DATA SHEET

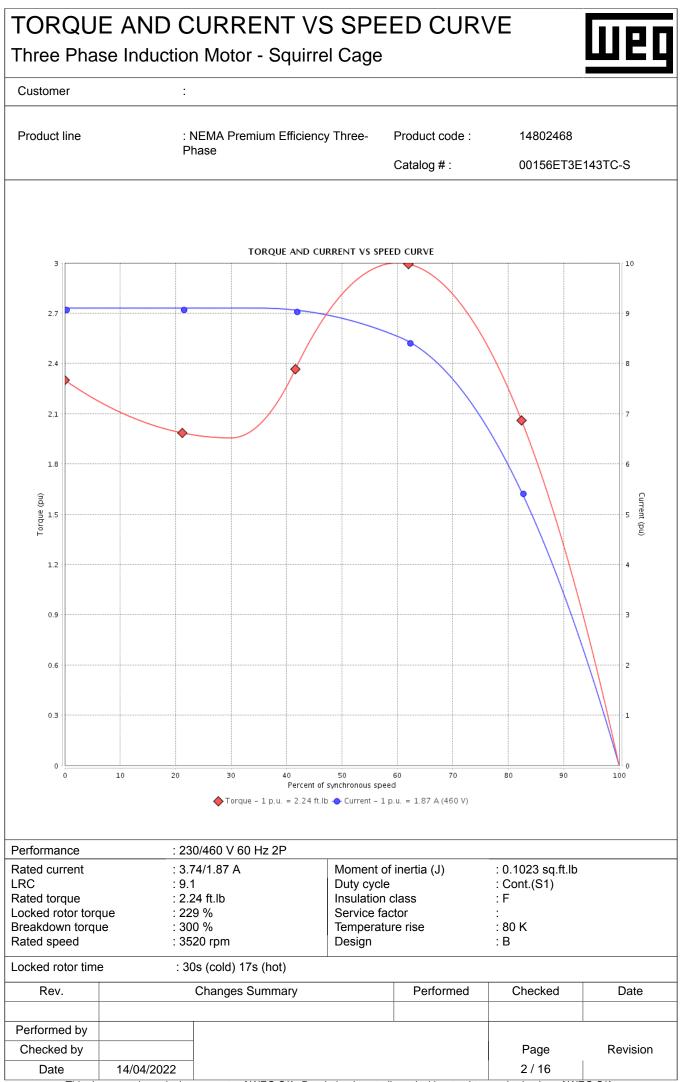
Three Phase Induction Motor - Squirrel Cage

:



Customer

| | Product line | | um Efficiency Tl | hree- Product code : | 14802468 | | |
|--|--|--|-------------------------|-----------------------------------|-----------------------|---------------------|--|
| Phase | | | | Catalog # : | 00156ET3E | 143TC-S | |
| Frame | | : 143/5TC | | Cooling method | : IC411 - TE | FC | |
| Insulation class | | : F | | Mounting | : F-1 | | |
| Duty cycle | | : Cont.(S1) | | Rotation ¹ | : Both (CW a | : Both (CW and CCW) | |
| Ambient tempera | ature | : -20°C to +40° | C | Starting method | : Direct On L | | |
| Altitude | | : 1000 m.a.s.l. | Ũ | Approx. weight ³ | : 35.5 lb | | |
| Protection degree | 0 | : IP55 | | Moment of inertia (J) | : 0.1023 sq.f | t lh | |
| Design | | : B | | | . 0. 1023 Sq.1 | 1.10 | |
| Output [HP] | | 1.5 | | 1.5 | | 1.5 | |
| oles | | 2 | | 2 | | 2 | |
| requency [Hz] | | 60 |) | 50 | | 50 | |
| Rated voltage [V] | | 230/4 | 460 | 190/380 | 22 | 0/415 | |
| Rated current [A] | | 3.74/ | 1.87 | 4.44/2.22 | 4.0 | 2/2.13 | |
| . R. Amperes [A] | | 34.0/ | | 32.0/16.0 | | 1/17.0 | |
| RC [A] | | 9.1x(Cc | | 7.2x(Code H) | | Code J) | |
| | 1 | 1.72/0 | | | | | |
| lo load current [A | | | | 1.69/0.845 | | 2/0.914 | |
| Rated speed [RPN | /I] | 352 | | 2895 | | 905 | |
| Slip [%] | | 2.2 | | 3.50 | | 3.17 | |
| Rated torque [ft.lb] | | 2.2 | 4 | 2.72 | 2 | 2.71 | |
| ocked rotor torqu | | 22 | 9 | 190 | : | 220 | |
| Breakdown torque | | 30 | 0 | 280 | | 310 | |
| Service factor | <u></u> | | | 1.15 | | 1.15 | |
| Temperature rise | | 80 | ĸ | 80 K | | 30 K | |
| | | | | | | | |
| Locked rotor time | | 30s (cold) 17s (hot) | | Os (cold) Os (hot) | | d) 0s (hot) | |
| Noise level ² | | 68.0 dB(A) | | 65.0 dB(A) | |) dB(A) | |
| | 25% | 78. | | 83.1 | | 32.2 | |
| Efficiency (%) | 50% | 80. | | 82.6 | | 32.2 | |
| | 75% | 82. | 5 | 83.8 | 3 | 34.0 | |
| | 100% | 84. | 0 | 82.9 | | 33.6 | |
| | 25% | 0.4 | | 0.49 | |).46 | |
| | 50% | 0.7 | | 0.77 | |).73 | |
| Power Factor | | | | | | | |
| | 75% | 0.8 | | 0.87 | |).84 | |
| | 100% | 0.8 | 8 | 0.91 | (|).89 | |
| | | Drive end | Non drive end | Foundation loads | | | |
| Bearing type | | : 6205 ZZ | 6203 ZZ | Max. traction | : 55 lb | | |
| Sealing | | : V'Ring | | Max. compression | : 91 lb | | |
| | | | Bearing Seal | | | | |
| | (al | : - | - | | | | |
| Lubrication interv | al | | | | | | |
| | | : - | - | | | | |
| Lubricant amoun | | : - · Mohil Pr | - Jvrex FM | | | | |
| Lubricant amoun Lubricant type | | : - : Mobil Po | - blyrex EM | | | | |
| Lubricant amoun | ıt | | - blyrex EM | | | | |
| Lubricant amoun Lubricant type Notes | ıt | | - blyrex EM | | | | |
| Lubricant amoun Lubricant type Notes | ıt | | - blyrex EM | | | | |
| Lubricant amoun Lubricant type Notes USABLE @208V | 4.13A SF 1. | 00 SFA 4.13A | | These are average value | es hased on tests wit | h sinusoidal | |
| Lubricant amoun Lubricant type Notes USABLE @208V | 4.13A SF 1. | 00 SFA 4.13A | | These are average value | | | |
| Lubricant amoun Lubricant type Notes USABLE @208V This revision repla must be eliminate | 4.13A SF 1. | 00 SFA 4.13A | | power supply, subject to | | | |
| Lubricant amoun Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m | 4.13A SF 1. aces and car d. notor from the | 00 SFA 4.13A | one, which | | | | |
| Lubricant amoun Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 | 4.13A SF 1.4 aces and car ed. notor from the Im and with t | 00 SFA 4.13A ncel the previous e shaft end. colerance of +3dB | one, which (A). | power supply, subject to | | | |
| Lubricant amoun Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v | 4.13A SF 1. aces and car ed. notor from the Im and with t weight subject | 00 SFA 4.13A ncel the previous e shaft end. colerance of +3dB | one, which (A). | power supply, subject to | | | |
| Lubricant amoun Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro | 4.13A SF 1. aces and car ed. lotor from the Im and with t weight subject occess. | 00 SFA 4.13A ncel the previous e shaft end. colerance of +3dB | one, which (A). | power supply, subject to | | | |
| Lubricant amoun Lubricant type 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 | 4.13A SF 1. aces and car ed. lotor from the Im and with t weight subject occess. | 00 SFA 4.13A ncel the previous e shaft end. colerance of +3dB ct to changes afte | one, which (A). r | power supply, subject to MG-1. | the tolerances stipul | ated in NEMA | |
| Lubricant amoun Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro | 4.13A SF 1. aces and car ed. lotor from the Im and with t weight subject occess. | 00 SFA 4.13A ncel the previous e shaft end. colerance of +3dB | one, which (A). r | power supply, subject to | | | |
| Lubricant amoun Lubricant type 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 | 4.13A SF 1. aces and car ed. lotor from the Im and with t weight subject occess. | 00 SFA 4.13A ncel the previous e shaft end. colerance of +3dB ct to changes afte | one, which (A). r | power supply, subject to MG-1. | the tolerances stipul | ated in NEMA | |
| Lubricant amoun Lubricant type 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 | 4.13A SF 1. aces and car ed. lotor from the Im and with t weight subject occess. | 00 SFA 4.13A ncel the previous e shaft end. colerance of +3dB ct to changes afte | one, which (A). r | power supply, subject to MG-1. | the tolerances stipul | ated in NEMA | |
| Lubricant amoun Lubricant type 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. | 4.13A SF 1. aces and car ed. lotor from the Im and with t weight subject occess. | 00 SFA 4.13A ncel the previous e shaft end. colerance of +3dB ct to changes afte | one, which (A). r | power supply, subject to MG-1. | the tolerances stipul | ated in NEMA | |



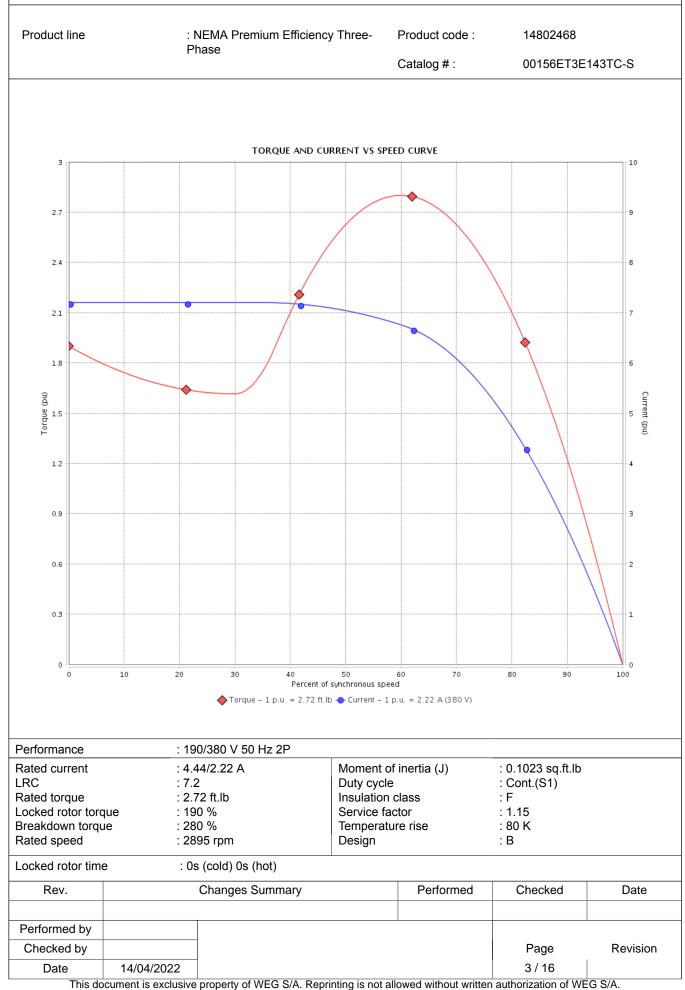
TORQUE AND CURRENT VS SPEED CURVE

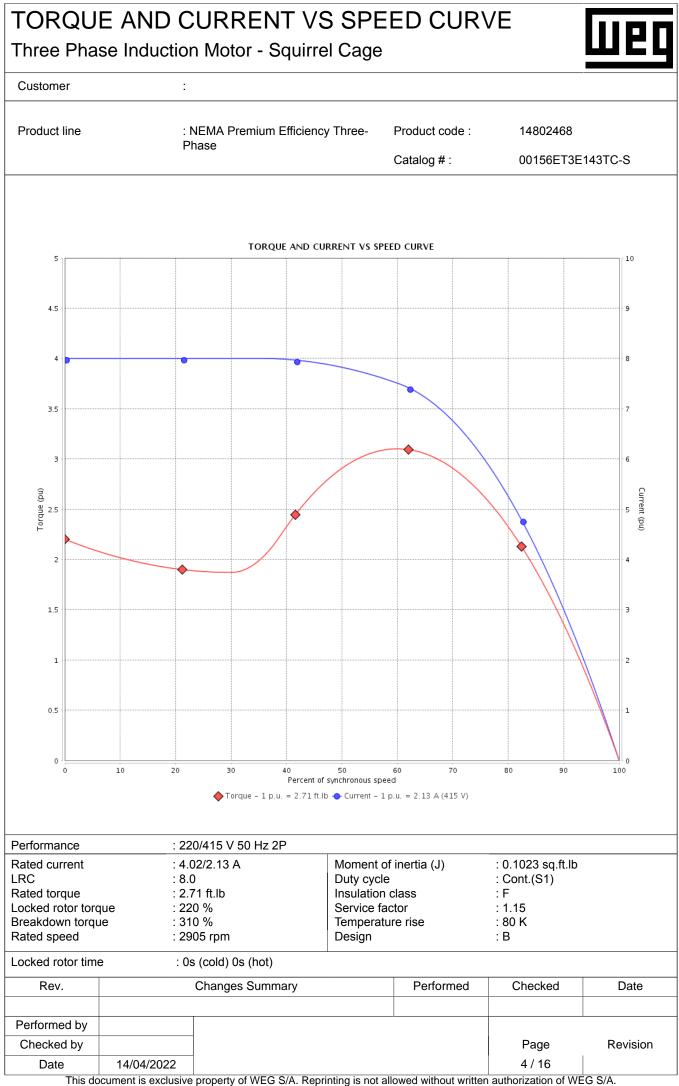
Three Phase Induction Motor - Squirrel Cage

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Customer

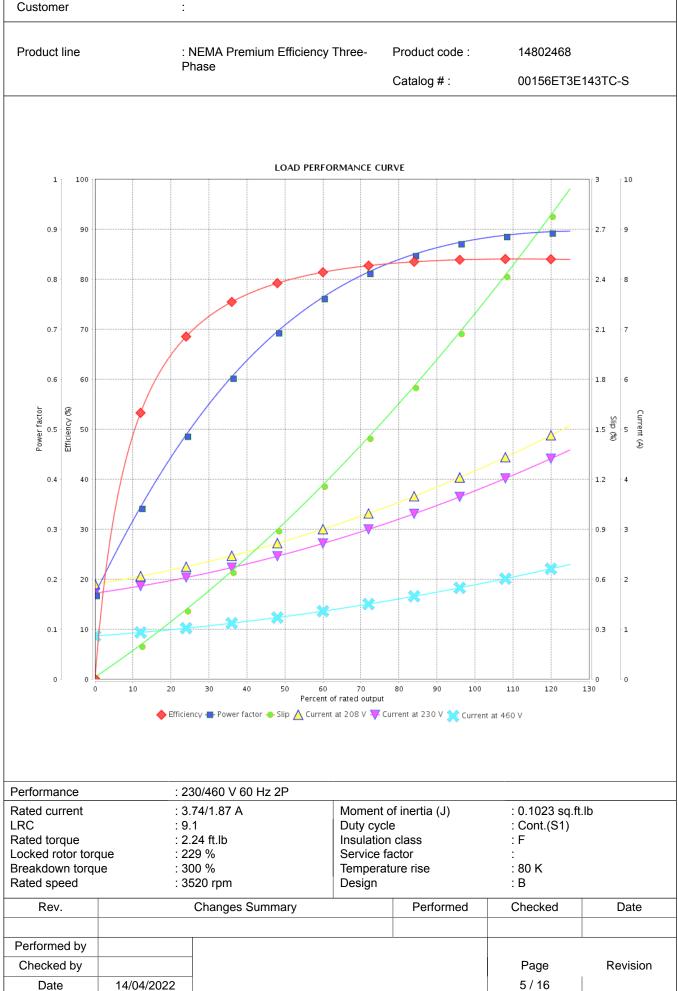




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Three Phase Induction Motor - Squirrel Cage

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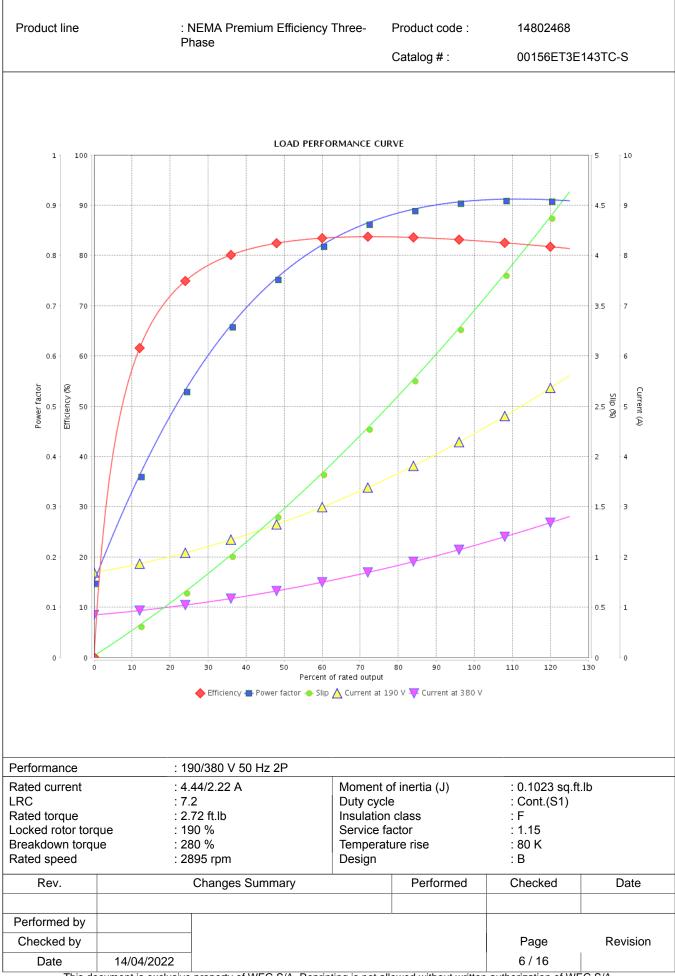
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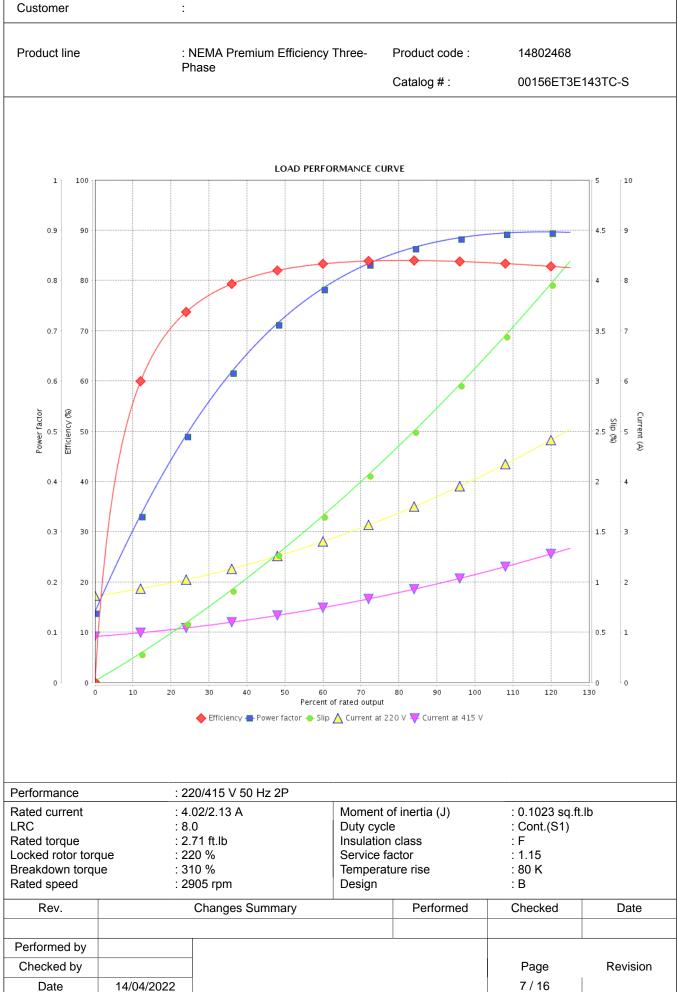
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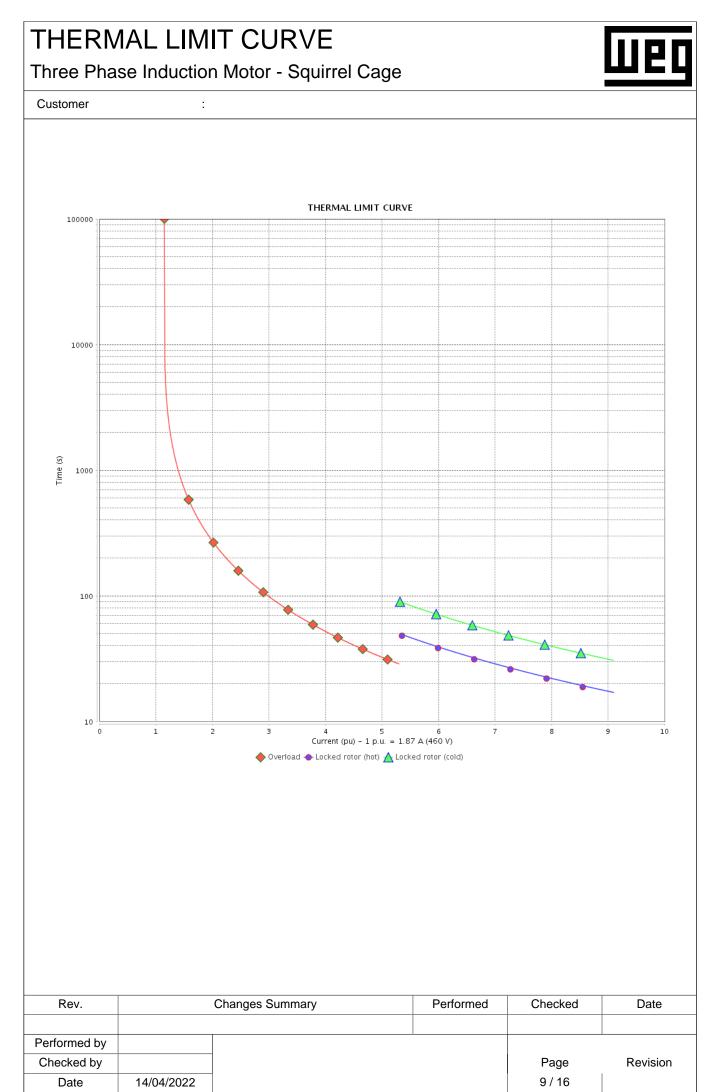
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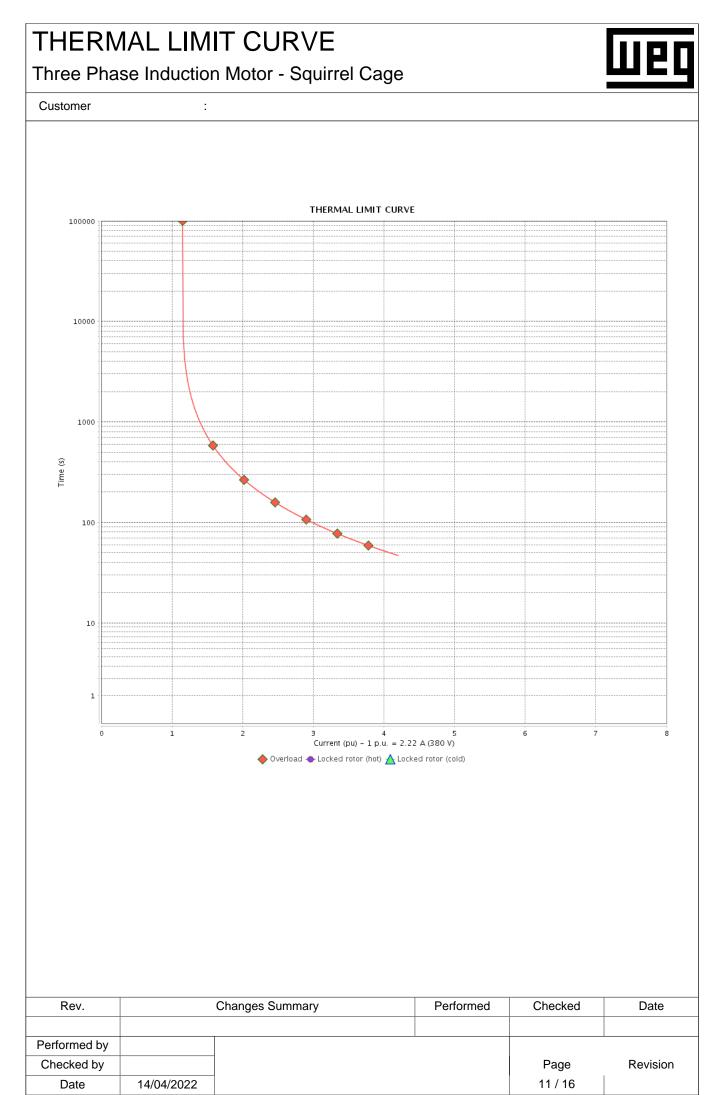
| Customer | : | | |
|--------------|---|----------------|------------------|
| Product line | : NEMA Premium Efficiency Three- Phase | Product code : | 14802468 |
| | | Catalog # : | 00156ET3E143TC-S |
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| Performance | mance : 230/460 V 60 Hz 2P | | | | | |
|-----------------------------|----------------------------|-----------------------|------------|-------------------|-------------|----------|
| Rated current : 3.74/1.87 A | | Moment of inertia (J) | | : 0.1023 sq.ft.lb | | |
| LRC | : 9 | .1 | Duty cycle | ; | : Cont.(S1) | |
| Rated torque | : 2 | .24 ft.lb | Insulation | class | : F | |
| Locked rotor toro | que : 2 | 29 % | Service fa | ctor | : | |
| Breakdown torqu | .e::3 | 00 % | Temperatu | ure rise | : 80 K | |
| Rated speed : 3520 rpm | | Design : B | | | | |
| Heating constant | t | | | | | |
| Cooling constant | t | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
| | | | | | | |
| Performed by | | | | | | |
| Checked by | | 7 | | | Page | Revision |
| Date | 14/04/2022 | 1 | | | 8 / 16 | |



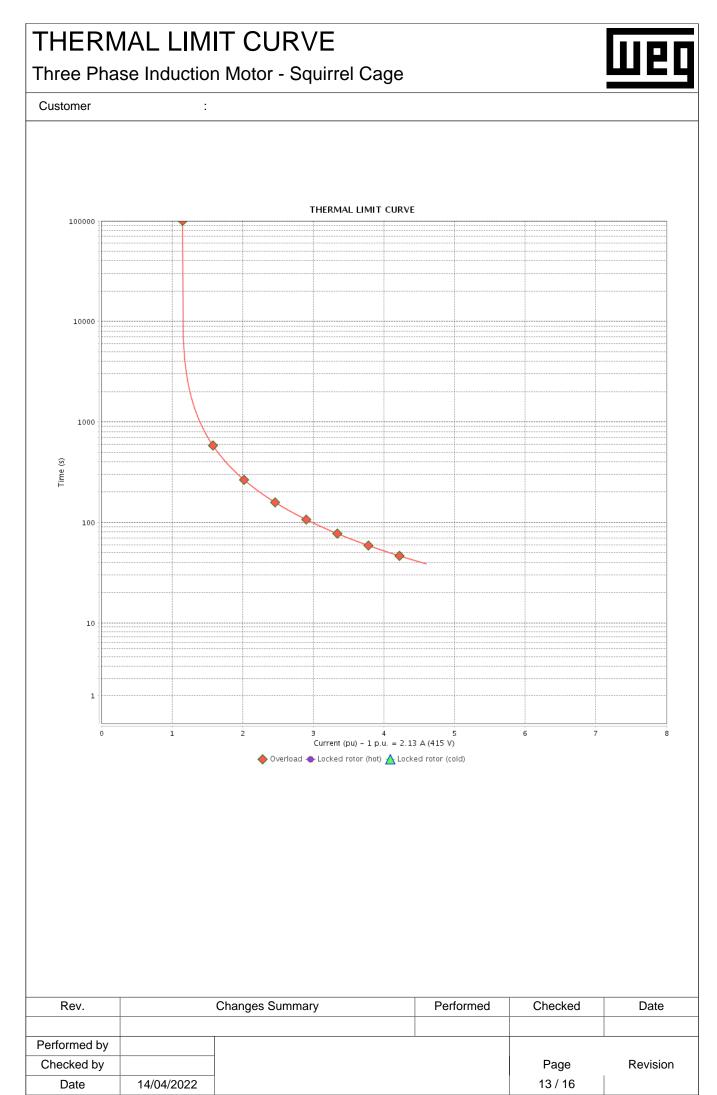
| Customer | : | | |
|--------------|---|-------------------------------|------------------------------|
| Product line | : NEMA Premium Efficiency Three- Phase | Product code : Catalog # : | 14802468 00156ET3E143TC-S |
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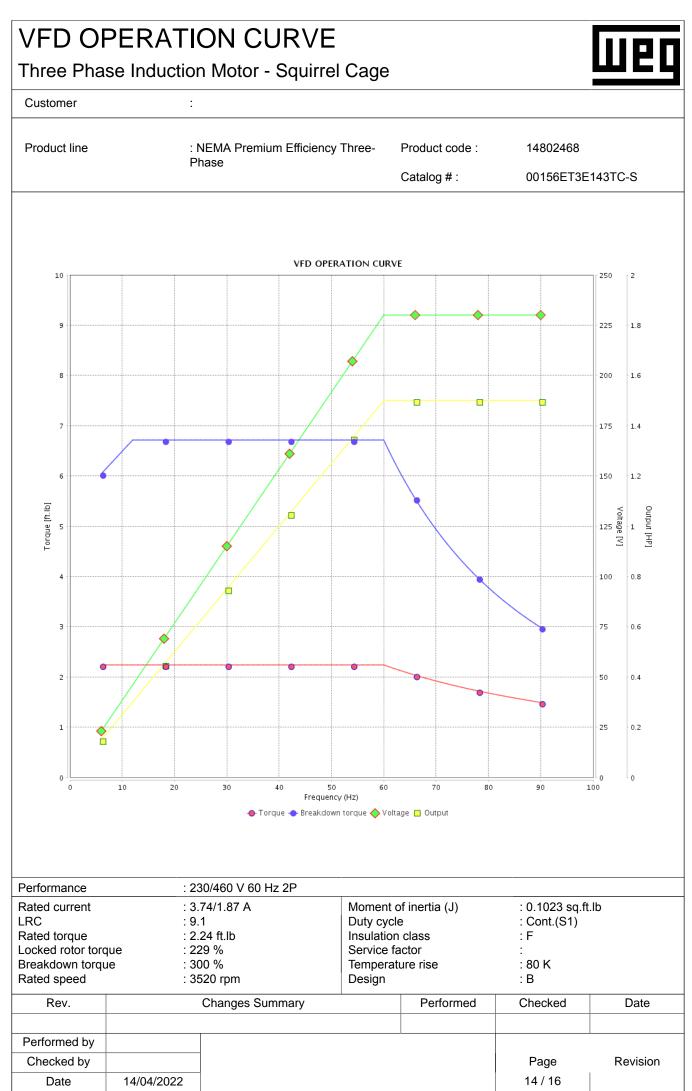
| Performance : 190/380 V 50 Hz 2P | | | | | | |
|--|------------|-------------------------------------|---|-----------|--|----------|
| Rated current: 4.44/2.22 ALRC: 7.2Rated torque: 2.72 ft.lbLocked rotor torque: 190 %Breakdown torque: 280 %Rated speed: 2895 rpm | | 7.2 2.72 ft.lb 190 % 280 % | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.1023 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Heating constan | t | | | | | |
| Cooling constant | t | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
| | | | | | | |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 14/04/2022 | | | | 10 / 16 | |



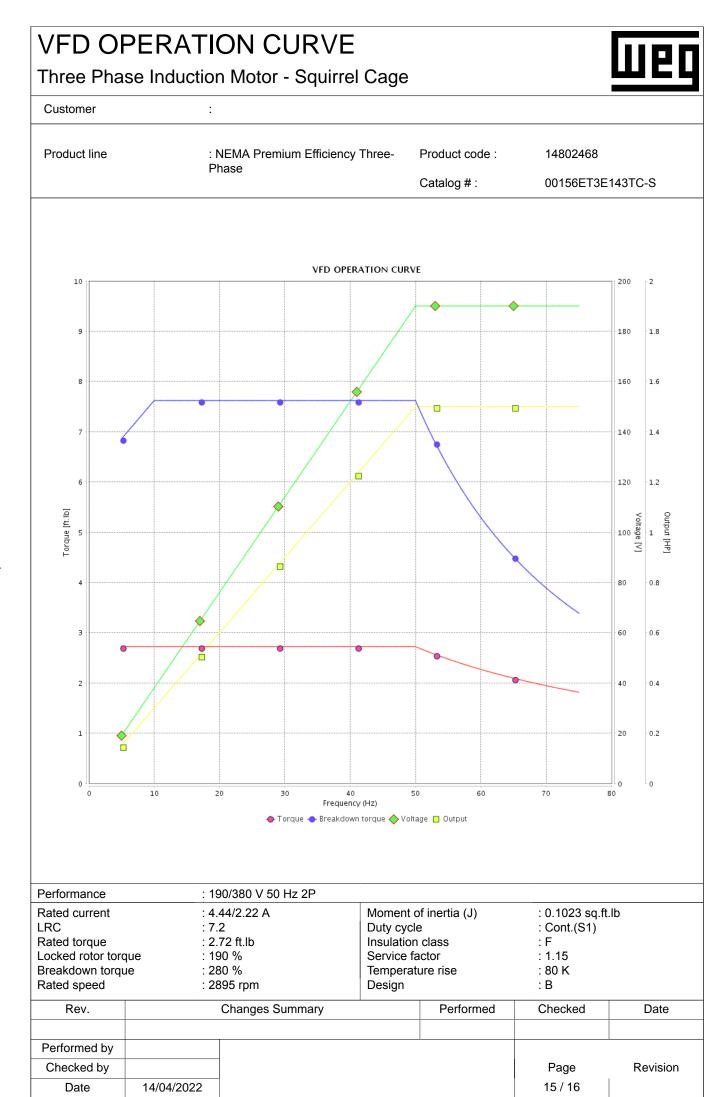
| Customer | : | | |
|--------------|---|----------------|------------------|
| Product line | : NEMA Premium Efficiency Three- Phase | Product code : | 14802468 |
| | | Catalog # : | 00156ET3E143TC-S |
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| Performance | :: | 220/415 V 50 Hz 2P | | | | |
|--|------------|-------------------------------------|---|-----------|--|----------|
| Rated current: 4.02/2.13 ALRC: 8.0Rated torque: 2.71 ft.lbLocked rotor torque: 220 %Breakdown torque: 310 %Rated speed: 2905 rpm | | 8.0 2.71 ft.lb 220 % 310 % | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.1023 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Heating constant | t | | | | | |
| Cooling constant | t | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
| | | | | | | |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 14/04/2022 | | | | 12 / 16 | |

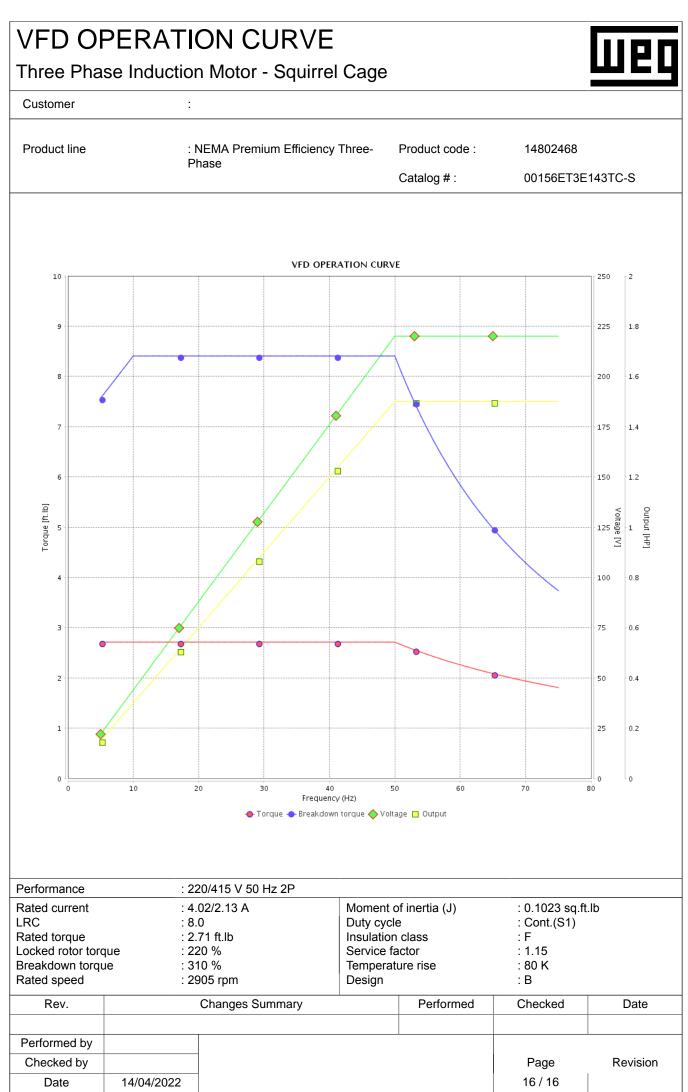




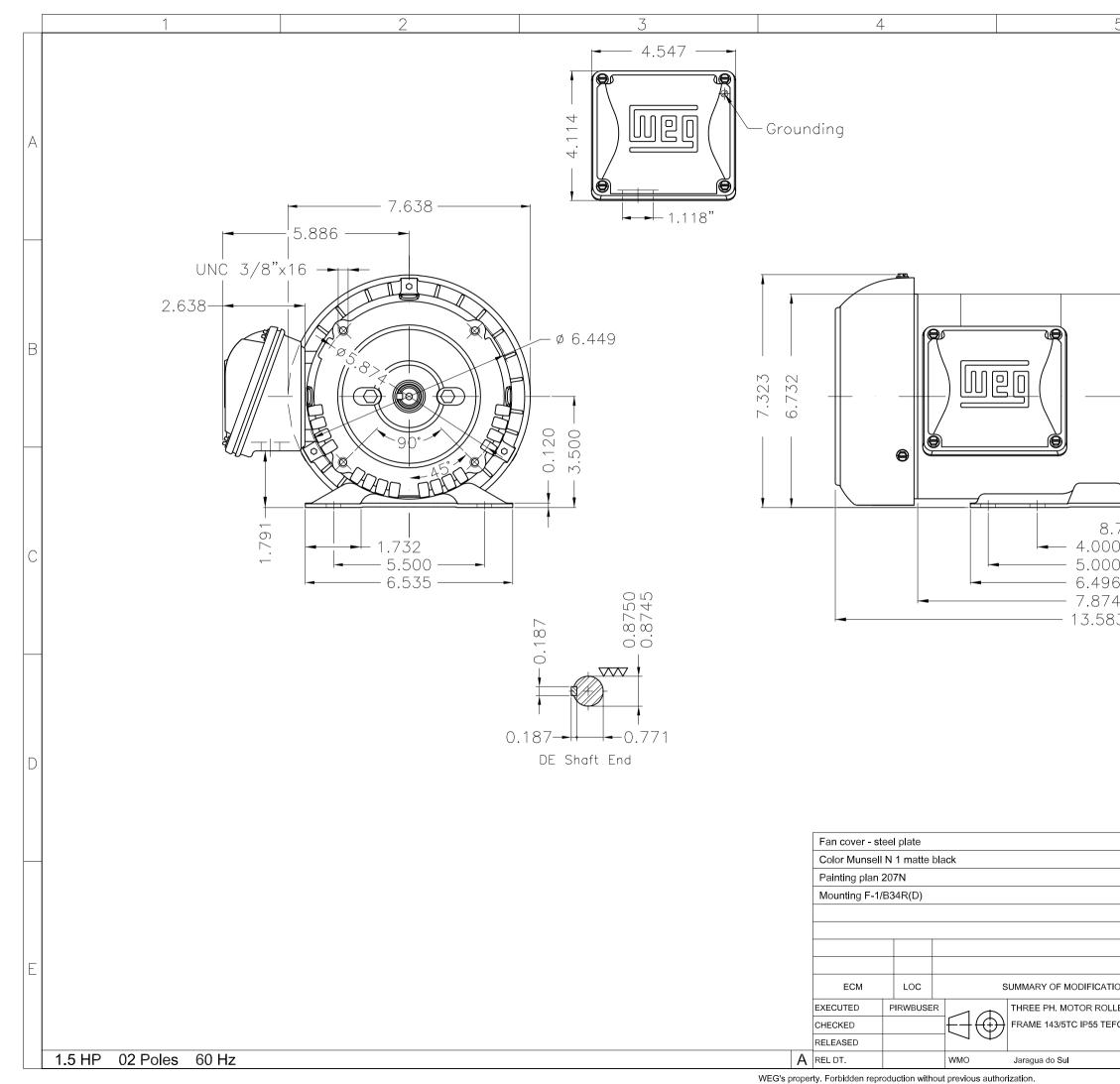
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| | | | 7 005 7 8 | | |
| | | | | | Dimensions in inches |
| | | | | | |
| | | | | | |
| IONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
| LED STEEL PREM. E | FF. | PREVI | EW | Ше | |
| Product | Engineering | SHEET | 1 / 1 | | XME |

| FOR SAFE AREA Energy Verified | For 60Hz: Claas I, Zone 2, IIC Class I, DIVZ, Gr. A.B.G.D. 73 DIV 2 Inverter Duty (5F1.00) of 2:1V/T 1000:1 | 1 3 Hz 60 HP 15 17 1000 m.a.s.i KW 11 17 1000 m.a.s.i S.241/87 1 100 m.a.s.i S.241/87 1 100 m.a.s.i S.241/87 1 100 m.a.s.i S.241/87 1 100 m.a.s.i S.241/87 1 10 100 m.a.s.i 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 1 10 10 | REVERSE THE ROYATION In accordance with local revent rections exciting to before servicing unit. The revent rection events of the terre andersearce of a la muchloa. |
|-------------------------------|--|--|---|
| LIED Remium | MAVE IN MEXICO MAT: 14802468 CC029A WO1. TEOICDXON MODEL 00156F13E143TC-S OSNOVZ021 BIN: | FR 3 IMZ 50 KW 1. FR 4.1 1435FC KW 1. 1. NUTY CONT. 201 WP 4. 2. 3. 3. ALT 100 m.a.s.l PR 3. 3. 3. 3. 3. ALT 100 m.a.s.l PE 7. 2. 2. 3. 3. AMB LT 100 m.a.s.l PE 1. 2. 3. 3. 1. 2. 3. 3. 1. 2. 3. 3. 1. 4. 3. 3. 1. 2. 3. 1. 4. 3. 3. 1. 1. 1. 3. 3. 3. 3. 3. 3. 3. 3. 1. 1. 1. 4 | INTERCANDER ANY TWO LIVE WREES TO EXPERISE THE EXTATION INTERCANDER ANY TWO LIVE WREES TO EXPERISE THE EXTATION WARNING: Motor must be grounded in accordance with local and mission betaches localed by prevent evaluation betaches and the beauter and the second second and the second conformation are any conformed to local work for the option for the second second second to local work for the dot conformed and the second second to account the second second second second to account the second second second up grave. Deconnection 1 signates the modifies |