DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

| | | : NEMA Premium Effic | siency i | hree- Produ | uct code : | 14407 | 156 |
|---|--|---|---|--|---------------|---|---|
| | | Phase | | Catal | log # : | 00709) | XT3E256T |
| Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design | | : 256T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B | | Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J) | | : IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 364 lb : 4.15 sq.ft.lb | |
| Output [HP] | | 7.5 | | 7.5 | 7. | 5 | 7.5 |
| Poles | | 8 | | 8 | 8 | | 8 |
| Frequency [Hz] | | 60 | | 50 | 5 | 0 | 50 |
| Rated voltage [V] | | 230/460 | | 380 | 40 | 00 | 415 |
| Rated current [A] | | 23.2/11.6 | | 13.9 | 13 | | 12.8 |
| R. Amperes [A] | | 123/61.5 | | 72.3 | 69 | | 66.6 |
| _RC [A] | | 5.3x(Code H) | 5.2 | 2x(Code H) | 5.2x(C | | 5.2x(Code H) |
| No load current [A | | 14.4/7.20 | | 6.80 | 7. | | 7.40 |
| Rated speed [RPN | M] | 880 | | 715 | 71 | | 720 |
| Slip [%] | _ | 2.22 | | 4.67 | 4.0 | | 4.00 |
| Rated torque [ft.lb | | 44.8 | | 55.1 | 55 | | 54.7 |
| _ocked rotor torqu | | 210 | | 150 | 17 | | 190 |
| Breakdown torque | e [%] | 280 | | 200 1.00 | 22 | | 260 |
| Service factor | | 1.15 | | | 1.0 | | 1.00 |
| Temperature rise | | 80 K | 80 K | | 80 | | 80 K |
| _ocked rotor time | | 41s (cold) 23s (hot) | | cold) 23s (hot) | 41s (cold) | | 41s (cold) 23s (hot) |
| Noise level ² | 0531 | 55.0 dB(A) | 53.0 dB(A) 85.0 | | 53.0 0 | | 53.0 dB(A) |
| Efficiency (%) | 25% | 86.3 | | | 83 | | 82.5 |
| | 50% | 86.5 | | | 84 | | 84.0 |
| | 75% | 87.5 | | 84.0 | 84 | | 84.0 |
| | 100% | 87.5 | | 82.5 | 84 | | 85.5 |
| | 25% | 0.27 | | 0.33 | 0.: | | 0.29 |
| Power Factor | 50% | 0.48 | | 0.56 | 0. | | 0.50 |
| | 75% 100% | 0.60 0.68 | | 0.66 0.73 | 0.0 | | 0.61 0.70 |
| Bearing type Sealing Lubrication inter Lubricant amour Lubricant type | Drive end Non dr : 6309 C3 620 : Oil Seal Lip : 20000 h 20 | 000 h 9 g | Add Foundation loads Max. traction : 500 lb Max. compression : 864 lb | | | | |
| Notes USABLE @208V | | | | | | | |
| 2 | ′ 25.7A SF 1. | 15 SFA 29.5A | | | | | |
| This revision repl must be eliminate (1) Looking the m (2) Measured at 2 | aces and car ed. totor from the 1m and with t weight subject ocess. | icel the previous one, wi | hich | | • | | sts with sinusoidal stipulated in NEMA |
| This revision repl must be eliminate (1) Looking the m (2) Measured at ((3) Approximate w manufacturing pro- | aces and car ed. totor from the 1m and with t weight subject ocess. | icel the previous one, wi shaft end. olerance of +3dB(A). | | power supply, MG-1. | • | | stipulated in NEMA |
| This revision repl must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate manufacturing pr (4) At 100% of fu Rev. | aces and car ed. totor from the 1m and with t weight subject ocess. | icel the previous one, wi shaft end. olerance of +3dB(A). t to changes after | | power supply, MG-1. | subject to th | e tolerances | stipulated in NEMA |
| This revision repl must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pr (4) At 100% of fu Rev. Performed by | aces and car ed. totor from the 1m and with t weight subject ocess. | icel the previous one, wi shaft end. olerance of +3dB(A). t to changes after | | power supply, MG-1. | subject to th | e tolerances Checke | stipulated in NEMA |
| This revision repl must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate manufacturing pr (4) At 100% of fu Rev. | aces and car ed. totor from the 1m and with t weight subject ocess. | icel the previous one, where shaft end. e shaft end. olerance of +3dB(A). et to changes after Changes Summary | | power supply, MG-1. | subject to th | e tolerances | stipulated in NEMA |

DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Customer

| Thermal protection ID Application Type Quantity Sensing Temperature | | | | | | |
|---|-------------|----------------------|-----------|---------|------|--|
| ID | Application | Туре | Quantity | | | |
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | 15 | 5 °C | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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TORQUE AND CURRENT VS SPEED CURVE

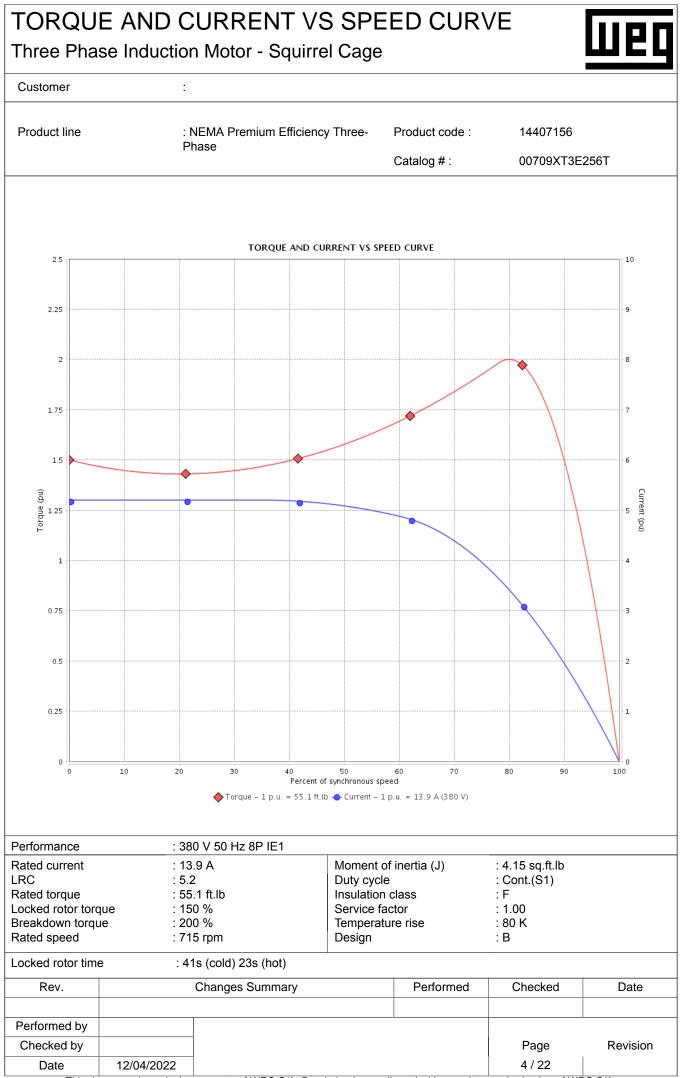
Three Phase Induction Motor - Squirrel Cage

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| Product line | : NEMA Premium Efficienc | y Three- Product | code : 14407156 | |
|--|--|--|--|----------|
| | Phase | Catalog | #: 00709XT3E | 256T |
| | | | | |
| | TOROUE AND CU | JRRENT VS SPEED CURVE | | |
| 3 | | | | 10 |
| 2.7 | | | | 9 |
| 2.4 | | | | |
| 2.1 | | | | |
| | • | | | |
| 1.8 | | | | e |
| (nd) an 1.5 | | | | 5 (pu) |
| 1.2 | | | | 4 |
| 0.9 | | | | З |
| 0.6 | | | | 2 |
| | | | | |
| 0.3 | | | | 1 |
| 0 10 | 20 30 40 Percent of | 50 60 f synchronous speed | 70 80 90 | 100 |
| | ♦ Torque - 1 p.u. = 44.8 ft.1 | lb 🔶 Current – 1 p.u. = 11.6 A | (460 V) | |
| erformance | : 230/460 V 60 Hz 8P | | | |
| ated current RC ated torque ocked rotor torque reakdown torque | : 23.2/11.6 A : 5.3 : 44.8 ft.lb : 210 % : 280 % | Moment of inertia (J Duty cycle Insulation class Service factor Temperature rise | : Cont.(S1) : F : 1.15 : 80 K | |
| ated speed | : 880 rpm : 41s (cold) 23s (hot) | Design | : B | |
| Rev. | Changes Summary | Perfc | ormed Checked | Date |
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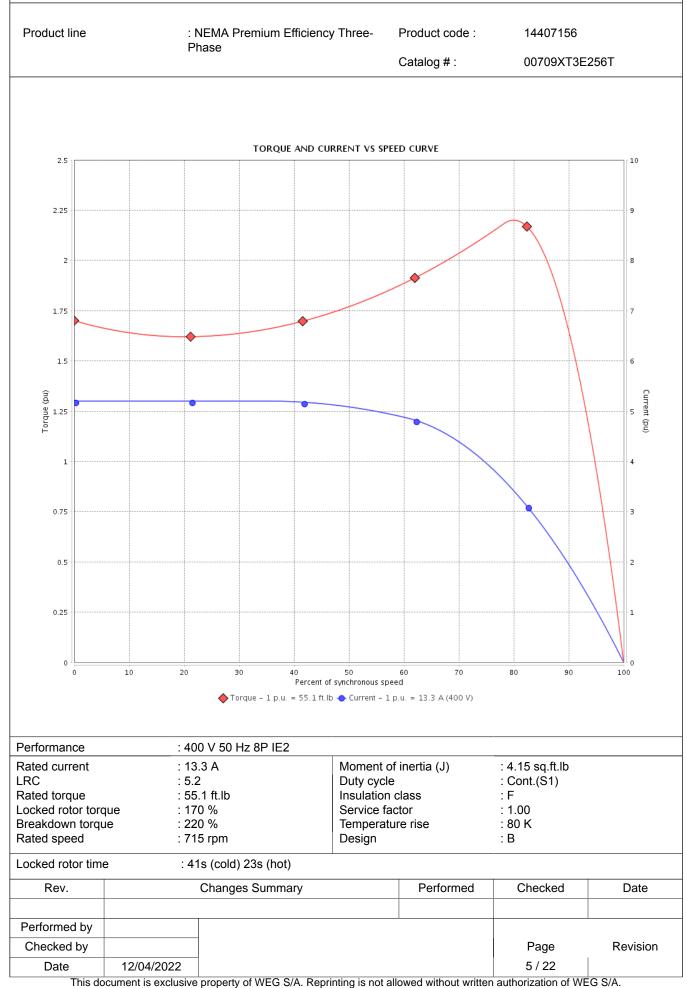
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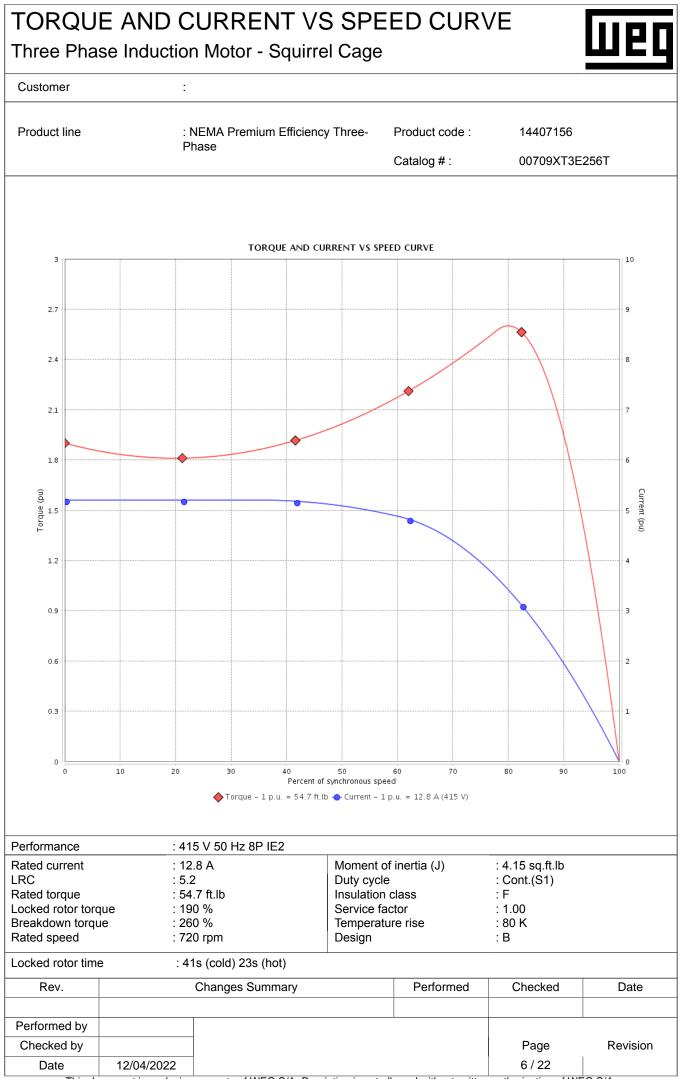
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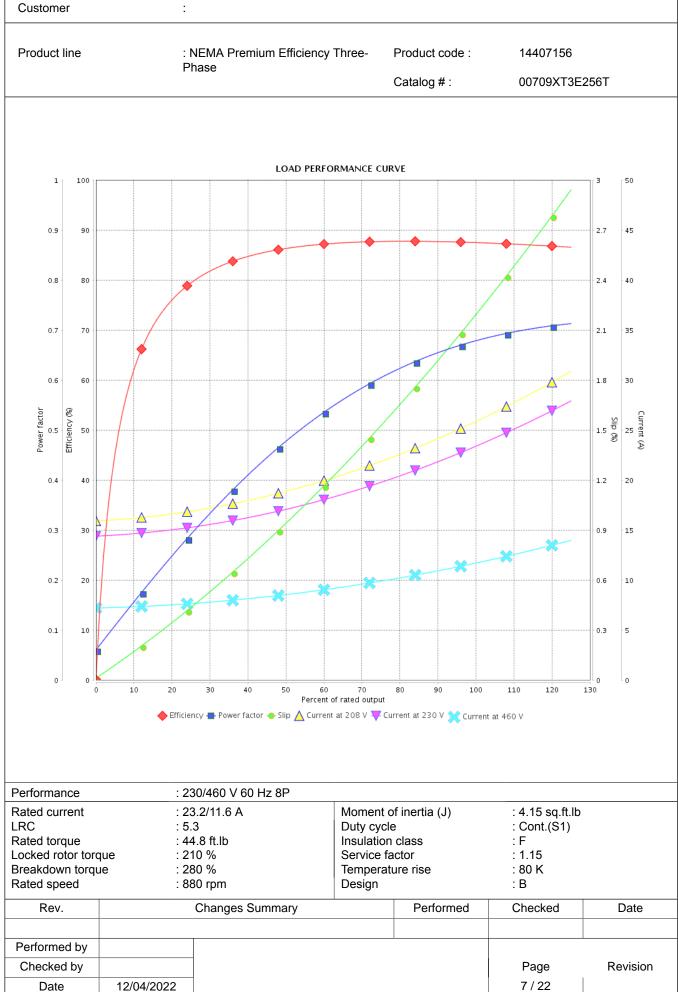






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Customer



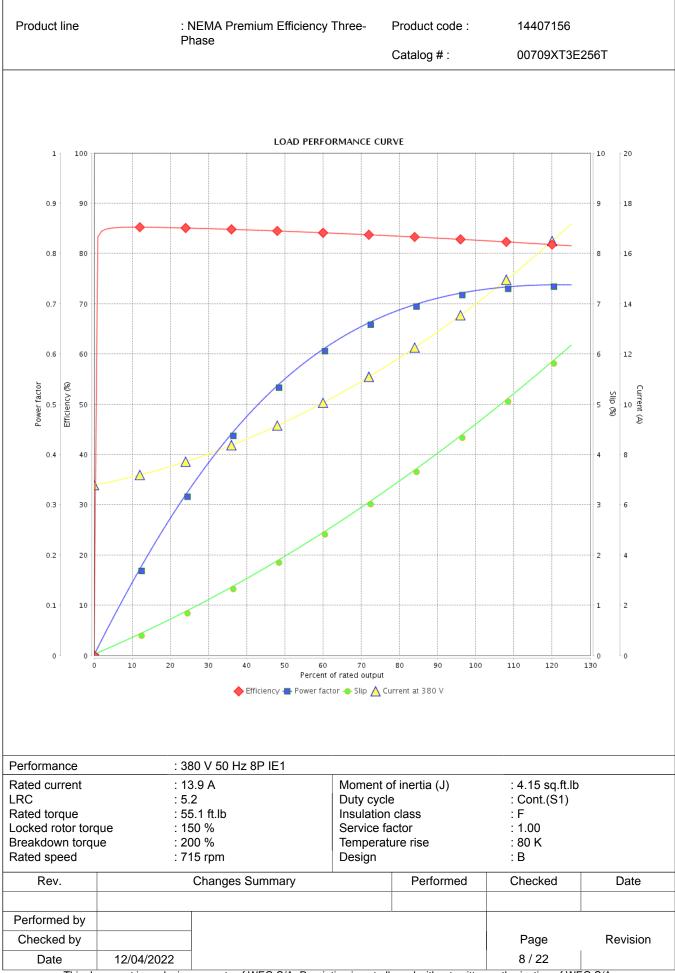
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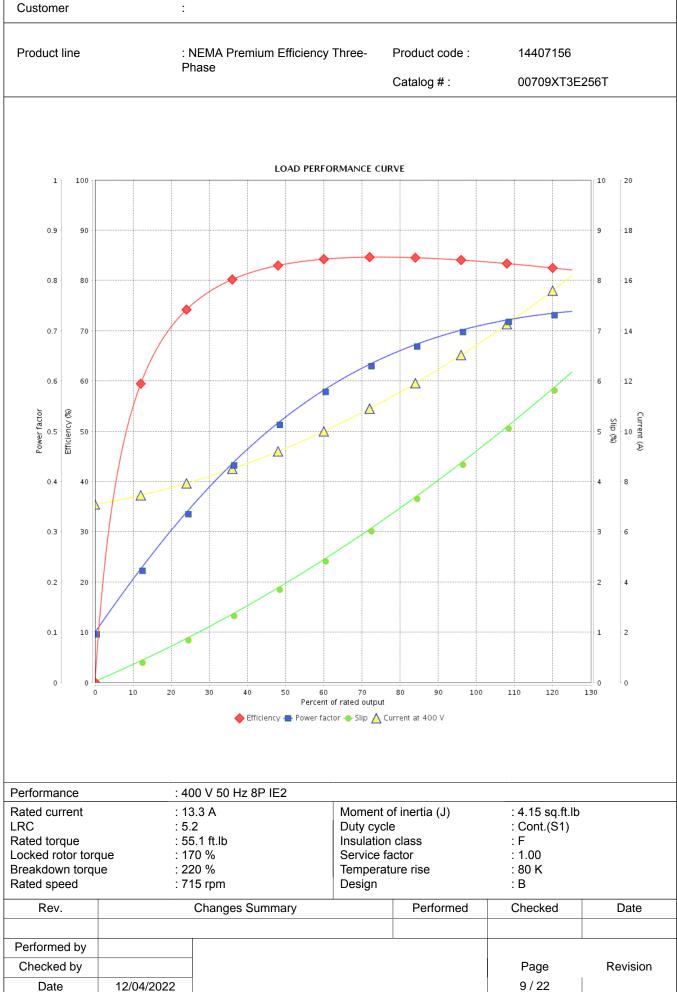


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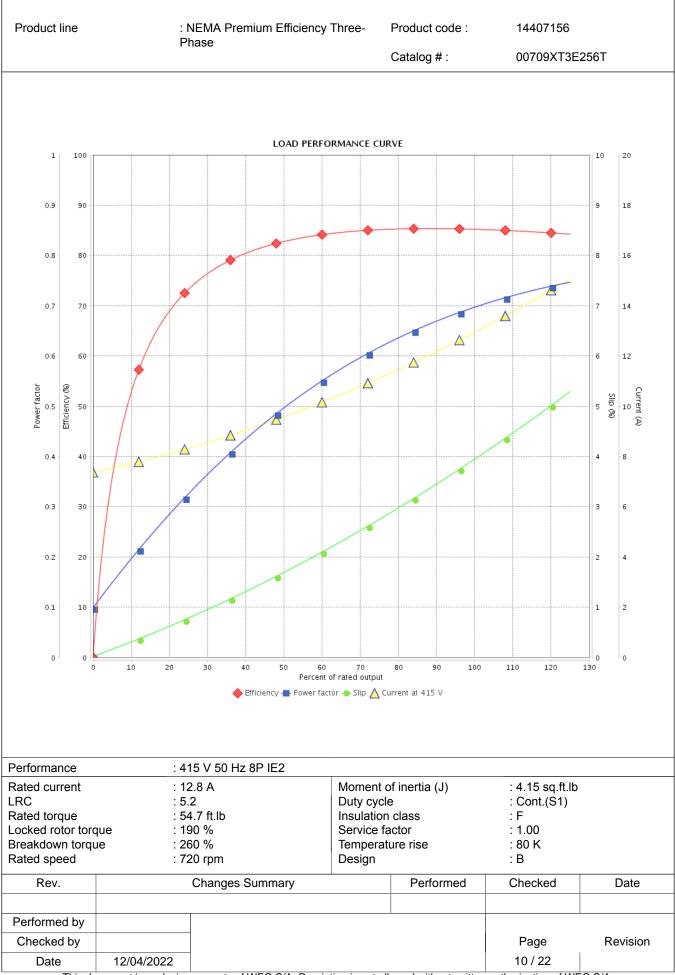
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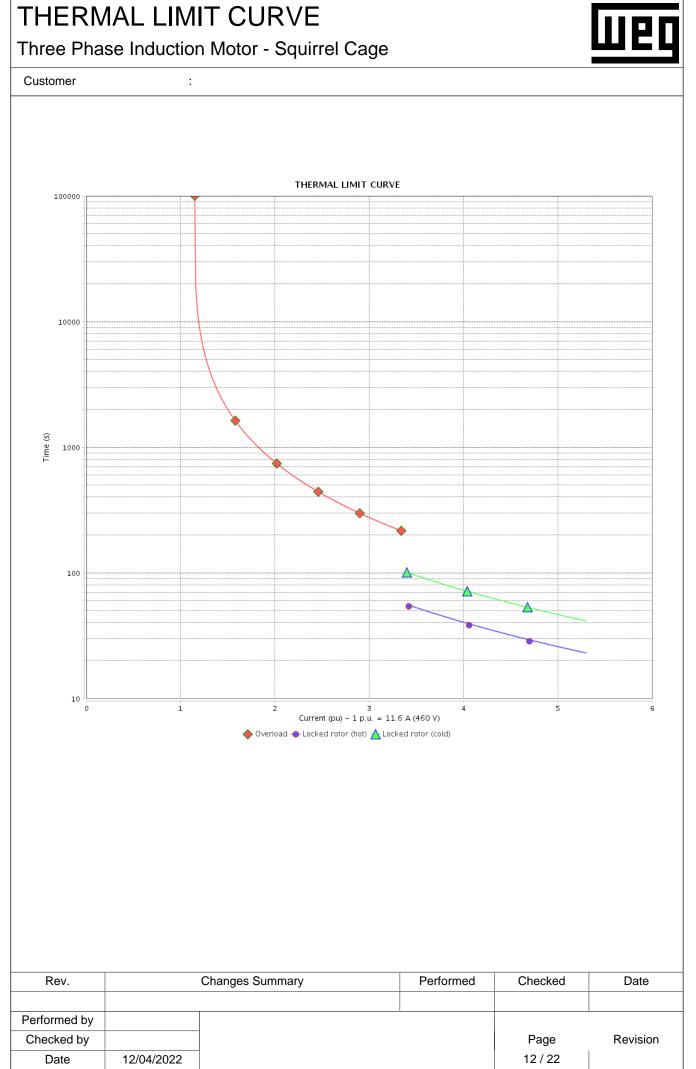
Three Phase Induction Motor - Squirrel Cage

Customer

| Product line | : NEMA Premium Efficiency Three- | Product code : | 14407156 | |
|--------------|----------------------------------|----------------|---------------|--|
| | Phase | Catalog # : | 00709XT3E256T | |

Шед

| Performance | :: | 230/460 V 60 Hz 8P | | | | |
|---|--------------------|---|---|----------------------|--|----------|
| Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed | jue : : | 23.2/11.6 A 5.3 44.8 ft.lb 210 % 280 % 880 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 4.15 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Heating constant | | | | | | |
| Cooling constant | | | | | | |
| Rev. | Changes Summary | | | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | _ | | | Page | Revision |
| Date | 12/04/2022 | | | | 11 / 22 | |
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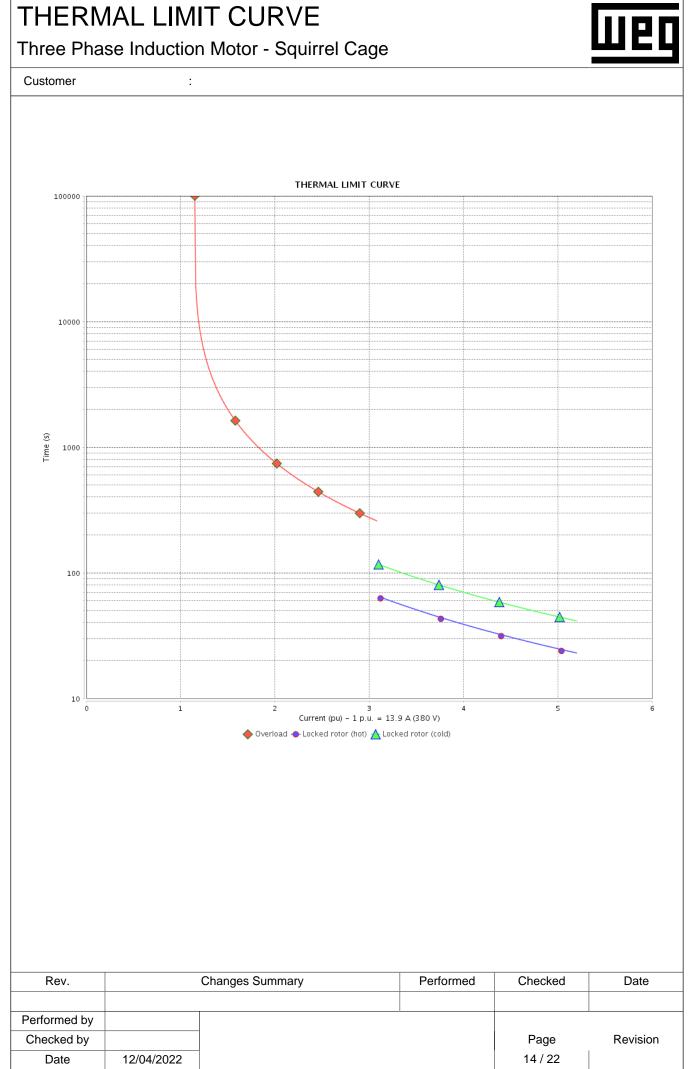
Three Phase Induction Motor - Squirrel Cage

Customer

| Product line | : NEMA Premium Efficiency Three- Phase | Product code : | 14407156 | |
|--------------|---|----------------|---------------|--|
| | | Catalog # : | 00709XT3E256T | |

Шеq

| Performance | : 3 | 80 V 50 Hz 8P IE1 | | | | |
|---|-------------------------------------|--|---|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed | : 5: : 5: jue : 1: ie : 2: | 3.9 A .2 5.1 ft.lb 50 % 00 % 15 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 4.15 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
| Heating constant | t | | | | | |
| Cooling constant | : | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
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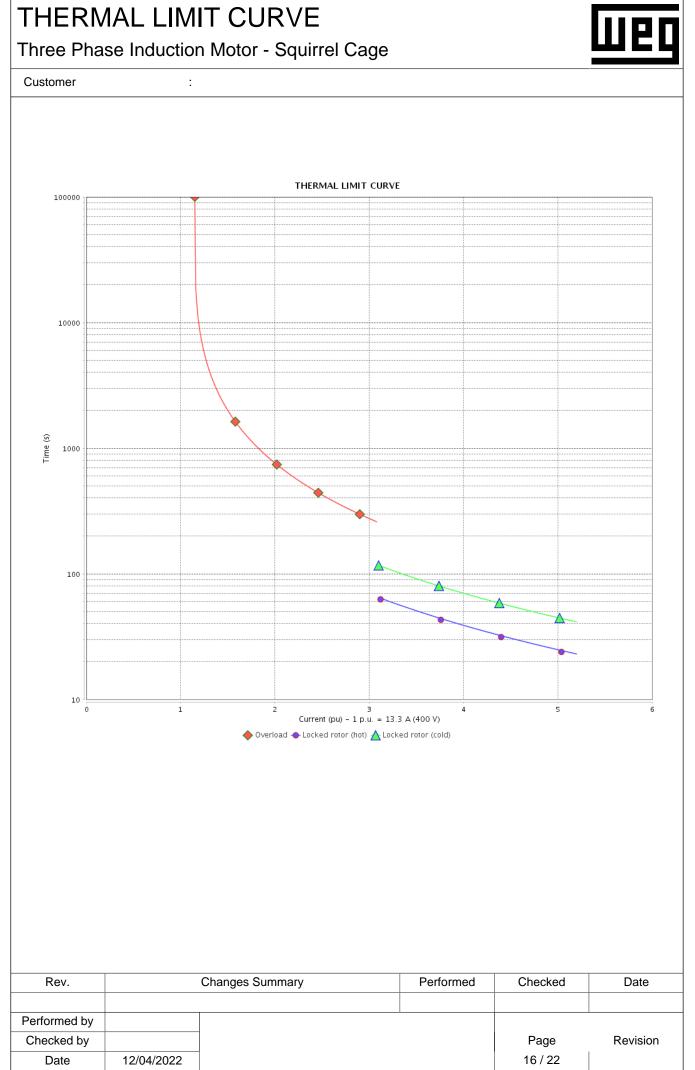
Three Phase Induction Motor - Squirrel Cage

Customer

| Product line | : NEMA Premium Efficiency Three- | Product code : | 14407156 |
|--------------|----------------------------------|----------------|---------------|
| | Phase | Catalog # : | 00709XT3E256T |

Шеq

| Performance | : 4 | 00 V 50 Hz 8P IE2 | | | | |
|---|---------------------------------|--|---|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed | : 5 : 5 jue : 1 ie : 2 | 3.3 A .2 5.1 ft.lb 70 % 20 % 15 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 4.15 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
| Heating constant | t | | | | | |
| Cooling constant | : | | | | | |
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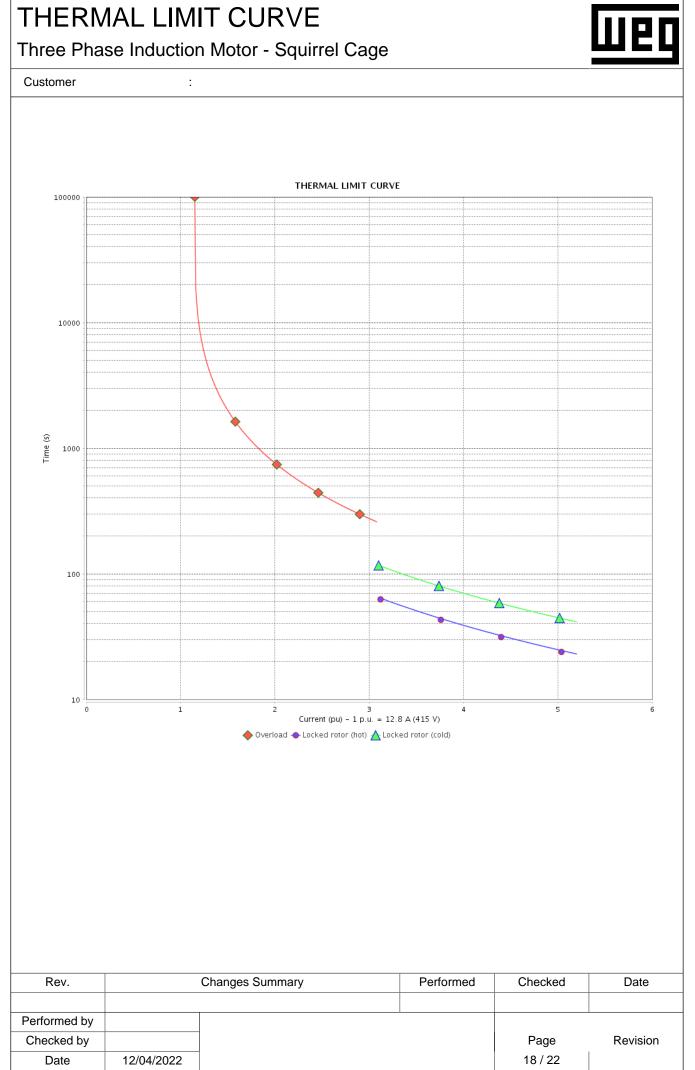
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Customer

| Product line | : NEMA Premium Efficiency Three- Phase | Product code : | 14407156 |
|--------------|---|----------------|---------------|
| | | Catalog # : | 00709XT3E256T |

Шеq

| Performance | : 4 | : 415 V 50 Hz 8P IE2 | | | | |
|---|---------------------------------|--|---|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed | : 5 : 5 iue : 1 ie : 2 | 2.8 A 5.2 44.7 ft.lb 90 % 560 % 520 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 4.15 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
| Heating constant | t | | | | | |
| Cooling constant | : | | | | | |
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