DATA SHEET

Three Phase Induction Motor - Squirrel Cage

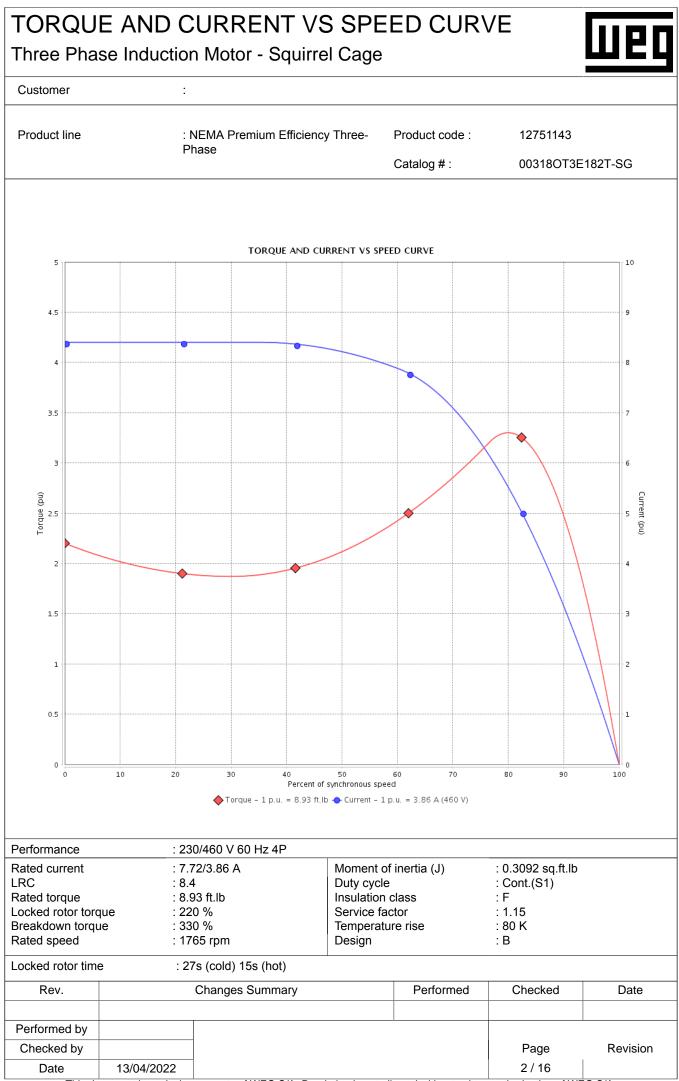
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Customer

| Product line | | : NEMA Premium Efficiency T Phase | | |
|---|---|---|------------------------------------|--|
| | | Catalog # : | 00318OT3E182T-SG | |
| Frame | | : 182/4T | Cooling method | : IC01 - ODP |
| Insulation class | | : F | Mounting | : F-1 |
| Duty cycle | | : Cont.(S1) | Rotation ¹ | : Both (CW and CCW) |
| Ambient temperature | | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | | : 1000 m.a.s.l. | Approx. weight ³ | : 67.8 lb |
| Design | | : B | Moment of inertia (J) | : 0.3092 sq.ft.lb |
| Output [HP] | | 3 | 3 | 3 |
| Poles 4 | | | 4 | 4 |
| Frequency [Hz] | | | 50 | |
| Rated voltage [V] | | 230/460 | 190/380 | 220/415 |
| Rated current [A] | | 7.72/3.86 | 9.08/4.54 | 8.41/4.46 |
| L. R. Amperes [A] | | 64.8/32.4 | 58.1/29.1 | 59.7/31.7 |
| LRC [A] | | 8.4x(Code K) | 6.4x(Code H) | 7.1x(Code J) |
| No load current [A | 1 | 4.14/2.07 | 4.08/2.04 | 4.20/2.22 |
| Rated speed [RPN | - | 1765 | 1460 | 1465 |
| Slip [%] | | 1.94 | 2.67 | 2.33 |
| Rated torque [ft.lb | 1 | 8.93 | 10.8 | 10.8 |
| Locked rotor torqu | | 220 | 150 | 170 |
| Breakdown torque | | 330 | 240 | 280 |
| Service factor | 1 | 1.15 | 1.15 | 1.15 |
| Temperature rise | | 80 K | 80 K | 80 K |
| Locked rotor time | | 27s (cold) 15s (hot) | Os (cold) Os (hot) | 0s (cold) 0s (hot) |
| Noise level ² | | 55.0 dB(A) | 53.0 dB(A) | 53.0 dB(A) |
| | 25% | 86.4 | 85.6 | 88.0 |
| | 50% | 87.5 | 86.0 | 87.3 |
| Efficiency (%) | 75% | 88.5 | 86.5 | 87.9 |
| | 100% | 89.5 | 86.7 | 86.9 |
| | 25% | 0.35 | 0.42 | 0.37 |
| | 50% | 0.60 | 0.68 | 0.63 |
| Power Factor | 75% | 0.00 | 0.79 | 0.76 |
| | 100% | 0.80 | 0.85 | 0.82 |
| | 10070 | Drive end Non drive end | Foundation loads | 0.02 |
| Bearing type | | : 6206 ZZ 6205 ZZ | Max. traction | . 150 lb |
| | | : Without Without | | : 158 lb : 226 lb |
| Sealing | | Bearing Seal Bearing Seal | Max. compression | . 220 10 |
| Lubrication interv | | · _ | | |
| Lubricant amour | | · · · | | |
| Lubricant type | | : Mobil Polyrex EM | | |
| <i>,</i> , | | | | |
| Notes USABLE @208V | ' 8.54A SF 1. | 00 SFA 8.54A | | |
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| must be eliminate (1) Looking the m (2) Measured at 1 | ed. notor from the 1m and with t weight subjec ocess. | ncel the previous one, which e shaft end. olerance of +3dB(A). et to changes after | | based on tests with sinusoidal ne tolerances stipulated in NEMA |
| must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro- | ed. notor from the 1m and with t weight subjec ocess. | e shaft end. olerance of +3dB(A). et to changes after | power supply, subject to th | |
| must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate manufacturing pr (4) At 100% of ful | ed. notor from the 1m and with t weight subjec ocess. | shaft end. olerance of +3dB(A). | power supply, subject to the MG-1. | ne tolerances stipulated in NEMA |
| must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful | ed. notor from the 1m and with t weight subjec ocess. | e shaft end. olerance of +3dB(A). et to changes after | power supply, subject to the MG-1. | ne tolerances stipulated in NEMA |
| must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by | ed. notor from the 1m and with t weight subjec ocess. | e shaft end. olerance of +3dB(A). et to changes after | power supply, subject to the MG-1. | ne tolerances stipulated in NEMA |
| must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pr (4) At 100% of ful Rev. | ed. notor from the 1m and with t weight subjec ocess. | e shaft end. olerance of +3dB(A). It to changes after Changes Summary | power supply, subject to the MG-1. | ne tolerances stipulated in NEMA |

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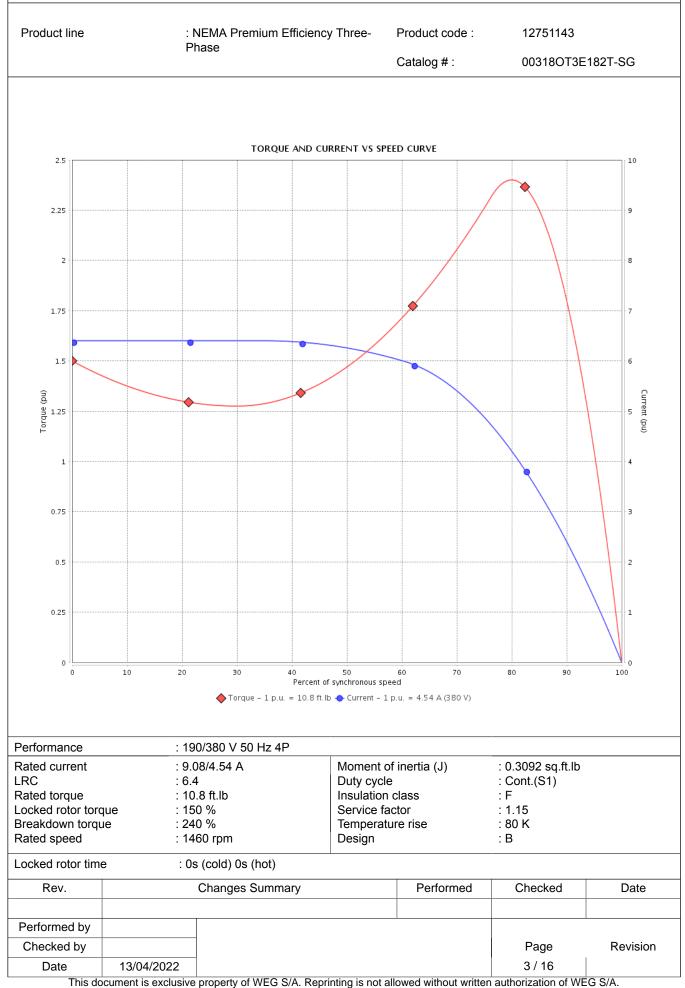
TORQUE AND CURRENT VS SPEED CURVE

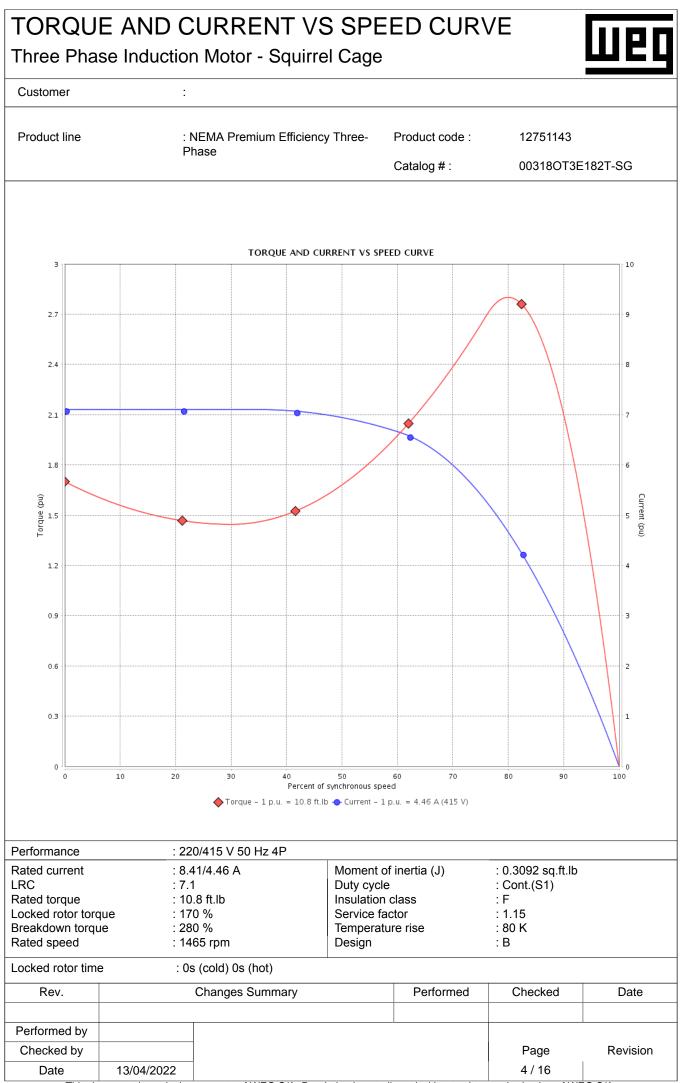
Three Phase Induction Motor - Squirrel Cage

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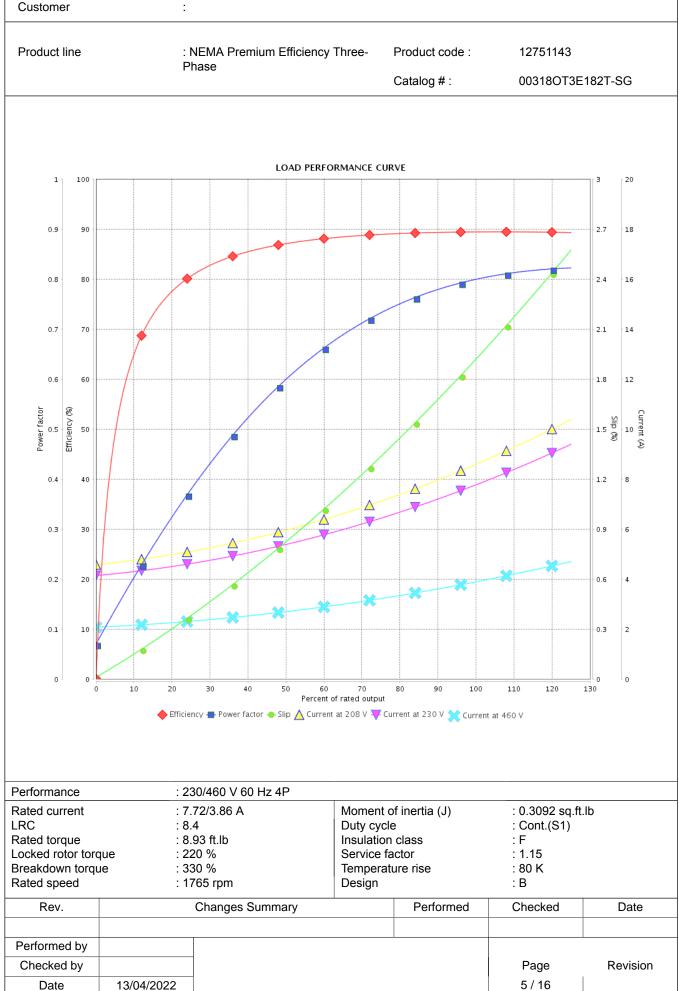




LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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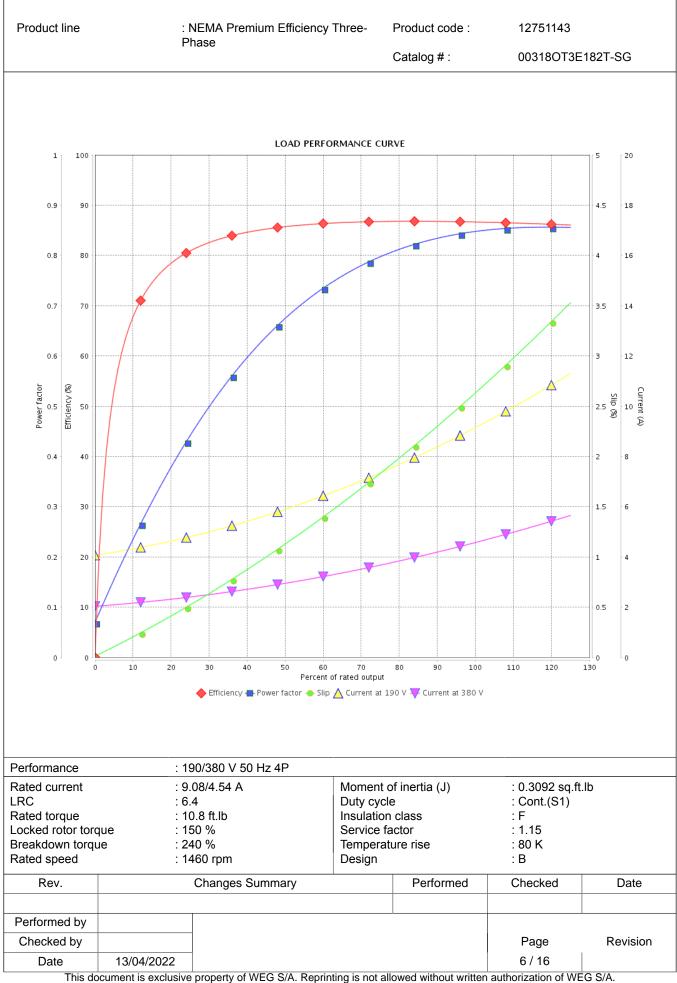
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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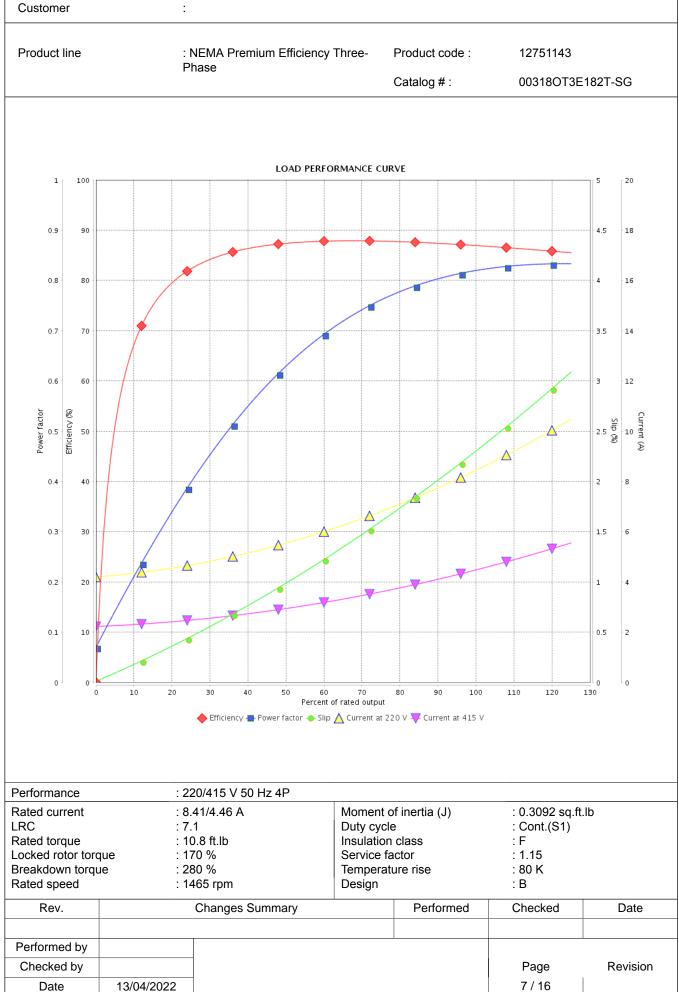
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LOAD PERFORMANCE CURVE

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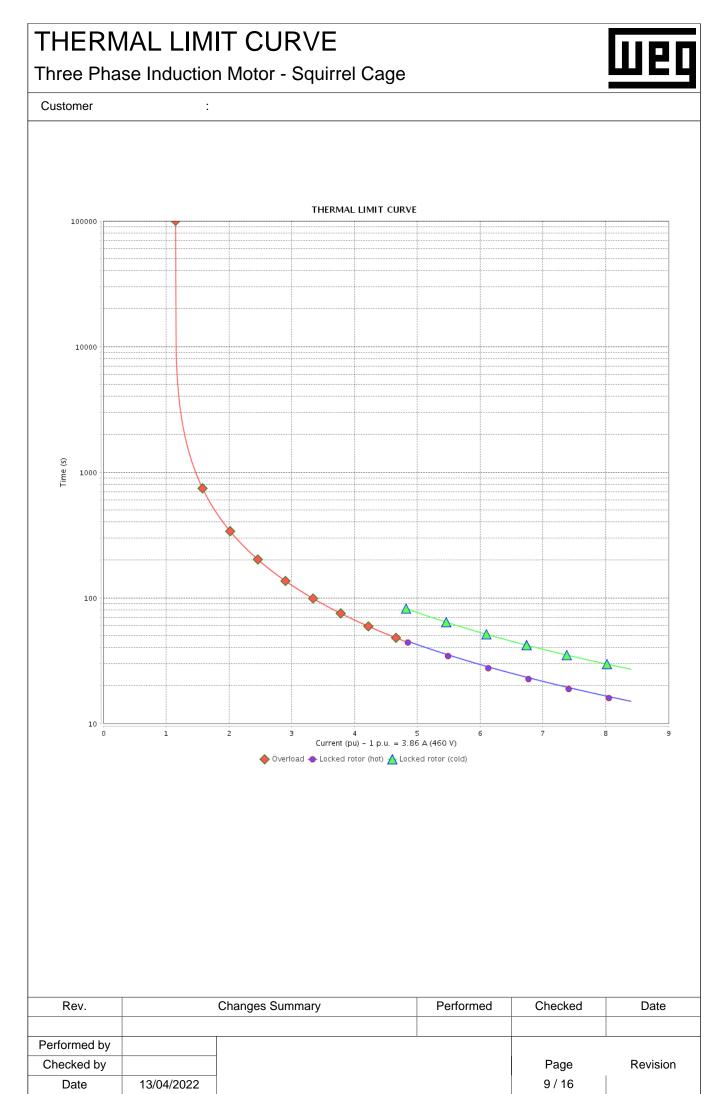
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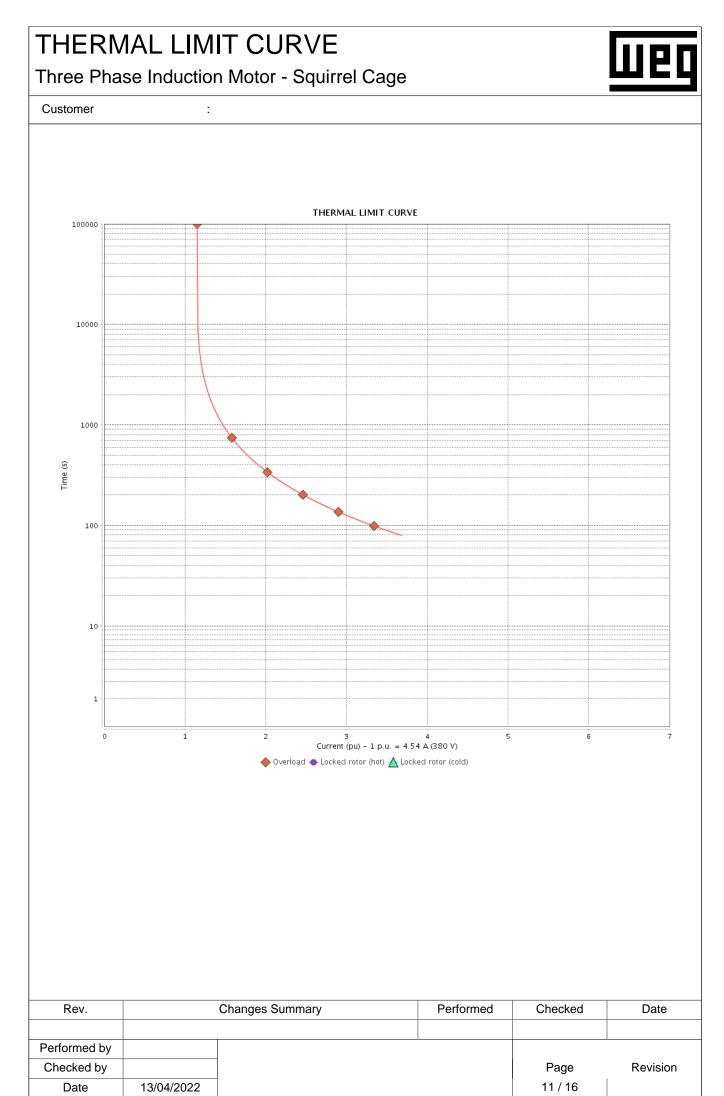
| THERMAL LI | MIT CURVE | | Шер |
|-------------------|---|----------------|------------------|
| Three Phase Induc | tion Motor - Squirrel Cage |) | шсч |
| Customer | : | | |
| Product line | : NEMA Premium Efficiency Three- Phase | Product code : | 12751143 |
| | | Catalog # : | 00318OT3E182T-SG |
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| Performance | | : 230/460 V 60 Hz 4P | | | | |
|---|------------------|--|---|----------------------|---------------------|----------|
| Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed | que | : 7.72/3.86 A : 8.4 : 8.93 ft.lb : 220 % : 330 % : 1765 rpm | Moment of Duty cycle Insulation Service fa Temperat Design | .lb | | |
| Heating constant | | | | | | |
| Rev. | | Changes Summary | I | Performed | Checked | Date |
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| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 13/04/2022 | 2 | | | 8 / 16 | |
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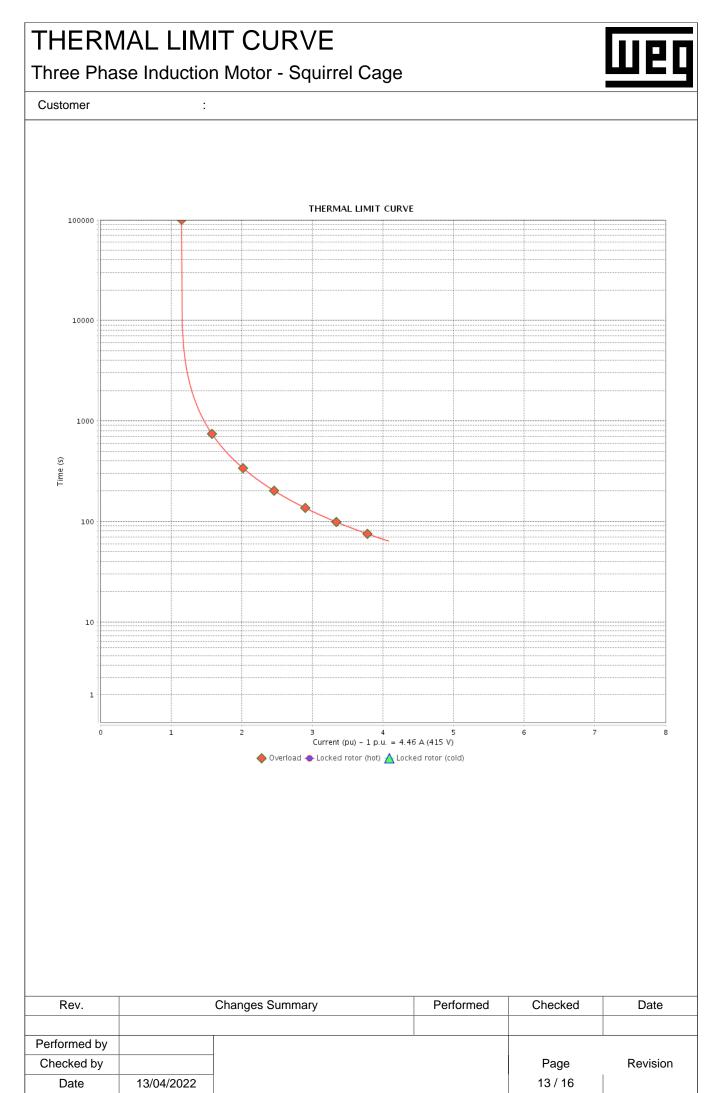
| THERMAL L | IMIT CURVE | | Шед |
|-------------------|---|----------------|------------------|
| Three Phase Induc | ction Motor - Squirrel Cage |) | шеч |
| Customer | : | | |
| Product line | : NEMA Premium Efficiency Three- Phase | Product code : | 12751143 |
| | Flidse | Catalog # : | 00318OT3E182T-SG |
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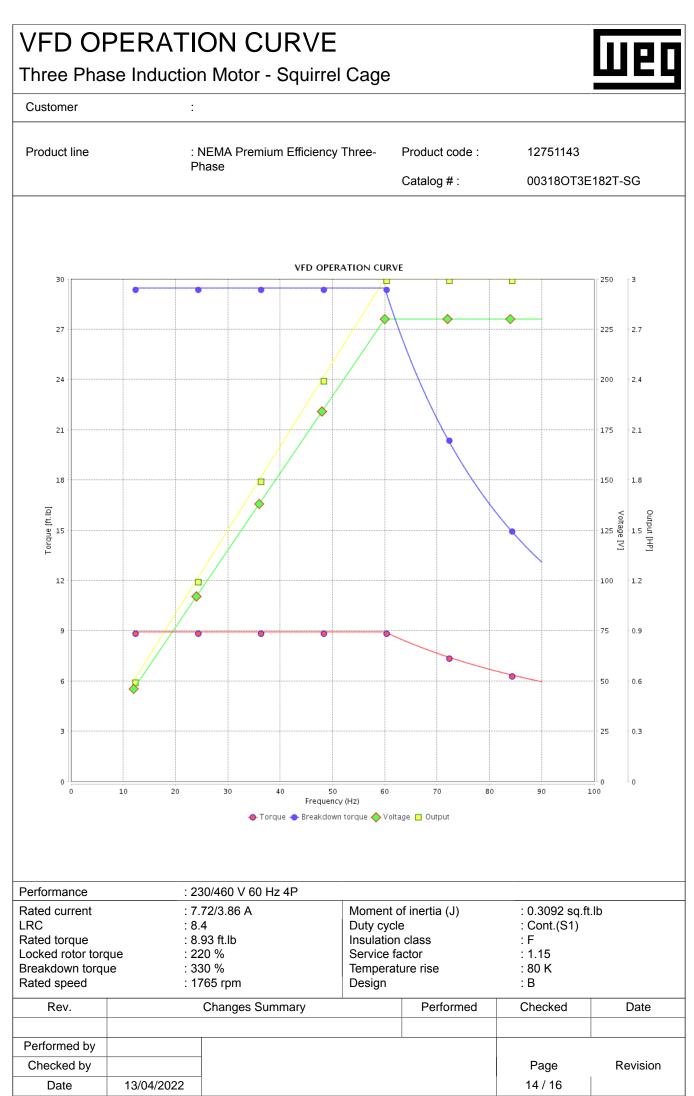
| Performance | : 19 | 90/380 V 50 Hz 4P | | | | |
|--|------------|---|---|-----------|---------|----------|
| Rated current: 9.08/4.54 ALRC: 6.4Rated torque: 10.8 ft.lbLocked rotor torque: 150 %Breakdown torque: 240 %Rated speed: 1460 rpm | | Moment of inertia (J): 0.3092 sq.ft.lbDuty cycle: Cont.(S1)Insulation class: FService factor: 1.15Temperature rise: 80 KDesign: B | | | | |
| Heating constan Cooling constan | | | | | | |
| Rev. | | Changes Summary | , | Performed | Checked | Date |
| | | | | | | |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 13/04/2022 | | | | 10 / 16 | |



| THERMAL L | IMIT CURVE | | Шед |
|------------------|----------------------------------|----------------|------------------|
| Three Phase Indu | ction Motor - Squirrel Cage | ; | |
| Customer | : | | |
| Product line | : NEMA Premium Efficiency Three- | Product code : | 12751143 |
| | Phase | Catalog # : | 00318OT3E182T-SG |
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| Performance | : 2 | 20/415 V 50 Hz 4P | | | | |
|--|------------|---|--|-----------|---------|----------|
| Rated current: 8.41/4.46 ALRC: 7.1Rated torque: 10.8 ft.lbLocked rotor torque: 170 %Breakdown torque: 280 %Rated speed: 1465 rpm | | Moment of inertia (J): 0.3092 sq.ft.lbDuty cycle: Cont.(S1)Insulation class: FService factor: 1.15Temperature rise: 80 KDesign: B | | | | |
| Heating constant | | | | | | |
| Cooling constant | t | | | | | |
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| Date | 13/04/2022 | | | | 12 / 16 | |



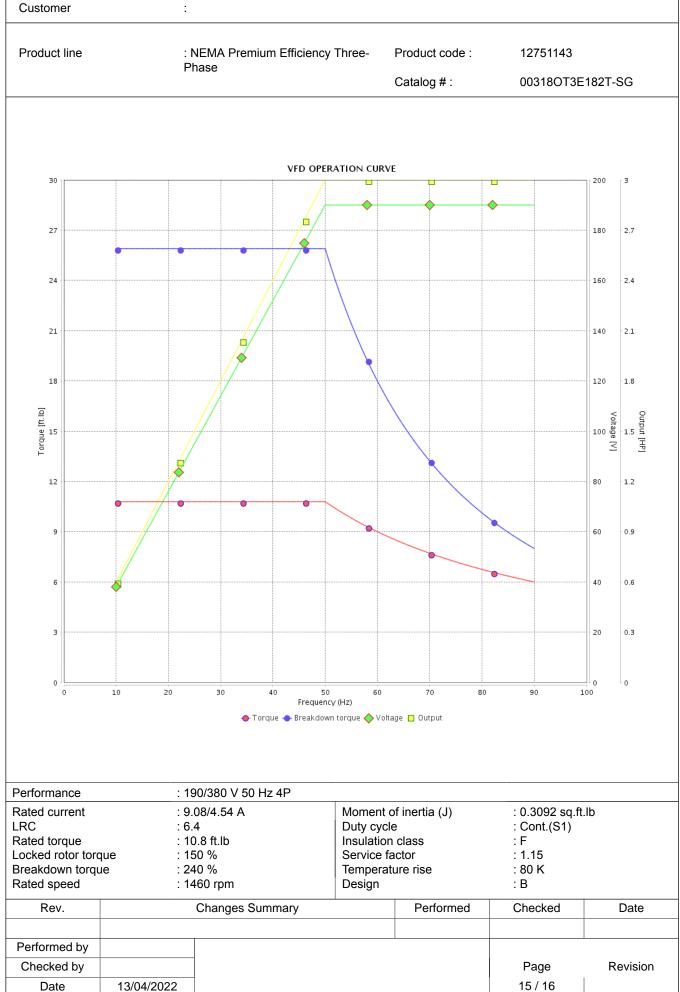


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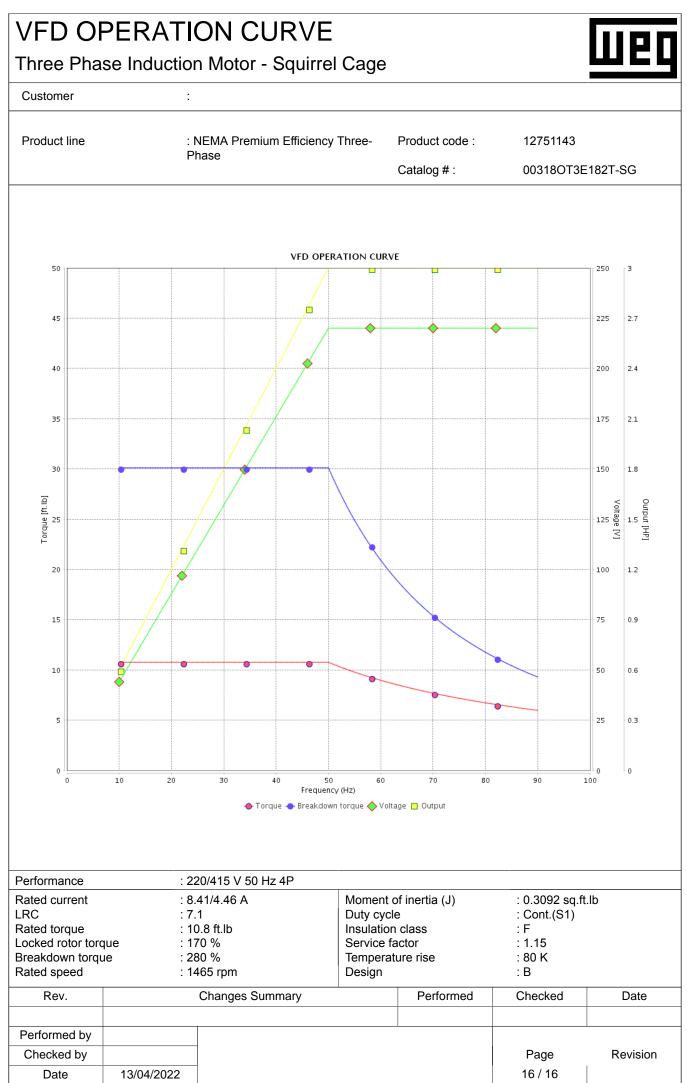
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

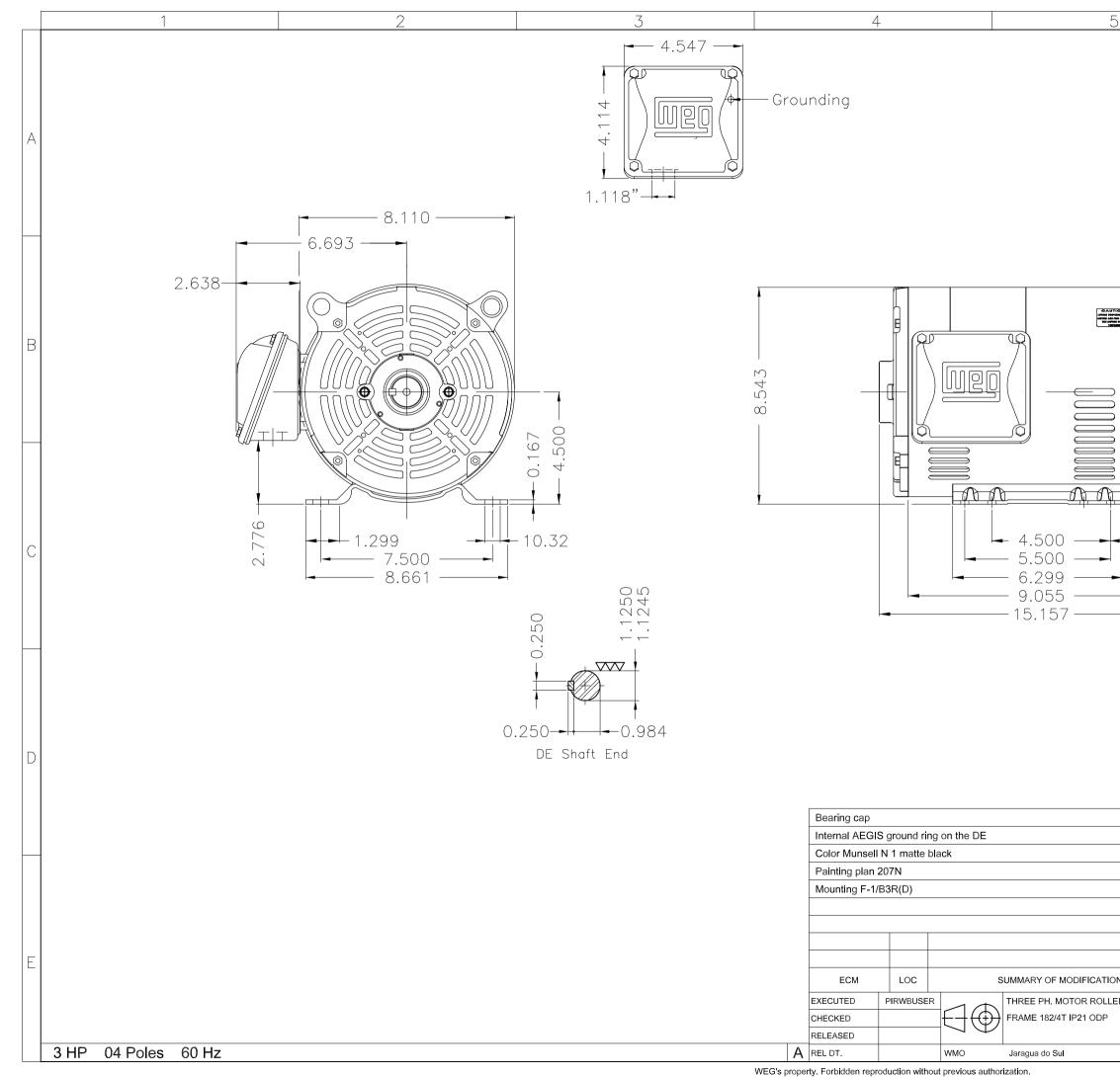
Customer



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|-------------------|---------------|---------|----------|------|----------------------|
| | | - 2.750 | | | Dimensions in inches |
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| IONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
| LED STEEL PREM. E | FF. | PREVI | EW | | |
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| Produc | t Engineering | SHEET | 1 / 1 | | XME |
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| Matrix Internet Matrix Internet Matrix Internet Matrix 12751143 CC029A COUR USTED Matrix 12771143 CC029A COUR USTED Matrix 12771 COUR USTED Not 22 Matrix 12761 Not 22 Not 22 Matrix 12761 Not 22 Not 1755 Matrix 12771 Not 27 Not 1755 Matrix 12771 Not 177 Not 177 Matrix 1277 Not 177 Not 177 | MAT: 172050143 CO29A C C C C C C C C C C C C C C C C C C C | DEL 003180T3E182T-SG APR2022 S/N: | 3 Hz 60 HP 3.0 182/4T KW 2.2 | CONT. | 1000 m.a.s.l A | L F AT 80K | 40°C DES B PF | USABLE @ 208V 8.54A NPM 1765 SF1.00 NOM ERA 89.5% | ALTERNATE RATING: 3.0HP 50Hz 190-220/380-415V SF1.15 9.08.17/4.54-4.33A 1460RPM EFF 88.7% (IE3) IEC 60034-1 | Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT | 6206- | Mathematical Sector Se |
|--|--|--------------------------------------|---------------------------------|-------|----------------|------------|---------------|--|--|--|-------|---|
|--|--|--------------------------------------|---------------------------------|-------|----------------|------------|---------------|--|--|--|-------|---|