DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

| Product line | | : NEMA Premium Efficiency Three- Phase | | hree- Prode | e- Product code : | | 14325313 | |
|---|--|---|--------------------|--|-------------------|---|---|--|
| | | - Hube | | Catal | log # : | 00718XT3E213T | | |
| Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design | | : 213/5T : 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 : 208 lb : 1.38 sq.ft.lb | | |
| Output [HP] | | 7.5 | | 7.5 | 7.5 | 5 | 7.5 | |
| Poles | | 4 | 1 | 4 | 4 | - | 4 | |
| Frequency [Hz] | | 60 | | 50 | 50 |) | 50 | |
| Rated voltage [V] | | 230/460 | | 380 | 40 | 0 | 415 | |
| Rated current [A] | | 18.8/9.41 | | 11.2 | 10. | 7 | 10.6 | |
| . R. Amperes [A] | | 126/63.0 | | 61.6 | 68. | 5 | 72.1 | |
| _RC [A] | | 6.7x(Code H) | 5.5 | 5x(Code F) | 6.4x(Cc | de H) | 6.8x(Code H) | |
| No load current [A | | 8.00/4.00 | | 4.10 | 4.4 | 0 | 4.60 | |
| Rated speed [RPN | | 1765 | | 1460 | 146 | 60 | 1465 | |
| Slip [%] | | 1.94 | | 2.67 | 2.6 | 7 | 2.33 | |
| Rated torque [ft.lb |] | 22.3 | | 27.0 | 27. | 0 | 26.9 | |
| Locked rotor torqu | | 240 | | 170 | 18 | 0 | 210 | |
| Breakdown torque | | 280 | | 200 | 28 | 0 | 270 | |
| Service factor | <u> </u> | 1.15 | 1.00 | | 1.0 | | 1.00 | |
| Temperature rise | | 80 K | 80 K | | 80 | K | 80 K | |
| _ocked rotor time | | 21s (cold) 12s (hot) | 21s (cold) 12s (ho | | 21s (cold) | | 21s (cold) 12s (hot) | |
| Noise level ² | | 58.0 dB(A) | | 6.0 dB(A) | 56.0 d | | 56.0 dB(A) | |
| | 25% | 89.4 | 88.2 | | 87. | | 87.7 | |
| Efficiency (0/) | 50% | 90.2 | | 88.5 | 88. | 5 | 88.5 | |
| Efficiency (%) | 75% | 91.0 | 1 | 89.5 | 89. | 5 | 89.5 | |
| | 100% | 91.7 | | 89.5 | 90. | | 90.2 | |
| | 25% | 0.38 | | 0.43 | 0.4 | | 0.38 | |
| Dower Frater | 50% | 0.60 | | 0.66 | 0.6 | 3 | 0.61 | |
| Power Factor | 75% | 0.73 | | 0.77 | 0.7 | 5 | 0.73 | |
| | 100% | 0.80 | | 0.83 | 0.8 | 2 | 0.80 | |
| Bearing type Sealing Lubrication inter- Lubricant amoun Lubricant type | | | - | Max. traction : 305 lb | | | | |
| Euclident type | | | | | | | | |
| Notes USABLE @208V | 20.8A SF 1. | 15 SFA 23.9A | | | | | | |
| Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 | aces and car ed. totor from the 1m and with t weight subject ocess. | icel the previous one, w | | | | | sts with sinusoidal stipulated in NEMA | |
| 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. totor from the 1m and with t weight subject ocess. | icel the previous one, wi shaft end. olerance of +3dB(A). | hich | power supply, MG-1. | | | stipulated 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. | 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 | hich | power supply, MG-1. | subject to the | e tolerances | stipulated 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. 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 | hich | power supply, MG-1. | subject to the | e tolerances Checked | stipulated 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. | aces and car ed. totor from the 1m and with t weight subject ocess. | icel the previous one, where shaft end. olerance of +3dB(A). It to changes after Changes Summary | hich | power supply, MG-1. | subject to the | e tolerances | stipulated in NEMA | |

DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Customer

| ID | Application | Туре | Quantity | Sensing 1 | Femperature |
|--------------------------|-------------|----------------------|------------|-----------|--------------------|
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | | 55 °C |
| 1 | winding | memostat - 2 wires | I X FIIdSe | | 55 C |
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| Rev. | Chang | es Summary | renomea | Checked | Date |
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TORQUE AND CURRENT VS SPEED CURVE

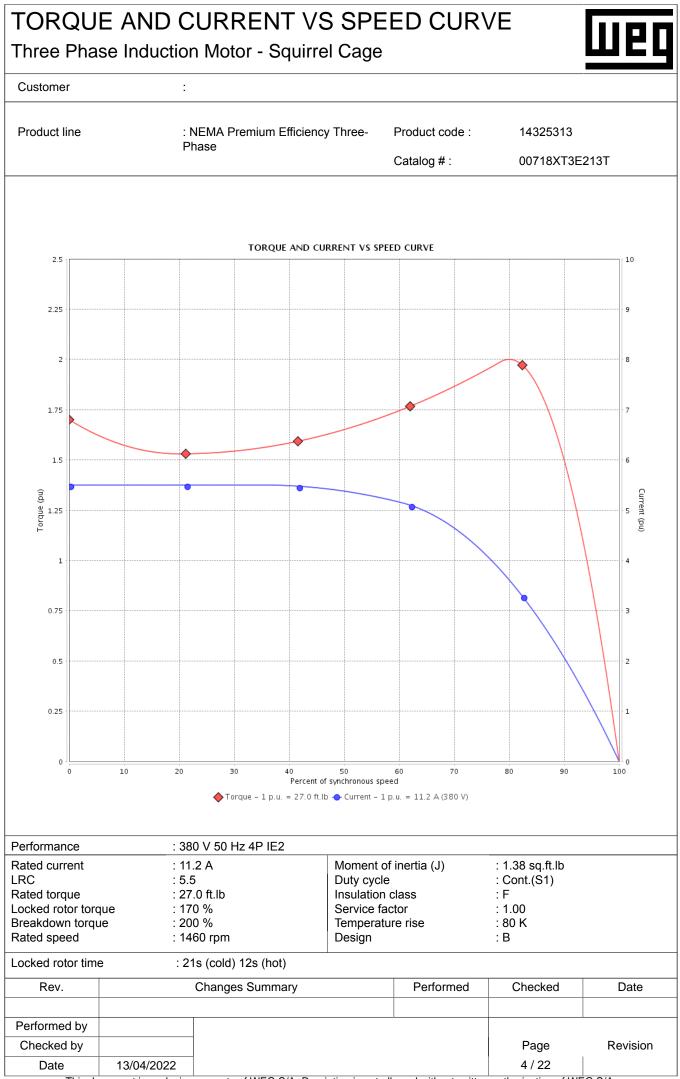
Three Phase Induction Motor - Squirrel Cage

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Customer

| Product line | | : NEMA Premium Efficiency Three- | | Product code : | 14325313 | |
|---------------------------------|------------|----------------------------------|---------------------------|----------------------|--------------------------------|----------------|
| | | Phase | | Catalog # : | 00718XT3E2 | 213T |
| | | | | | | |
| | | TORQUE AND CUR | RENT VS SPEI | ED CURVE | | |
| 3 | | | | | | 10 |
| | | | | | \ | |
| 2.7 | | | | | | 9 |
| 2.4 - | | | | | | 8 |
| | | | | | | |
| 2.1 | | | | | | 7 |
| | | • • | + | | | |
| 1.8 - | | | | | | 6 |
| (nd) | | | | | | Curre |
| (nd) an 1.5 Duor | | | | | | 5 Current (pu) |
| 1.2 | | | | | | 4 |
| | | | | | | |
| 0.9 | | | | | | 3 |
| | | | | | | |
| 0.6 | | | | | | 2 |
| | | | | | | \setminus |
| 0.3 | | | | | | 1 |
| 0 | | | | | | |
| 0 | 10 20 | Percent of sy | nchronous spee | | 80 90 | 100 |
| | | ◆ Torque - 1 p.u. = 22.3 ft.lb | 🗨 Current – 1 p | .u. = 9.41 A (460 V) | | |
| erformance | :2 | 230/460 V 60 Hz 4P | | | | |
| ated current RC | | | Moment of Duty cycle | | : 1.38 sq.ft.lb : Cont.(S1) | |
| ated torque ocked rotor torq | :2 | 22.3 ft.lb | Insulation of Service fac | class | : F : 1.15 | |
| reakdown torqu | e :2 | 280 % | Temperatu Design | | : 80 K : B | |
| ocked rotor time | | 21s (cold) 12s (hot) | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
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| Date | 13/04/2022 | | | | 3/22 | |



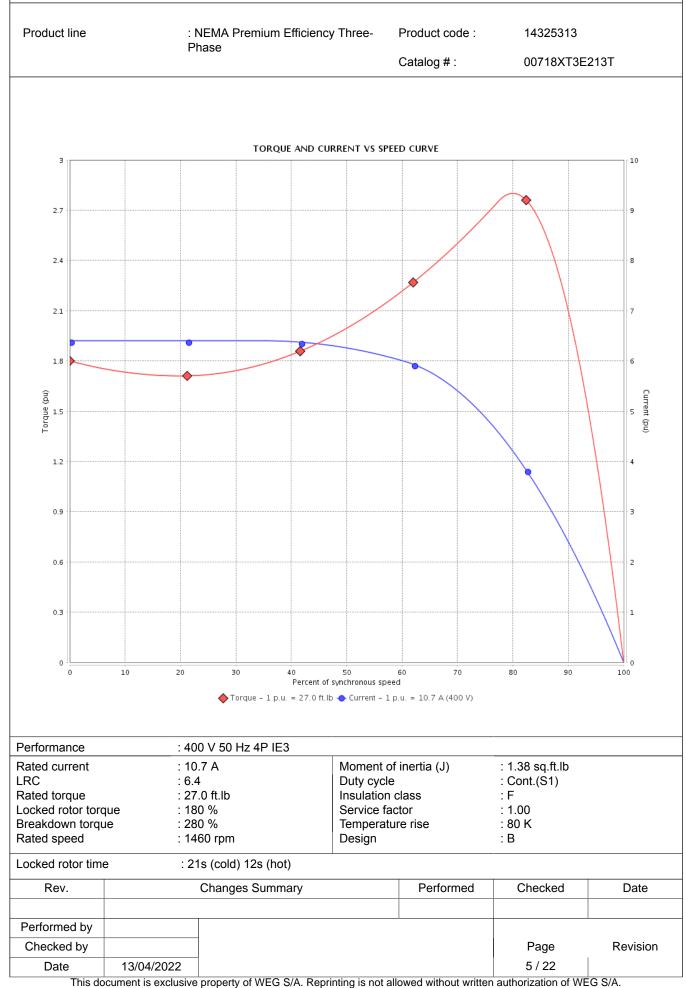
TORQUE AND CURRENT VS SPEED CURVE

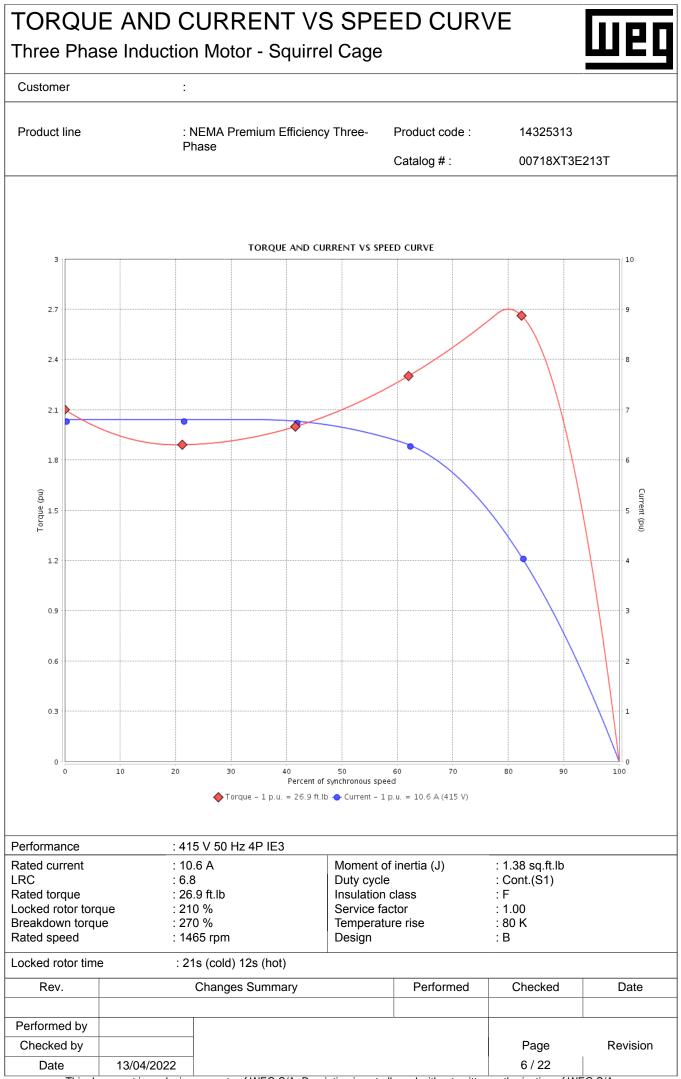
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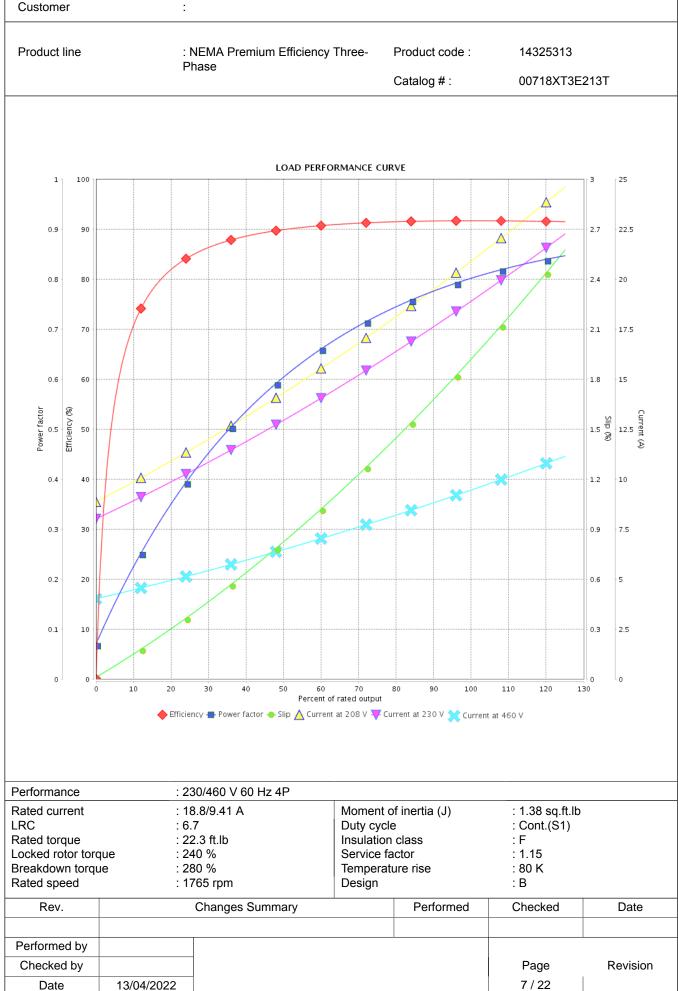
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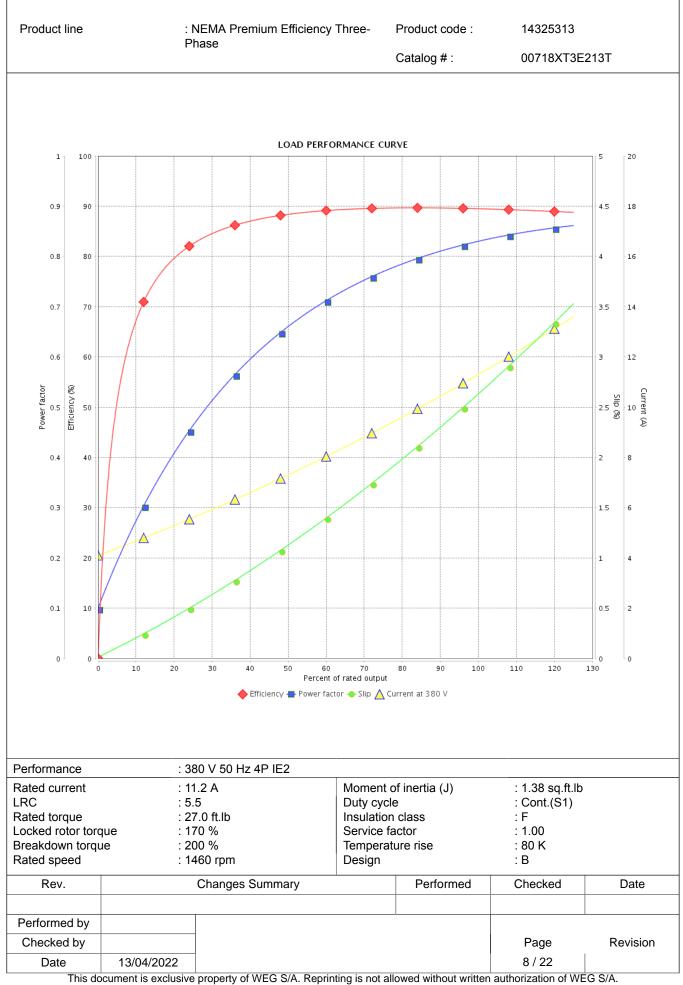
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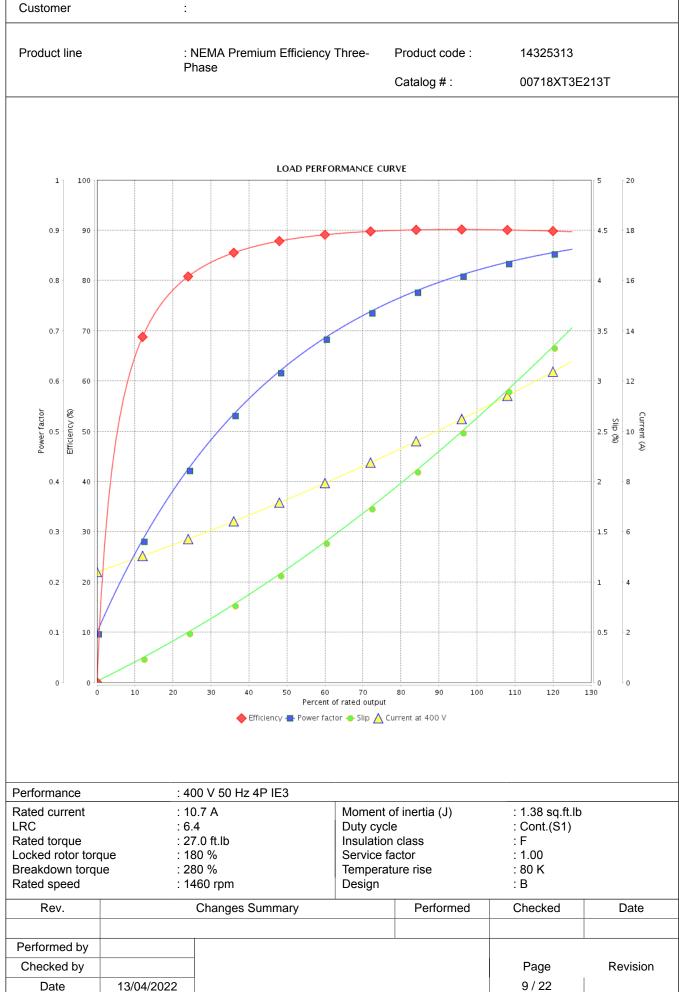


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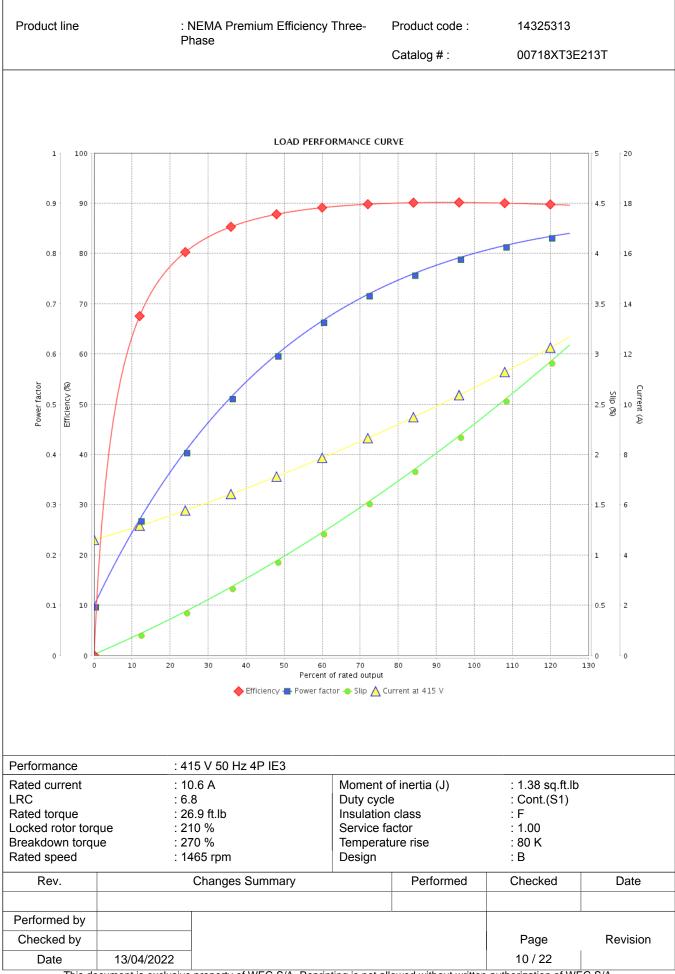
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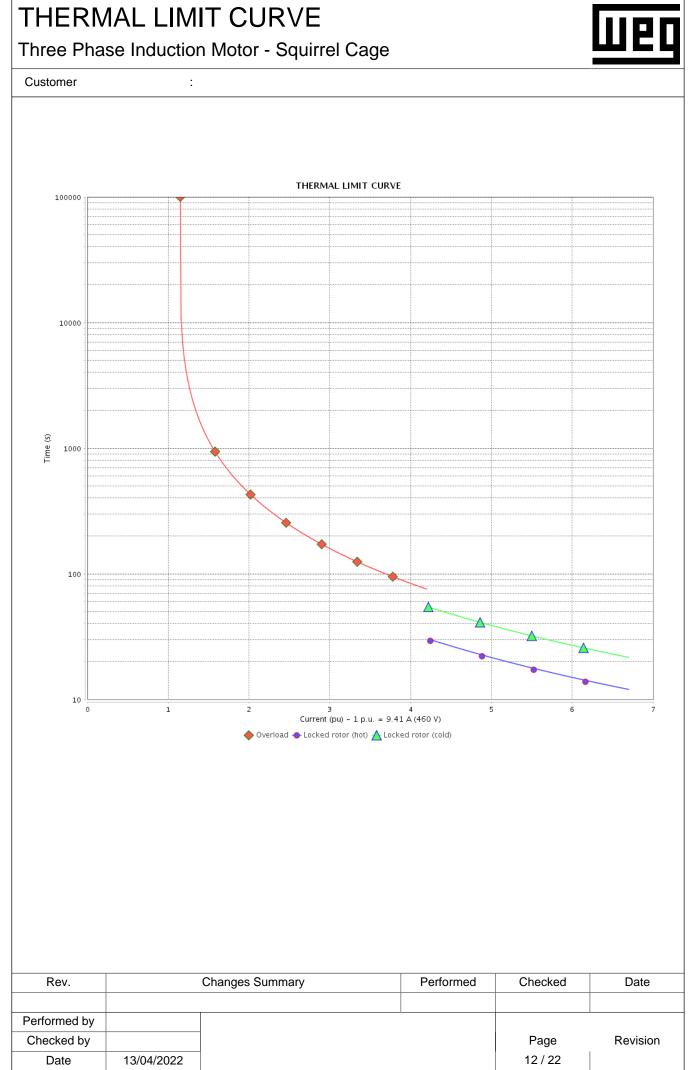
Three Phase Induction Motor - Squirrel Cage

Customer

| Product line | : NEMA Premium Efficiency Three- | Product code : | 14325313 |
|--------------|----------------------------------|----------------|---------------|
| | Phase | Catalog # : | 00718XT3E213T |

Шеq

| Performance | : 23 | 30/460 V 60 Hz 4P | | | | |
|---|-------------------------------------|---|--|--|---------|----------|
| Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed | : 6. : 22 que : 24 ie : 28 | 3 ft.lb Insulation class 0 % Service factor | | : 1.38 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | | |
| Heating constant | t | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
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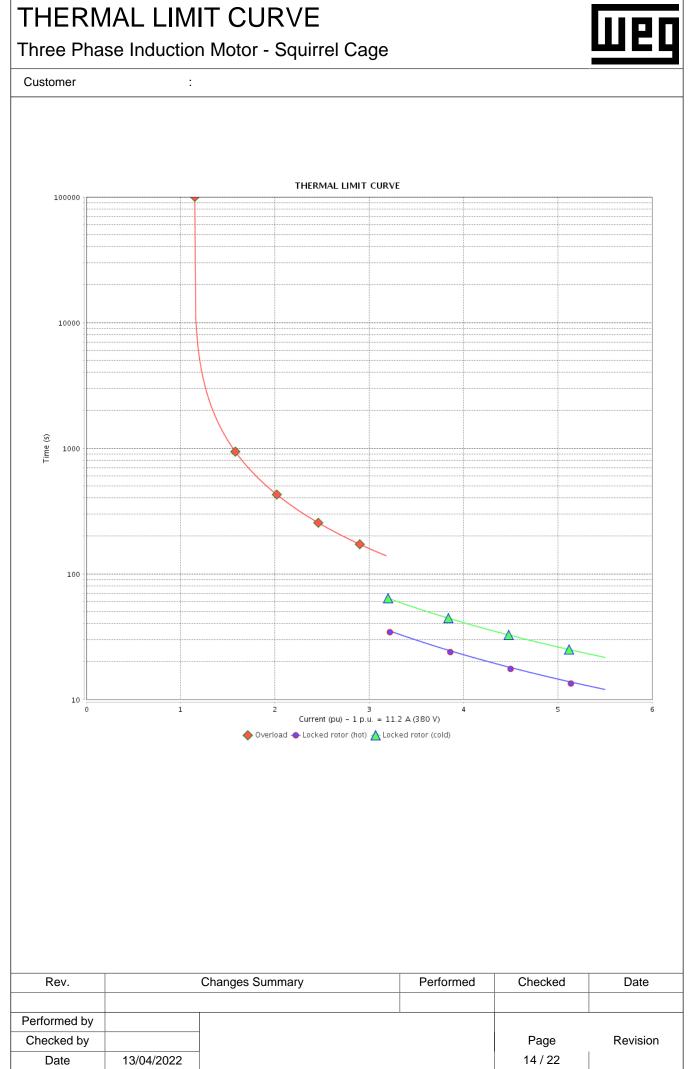
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Customer

| Product line | : NEMA Premium Efficiency Three- | Product code : | 14325313 |
|--------------|----------------------------------|----------------|---------------|
| | Phase | Catalog # : | 00718XT3E213T |

Шеq

| Performance | : 38 | 80 V 50 Hz 4P IE2 | | | | |
|---|----------------------------------|---|---|-----------|------------------------------|----------|
| Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed | : 5 : 2 jue : 1 ie : 20 | 1.2 A .5 7.0 ft.lb 70 % 00 % 460 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : Cont.(S1) : F : 1.00 | |
| Heating constant | | -00 1011 | Design | | . D | |
| Cooling constant | : | | | | | |
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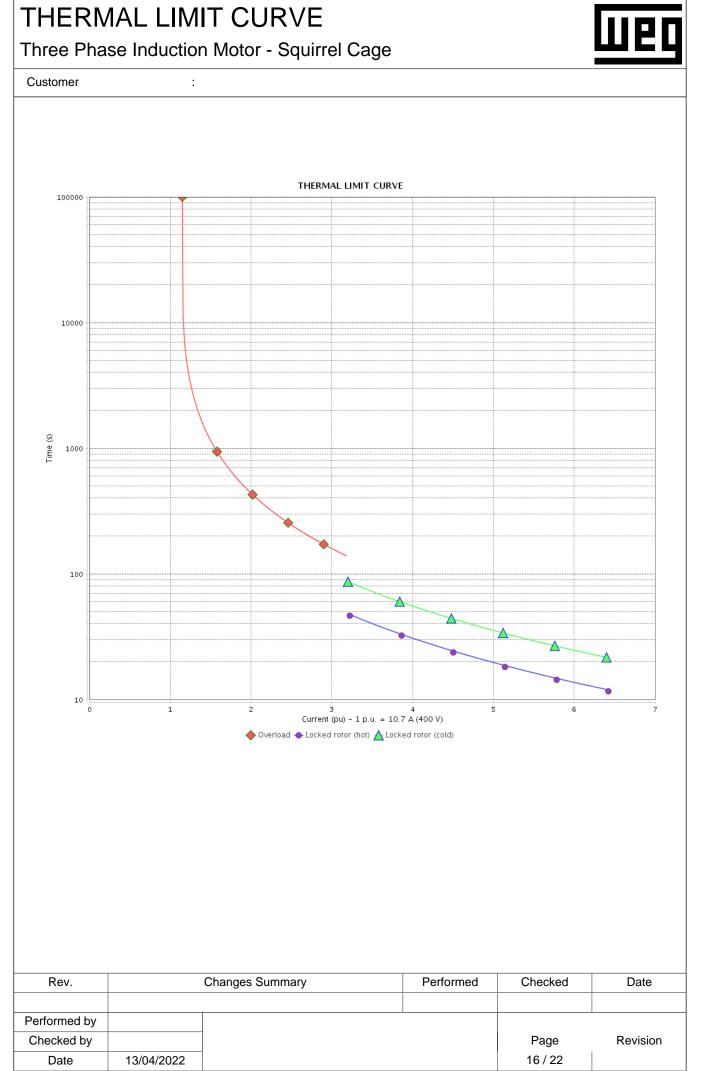
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| Product line | : NEMA Premium Efficiency Three- | Product code : | 14325313 |
|--------------|----------------------------------|----------------|---------------|
| | Phase | Catalog # : | 00718XT3E213T |

Шеq

| Performance | | : 400 V 50 Hz 4P IE3 | 00 V 50 Hz 4P IE3 | | | |
|---|------------------|---|---|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed | lue le | : 10.7 A : 6.4 : 27.0 ft.lb : 180 % : 280 % : 1460 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 1.38 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
| Heating constant | | | | | · | |
| Cooling constant | | | | | | |
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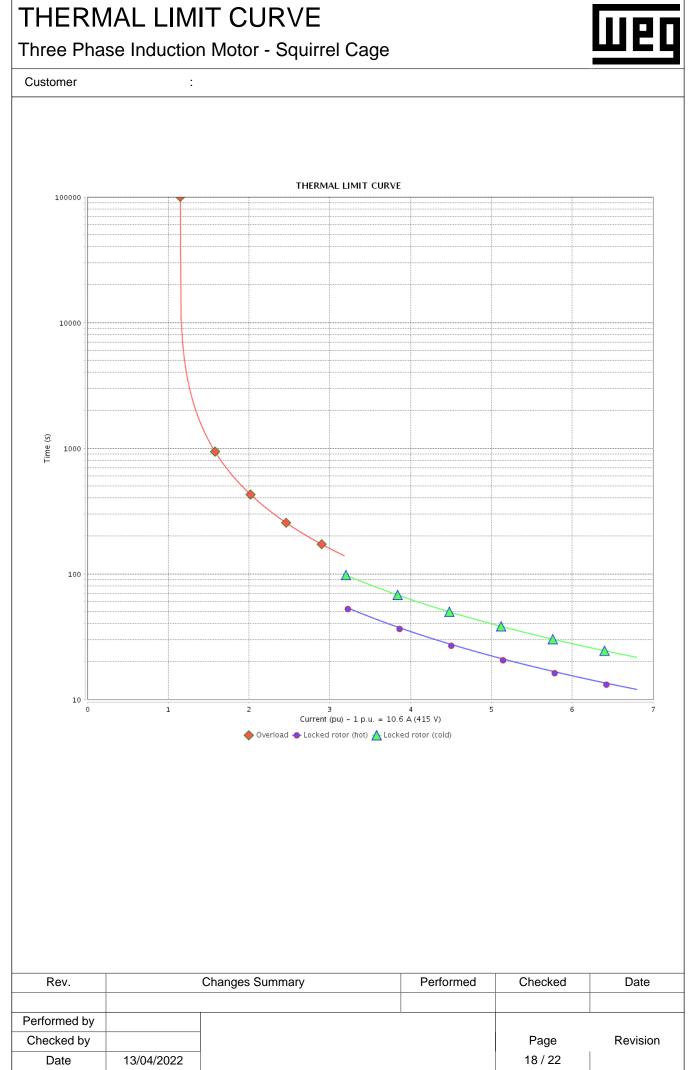
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Customer

| Product line | : NEMA Premium Efficiency Three- | Product code : | 14325313 |
|--------------|----------------------------------|----------------|---------------|
| | Phase | Catalog # : | 00718XT3E213T |

Шеq

| Performance | | 415 V 50 Hz 4P IE3 | | | | |
|---|-----------------|---|---|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed | lue le | : 10.6 A : 6.8 : 26.9 ft.lb : 210 % : 270 % : 1465 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 1.38 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
| Heating constant | | | | | | |
| Cooling constant | | | | | | |
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