DATA SHEET

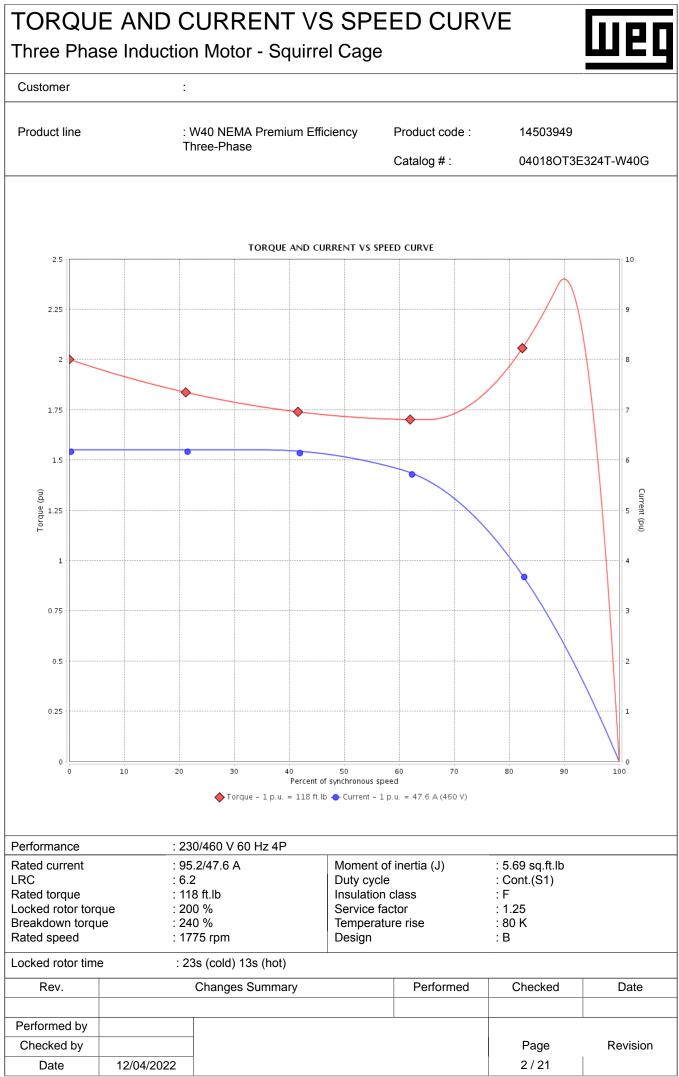
Three Phase Induction Motor - Squirrel Cage

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Customer

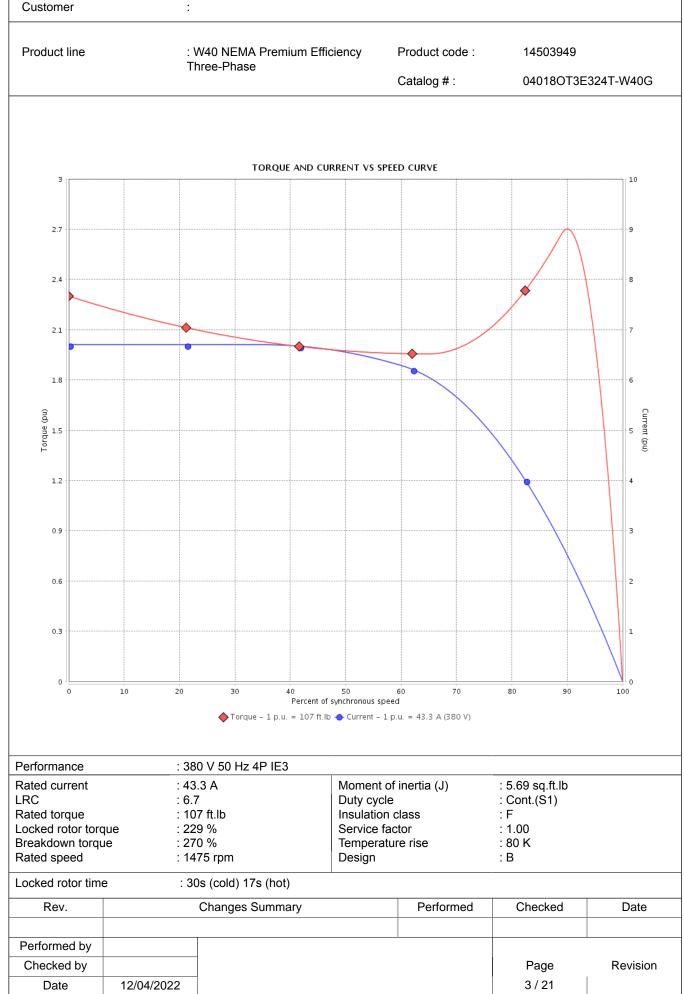
| Product line | | : W40 NEMA Premium Efficiency Three-Phase | | ncy Pr | oduct code : | 1450394 | 14503949 | |
|---|---------------|--|-------------------|-----------------------|----------------|-------------------|----------------------|--|
| | | 111166-511058 | | Ca | atalog # : | 040180 | T3E324T-W40G | |
| Frame | | : 324T | | Cooling m | ethod | : IC01 - (| ODP | |
| Insulation class | | : F | | Mounting | | : F-1 | | |
| Duty cycle | | : Cont.(S1) | | Rotation ¹ | | | CW and CCW) | |
| Ambient tempera | ature | : -20°C to +40°C | | Starting m | | : Direct (| On Line | |
| Altitude | | : 1000 m.a.s.l. | | Approx. w | | : 449 lb | | |
| Protection degree Design | e | : IP23 : B | | Moment of | f inertia (J) | : 5.69 sq | l.ft.lb | |
| Dutput [HP] | | 40 | | 30 | 3 | 0 | 30 | |
| Poles | | 4 | | | 4 | - | 4 | |
| requency [Hz] | | 60 | | 4 50 | 5 | 0 | 50 | |
| Rated voltage [V] | | 230/460 | | 380 | 40 | | 415 | |
| Rated current [A] | | 95.2/47.6 | | 43.3 | 42 | | 41.7 | |
| . R. Amperes [A] | | 590/295 | | 290 | 28 | | 313 | |
| RC [A] | | 6.2x(Code G) | 6.7 | 7x(Code H) | 6.7x(C | | 7.5x(Code J) | |
| lo load current [A |] | 37.0/18.5 | | 18.3 | 20 | | 22.1 | |
| Rated speed [RPN | - | 1775 | | 1475 | 14 | | 1480 | |
| Slip [%] | • | 1.39 | | 1.67 | 1.3 | | 1.33 | |
| Rated torque [ft.lb] | | 118 | | 107 | 10 | | 106 | |
| ocked rotor torqu | | 200 | | 229 | 26 | | 280 | |
| Breakdown torque | | 240 | | 270 | 30 | | 330 | |
| Service factor | | 1.25 | | 1.00 | 1.0 | | 1.00 | |
| emperature rise | | 80 K | 80 K | | 80 | | 80 K | |
| ocked rotor time | | 23s (cold) 13s (hot) | 30s (cold) 17s (h | | | | 25s (cold) 14s (hot) | |
| loise level ² | | 66.0 dB(A) | - (- | , - (| . () | | . , , | |
| | 25% | 93.5 | | 92.4 | 92 | 5 | 92.4 | |
| \Box fficiency (0/) | 50% | 93.6 | 92.6 | | 92 | 6 | 92.5 | |
| Efficiency (%) | 75% | 94.1 | 93.0 | | 93 | .0 | 93.0 | |
| | 100% | 94.1 | 93.0 | | 93 | .0 | 93.0 | |
| | 25% | 0.44 | | 0.42 | 0.3 | | 0.34 | |
| Dowor Costor | 50% | 0.70 | 0.68 | | 0.6 | 63 | 0.59 | |
| Power Factor | 75% | 0.80 | | 0.78 | 0.7 | 75 | 0.72 | |
| | 100% | 0.84 | | 0.83 | 3.0 | 31 | 0.79 | |
| - • • | | | tive end | Foundation | loads | | | |
| Bearing type | | : 6312 Z C3 621 | | | Max. traction | | | |
| Sealing | | | | | ression | | | |
| Lubric Star 19 | l | | | | | | | |
| Lubrication interv | | | 000 h | | | | | |
| Lubricant amoun | L | | | | | | | |
| Lubricant type | | | Mobil Polyrex EM | | | | | |
| Notes | | 15 SEA 121A | | | | | | |
| USABLE @208V | 105A SF 1.1 | 13 SFA 121A | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| This revision real: | aces and car | ncel the previous one, wl | hich | These are | average values | based on tests | s with sinusoidal | |
| must be eliminated. | | | | | | tipulated in NEMA | | |
| (1) Looking the m | | e shaft end. | | MG-1. | ,, .j | • | | |
| | | olerance of +3dB(A). | | | | | | |
| (3) Approximate v | veight subjed | t to changes after | | | | | | |
| manufacturing pro (4) At 100% of ful | ocess. | - | | | | | | |
| . , | 1000. | Objective O | | <u> </u> | Derfer | | | |
| Rev. | | Changes Summary | | | Performed | Checked | Date | |
| Performed by | | | | | | | | |
| - | | | | | | 5 | D · · · | |
| Checked by | | | | | | Page | Revision | |
| Date | 12/04/202 | | | | | 1 / 21 | | |
| The state | | isive property of WEG S/A | Description | | | | | |



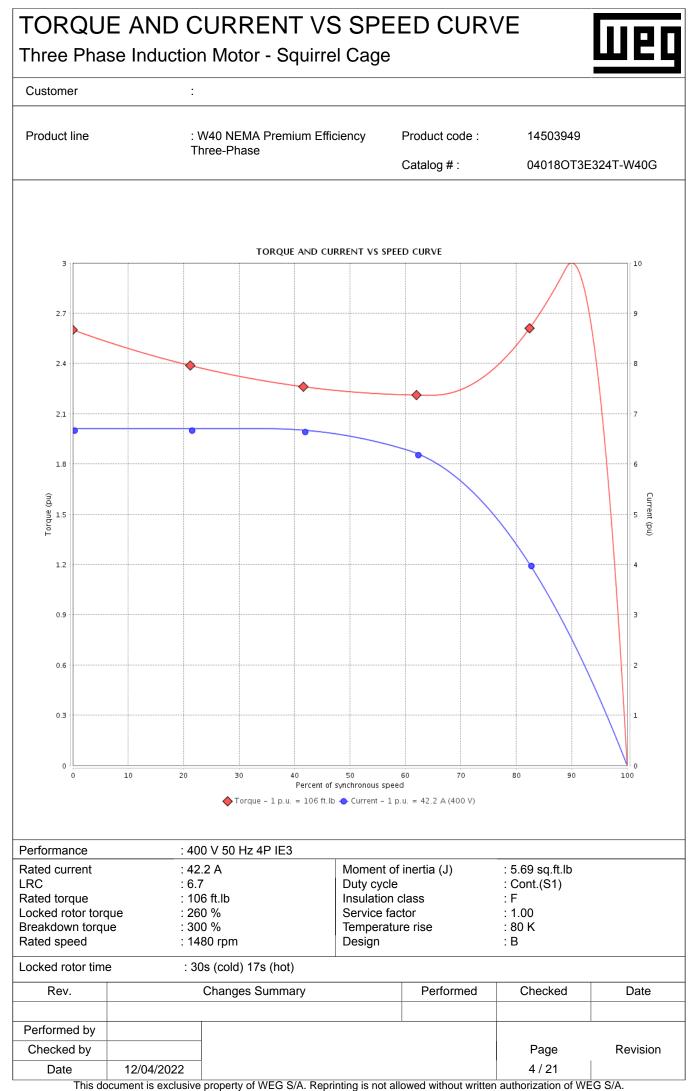
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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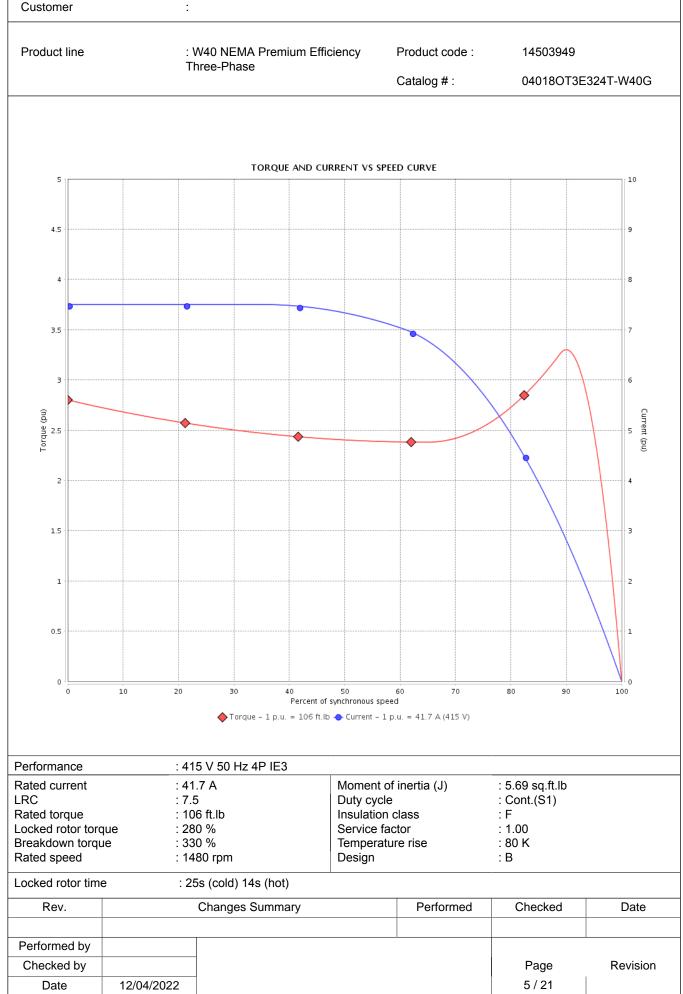


Subject to change without notice

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



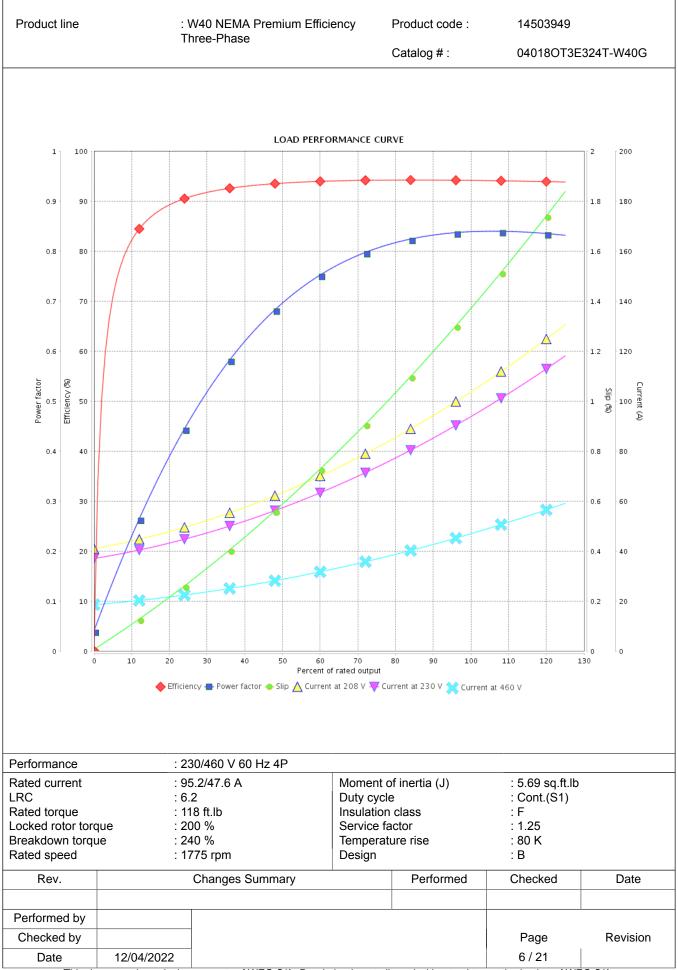
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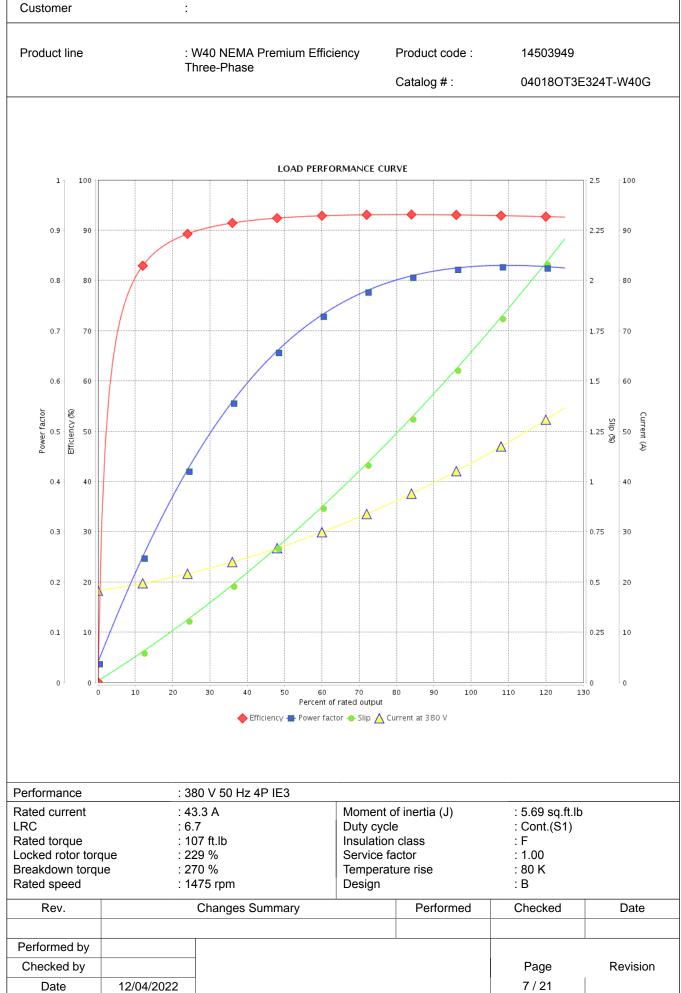


Customer



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Customer



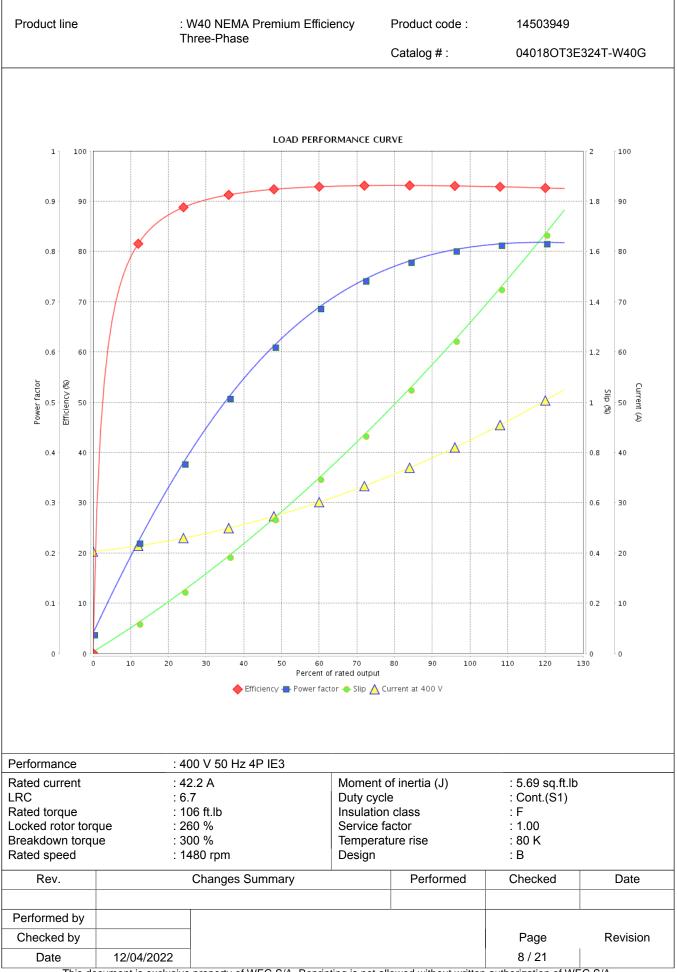
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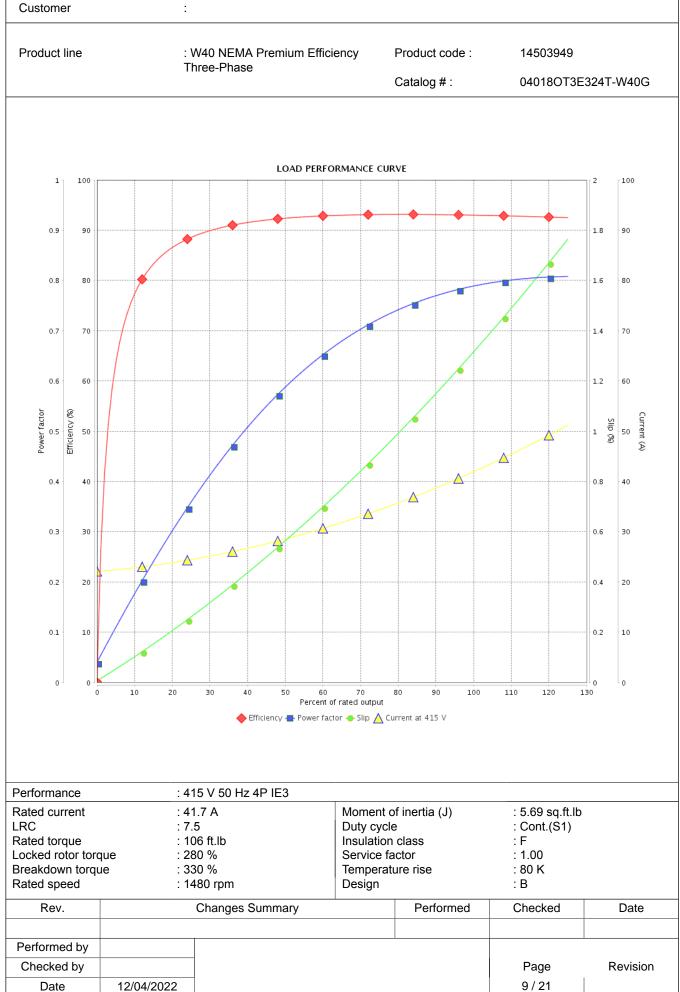


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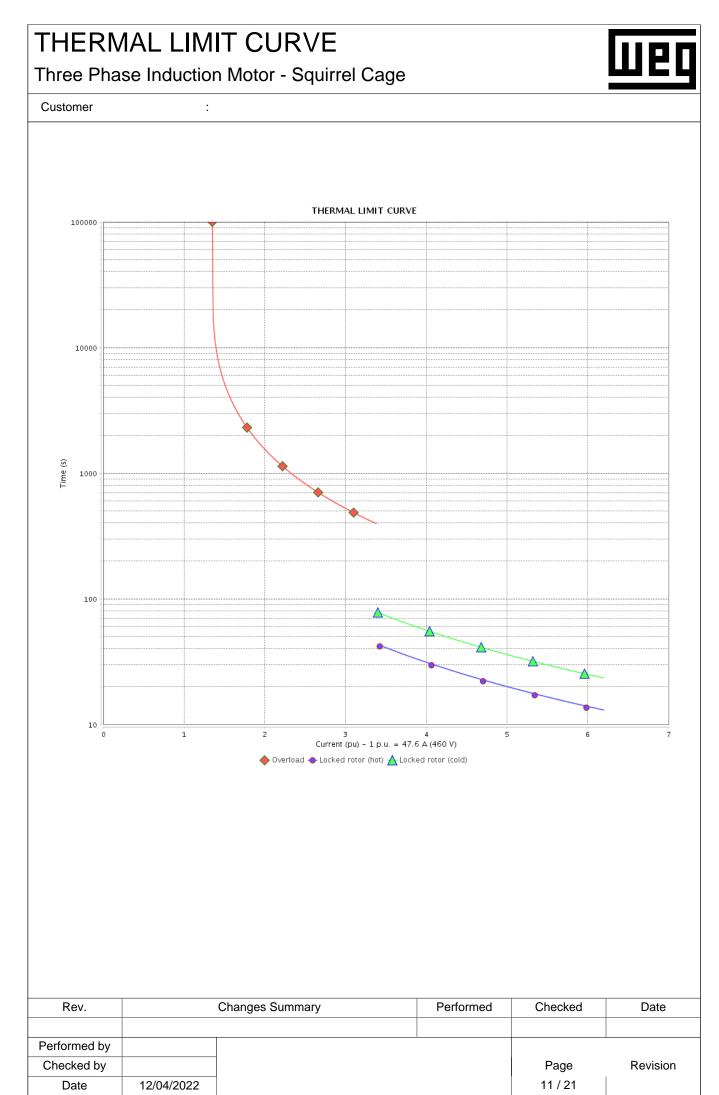
| THERMAL LIMIT CURVE | |
|---------------------|--|
|---------------------|--|

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Customer

| Product line | | : W40 NEMA Premium Efficiency Three-Phase | | Product code : | 14503949 04018OT3E324T-W40G | |
|--------------------------------------|------------|--|--------------------------|---------------------|--------------------------------|----------|
| | | | | Catalog # : | | |
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| Performance | | 230/460 V 60 Hz 4P | | | | |
| Rated current LRC | | 95.2/47.6 A 6.2 | Moment of Duty cycle | of inertia (J) e | : 5.69 sq.ft.lb : Cont.(S1) | |
| Rated torque | | 118 ft.lb 200 % | Insulation Service fa | class | : F : 1.25 | |
| Locked rotor toro Breakdown torqu | | 200 % 240 % | Temperat | | : 1.25 : 80 K | |
| Rated speed | : | 1775 rpm | Design | | : B | |
| Heating constan | | | | | | |
| Cooling constant Rev. | | Changes Summary | | Performed | Checked | Date |
| 1100. | | Unanges Summary | | renomeu | Checked | Dale |
| Performed by | <u> </u> | | | 1 | | |
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| Date | 12/04/2022 | | | | 10 / 21 | |

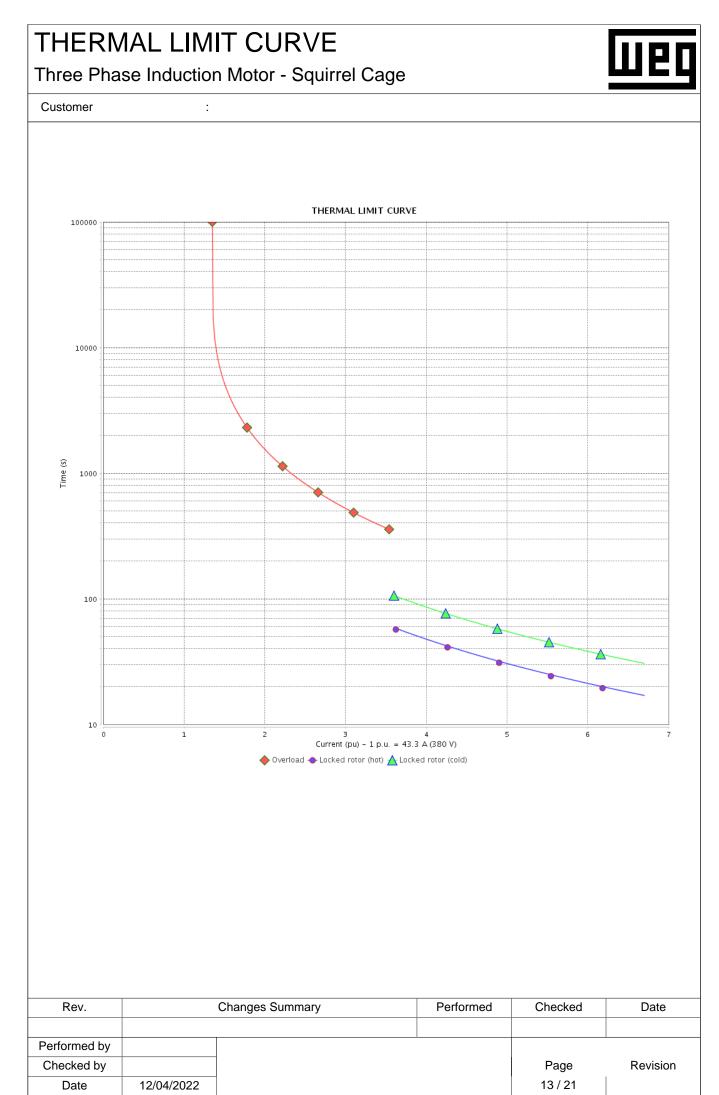


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Customer

| Product line | Three-Phase | | | | | |
|---|--|--|--|---------------|--|----------|
| | I | nree-Pnase | | Catalog # : | 04018OT3E3 | 24T-W40G |
| | | | | | | |
| Performance | | 80 V 50 Hz 4P IE3 | | | | |
| Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed | : 6. : 10 : 2: ie : 2 : 14 : 14 | 3.3 A .7 07 ft.lb 29 % 70 % 475 rpm | Moment of Duty cycle Insulation Service fa Temperate Design | class ctor | : 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
| Heating constant | | | | | | |
| Cooling constant Rev. | L | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 12/04/2022 | | | | 12 / 21 | |



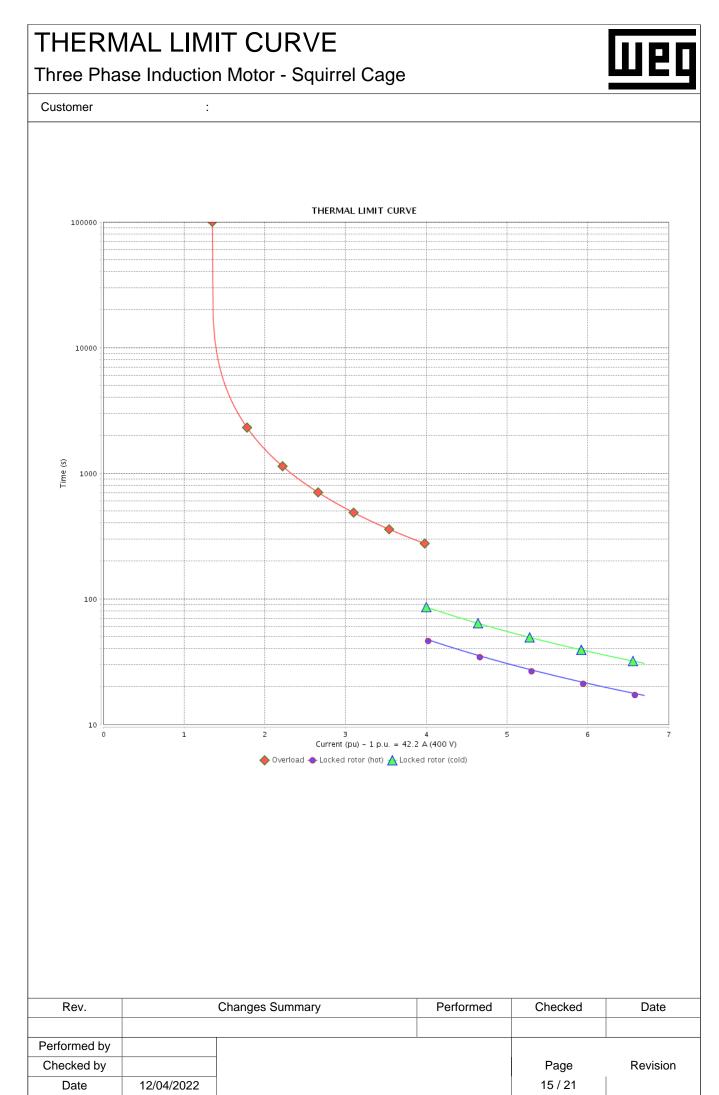
| THERMAL LIMIT CURVE | |
|---------------------|--|
|---------------------|--|

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Customer

| Product line | | : W40 NEMA Premium Efficiency Three-Phase | | Product code : | 14503949 | | |
|--------------------------------------|------------|--|-------------------------|--------------------|--------------------------------|-----------|--|
| | | Inree-Phase | | Catalog # : | 04018OT3E3 | 324T-W40G | |
| | | | | | | | |
| Performance | | 400 V 50 Hz 4P IE3 | Momente | finantia (1) | | | |
| Rated current LRC | : (| 42.2 A 5.7 | Duty cycle | f inertia (J) e | : 5.69 sq.ft.lb : Cont.(S1) | | |
| Rated torque | | 106 ft.lb | Insulation | | : F | | |
| Locked rotor torq Breakdown torqu | | 260 % 300 % | Service fa Temperati | | : 1.00 : 80 K | | |
| Rated speed | | 1480 rpm | Design | lie lise | : B | | |
| Heating constant | | | | | | | |
| Cooling constant | | | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date | |
| | | J, | | | - | | |
| Performed by | | | | | | | |
| Checked by | | - | | | Page | Revision | |
| Date | 12/04/2022 | _ | | | 14 / 21 | REVISION | |
| Date | 12/04/2022 | | | | 14/ZI | | |

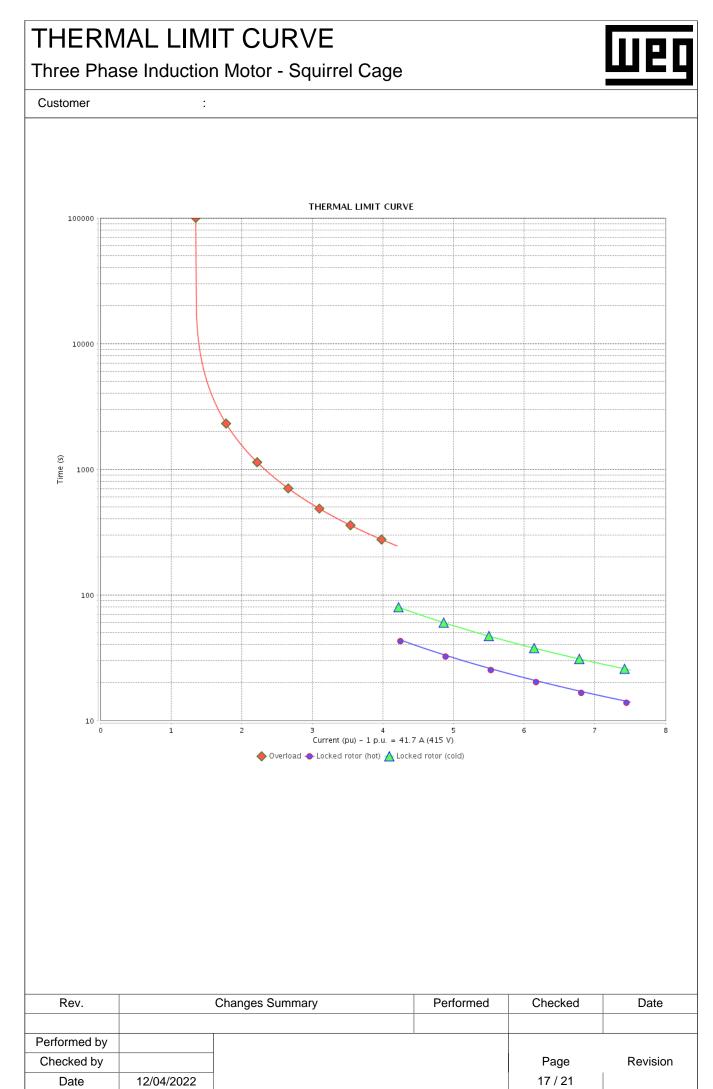


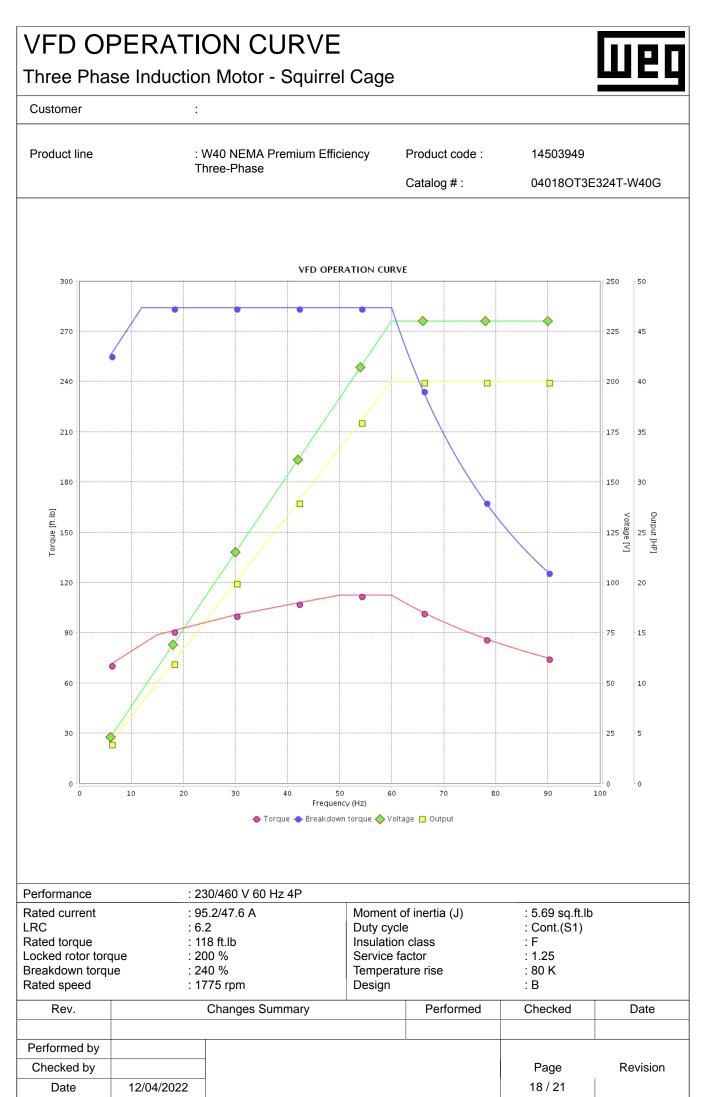
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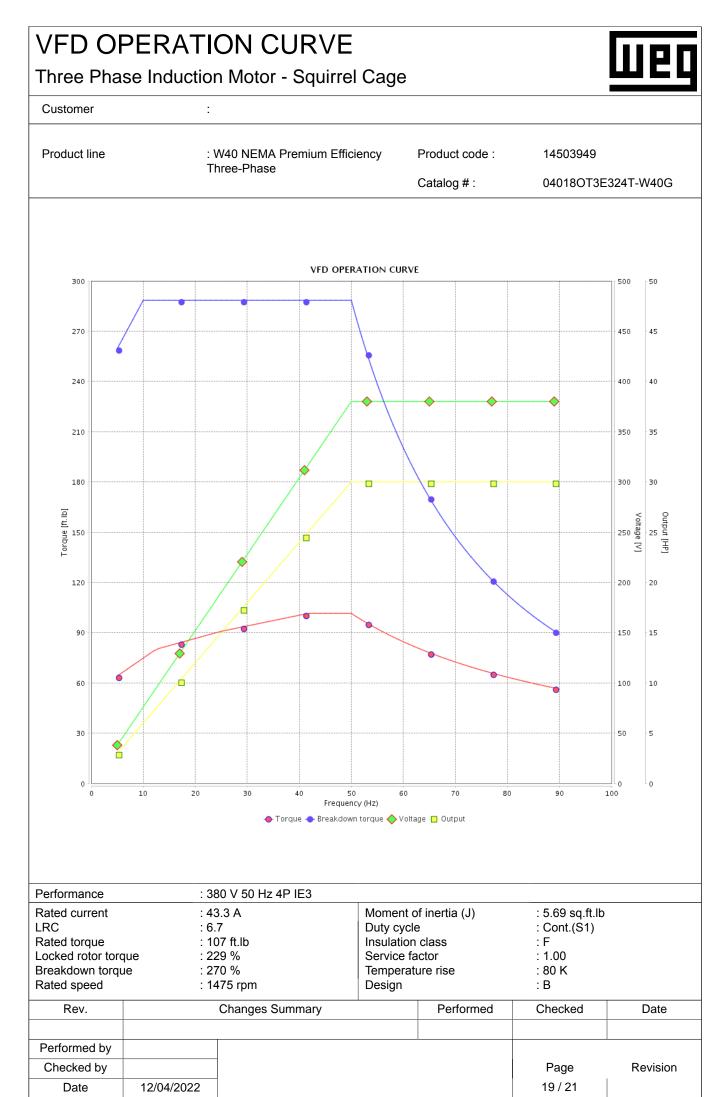


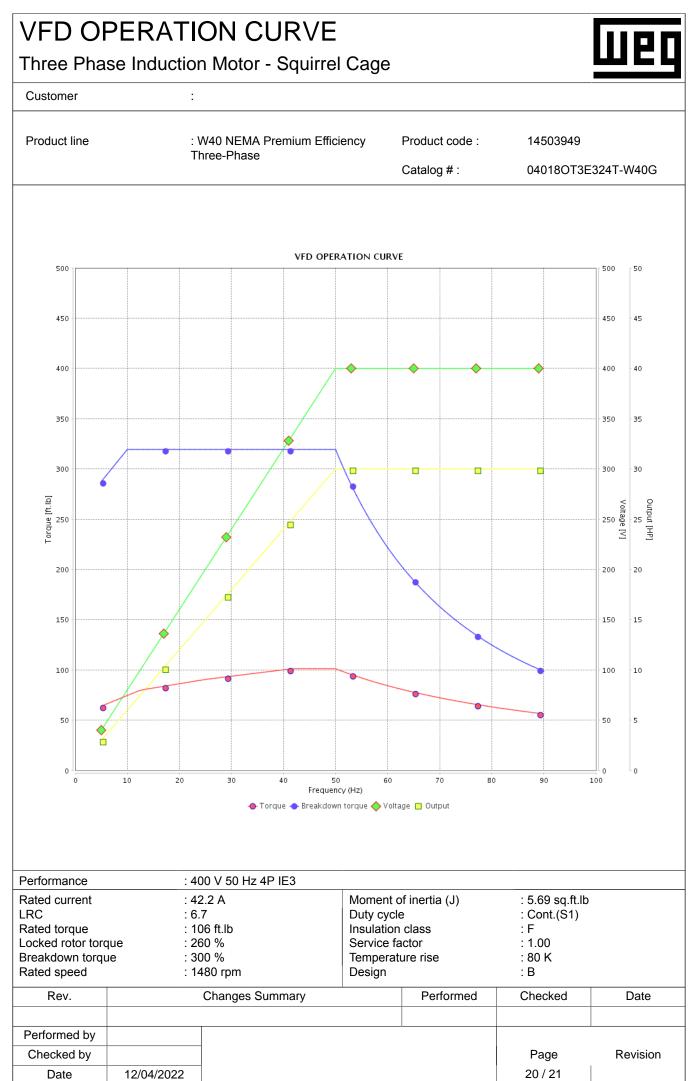
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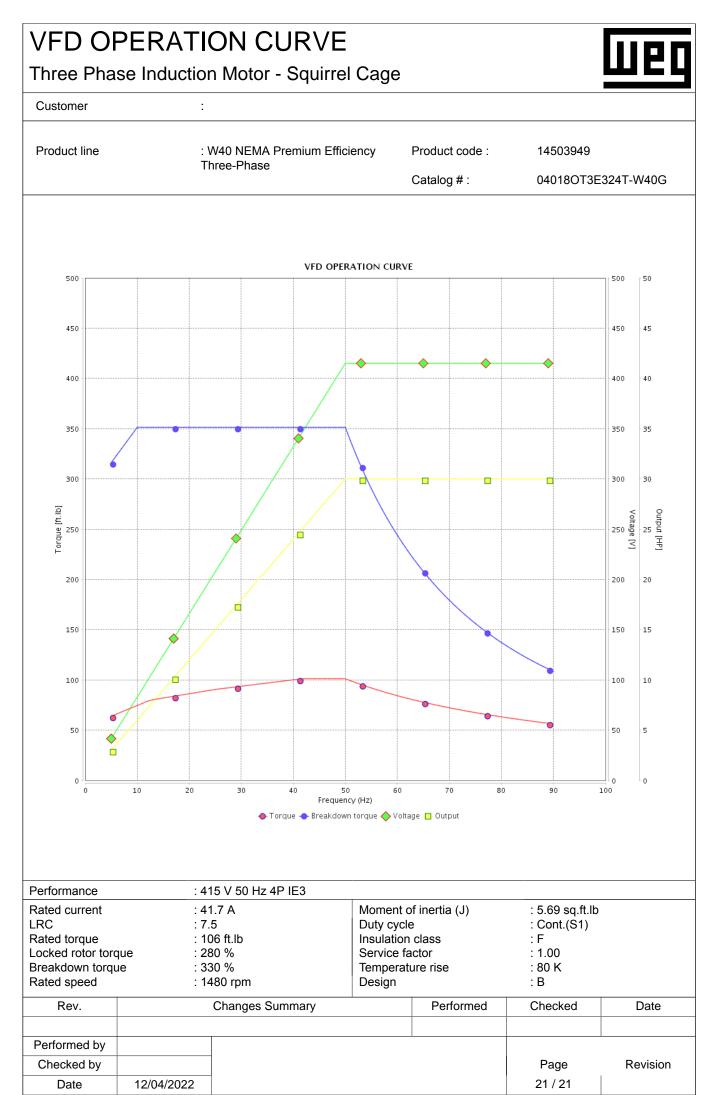
| Product line | | : W40 NEMA Premium Efficiency | | Product code : | 14503949 | |
|---|-----------------------------------|--|---|----------------|--|------------|
| | I | hree-Phase | | Catalog # : | 04018OT3E3 | 24T-W40G |
| | | | | | | |
| Performance | : 4 | 15 V 50 Hz 4P IE3 | | | ····· | |
| Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed | : 7 : 10 jue : 20 ie : 3 | 1.7 A .5 06 ft.lb 80 % 30 % 480 rpm | Moment o Duty cycle Insulation Service fa Temperatu Design | class ctor | : 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B | |
| Heating constant | | | | | | |
| Cooling constant | L | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
| Dorformed by | | | | | | |
| Performed by Checked by | | - | | | Paga | Revision |
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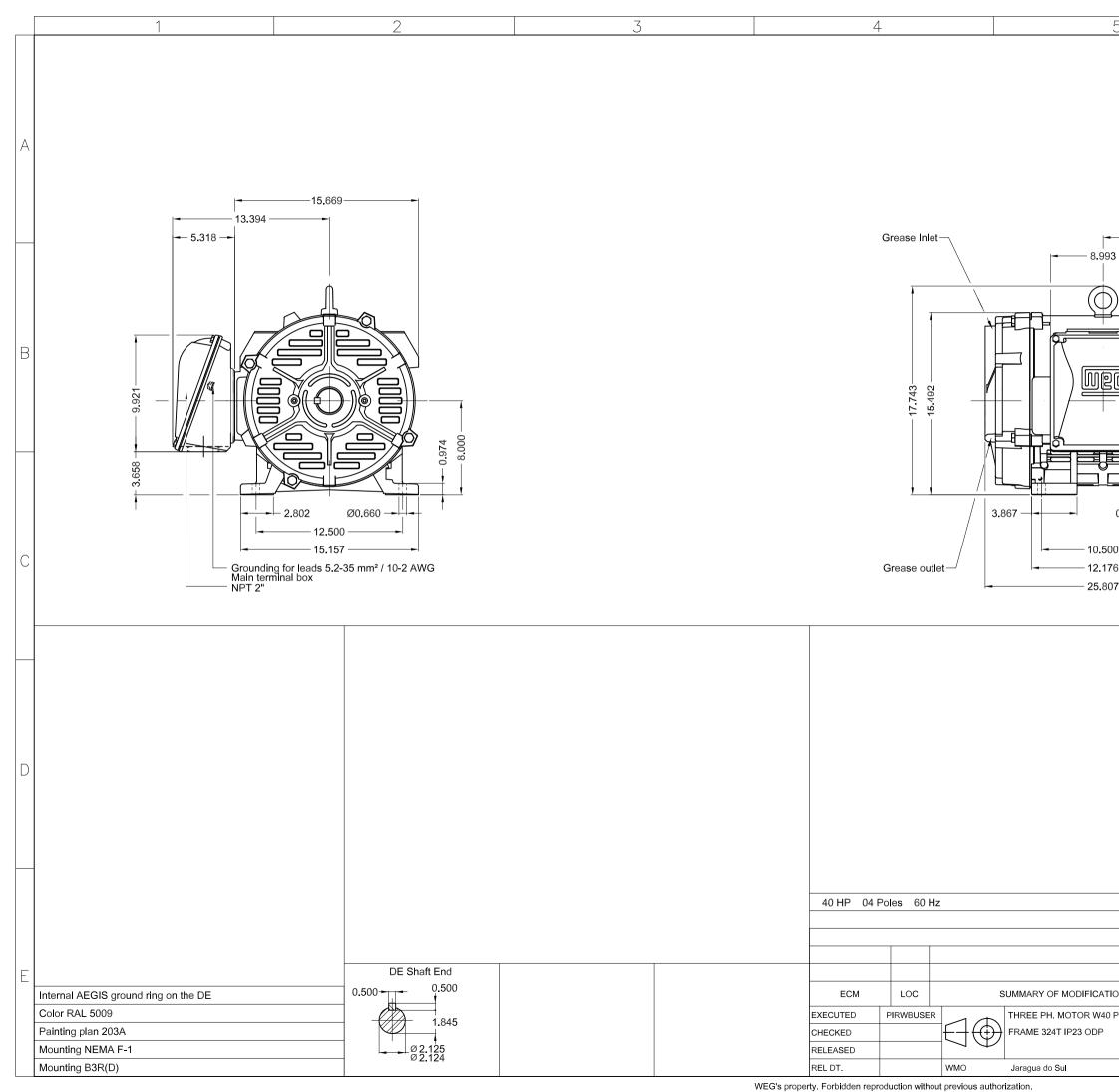












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|-------------------|----------|--------------|----------|------|----------------------|
| | | Grease Inlet | | | Dimensions in inches |
| | | | | | A |
| | | | | 1:8 | |
| | | | | | |
| | | | RELEASED | DATE | VER |
| ONS | EXECUTED | CHECKED | RELEASED | | |
| | EXECUTED | PREVI | | | |
| DNS PREM. EFF. | EXECUTED | | | Ше | XME A3 |

