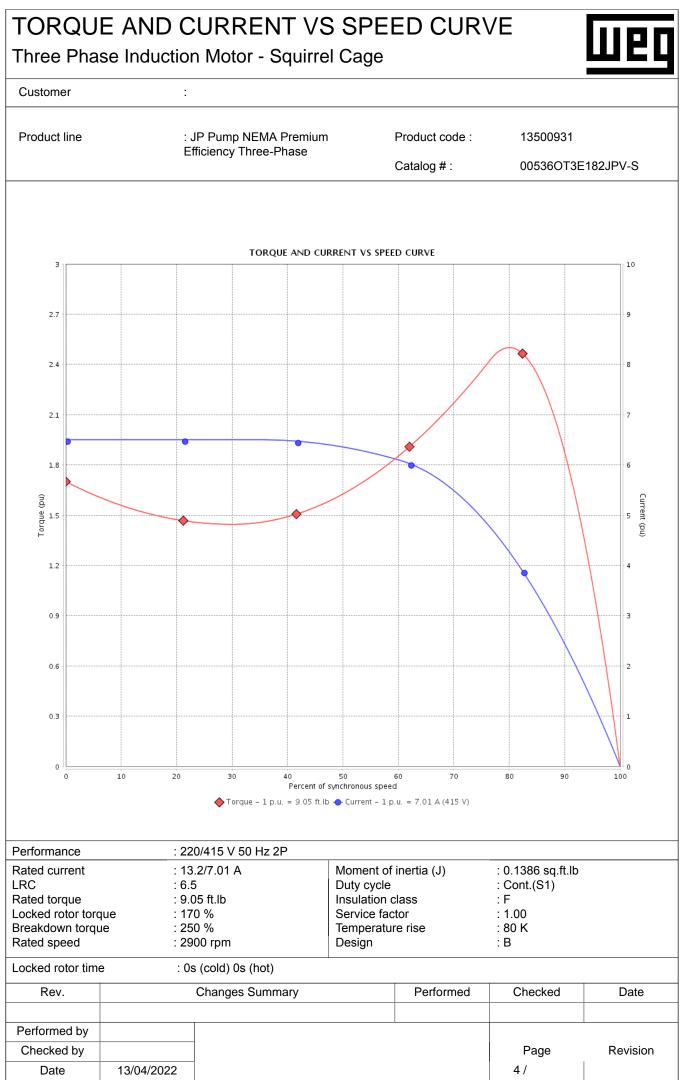
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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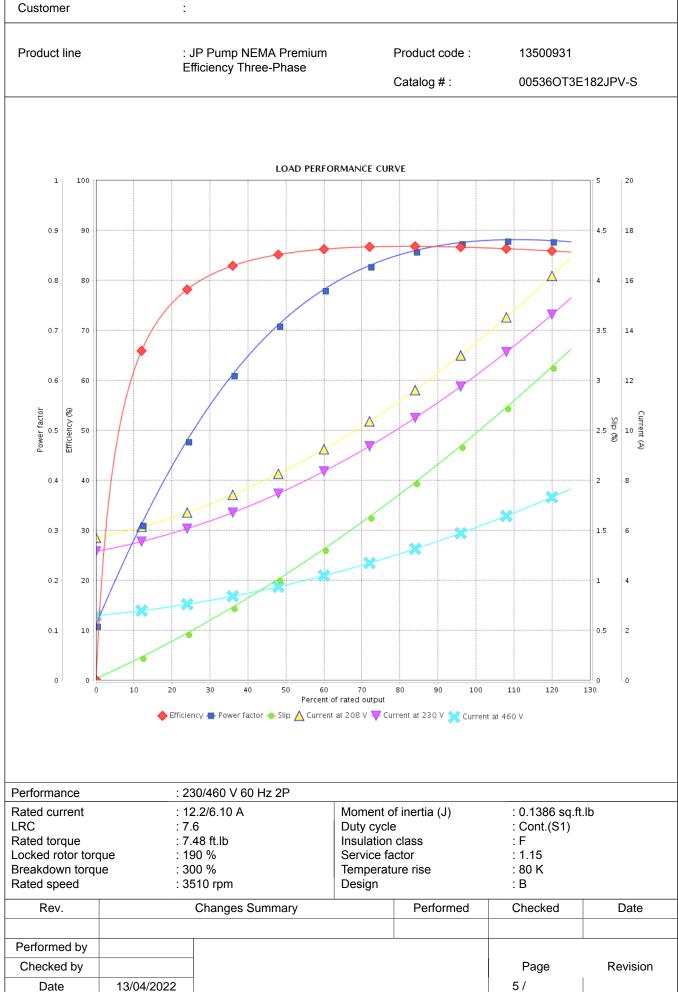


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LOAD PERFORMANCE CURVE

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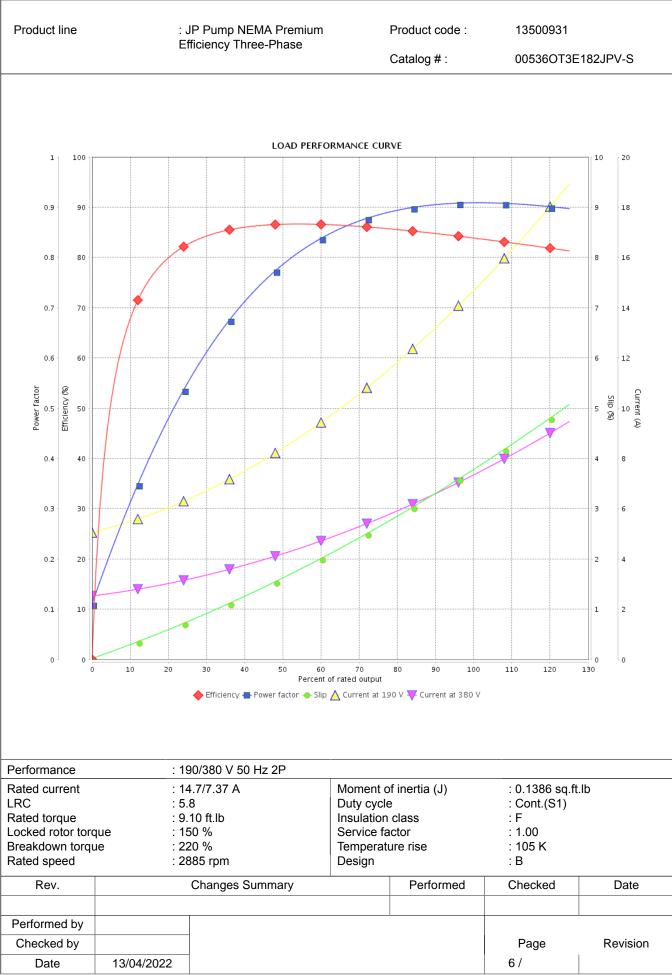
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Three Phase Induction Motor - Squirrel Cage

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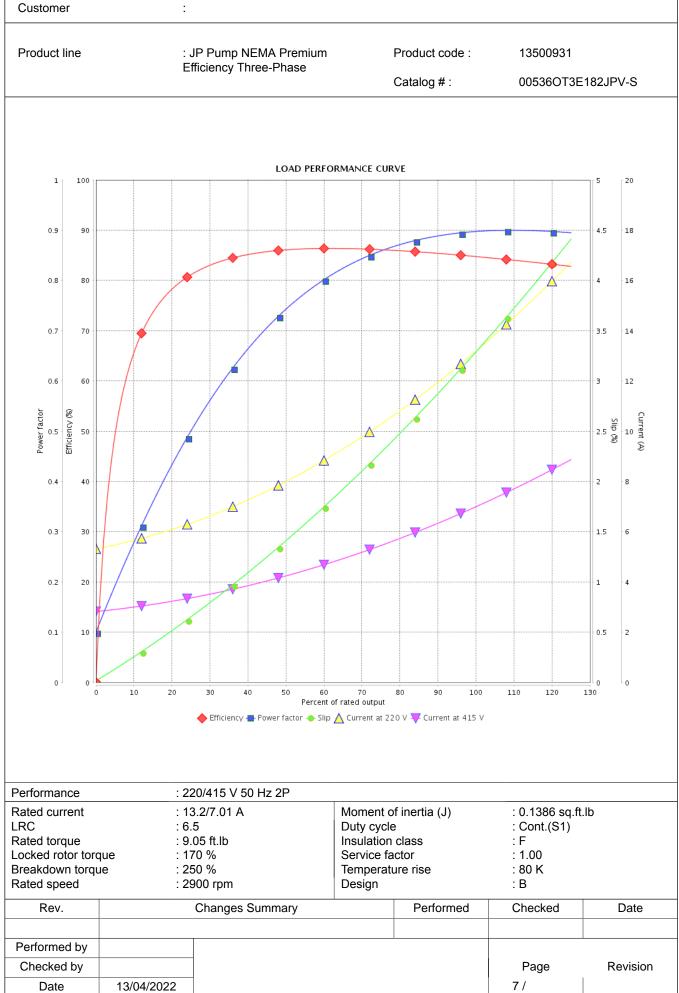
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

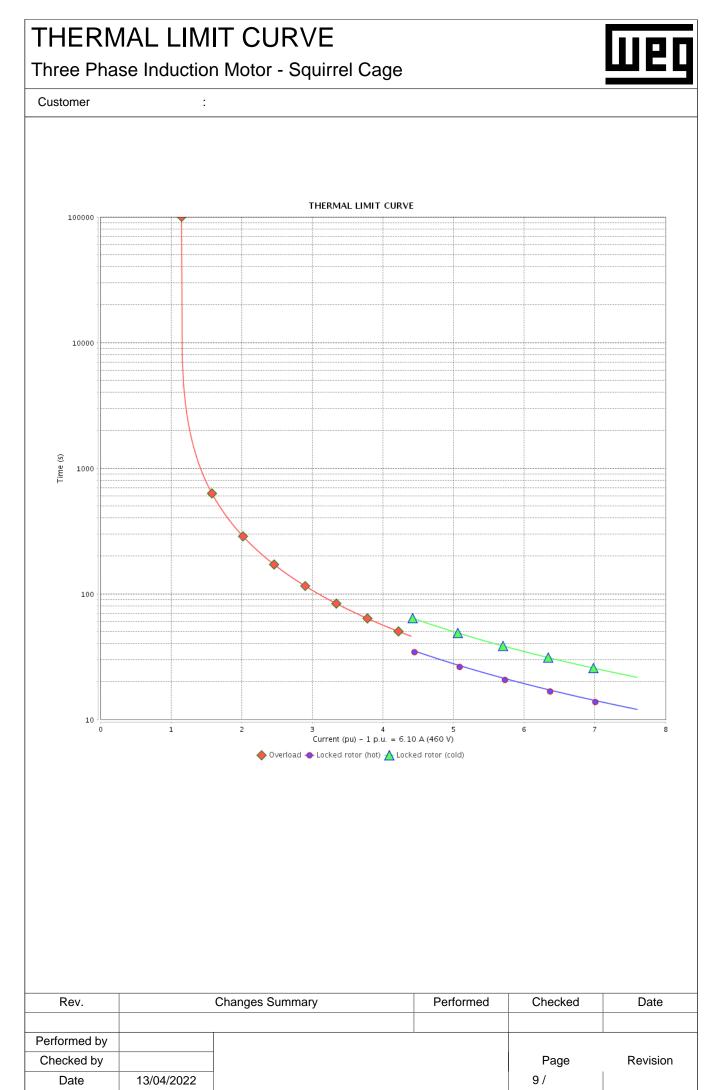
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| Product line | | : JP Pump NEMA Premium Efficiency Three-Phase | | Product code : | | 13500931 | |
|--------------------------------------|--------------|--|------------------------|----------------------------|--------------------------------|----------|--|
| | | | | Catalog # : | 00536OT3E | 182JPV-S | |
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| Performance | | 30/460 V 60 Hz 2P | •• • | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | | | |
| Rated current LRC | : 12 : 7. | 2.2/6.10 A 6 | Moment o Duty cycle | f inertia (J) | : 0.1386 sq.ft. : Cont.(S1) | lb | |
| Rated torque | : 7. | 48 ft.lb | Insulation | class | : F | | |
| Locked rotor toro | | 90 % 00 % | Service fa | | : 1.15 | | |
| Breakdown torqu Rated speed | | 510 % | Temperati Design | ure rise | : 80 K : B | | |
| | | • | 0 | | | | |
| Heating constant Cooling constant | | | | | | | |
| Rev. | - | Changes Summary | | Performed | Checked | Date | |
| - | | <u> </u> | | | | | |
| Performed by | | | | | | | |
| Checked by | | - | | | Page | Revision | |
| Date | 13/04/2022 | | | | 8/ | | |

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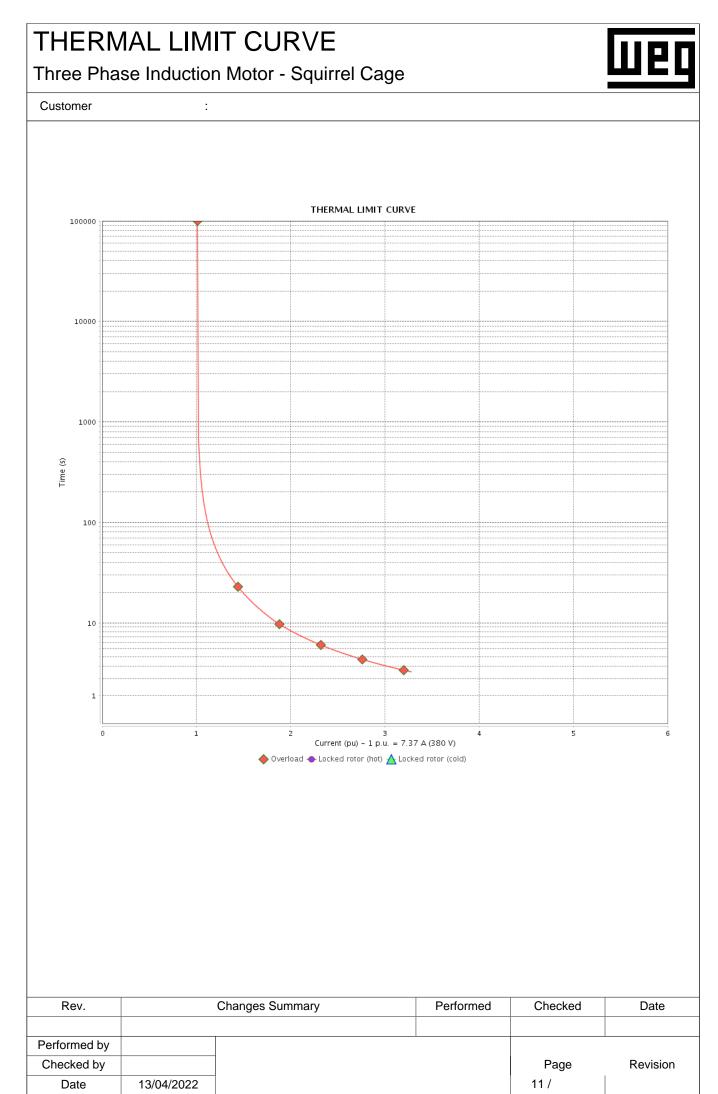
Three Phase Induction Motor - Squirrel Cage

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Customer

| | | | | D. I. I. I. | 12500021 | | |
|--|-----------------------------|--|-------------------------------------|-----------------|----------------------------------|----------|--|
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| | | | | Catalog # : | 00536OT3E | 182JPV-S | |
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| Performance | | 90/380 V 50 Hz 2P | N4 | fine entire (1) | . 0 4000 # | 11- | |
| Rated current LRC | : 12 | 4.7/7.37 A 8 | Moment of inertia (J) Duty cycle | | : 0.1386 sq.ft.lb : Cont.(S1) | | |
| Rated torque | Rated torque : 9.10 ft.lb | | Insulation class | | : F | | |
| | Locked rotor torque : 150 % | | Service factor | | : 1.00 : 105 K | | |
| Breakdown torque : 220 % Rated speed : 2885 rpm | | Temperature rise Design | | : B | | | |
| Heating constant | | | | | | | |
| Cooling constant | | | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date | |
| | | | | | | | |
| Performed by | | | | | | | |
| Checked by | | | | | Page | Revision | |
| Date | 13/04/2022 | | | | 10 / | | |



THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

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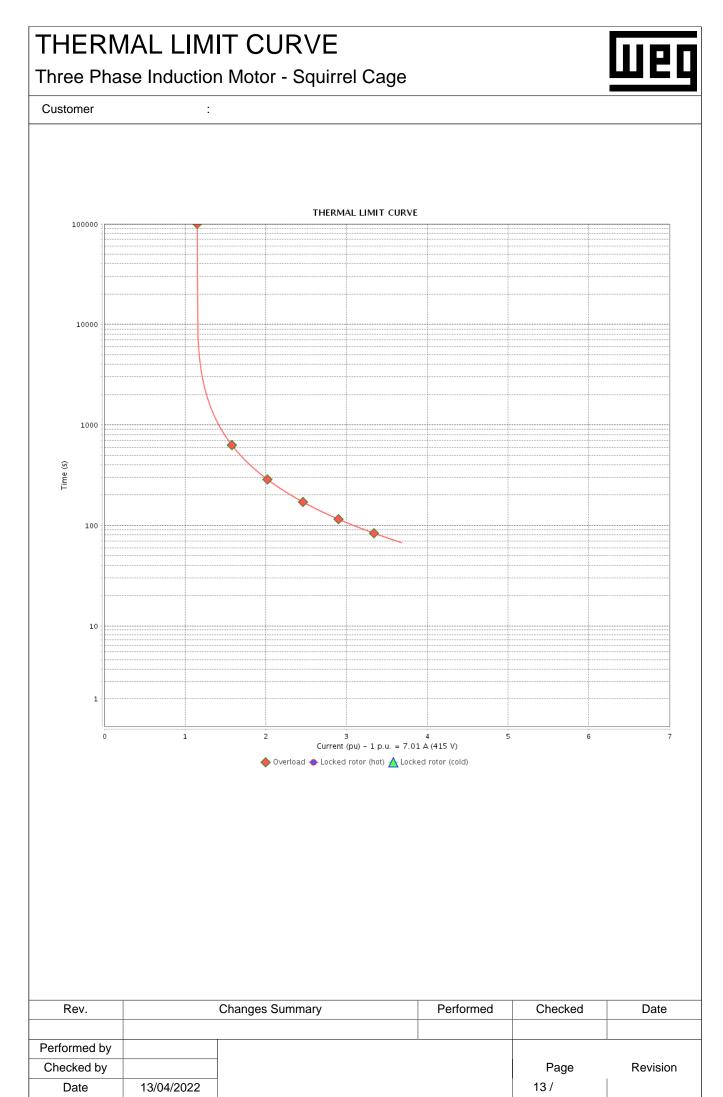


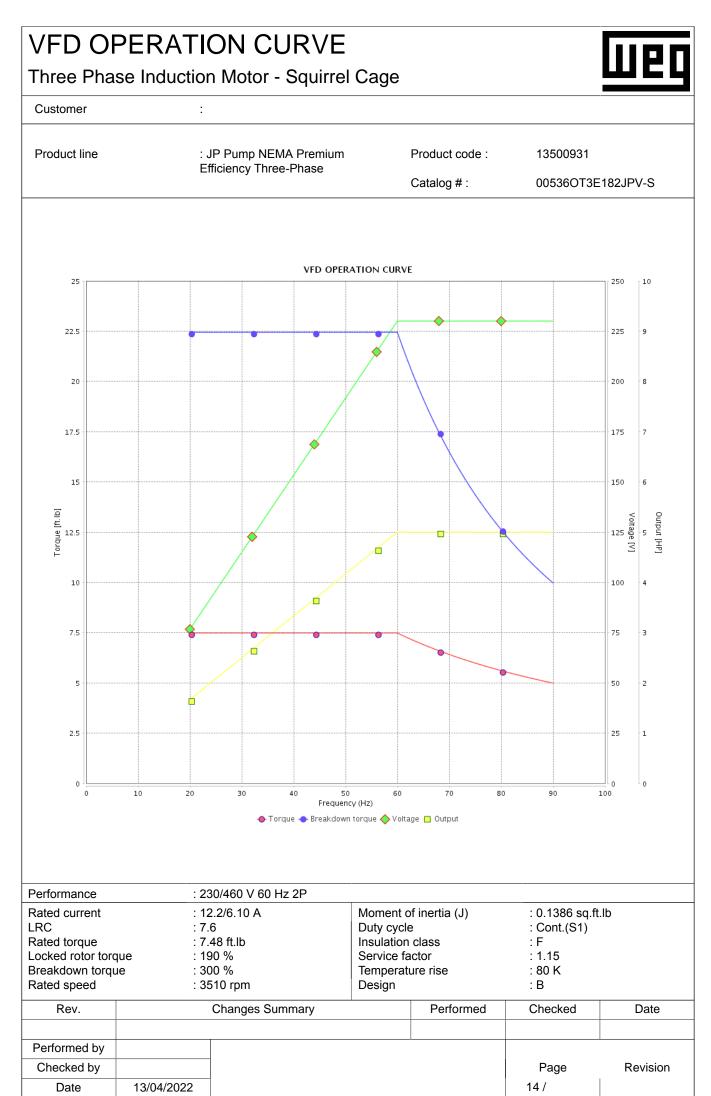
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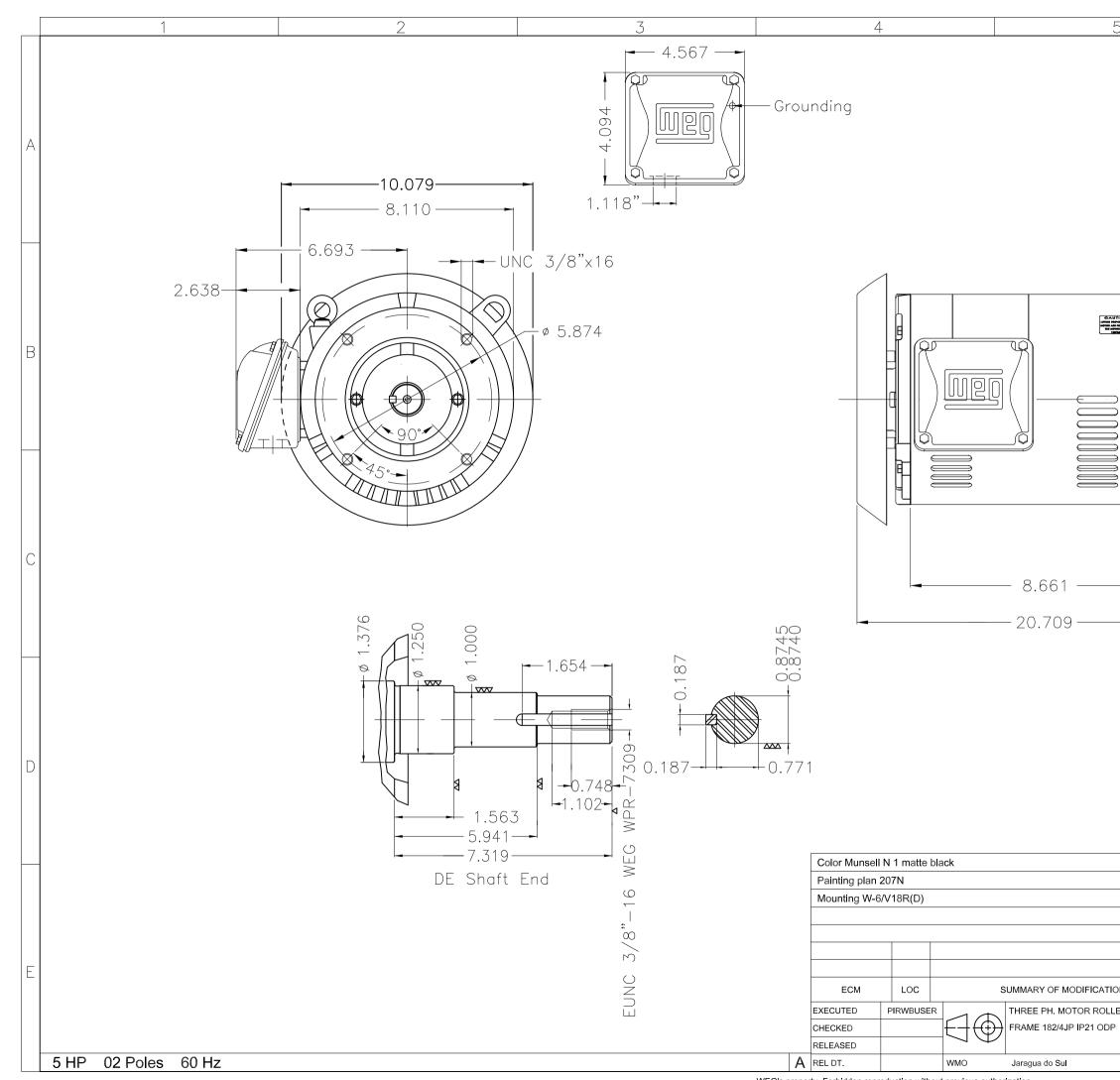
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|---|---------------------------------|--|---|----------------|--|----------|
| | _ | | | Catalog # : | 00536OT3E | 182JPV-S |
| | | | | | | |
| Performance | : 2 | 20/415 V 50 Hz 2P | | | | |
| Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed | : 6 : 9 jue : 1 ie : 2 | 3.2/7.01 A .5 .05 ft.lb 70 % 50 % 900 rpm | Moment of Duty cycle Insulation Service fa Temperat Design | class ictor | : 0.1386 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B | lb |
| Heating constant | | | | | | |
| Cooling constant | | | | · · · · | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 13/04/2022 | | | | 12 / | |

 13/04/2022
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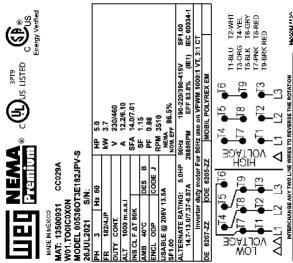






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| LED STEEL CLOSE | | | | | | A3 |
| Produc | t Engineering | | 1 / 1 | | | XME |
| | 0 | | / . | |] | × |



choc électrique grave. Déconnectez l'alimentation avant l'entrefien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre

