DATA SHEET

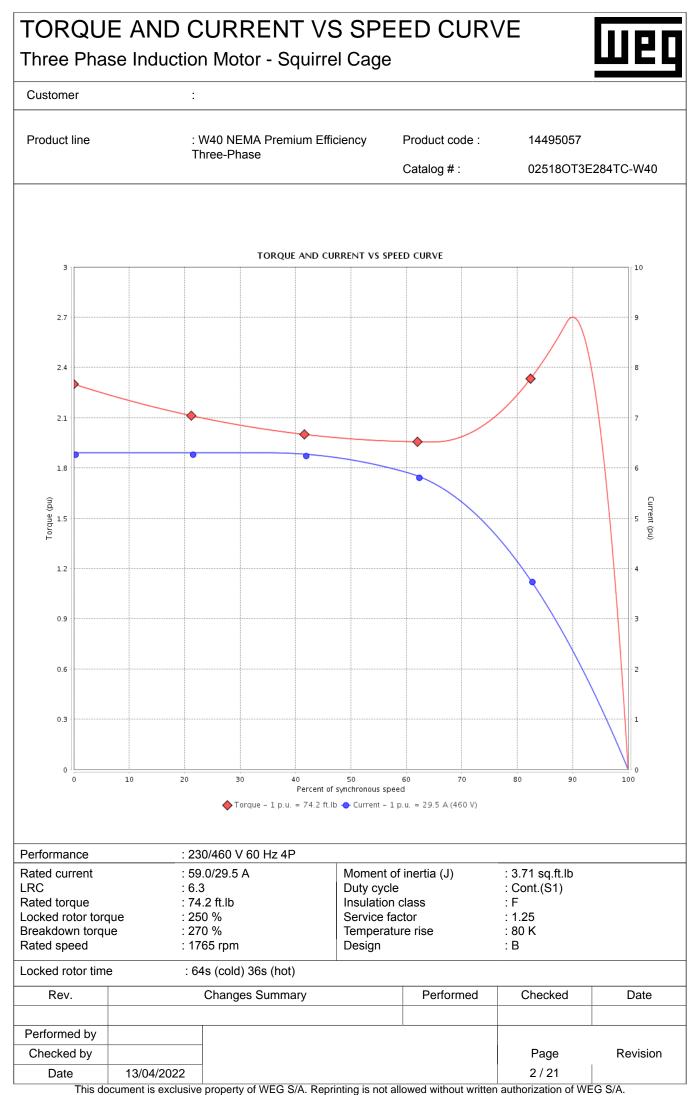
Three Phase Induction Motor - Squirrel Cage

:



Customer

| Product line | | : W40 NEMA Premium Efficier | | ncy Product code : | | 14495057 | |
|---|--|--|---|--|-----------|---|---|
| | | Three-Phase | | Catalog # : | | 02518OT3E284TC-W40 | |
| Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design | | : 284TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : B | | Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J) | | : IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 358 lb : 3.71 sq.ft.lb | |
| Dutput [HP] | | 25 | | 20 | 2 | n | 20 |
| Poles | | 4 | | 4 | 4 | - | 4 |
| Frequency [Hz] | | 60 | | 50 | 5 | | 50 |
| Rated voltage [V] | | 230/460 | | 380 | 40 | | 415 |
| Rated current [A] | | 59.0/29.5 | | 29.5 | 28 | .7 | 28.0 |
| . R. Amperes [A] | | 372/186 | | 171 | 19 | | 190 |
| .RC [A] | | 6.3x(Code G) | 5.8 | Bx(Code G) | 6.7x(Co | | 6.8x(Code J) |
| No load current [A | 1 | 22.0/11.0 | | 10.0 | 11 | | 12.0 |
| Rated speed [RPN | | 1765 | | 1465 | 14 | | 1475 |
| Slip [%] | - | 1.94 | | 2.33 | 2.0 | | 1.67 |
| Rated torque [ft.lb] | 1 | 74.2 | | 71.4 | 71 | | 71.2 |
| ocked rotor torqu | | 250 | | 229 | 25 | | 270 |
| Breakdown torque | | 270 | | 250 | 29 | | 300 |
| Service factor | L / ~ J | 1.25 | | 1.00 | 1.0 | | 1.00 |
| Temperature rise | | 80 K | | 80 K | 80 | | 80 K |
| Locked rotor time | | | cold) 39s (ho | | | 61s (cold) 34s (hot) | |
| Noise level ² | | 64.0 dB(A) | | | | | |
| | 25% | 92.8 | | 91.5 | 91 | .5 | 91.5 |
| | 50% | 93.0 | 91.7 | | 91 | | 91.7 |
| Efficiency (%) | 75% | 93.6 | 92.1 | | 92 | | 92.1 |
| | 100% | 93.6 | 92.1 | | 92 | | 92.1 |
| | 25% | 0.45 | 0.46 | | 0.4 | | 0.38 |
| | 50% | 0.69 | | 0.69 | 0.6 | | 0.62 |
| Power Factor | 75% | 0.80 | | 0.79 | 0.7 | | 0.74 |
| | 100% | 0.84 | | 0.84 | 0.8 | | 0.81 |
| Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type | | Drive end 6311 Z C3Non dr:6311 Z C3621:WithoutWithoutBearing SealBear:20000 h20 | rive end 1 Z C3 ithout ing Seal 000 h 11 g EM | Foundation Max. tractic Max. comp | loads | | |
| Notes USABLE @208V | 65.2A SF 1. | 15 SFA 75.0A | | I | | | |
| must be eliminate (1) Looking the m (2) Measured at 1 | d. otor from the m and with t veight subjec ocess. | ncel the previous one, wh e shaft end. olerance of +3dB(A). tt to changes after | hich | | | | sts with sinusoidal stipulated in NEMA |
| Rev. | | Changes Summary | r | | Performed | Checke | d Date |
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| Date | 13/04/2022 | 2 | | | | 1/21 | |
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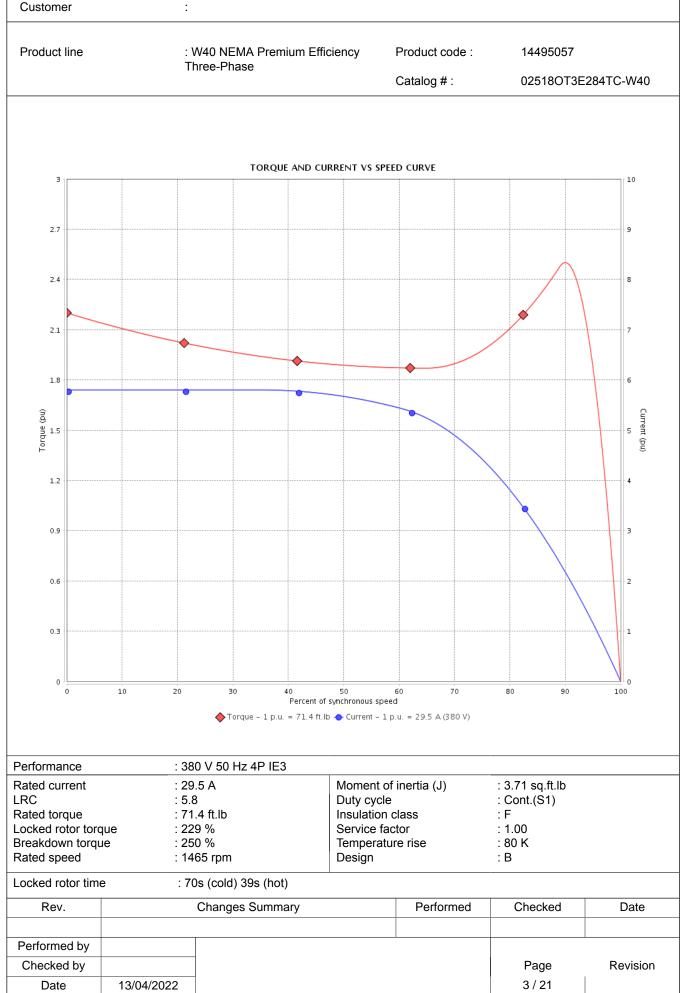


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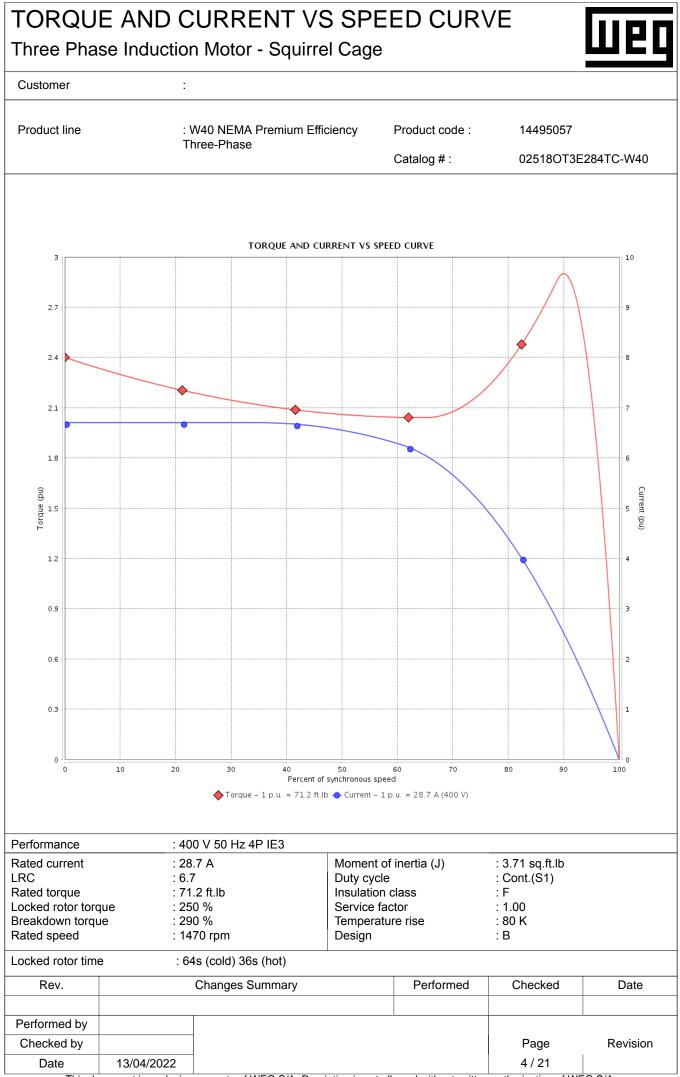
TORQUE AND CURRENT VS SPEED CURVE

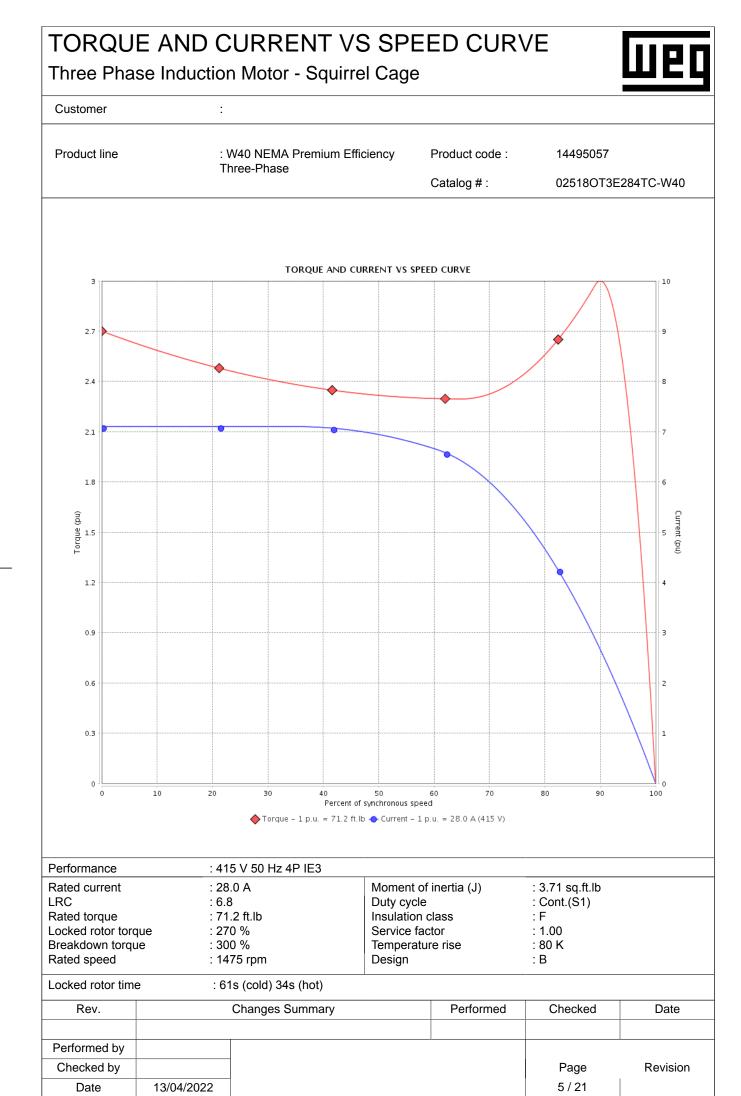
Three Phase Induction Motor - Squirrel Cage

Customer



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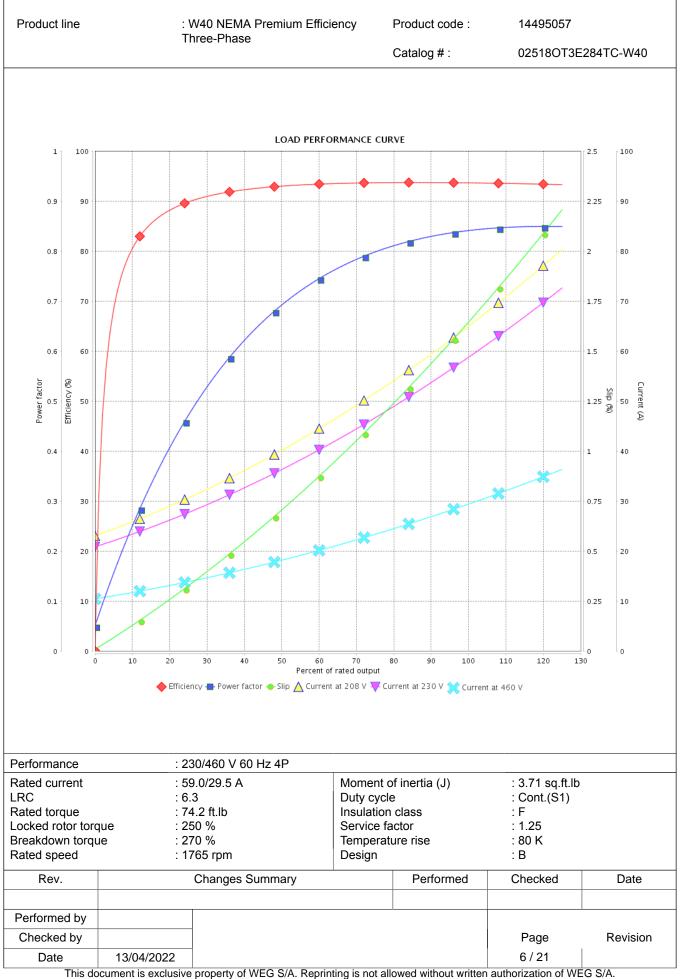


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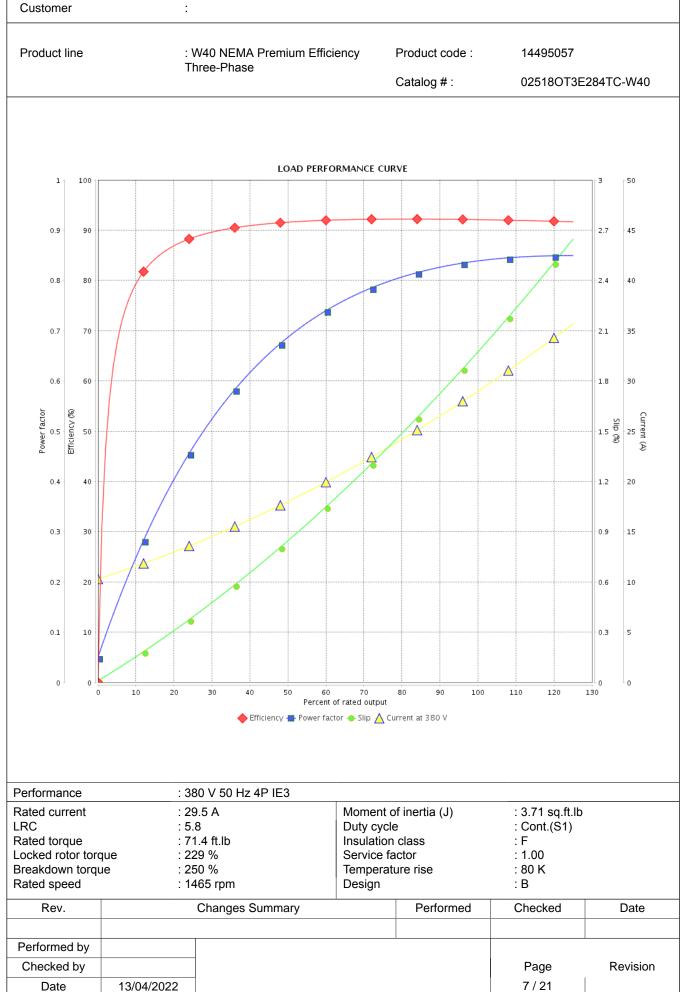


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Three Phase Induction Motor - Squirrel Cage

Customer



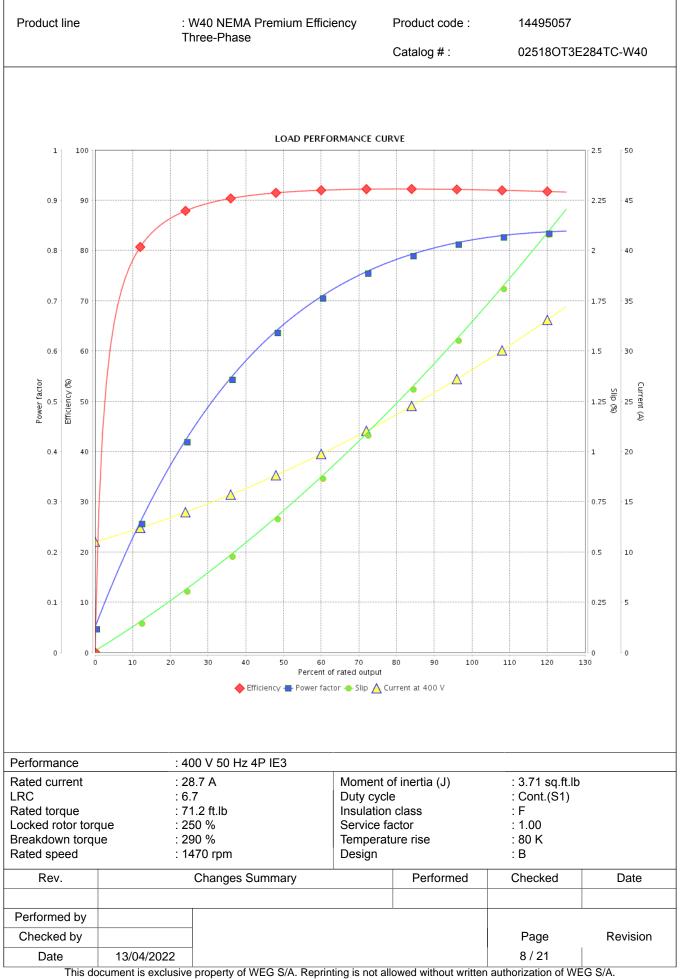
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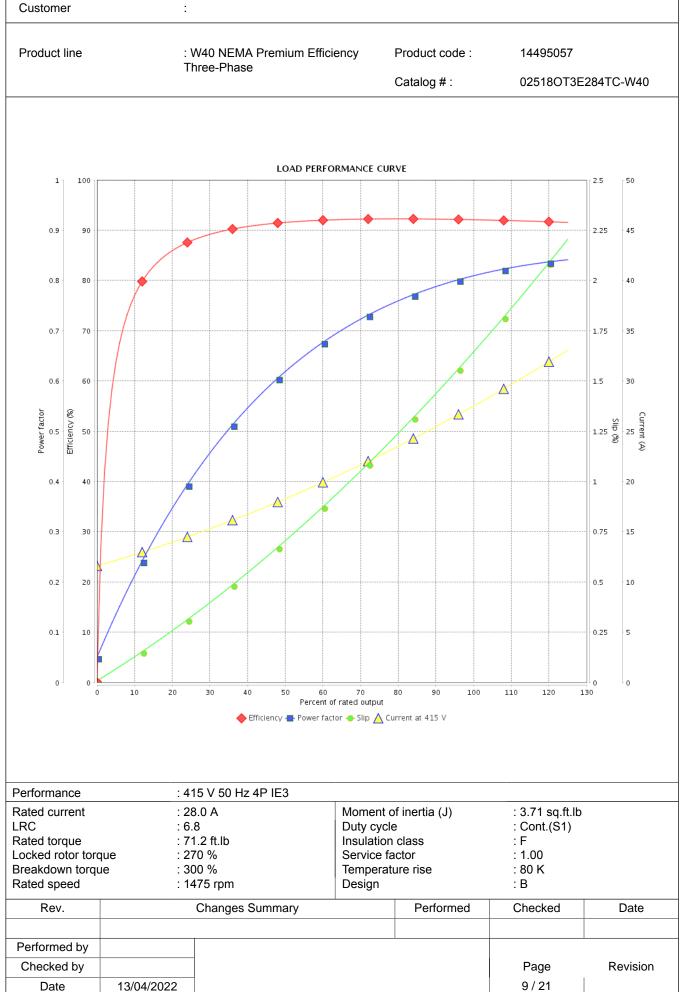


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THERMAL LIMIT CURVE

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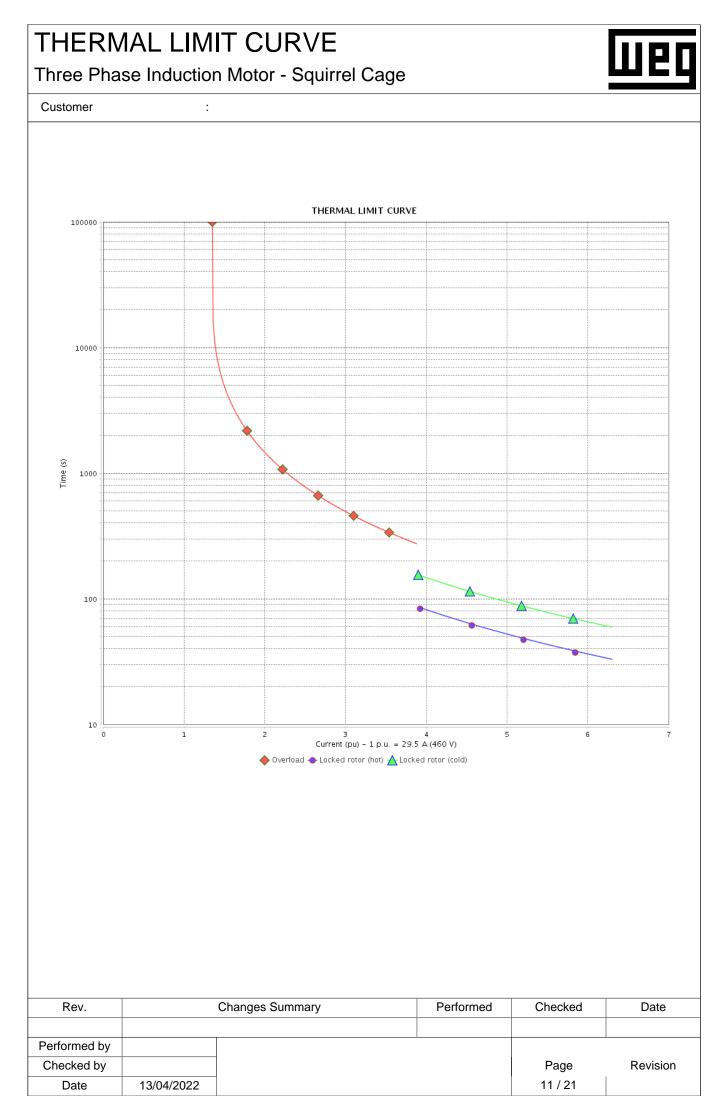
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Customer

| Product line | | N40 NEMA Premium Efficie nree-Phase | ency | Product code : | 14495057 | | |
|--|------------|--|------|----------------|--|------------|--|
| | | | | Catalog # : | 02518OT3E284TC-W40 | | |
| | | | | | | 20410-0040 | |
| Performance | : 23 | 30/460 V 60 Hz 4P | | | | | |
| Rated current:LRC:Rated torque:Locked rotor torque:Breakdown torque: | | .0/29.5 AMomen3Duty cy.2 ft.lbInsulatii0 %Service0 %Temper65 rpmDesign | | class ctor | : 3.71 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B | | |
| Heating constan | | | | | | | |
| Cooling constant | | | | | | | |
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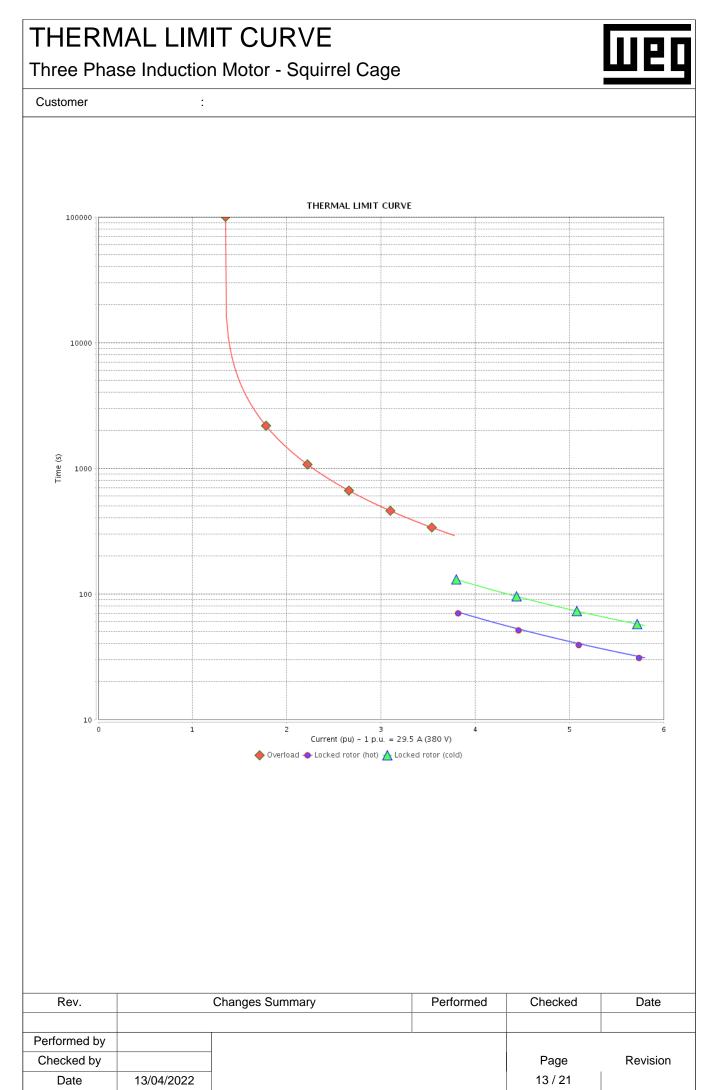
Three Phase Induction Motor - Squirrel Cage

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Customer

| Product line | : W40 NEMA Premium Efficiency | | ency | Product code : | 14495057 | 14495057 | |
|---|--|---|---|----------------|--|----------|--|
| | - | Three-Phase | | Catalog # : | 02518OT3E2 | 84TC-W40 | |
| | | | | | | | |
| Performance | | 380 V 50 Hz 4P IE3 | Moment | finantia (1) | | | |
| Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed | : (: : : : : : : : : : | 29.5 A 5.8 71.4 ft.lb 229 % 250 % 1465 rpm | Moment o Duty cycle Insulation Service fa Temperatu Design | class ctor | : 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | | |
| Heating constant | | | 5 | | | | |
| Cooling constant | | | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date | |
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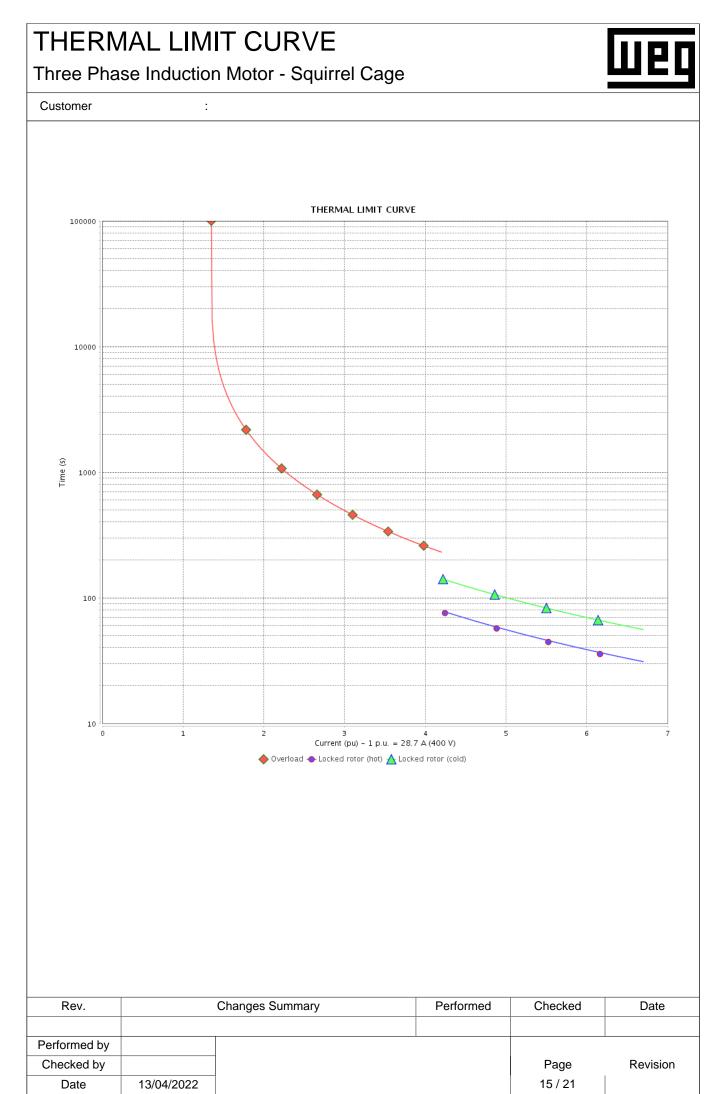


Customer

| Product line | | | | | | | | |
|---|-------------------------------|---|---|----------------|--|--------------------|--|--|
| | | W40 NEMA Premium Efficie Three-Phase | ency | Product code : | 14495057 | 14495057 | | |
| | | | | Catalog # : | 02518OT3E2 | 02518OT3E284TC-W40 | | |
| | | | | | | | | |
| Performance | | 00 V 50 Hz 4P IE3 | | | | | | |
| Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed | : 6 : 7 ue : 2 e : 2 | 8.7 A .7 1.2 ft.lb 50 % 90 % 470 rpm | Moment o Duty cycle Insulation Service fa Temperatu Design | class ctor | : 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | | | |
| Heating constant | | | | | | | | |
| Cooling constant Rev. | | Changes Summary | | Performed | Checked | Date | | |
| NUV. | | Changes Summary | | renomea | Checked | Dale | | |
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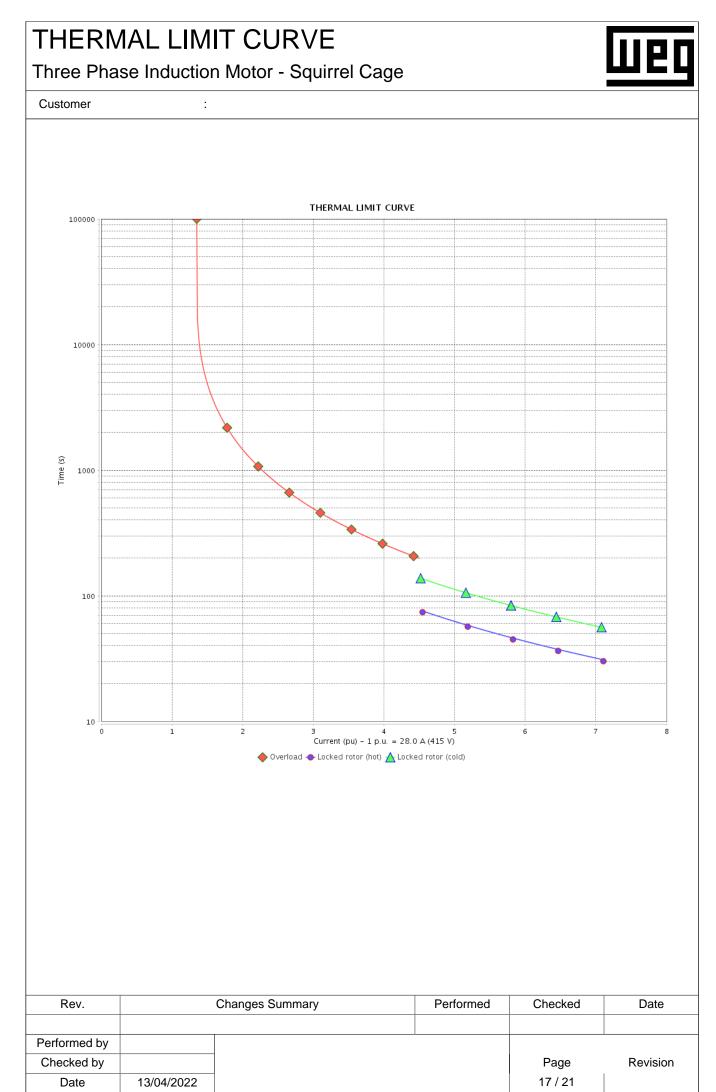
Three Phase Induction Motor - Squirrel Cage

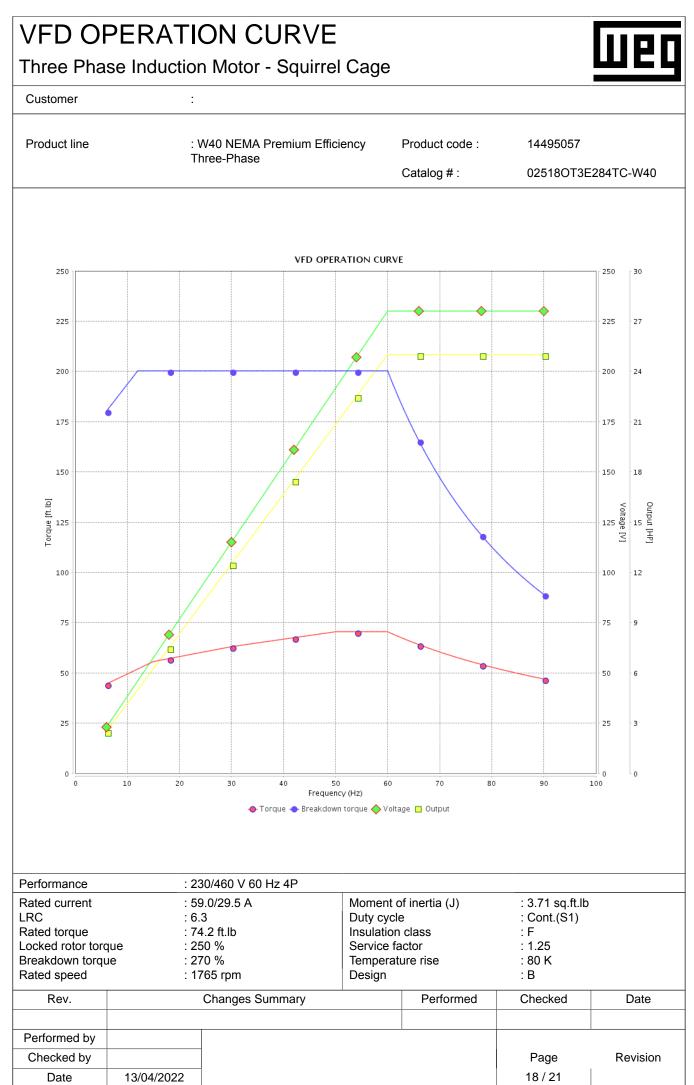
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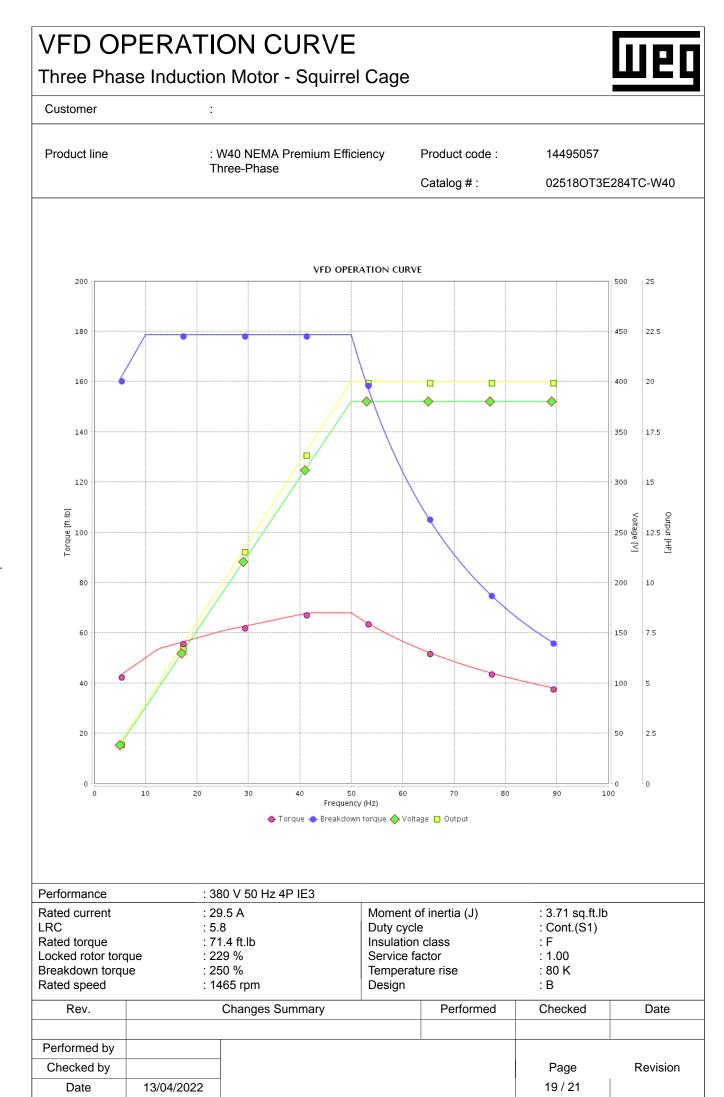


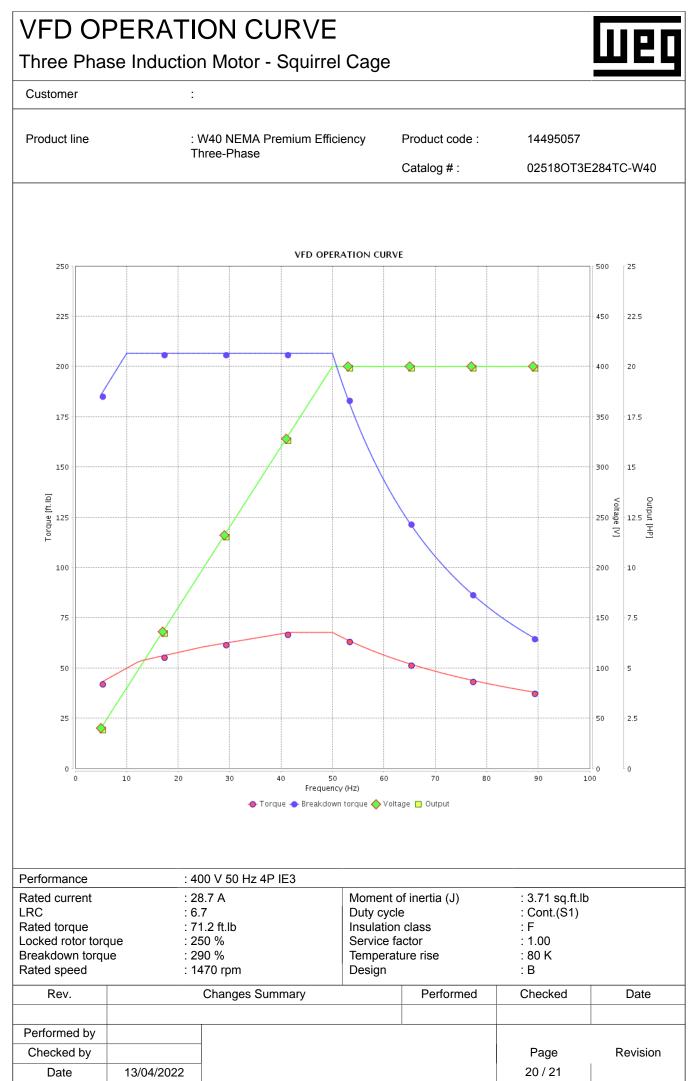
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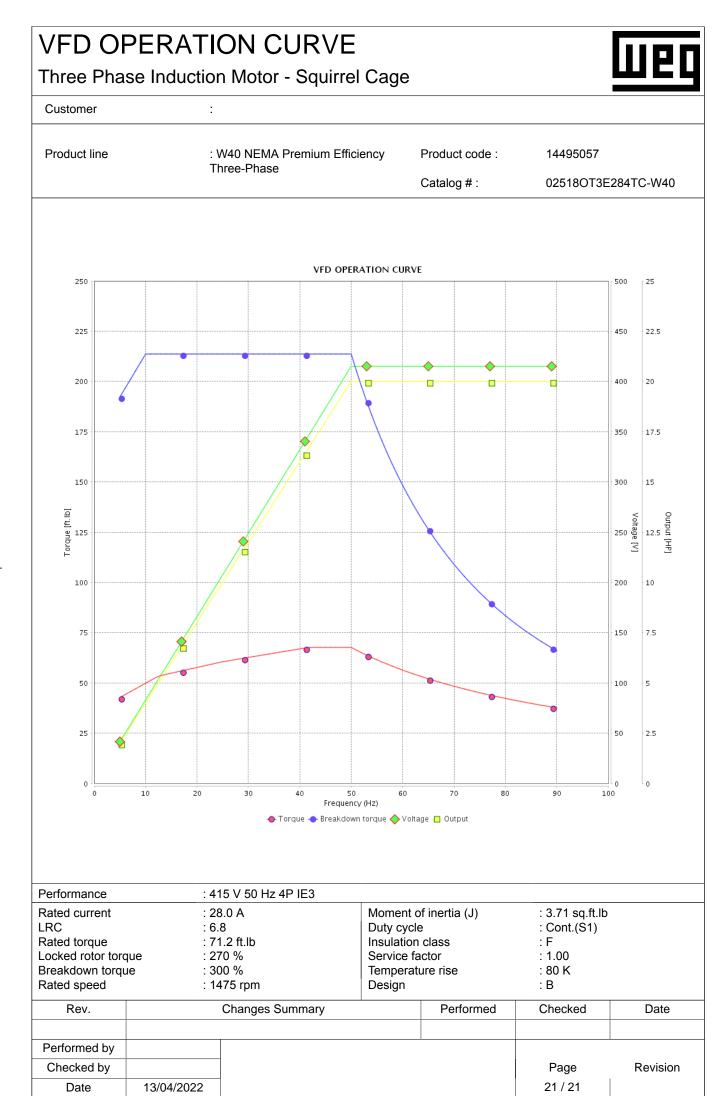
| Product line | | : W40 NEMA Premium Efficiency Three-Phase | | Product code : | 14495057 | 14495057 | |
|---|------------|---|---|----------------|--|--------------|--|
| | | | | Catalog # : | 02518OT3E2 | 84TC-W40 | |
| | | | | | | | |
| Performance | | 415 V 50 Hz 4P IE3 | | | | | |
| Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed | iue : | 28.0 A 6.8 71.2 ft.lb 270 % 300 % 1475 rpm | Moment of Duty cycle Insulation Service fa Temperat Design | class actor | : 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | | |
| Heating constant | t | | | | | | |
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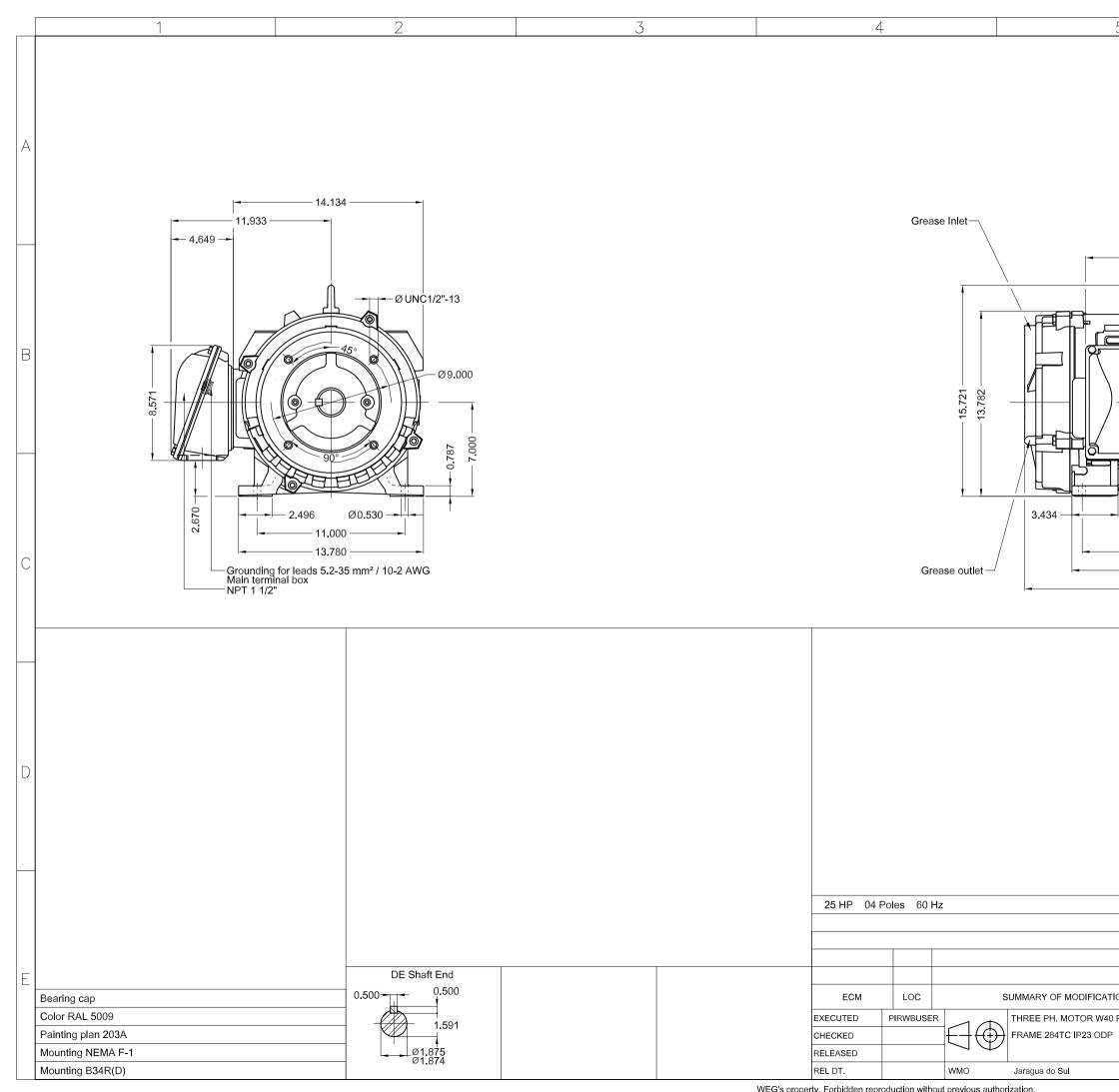












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