DATA SHEET

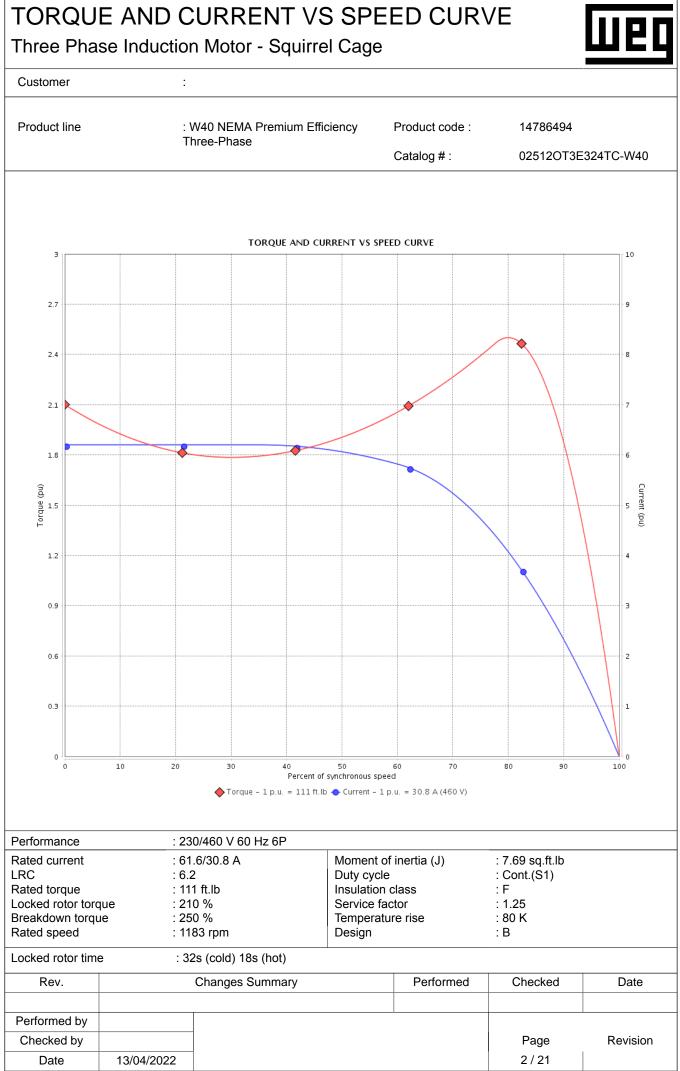
Three Phase Induction Motor - Squirrel Cage

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Customer

| Product line | | : W40 NEMA Premium Efficien | | ncy Product code : | | 14786494 | |
|---|--|---|--|--|------------|---|----------------------|
| | | Three-Phase | | Ca | atalog # : | 025120 | DT3E324TC-W40 |
| Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design | | : 324TC : 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 : 469 lb : 7.69 sq.ft.lb | |
| Output [HP] | | 25 | | 20 | 2 | 0 | 20 |
| Poles | | 6 | | 6 | 6 | - | 6 |
| Frequency [Hz] | | 60 | | 50 | 5 | | 50 |
| Rated voltage [V] | | 230/460 | | 380 | 40 | | 415 |
| Rated current [A] | | 61.6/30.8 | | 30.5 | 30 | .1 | 29.7 |
| . R. Amperes [A] | | 382/191 | | 201 | 20 | | 205 |
| RC [A] | | 6.2x(Code G) | 6.6 | x(Code H) 6.8x(C | | | 6.9x(Code J) |
| No load current [A | 1 | 28.4/14.2 | | 14.0 | 15 | | 16.7 |
| Rated speed [RPN | | 1183 | | 980 | 98 | | 985 |
| Slip [%] | - | 1.42 | | 2.00 | 1.5 | | 1.50 |
| Rated torque [ft.lb] | 1 | 111 | 107 | | 10 | | 107 |
| ocked rotor torqu | | 210 | 107 | | 22 | | 210 |
| Breakdown torque | | 250 | 250 | | 29 | | 310 |
| Service factor | L'*J | 1.25 | | 1.00 | 1.0 | | 1.00 |
| Temperature rise | | 80 K | 80 K | | 80 | | 80 K |
| Locked rotor time | | 32s (cold) 18s (hot) | 23s (cold) 13s (ho | | | | 25s (cold) 14s (hot) |
| Noise level ² | | 62.0 dB(A) | 200 (0 | | | | |
| | 25% | 91.0 | 90.6 | | 90 | .9 | 90.1 |
| | 50% | 91.7 | 90.8 | | 91 | | 90.3 |
| Efficiency (%) | 75% | 92.4 | | 91.2 | 91 | | 91.2 |
| | 100% | 93.0 | 91.2 | | 91 | | 91.2 |
| | 25% | 0.39 | 0.39 | | 0.3 | | 0.32 |
| | 50% | 0.65 | 0.65 | | 0.0 | | 0.52 |
| Power Factor | 75% | 0.00 | | 0.00 | 0.0 | | 0.30 |
| | 100% | 0.70 | | 0.82 | 0.7 | | 0.70 |
| Bearing type Sealing Lubrication interval Lubricant amount Lubricant type | | Drive endNon dr:6312 Z C3621:WithoutWiBearing SealBeari:20000 h20 | ive end 1 Z C3 ithout ing Seal 000 h 11 g EM | Foundation Max. tractic Max. comp | loads | | |
| | aces and car | 15 SFA 78.3A | hich | | | | ts with sinusoidal |
| (3) Approximate v manufacturing pro(4) At 100% of ful | otor from the m and with t veight subjec ocess. | olerance of +3dB(A). It to changes after | | power supp MG-1. | | | stipulated in NEMA |
| Rev. | | Changes Summary | | | Performed | Checked | Date |
| Performed by | | | | | | | |
| Checked by | | | | | | Page | Revision |
| Date | 13/04/202 | 2 | | | | 1/21 | |
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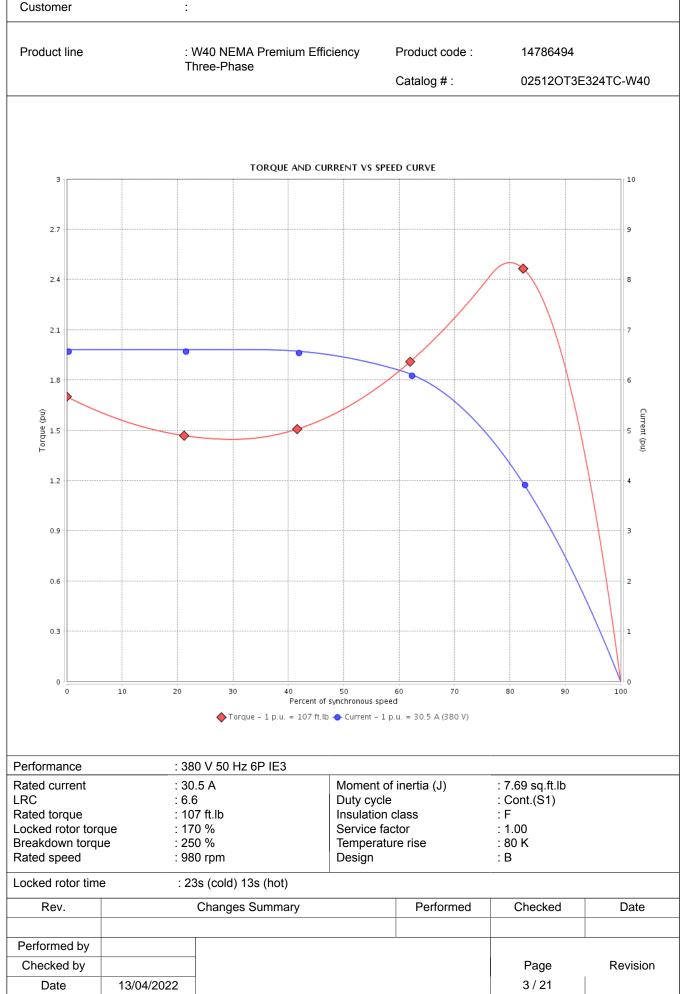


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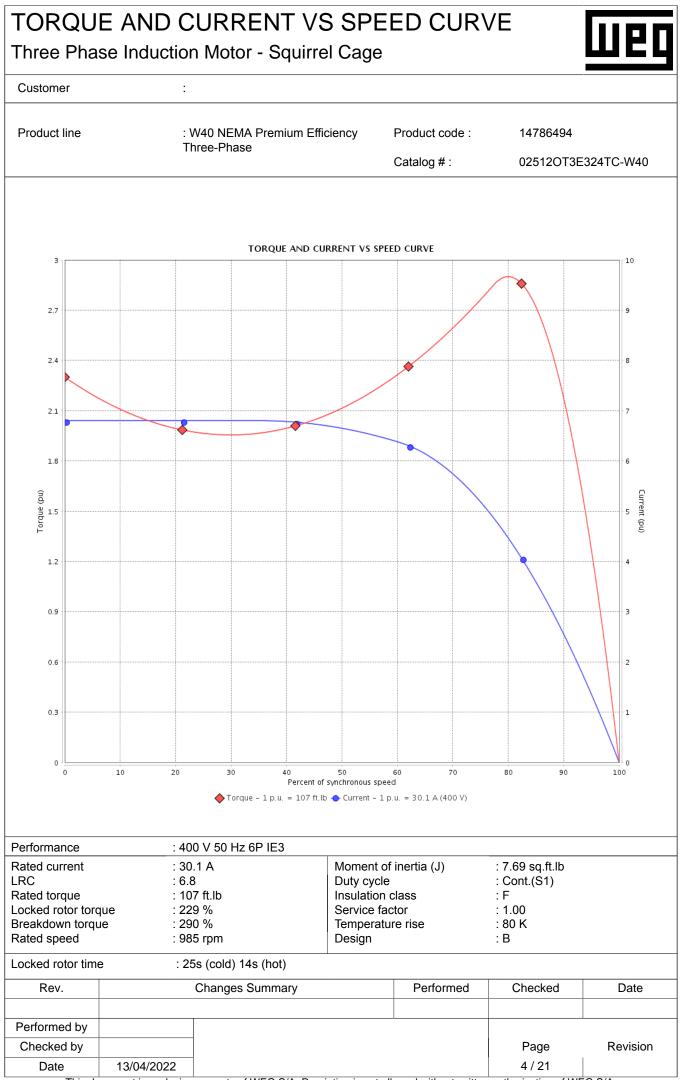
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



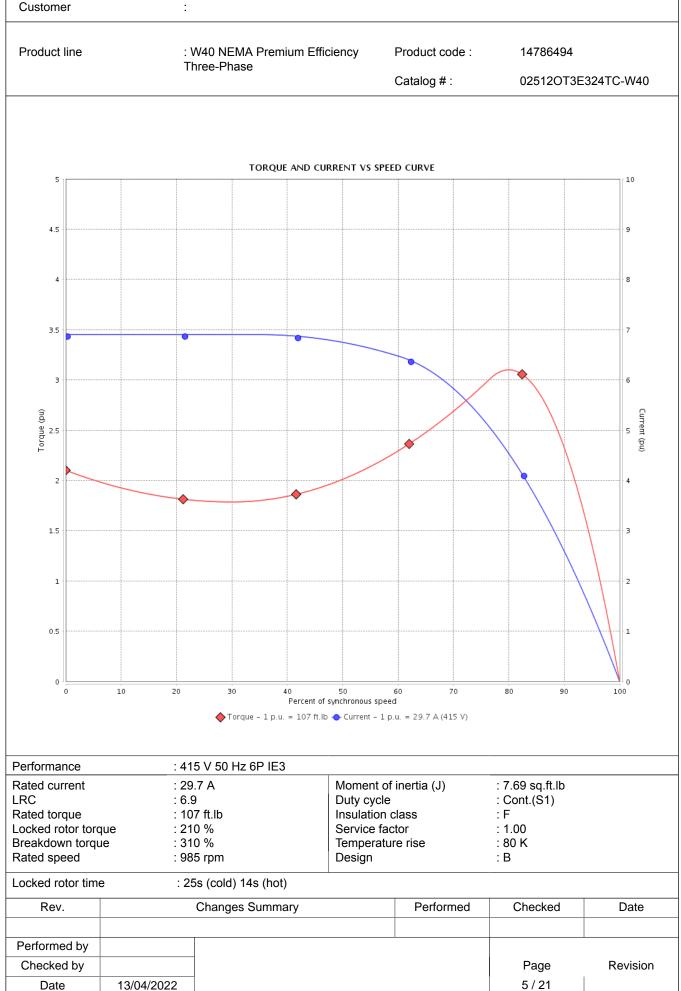
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



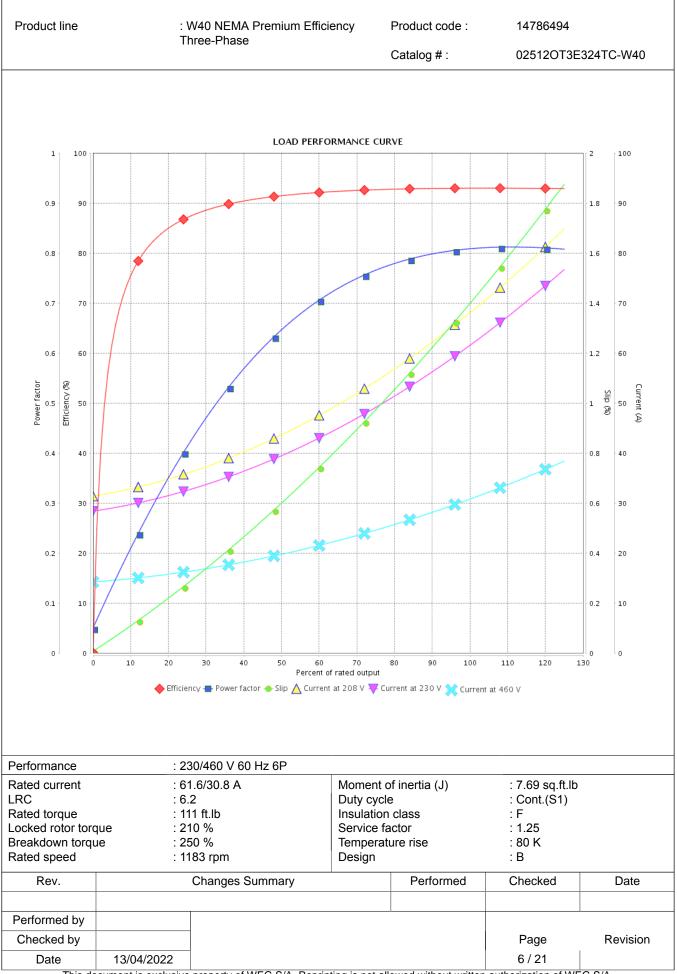
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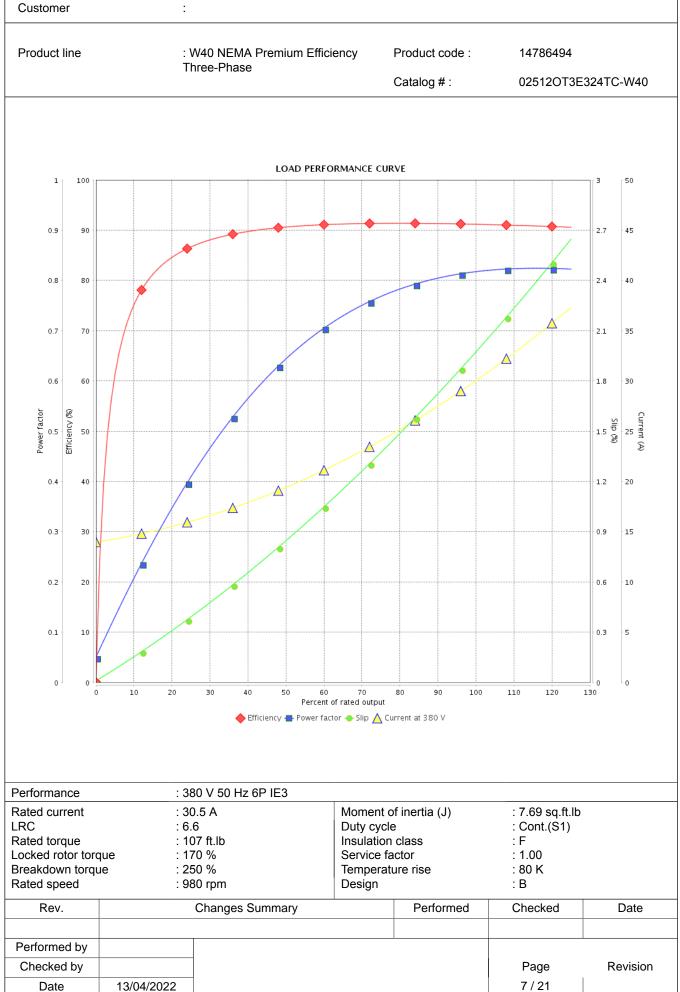


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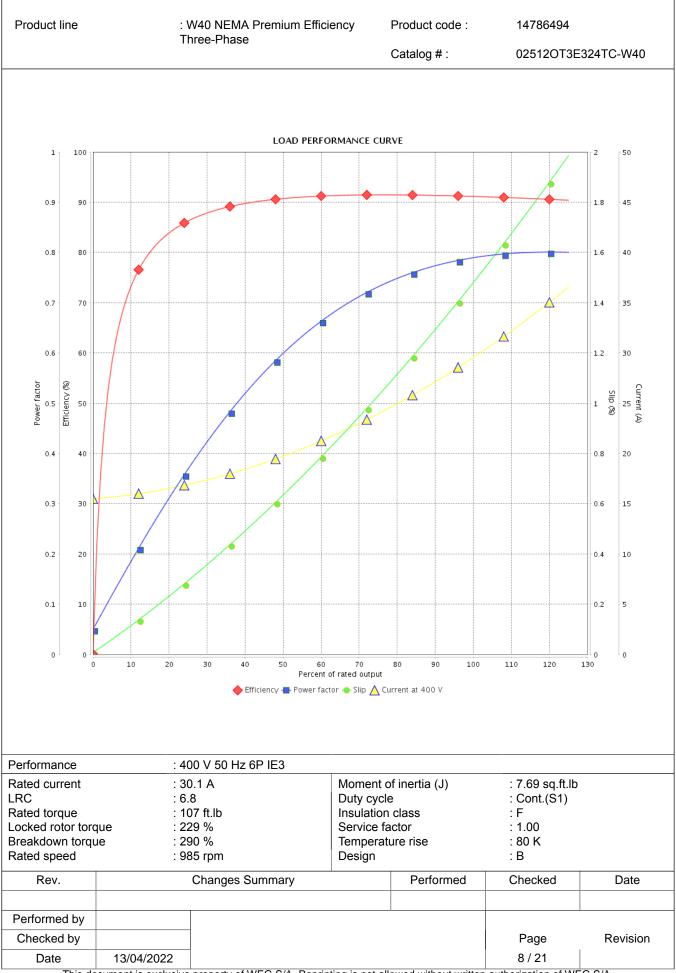
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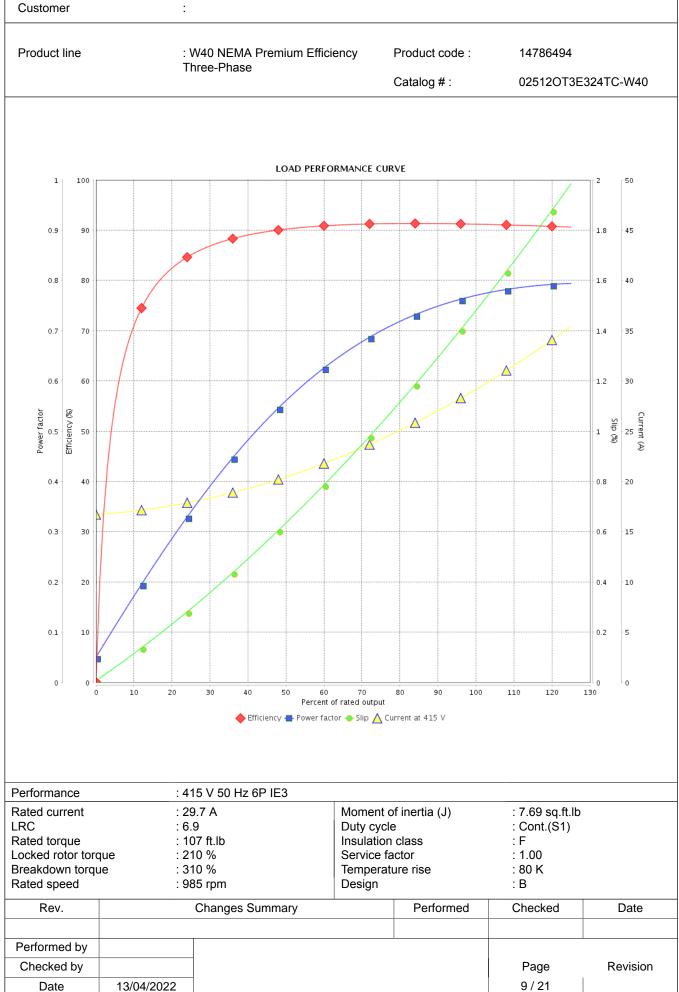


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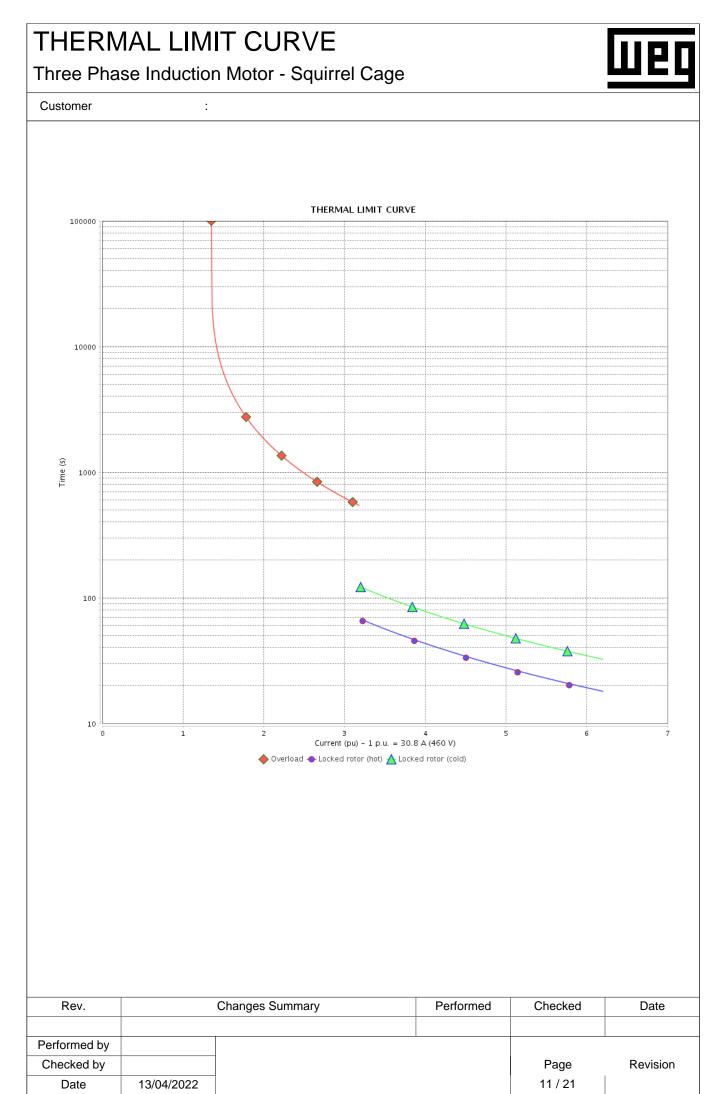
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Customer

| Product line | | : W40 NEMA Premium Efficiency | | Product code : | 14796404 | 14786494 | | |
|-----------------------------------|------------|-------------------------------|--------------------------|----------------|-----------------|-----------|--|--|
| FIDUUCLIIIIE | | Three-Phase | - | | | | | |
| | | | | Catalog # : | 02512OT3E3 | 24TC-W40 | | |
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| Performance | : 2 | 230/460 V 60 Hz 6P | | | | | | |
| Rated current | | 61.6/30.8 A | Moment o | f inertia (J) | : 7.69 sq.ft.lb | | | |
| | | 5.2 | Duty cycle |) | : Cont.(S1) | | | |
| Rated torque Locked rotor torc | | 111 ft.lb 210 % | Insulation Service fa | | : F : 1.25 | | | |
| Breakdown torqu | ie :2 | 250 % Tempera | | | : 80 K | | | |
| Rated speed | : 1 | 1183 rpm | Design | | : B | | | |
| Heating constant | : | | | | | | | |
| Cooling constant | | | | · · · · · · | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date | | |
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| Performed by | | 4 | | | D | Deviation | | |
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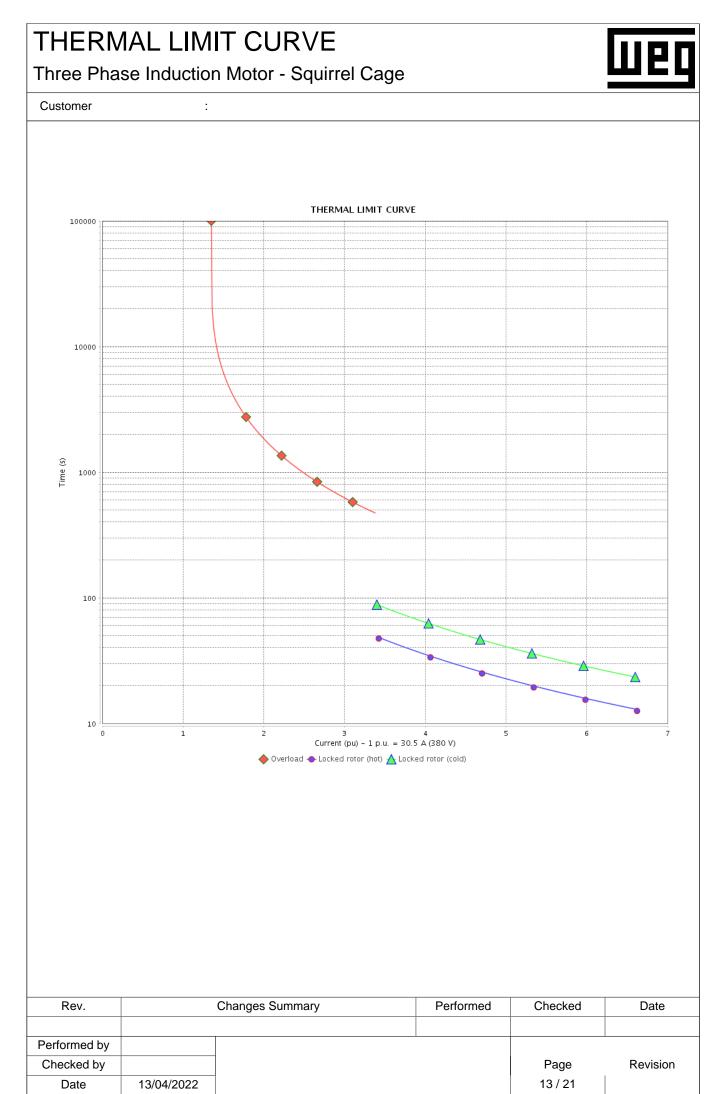


Customer

| Product line : W40 NEMA Premium Effi Three-Phase | | N40 NEMA Premium Efficie hree-Phase | | | 14786494 | | |
|---|---|--|---|---------------|--|----------|--|
| | | | | Catalog # : | 02512OT3E324TC-W40 | | |
| | | | | | | | |
| Performance | : 38 | 30 V 50 Hz 6P IE3 | | | | | |
| Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed | : 30 : 6. : 10 gue : 17 Je : 25 | 0.5 A | Moment o Duty cycle Insulation Service fa Temperatu Design | class ctor | : 7.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | | |
| Heating constan | t | | | | | | |
| Cooling constant | | | | | | | |
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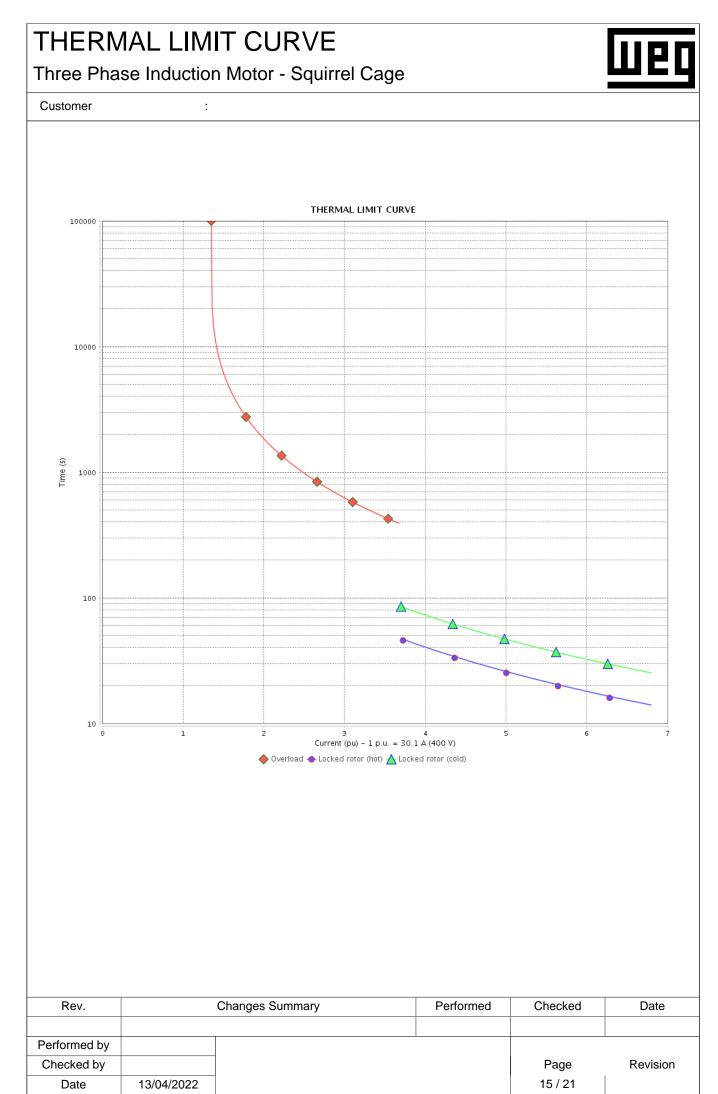


Customer

| Product line | | W40 NEMA Premium Efficie hree-Phase | ency | Product code : | 14786494 | | |
|---|-------------------------------------|--|---|----------------|--|----------|--|
| | | | | Catalog # : | 02512OT3E324TC-W40 | | |
| | | | | | | | |
| Performance | : 40 | 00 V 50 Hz 6P IE3 | | | | | |
| Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed | : 6. : 10 que : 22 Je : 29 | 0.1 A 8 07 ft.lb 29 % 90 % 85 rpm | Moment o Duty cycle Insulation Service fa Temperatu Design | class ctor | : 7.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | | |
| Heating constant | t | | | | | | |
| Cooling constant | | | | | | | |
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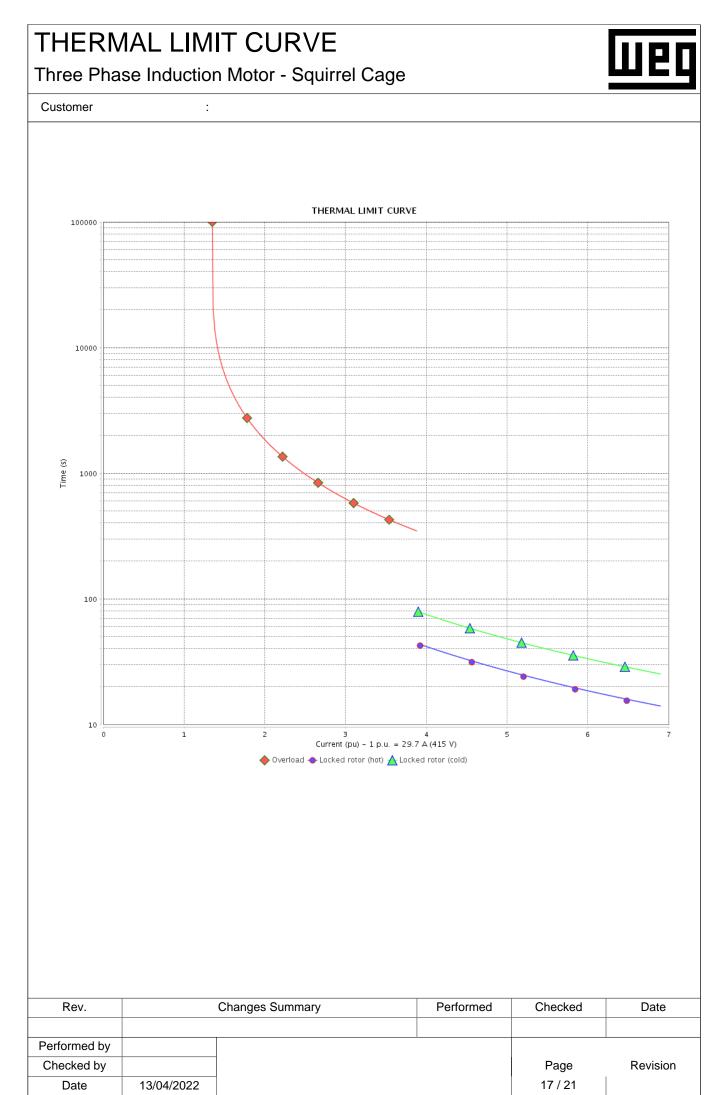


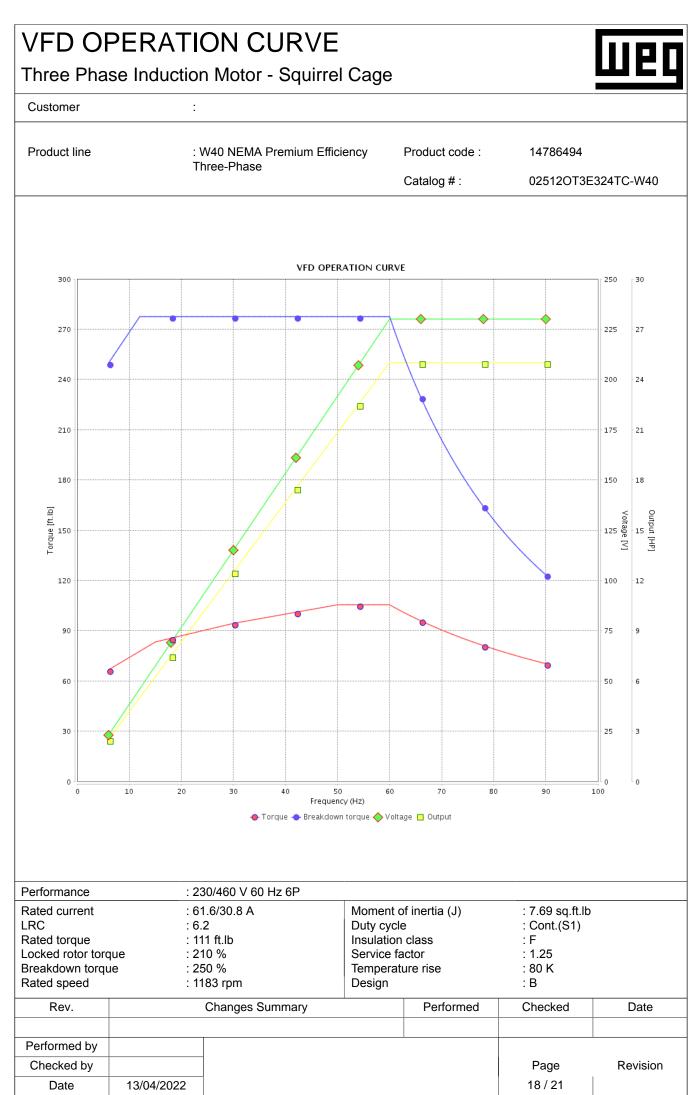
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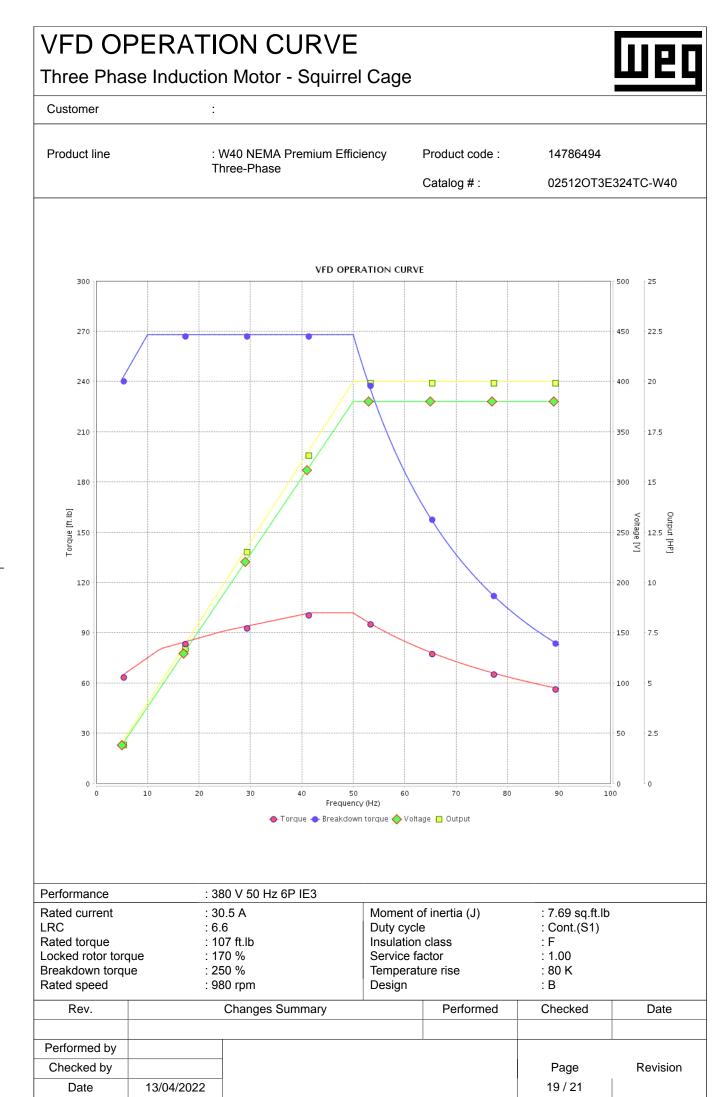
| Product line : W40 NEMA Premium Effic Three-Phase | | | | 14786494 | | | |
|---|---|-------------------|---|---------------|--|----------|--|
| | | | | Catalog # : | 02512OT3E324TC-W40 | | |
| | | | | | | | |
| Performance | : 47 | 15 V 50 Hz 6P IE3 | | | | | |
| Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed | : 29 : 6. : 10 gue : 2' Je : 3' | 9.7 A | Moment o Duty cycle Insulation Service fa Temperatu Design | class ctor | : 7.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | | |
| Heating constan | t | | | | | | |
| Cooling constant | | | | | | | |
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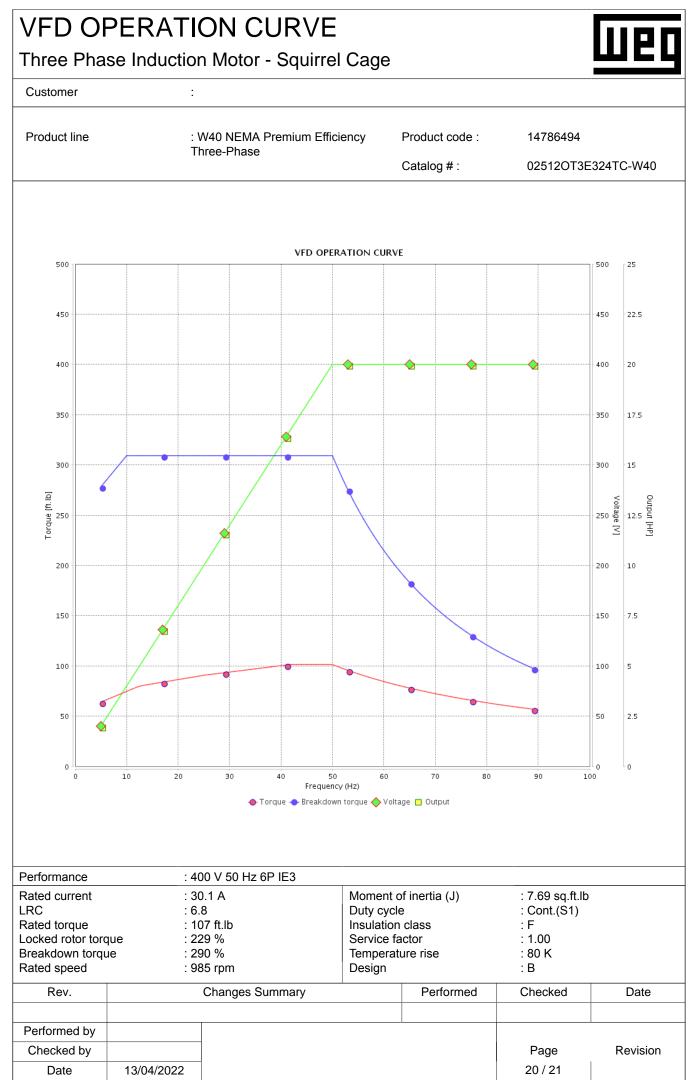
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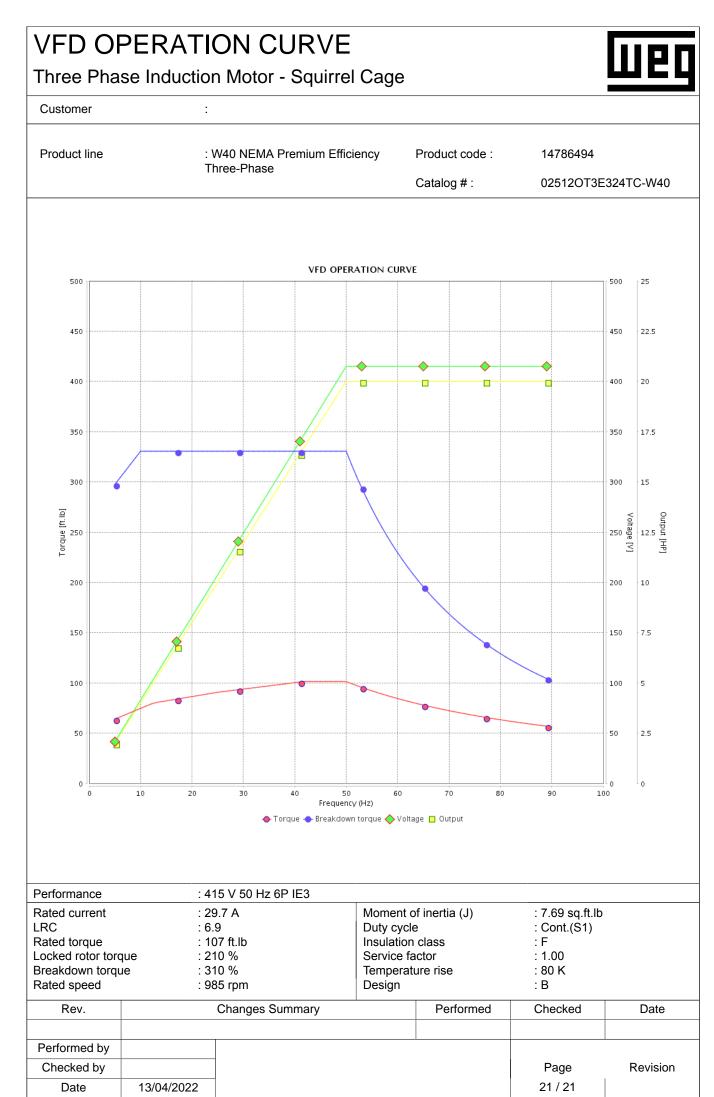
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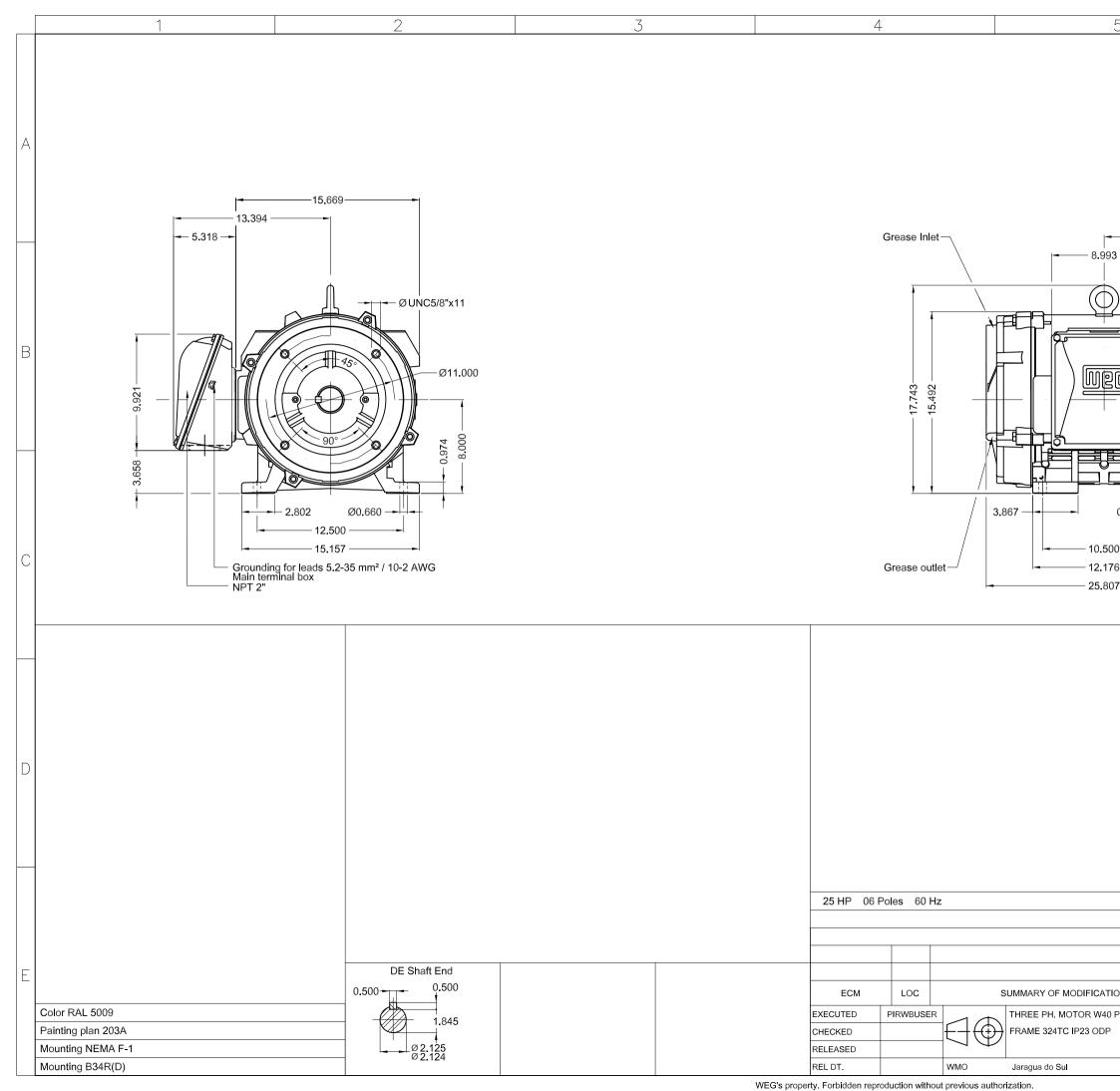












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