DATA SHEET

Three Phase Induction Motor - Squirrel Cage

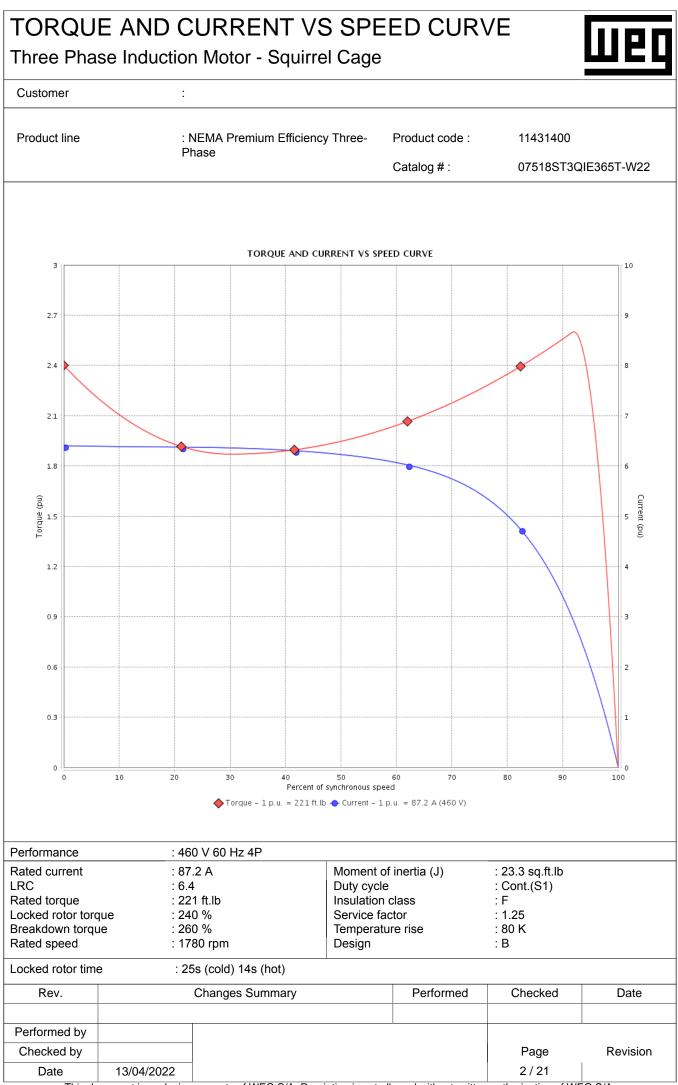
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Customer

| Product line | | 5 | | | 11431400 | 31400 | |
|---|---|--|--|--|------------------------|---|---------------------|
| | | Phase | nase Catalog # : | | 07518ST3QIE365T-W22 | | |
| Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design | | : 364/5T : 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 : 948 lb : 23.3 sq.ft.lb | |
| C C | | | r | 75 | | 75 | 75 |
| Output [HP] Poles | | 75 4 | | 75 4 | | 75 4 | 75 4 |
| Frequency [Hz] | | 60 | | 50 | | 50 | 50 |
| Rated voltage [V] | | 460 | | 380 | | 00 | 415 |
| Rated current [A] | | 87.2 | | 106 | | 02 | 98.7 |
| . R. Amperes [A] | | 558 | | 541 | | 71 | 602 |
| _RC [A] | | 6.4x(Code G) | 5 1 | 1x(Code E) | | Code F) | 6.1x(Code G) |
| No load current [A | 1 | 33.0 | Ű. | 33.0 | | 5.0 | 38.0 |
| Rated speed [RPN | | 1780 | | 1470 | | 475 | 1480 |
| Slip [%] | vil | | | 2.00 | | .67 | 1.33 |
| Slip [%] Rated torque [ft.lb | 1 | 221 | | | | .67 | |
| | | | | 268 170 | | | 266 |
| Locked rotor torqu | | 240 | | | | 00 | 210 |
| Breakdown torque Service factor | ; [⁷⁰] | | | 200 1.00 | | 20 .00 | 240 1.00 |
| | | 1.25 80 K | 1.25 | | | | |
| Temperature rise | | | | | | 05 K | 105 K |
| Locked rotor time | | 25s (cold) 14s (hot) | | | | | Bs (cold) 10s (hot) |
| Noise level ² | 25% | 67.0 dB(A) | 6 | 3.0 dB(A) | 63.0 | dB(A) | 63.0 dB(A) |
| Efficiency (%) | 25% 50% | 94.5 | | 94.5 | | 4.5 | 94.1 |
| | 50% 75% | 94.5 | | 94.5 | | 4.5 | 94.1 |
| | 100% | 95.0 | 94.1 | | | | 94.5 |
| | 25% | 90.4 | | 93.0 | 9 | 4.1 | 94.0 |
| | 25% 50% | 0.68 | | 0.75 | ^ | .70 | 0.67 |
| Power Factor | 50% 75% | 0.68 | | 0.75 | | .80 | 0.67 |
| | 100% | 0.78 | 0.82 | | | .80 | 0.78 |
| Bearing type Sealing Lubrication interval Lubricant amount Lubricant type | | Drive end Non dr 6314 C3 63 Inpro/Seal Inpr 12000 h 12 27 g 22 | 6314 C36314 C3Max. tractionInpro/SealInpro/SealMax. compression12000 h12000 h12000 h | | : 1712 lb : 2660 lb | | |
| Notes | | | | | | | |
| must be eliminate (1) Looking the m | ed. notor from the 1m and with to weight subject ocess. | lerance of +3dB(A). | hich | | | s based on tests he tolerances stip | |
| Rev. | | Changes Summary | / | | Performed | Checked | Date |
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| Date | 13/04/2022 | | | | | 1 / 21 | |
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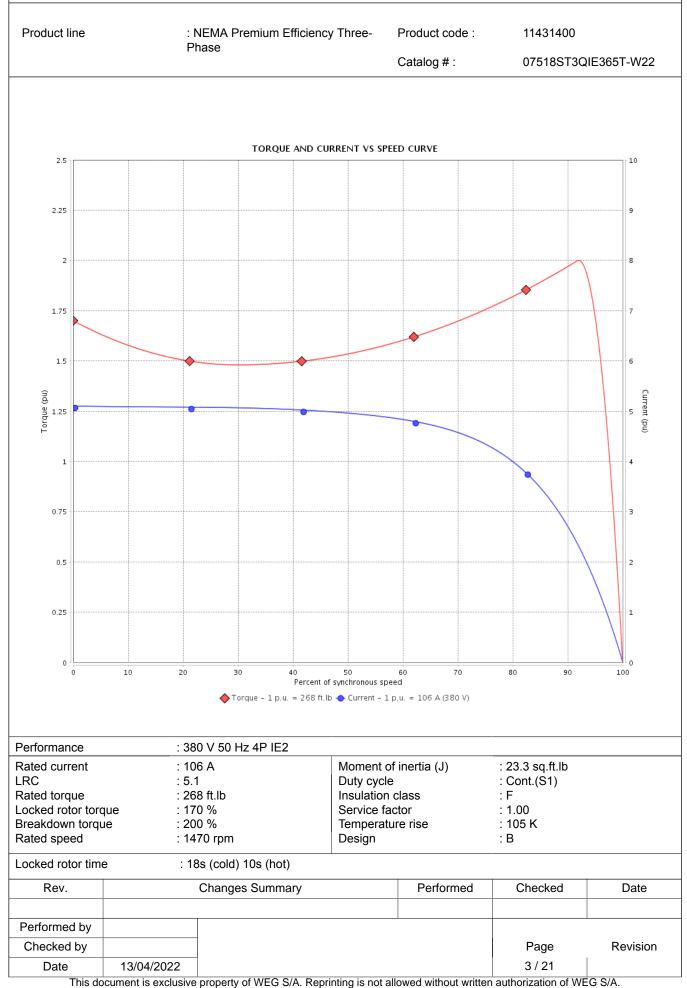
TORQUE AND CURRENT VS SPEED CURVE

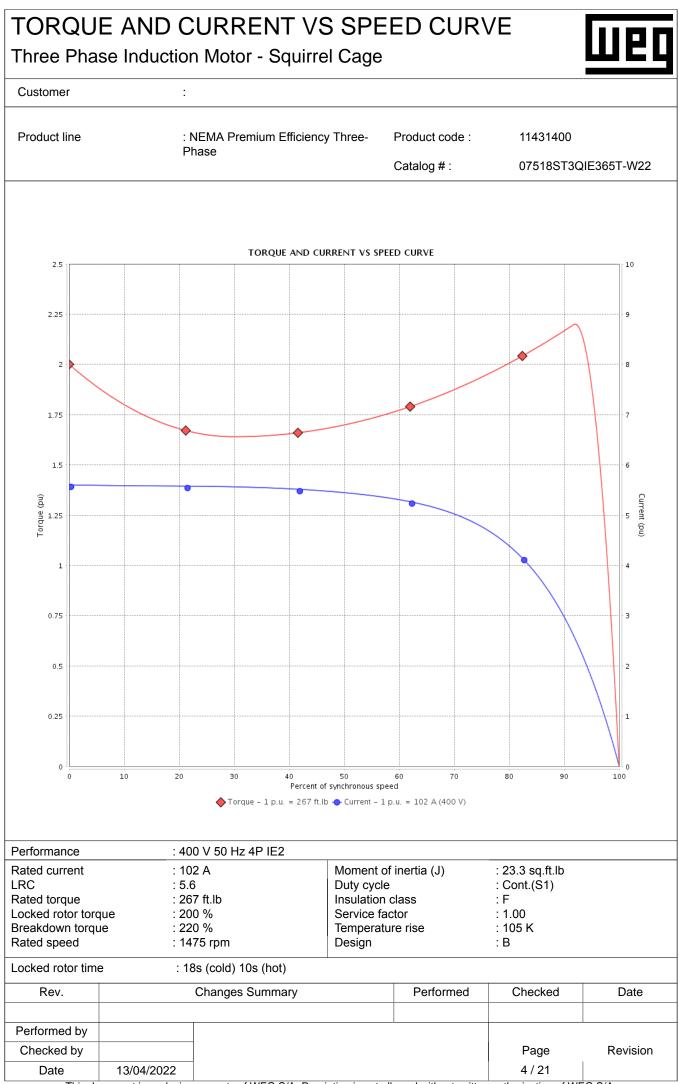
Three Phase Induction Motor - Squirrel Cage

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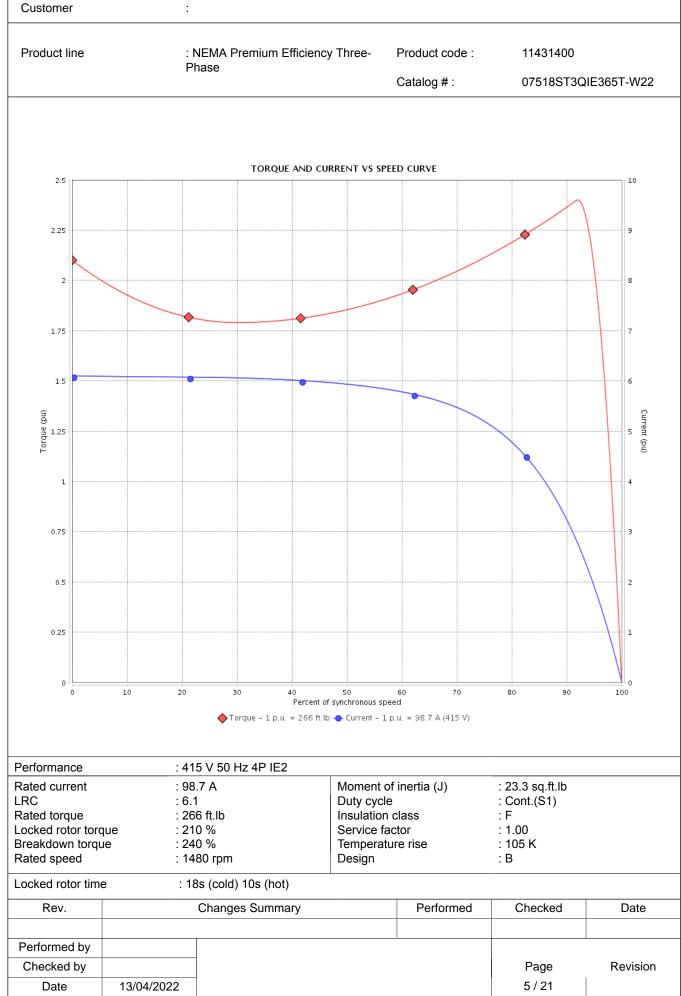






TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



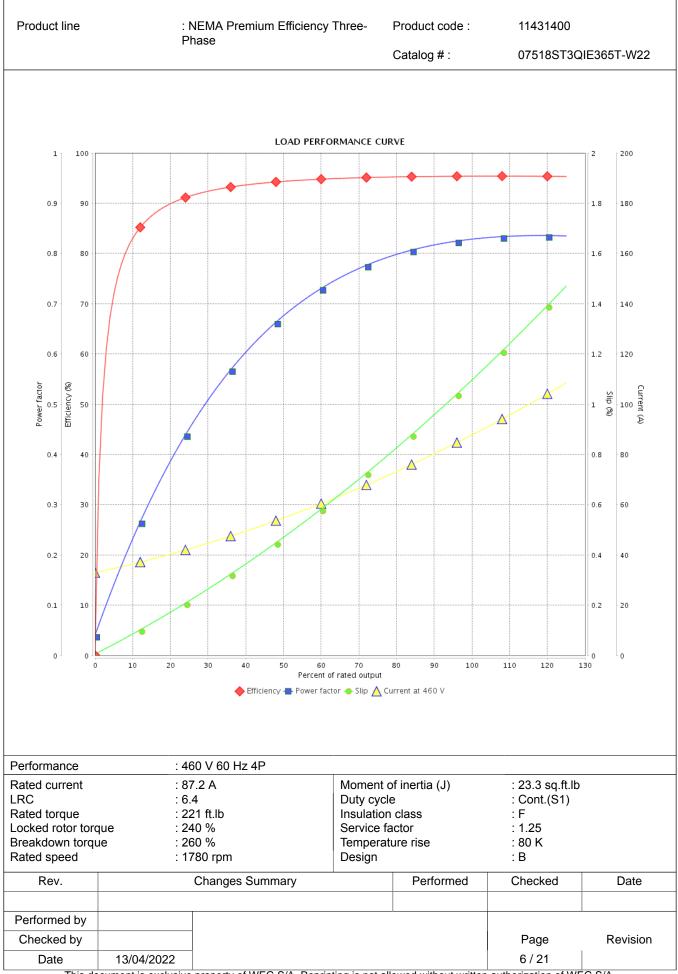
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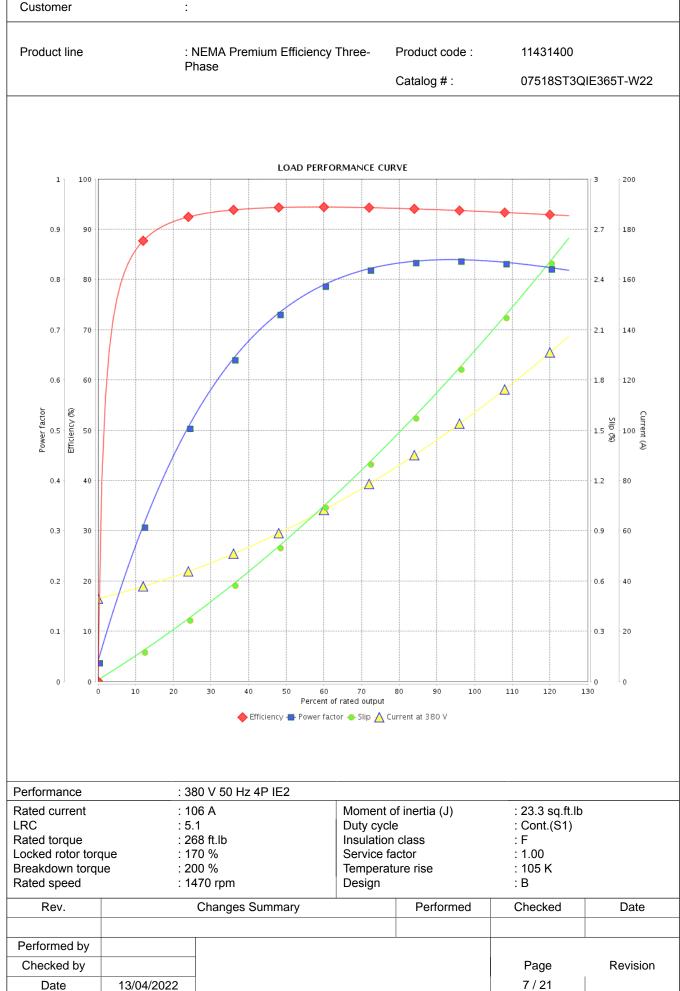


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Three Phase Induction Motor - Squirrel Cage

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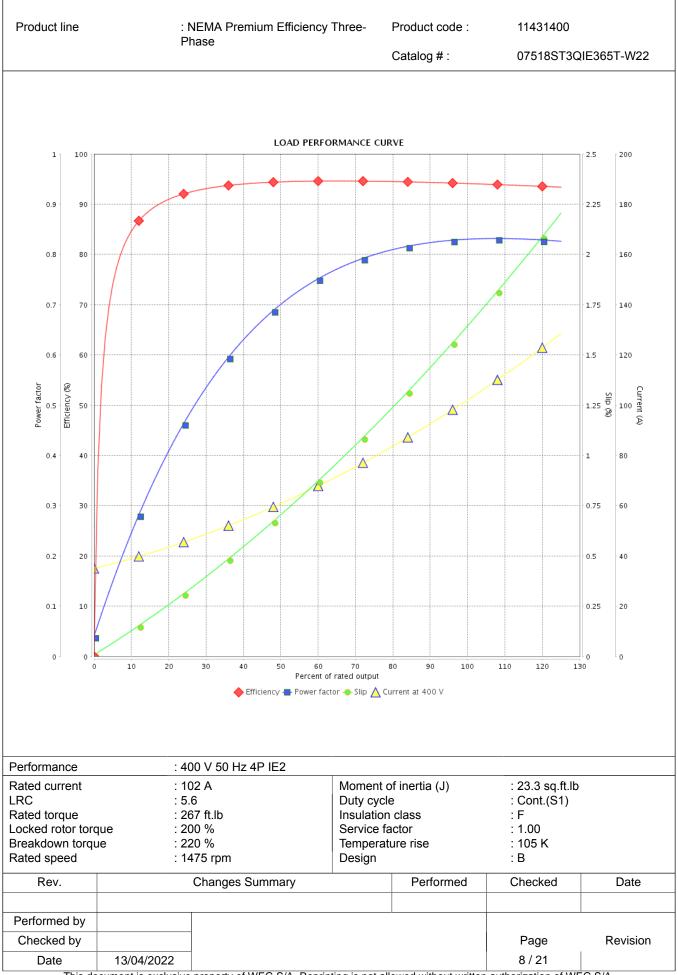
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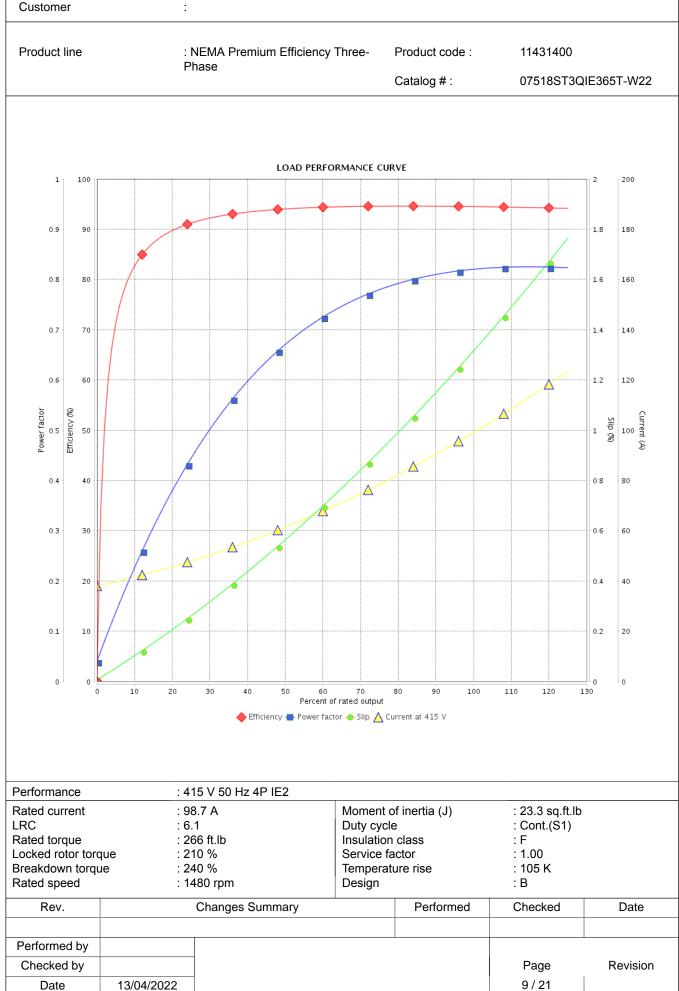


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Three Phase Induction Motor - Squirrel Cage

Customer



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| THERMAL LIMIT CURVE | | | | | | | |
|--|------------|--|--|-------------------------------|--|------------|--|
| Three Pha | se Inducti | on Motor - Squirrel | Cage | | | шед | |
| Customer | | : | | | | | |
| Product line | | : NEMA Premium Efficiency Phase | | Product code : Catalog # : | 11431400 07518ST3Q | IE365T-W22 | |
| | | | | | | | |
| Performance | | : 460 V 60 Hz 4P | N.4 | fine entire (1) | | | |
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | | : 87.2 A : 6.4 : 221 ft.lb : 240 % : 260 % : 1780 rpm | Moment of Duty cycle Insulation Service fa Temperate Design | class ctor | : 23.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B | | |
| Heating constant | | | | | | | |
| Cooling constant | | Changes Current | | | Chapter - | Data | |
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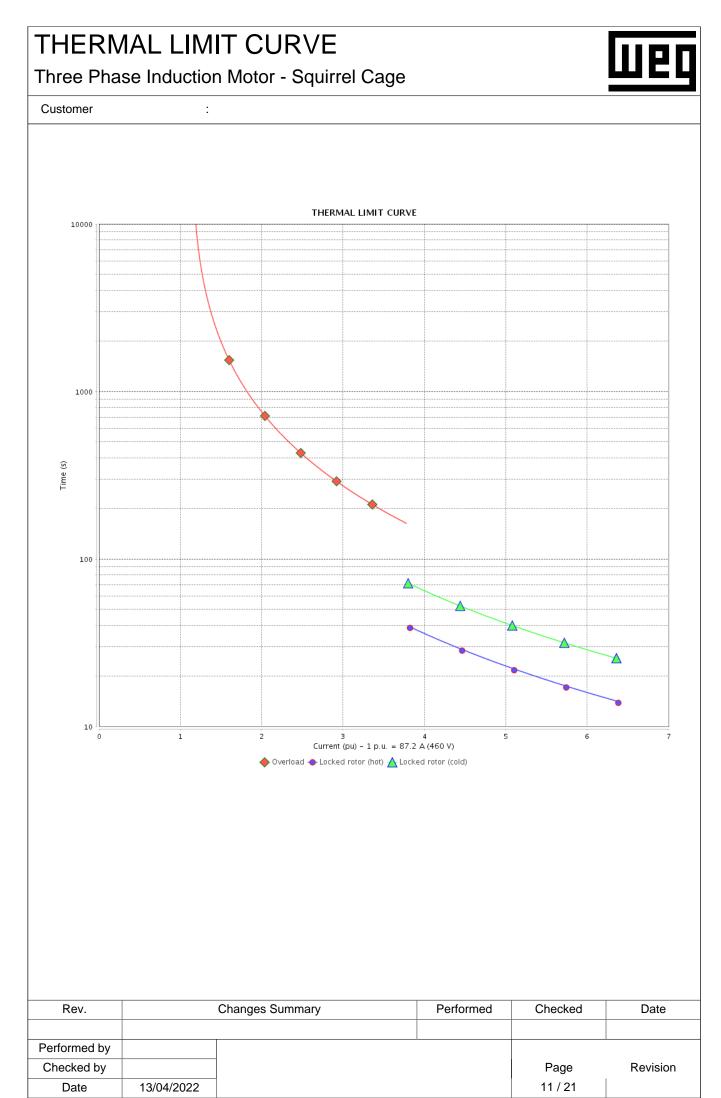
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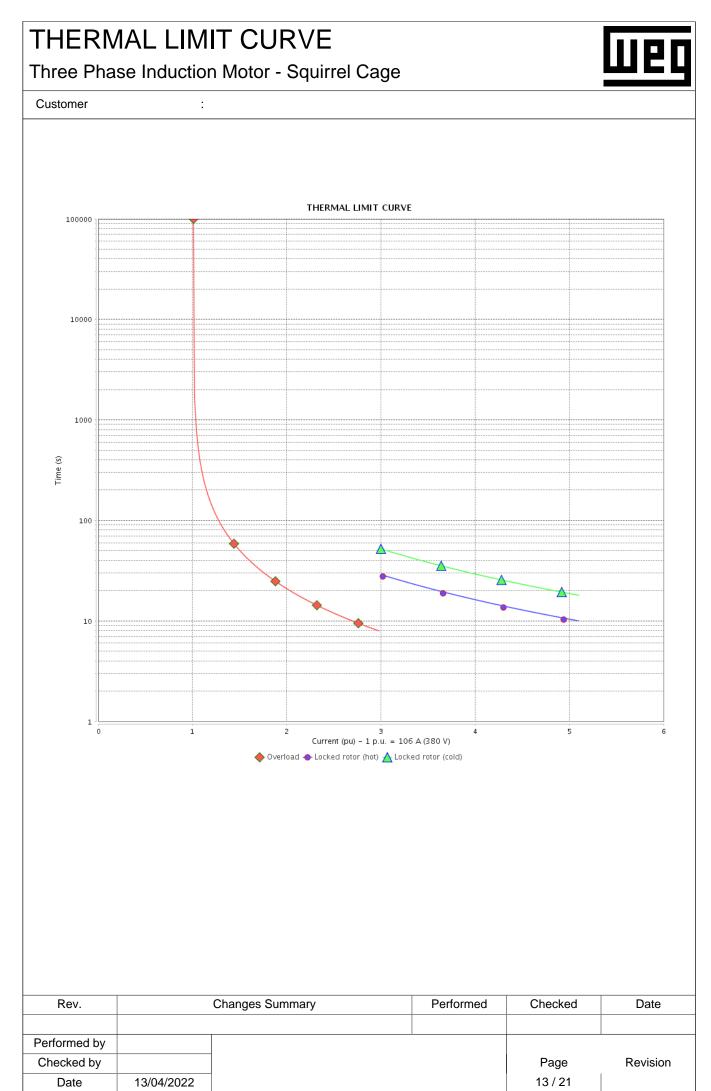
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| Three Pha | se Inducti | on Motor - Squirrel | Cage | | | Шед | |
| Customer | | : | | | | | |
| Product line | | : NEMA Premium Efficiency | Three- | Product code : | 11431400 | | |
| | | Phase | | Catalog # : | 07518ST3Q | IE365T-W22 | |
| | | | | | | | |
| Performance | | 380 V 50 Hz 4P IE2 | | | | | |
| Rated current LRC | : | 5.1 Duty cycle | | | | | |
| Rated torque Locked rotor torc | | 268 ft.lb 170 % | Insulation Service fa | | : F : 1.00 | | |
| Breakdown torqu Rated speed | ie : | 200 % 1470 rpm | Temperature rise Design | | : 105 K : B | | |
| Heating constant | | | | | | | |
| Cooling constant | | Ohannas Ormu | | Deuteur | Oklas l | Dete | |
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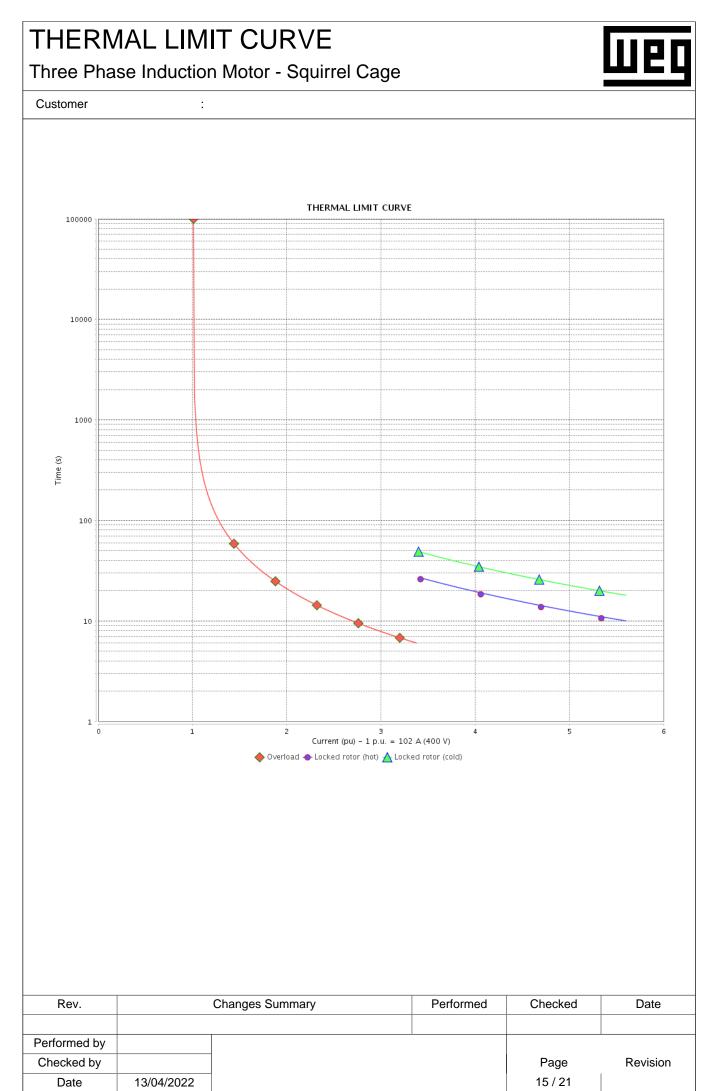
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| Three Pha | se Inductio | on Motor - Squirrel | Cage | | | Weg | |
| Customer | | : | | | | | |
| Product line | | : NEMA Premium Efficiency ⁻ Phase | | Product code : Catalog # : | 11431400 07518ST3Q | IE365T-W22 | |
| | | | | | | | |
| Performance Rated current | | 400 V 50 Hz 4P IE2 102 A | Moment o | f inertia (J) | : 23.3 sq.ft.lb | | |
| LRC: 5.6Rated torque: 267 ft.lbLocked rotor torque: 200 %Breakdown torque: 220 % | | Duty cycle Insulation Service fa Temperatu Design | e class ctor | : Cont.(S1) : F : 1.00 : 105 K : B | | | |
| Heating constant | t | | | | | | |
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| Customer | : | | | | | | |
| Product line | | NEMA Premium Efficiency ⁻ hase | | Product code : Catalog # : | 11431400 07518ST3Q | IE365T-W22 | |
| | | | | | | | |
| Performance Rated current | | 15 V 50 Hz 4P IE2 8.7 A | Moment o | f inertia (J) | : 23.3 sq.ft.lb | | |
| LRC Rated torque Locked rotor torque Breakdown torque Rated speed | | 1 66 ft.lb 10 % 40 % 480 rpm | Duty cycle Insulation Service fa Temperatu Design | le : Cont.(n class : F factor : 1.00 | | | |
| Heating constant | | | | | | | |
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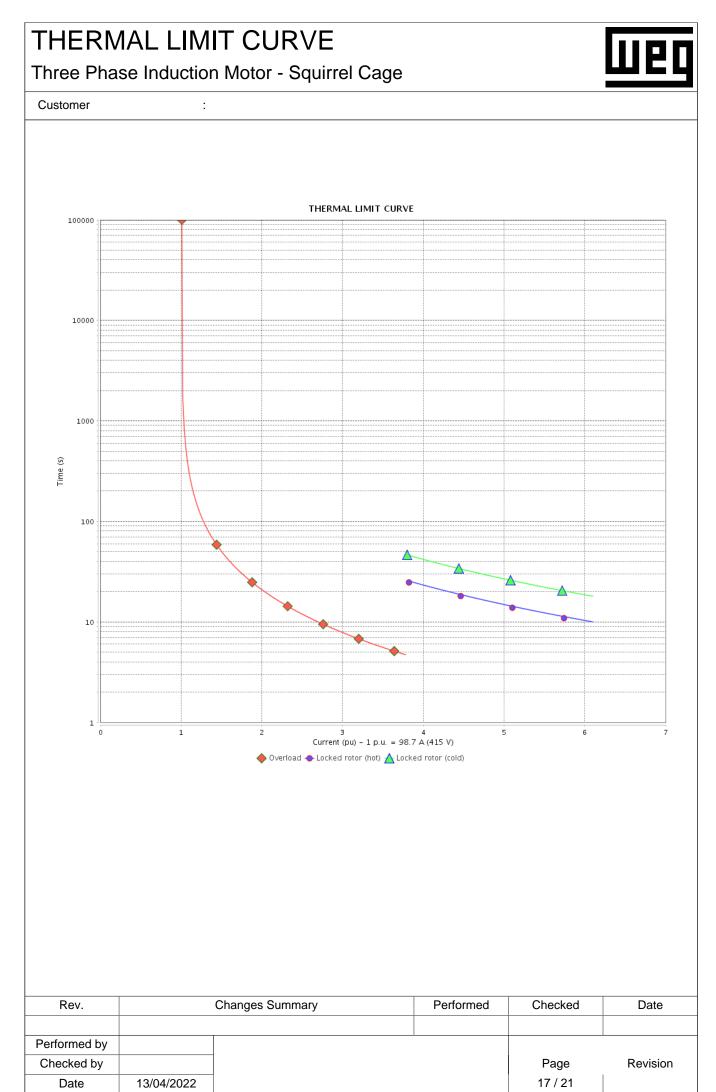
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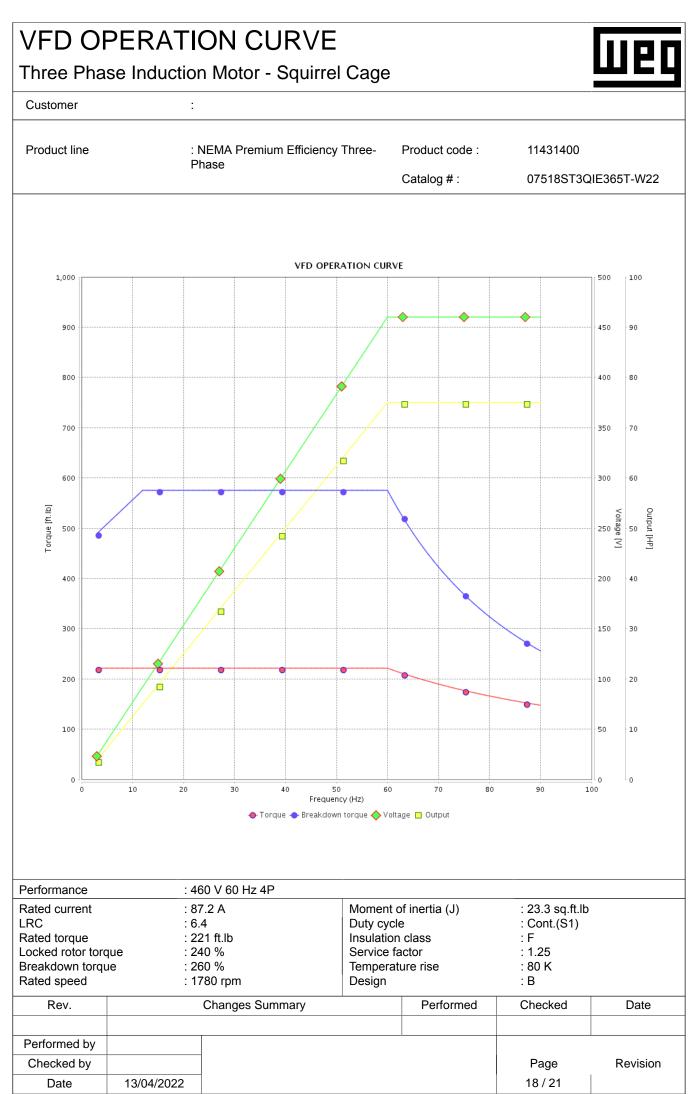
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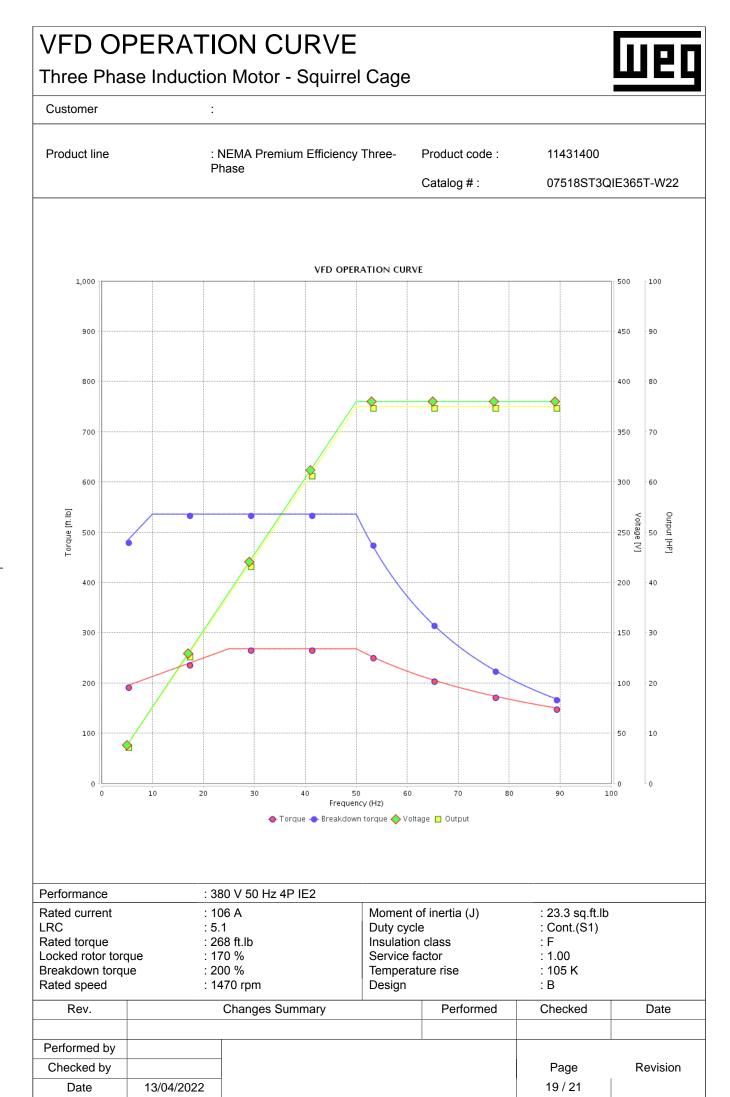
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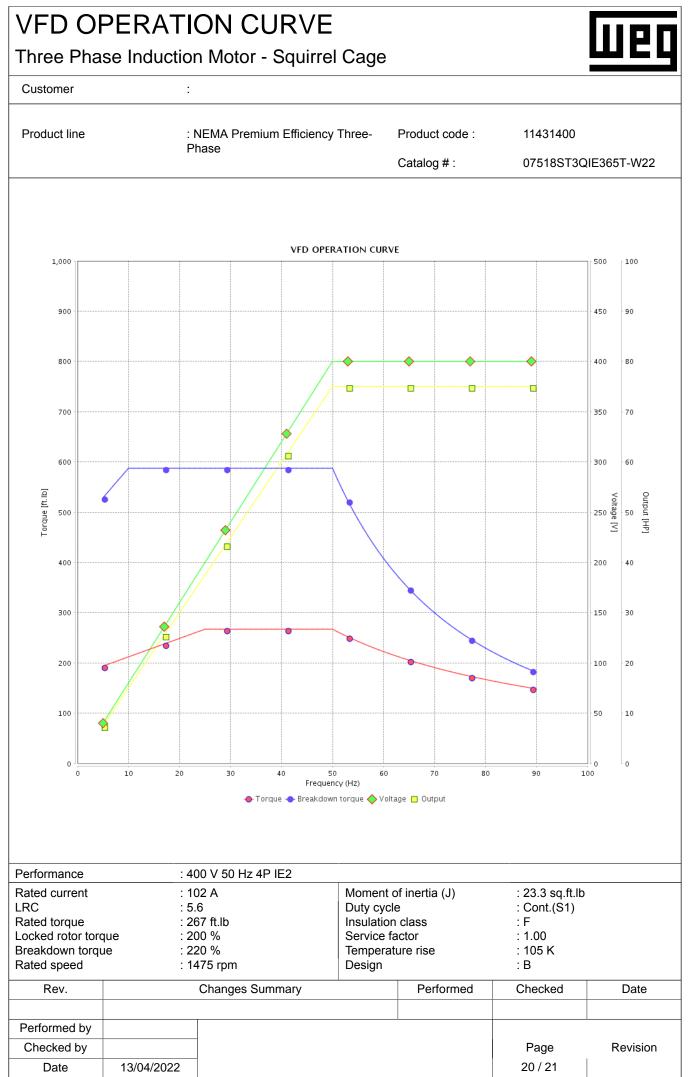
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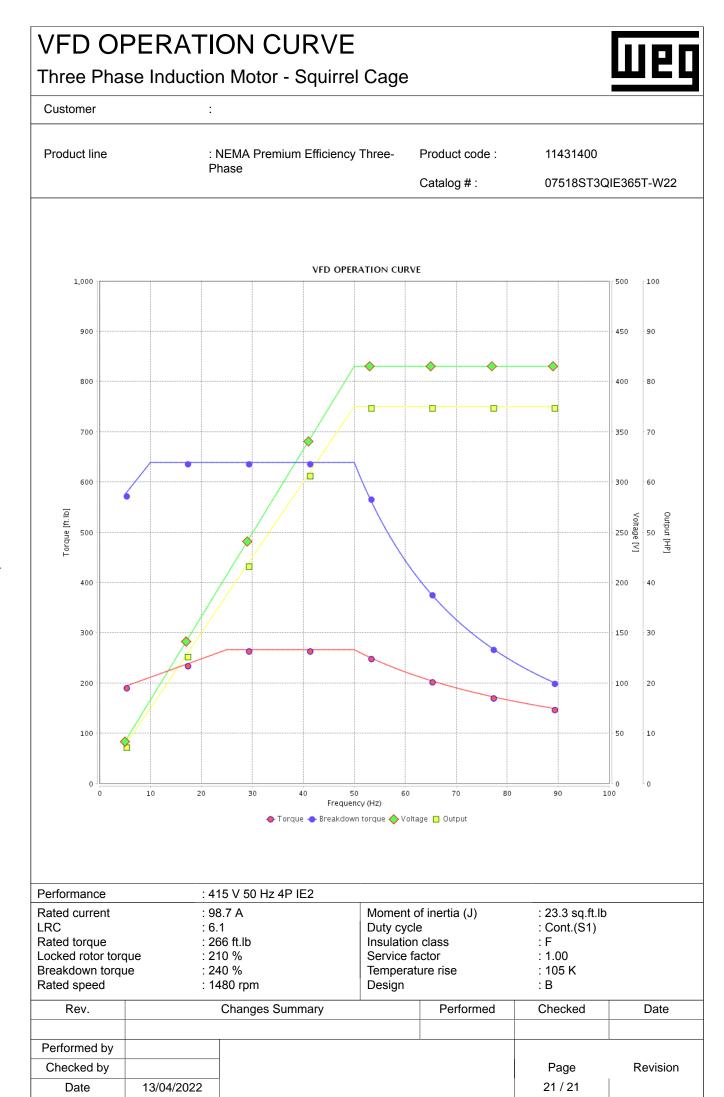


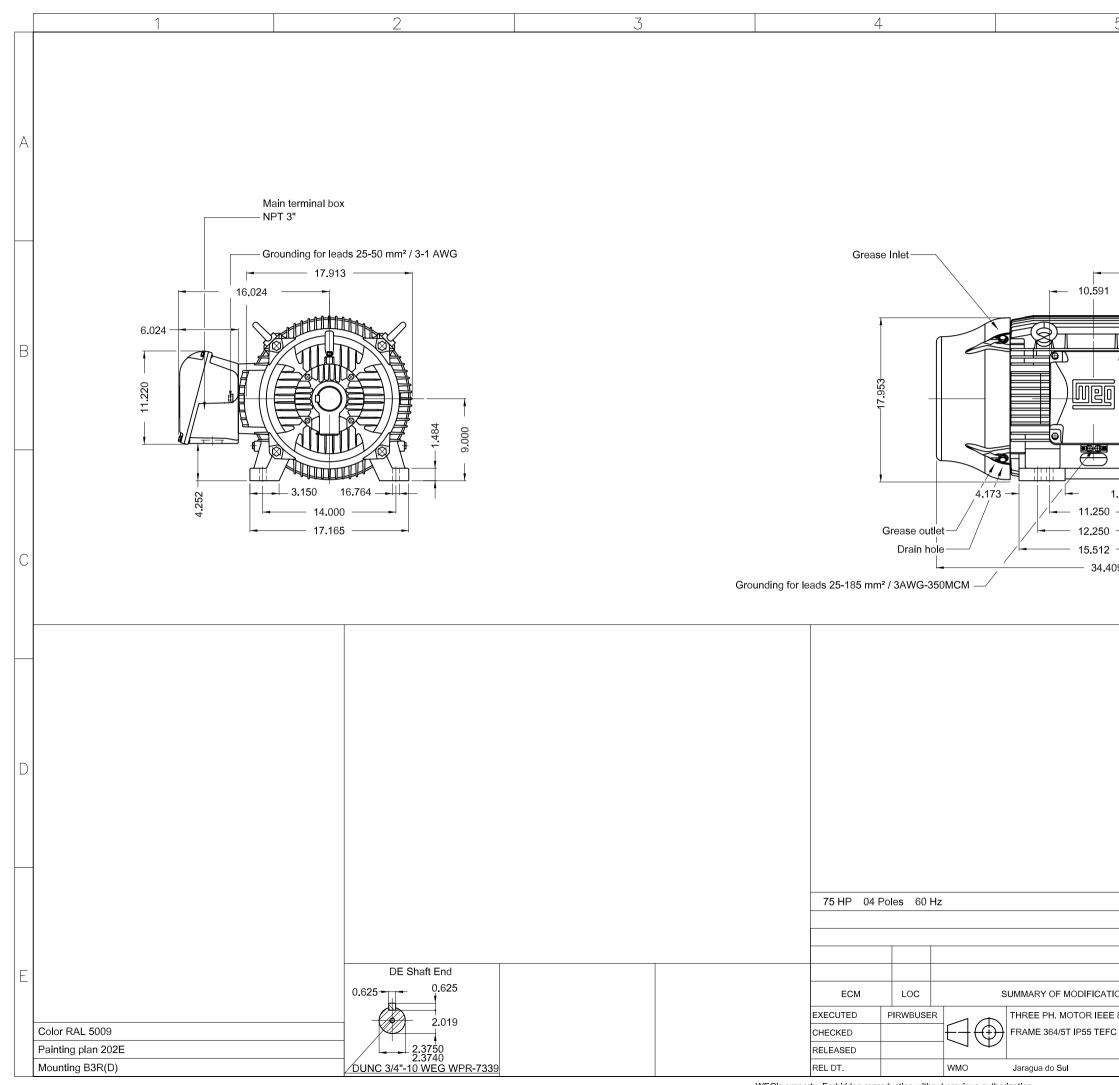
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