DATA SHEET

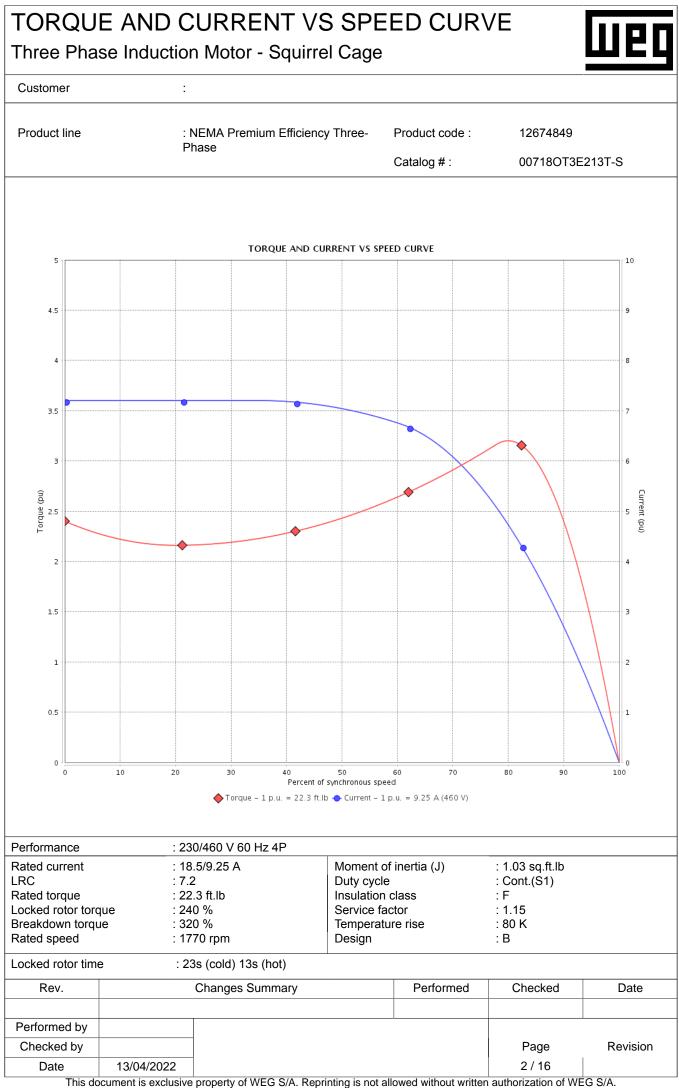
Three Phase Induction Motor - Squirrel Cage

:



Customer

| | Product line | | | hree- F | roduct code : | 12674849 | | |
|---|---|---|------------------|-----------------------------|---------------------|---|------------------|--|
| | | Phase | | C | atalog # : | 00718OT3E | 213T-S | |
| Frame | | : 213/5T | | Cooling r | nethod | : IC01 - OD | P | |
| Insulation class | | : F | | Mounting | | : F-1 | | |
| Duty cycle | | : Cont.(S1) | | | | : Both (CW and CCW) | | |
| Ambient temperature | | | : -20°C to +40°C | | nethod | | : Direct On Line | |
| Altitude | | : 1000 m.a.s.l. | | Approx. weight ³ | | : 117 lb | | |
| Design | | : B | | | of inertia (J) | : 1.03 sq.ft.l | b | |
| Output [HP] | | 7.5 | | - | 7.5 | | 7.5 | |
| Poles | | 4 | | | 4 | | 4 | |
| Frequency [Hz] | | 60 | | | 50 | | 50 | |
| Rated voltage [V] | | 230/46 | 60 | | 190/380 | 22 | 20/415 | |
| Rated current [A] | | 18.5/9. | 25 | | 22.2/11.1 | 20 | .0/10.6 | |
| L. R. Amperes [A] | | 133/66 | | | 129/64.4 | | 30/68.9 | |
| LRC [A] | | 7.2x(Coc | | 5 | 8x(Code G) | | (Code H) | |
| No load current [A | 1 | 8.79/4. | | | 8.64/4.32 | | 38/4.71 | |
| Rated speed [RPN | | 1770 | | | 1455 | | 1460 | |
| Slip [%] | | 1.67 | | | 3.00 | | 2.67 | |
| Rated torque [ft.lb] | 1 | 22.3 | | | 27.1 | | 27.0 | |
| Locked rotor torqu | | 240 | | | 170 | | 190 | |
| Breakdown torque | | 320 | | | 229 | | 250 | |
| Service factor | [,_] | 1.15 | | | 1.15 | | 1.15 | |
| Temperature rise | | 80 K | | | 80 K | | 80 K | |
| Locked rotor time | | 23s (cold) 1 | | 0c / | cold) 0s (hot) | | ld) 0s (hot) | |
| Noise level ² | | 238 (COId) T 59.0 dB | | | 6.0 dB(A) | | 0 dB(A) | |
| | 25% | 59.0 dB 88.6 | • • | : | 90.4 | | 0 dB(A) 89.6 | |
| | | | | | | | | |
| Efficiency (%) | 50% | | 89.5 | | 88.9 | | 88.6 | |
| | 75% | | 90.2 | | 88.5 | | 88.7 | |
| | 100% | 91.0 | | | 86.7 | | 87.4 | |
| | 25% | | 0.39 | | 0.46 | | 0.42 | |
| Power Factor | 50% | | 0.65 0.77 | | 0.83 0.8 | | 0.69 | |
| | 75% | | | | | | 0.80 | |
| | 100% | 0.82 | | | 0.87 | | 0.86 | |
| | | | on drive end | Foundatio | n loads | | | |
| Bearing type | | : 6208 ZZ | 6206 ZZ | Max. traction : 322 lb | | | | |
| Sealing | | : Without | Without | Max. com | | : 439 lb | | |
| 5 | | Bearing Seal | | | | - | | |
| Lubrication interv | /al | : - | - | | | | | |
| Lubricant amoun | | : - | - | | | | | |
| | | : Mobil Pol | vrex EM | | | | | |
| Lubricant type | | | | | | | | |
| Lubricant type | | | J | | | | | |
| Lubricant type Notes USABLE @208V | 20.5A SF 1. | 00 SFA 20.5A | , <u>_</u> | | | | | |
| Notes USABLE @208V This revision repla must be eliminate (1) Looking the m | aces and car d. otor from the | icel the previous o | ne, which | | | based on tests wi e tolerances stipu | | |
| Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 | aces and car ed. otor from the m and with t veight subjec ocess. | icel the previous o | ne, which | power sup | | | | |
| Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro | aces and car ed. otor from the m and with t veight subjec ocess. | cel the previous o shaft end. olerance of +3dB(/ | ne, which A). | power sup | | | | |
| Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. | aces and car ed. otor from the m and with t veight subjec ocess. | icel the previous o shaft end. olerance of +3dB(/ t to changes after | ne, which A). | power sup | oply, subject to th | e tolerances stipu | lated in NEMA | |
| Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by | aces and car ed. otor from the m and with t veight subjec ocess. | icel the previous o shaft end. olerance of +3dB(/ t to changes after | ne, which A). | power sup | oply, subject to th | e tolerances stipu Checked | Ilated in NEMA | |
| Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. | aces and car ed. otor from the m and with t veight subjec ocess. | icel the previous o shaft end. olerance of +3dB(/ t to changes after | ne, which A). | power sup | oply, subject to th | e tolerances stipu | lated in NEMA | |



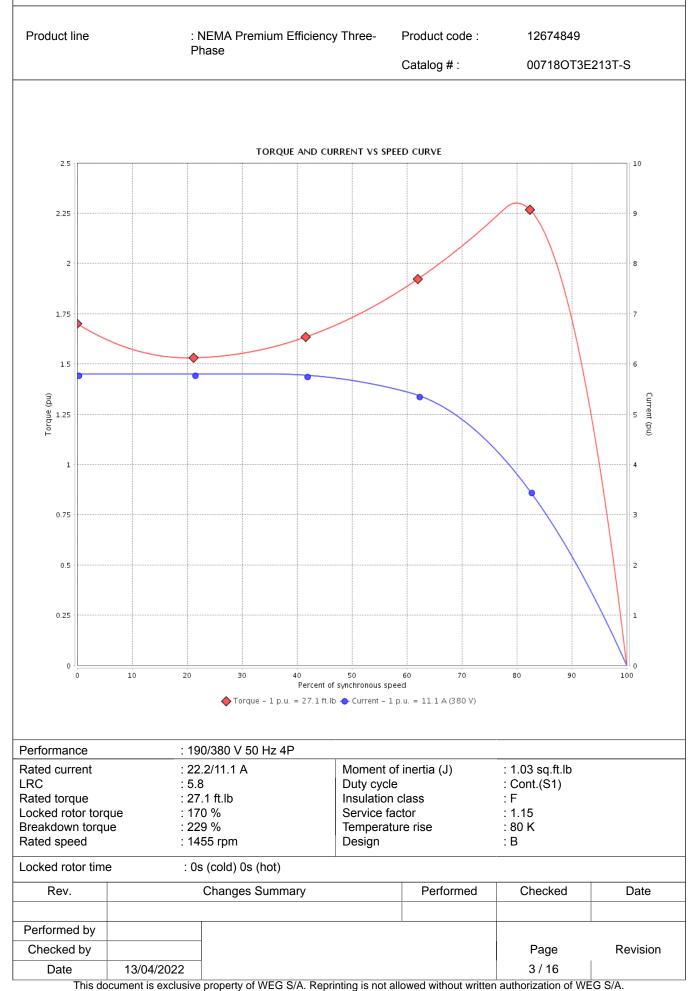
TORQUE AND CURRENT VS SPEED CURVE

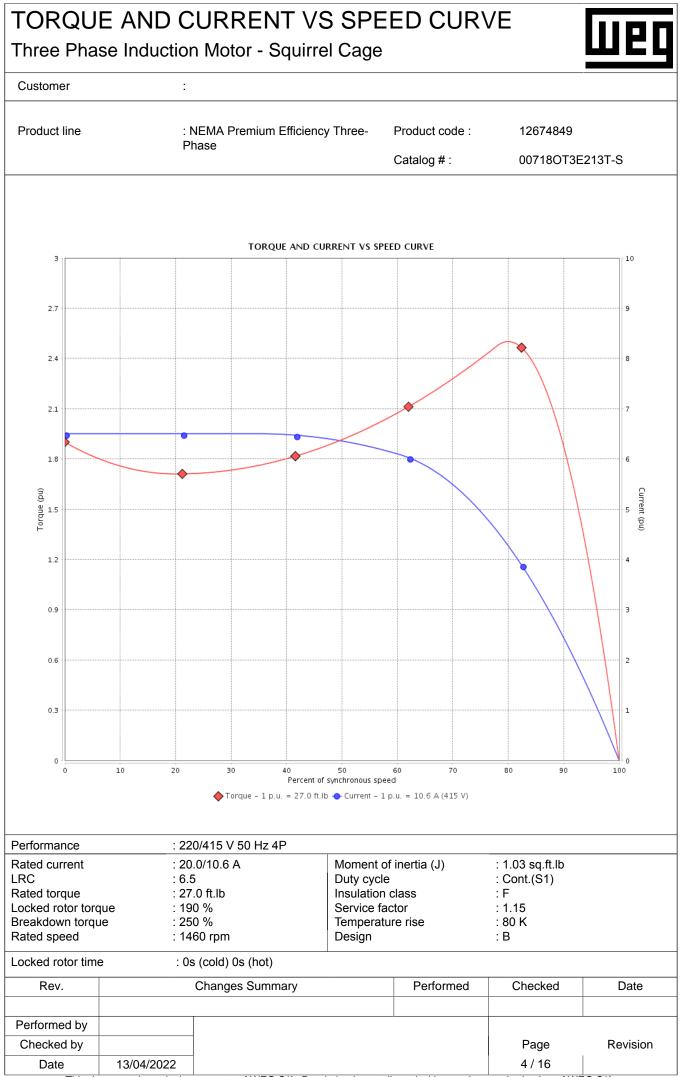
Three Phase Induction Motor - Squirrel Cage

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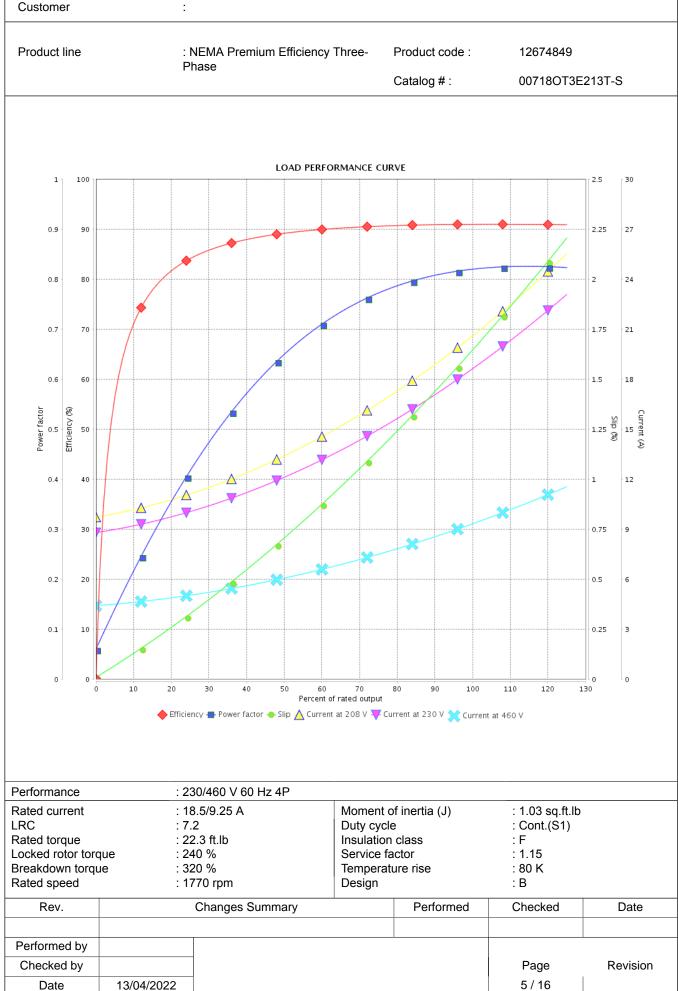




LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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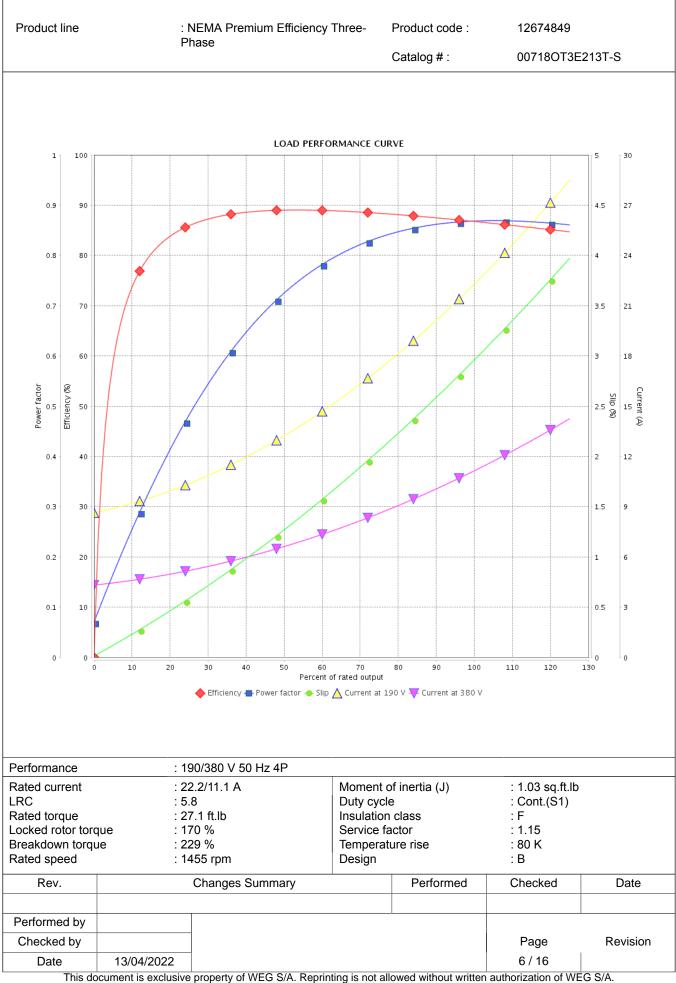
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Three Phase Induction Motor - Squirrel Cage

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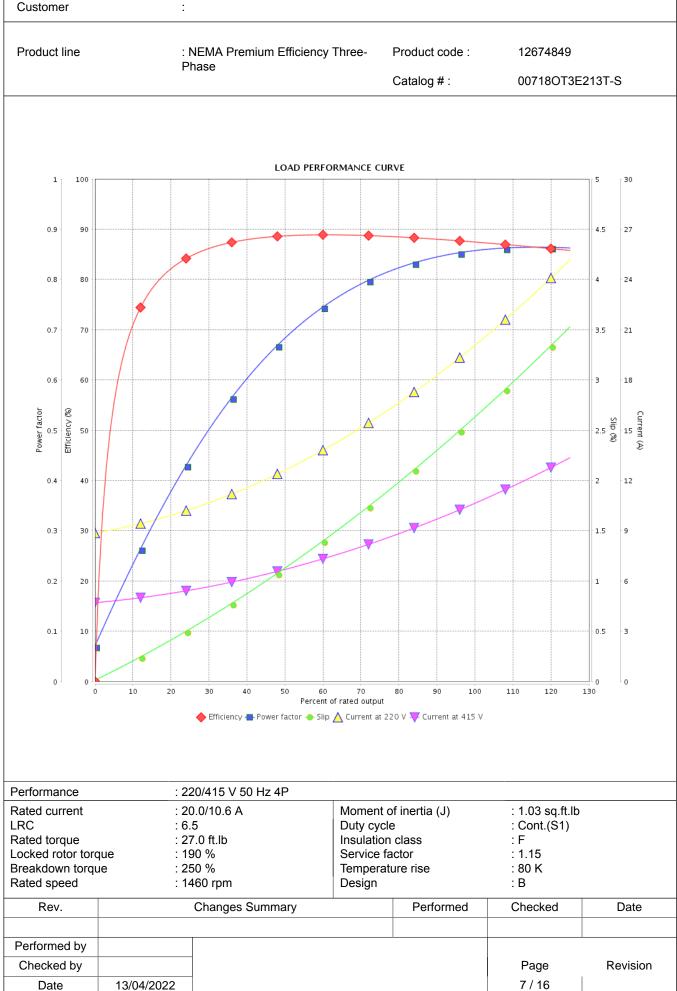
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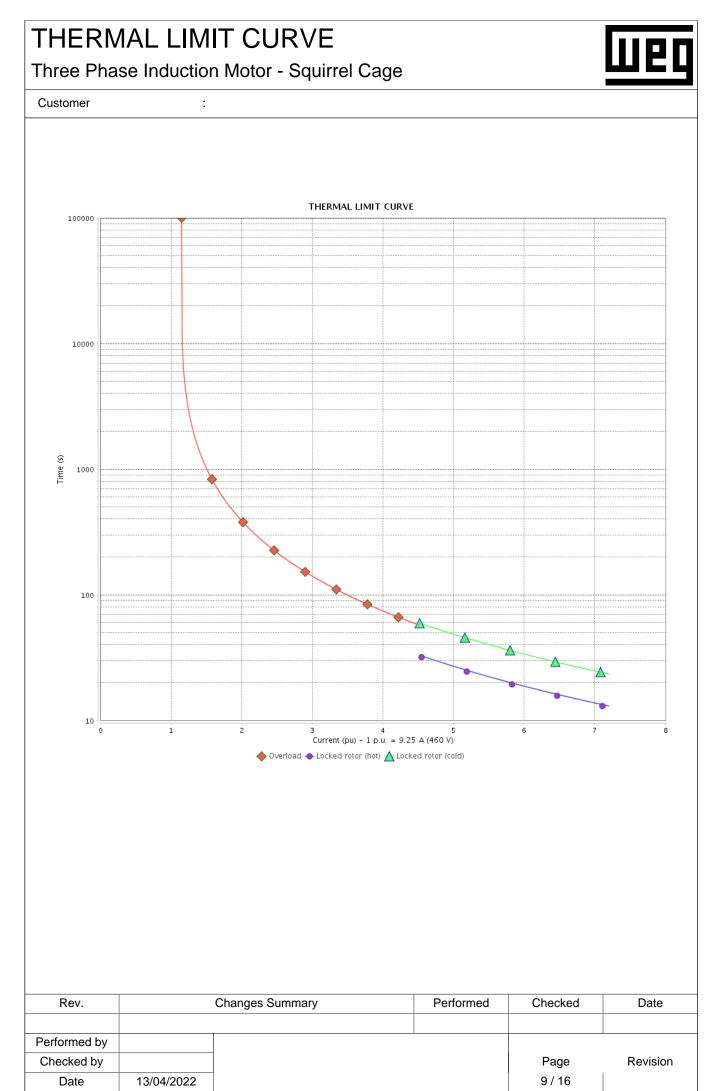
Customer



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| THERMAL L Three Phase Indu | шер | | |
|-------------------------------|---|----------------|-----------------|
| | | | |
| Customer | : | | |
| | | | |
| Product line | : NEMA Premium Efficiency Three- Phase | Product code : | 12674849 |
| | FIIdSE | Catalog # : | 00718OT3E213T-S |
| | | | |

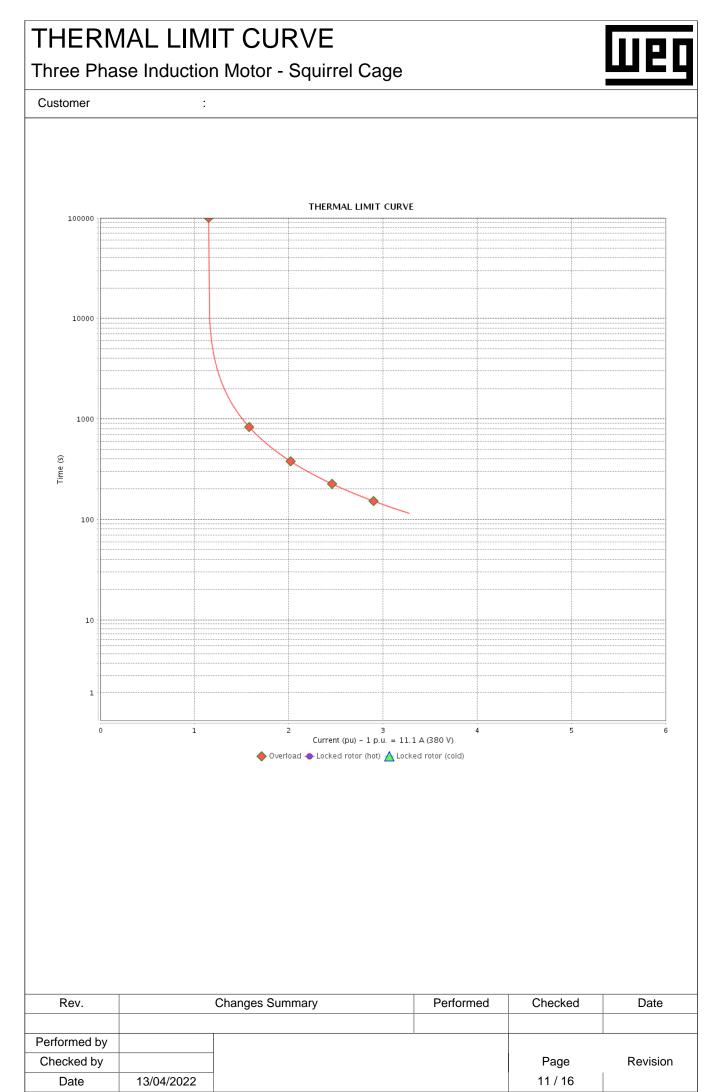
| Performance | : | 230/460 V 60 Hz 4P | | | | |
|--|------------------|---|---------------------------------------|--|---------------------|----------|
| Rated current: 18.5/9.25 ALRC: 7.2Rated torque: 22.3 ft.lbLocked rotor torque: 240 %Breakdown torque: 320 %Rated speed: 1770 rpm | | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 1.03 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | | |
| Heating constant | | | | | | |
| Cooling constant | | | | | | |
| Rev. | | Changes Summary | · · · · · · · · · · · · · · · · · · · | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 13/04/2022 | | | | 8 / 16 | |
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| THERMAL L | IMIT CURVE | | |
|------------------|---|----------------|-----------------|
| Three Phase Indu | iction Motor - Squirrel Cage | ; | <u>ш</u> |
| Customer | : | | |
| Product line | : NEMA Premium Efficiency Three- Phase | Product code : | 12674849 |
| | | Catalog # : | 00718OT3E213T-S |
| | | | |

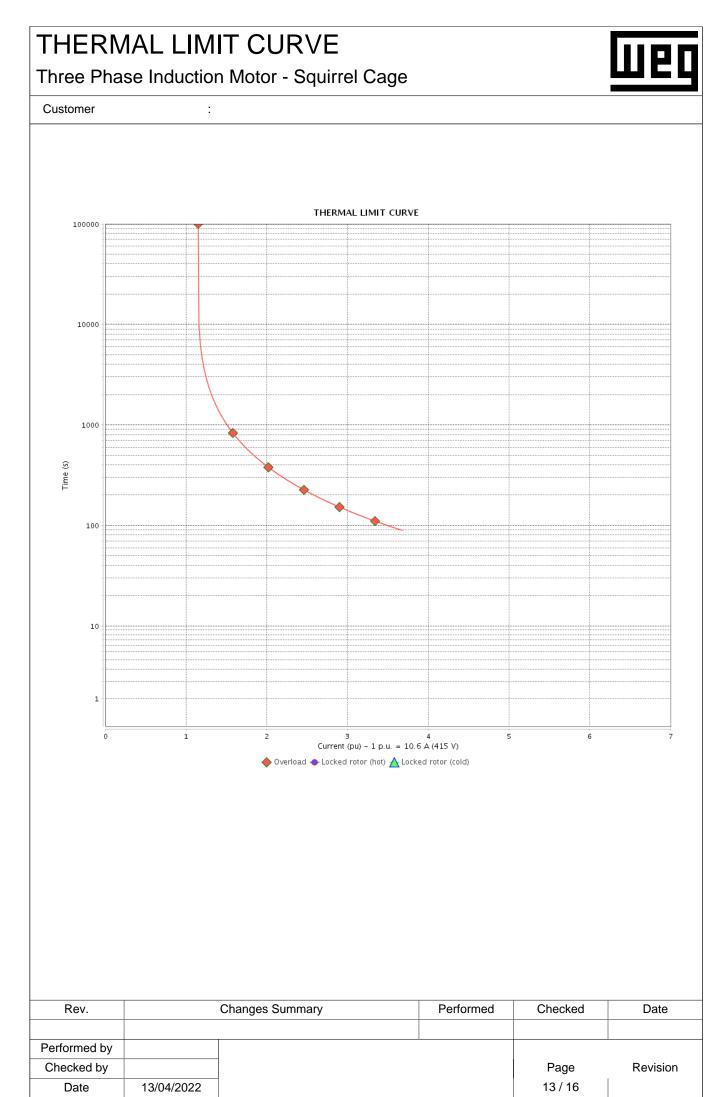
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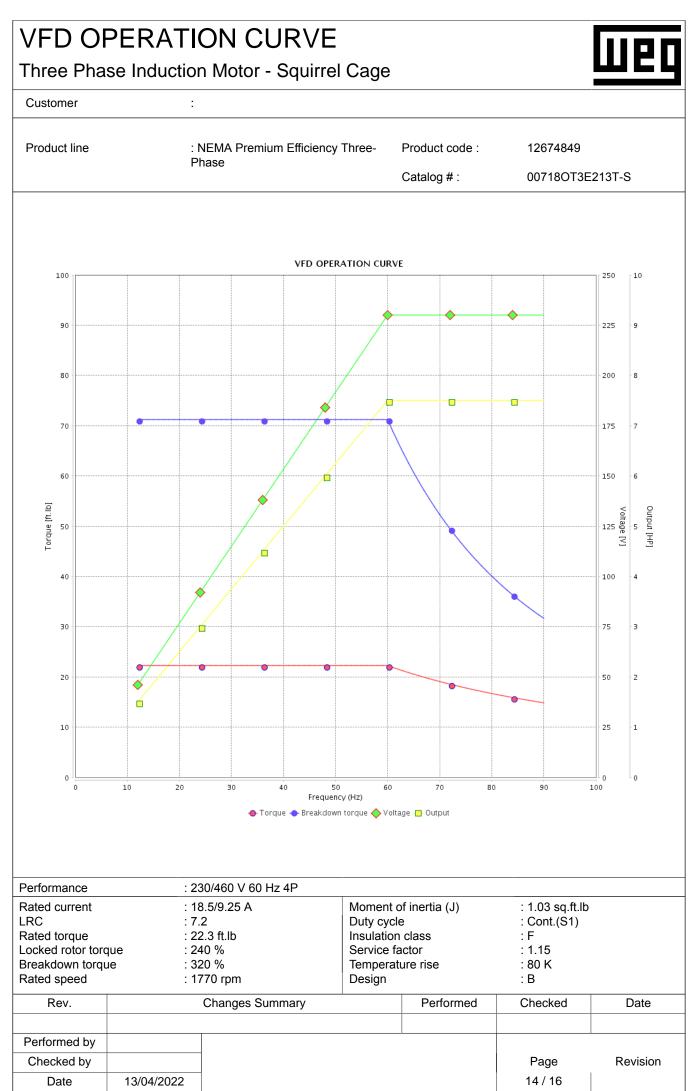
| Performance | : 1 | 90/380 V 50 Hz 4P | | | | |
|--|------------|--|---|-----------|--|----------|
| Rated current: 22LRC: 5.8Rated torque: 27Locked rotor torque: 17Breakdown torque: 22 | | 2.2/11.1 A .8 7.1 ft.lb 70 % 29 % 455 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 1.03 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Heating constant Cooling constant | | | | | | |
| Rev. | · | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | _ | | | Page | Revision |
| Date | 13/04/2022 | | | | 10 / 16 | |



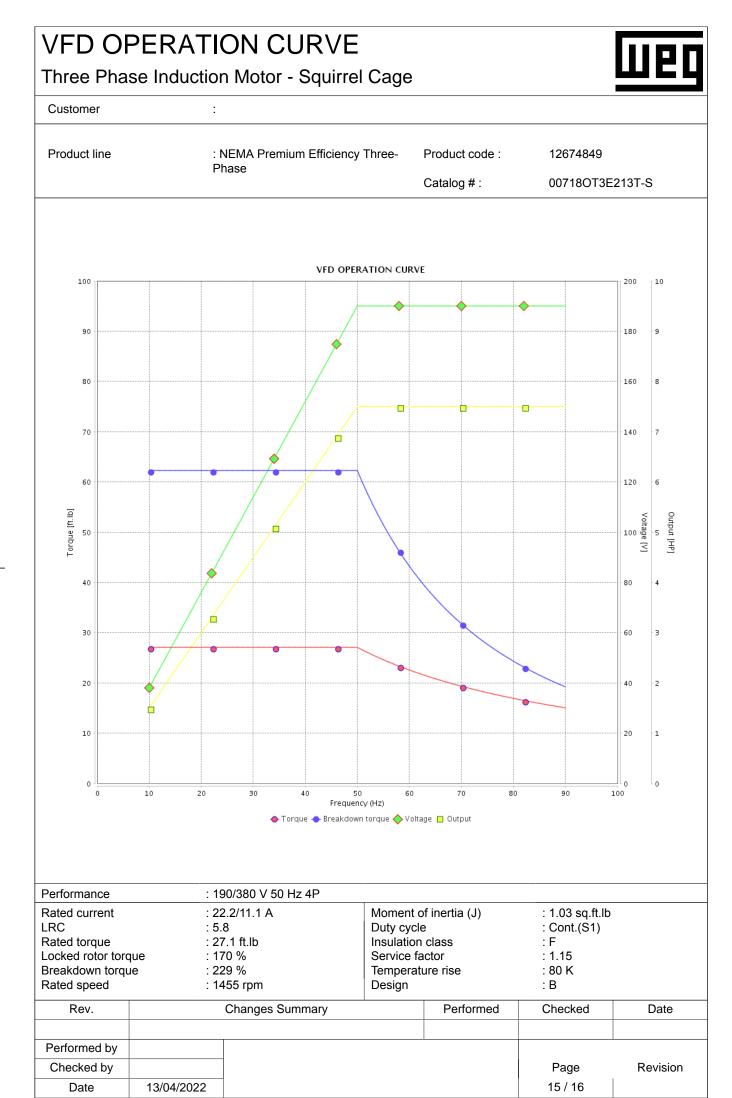
| THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage | | | | |
|--|---|----------------|-----------------|--|
| Customer | : | | | |
| Product line | : NEMA Premium Efficiency Three- Phase | Product code : | 12674849 | |
| | | Catalog # : | 00718OT3E213T-S | |
| | | | | |

| Deufeure | | | | | | |
|-------------------|--|-----------------------------|---------------------------------|----------------------|---------------------|----------|
| Performance | | : 220/415 V 50 Hz 4P | | | | |
| Rated current | | : 20.0/10.6 A | .0/10.6 A Moment of inertia (J) | | : 1.03 sq.ft.lb | |
| LRC | | : 6.5 | Duty cycle | | : Cont.(S1) | |
| Rated torque | | : 27.0 ft.lb | Insulation class | | : F | |
| Locked rotor torq | Locked rotor torque : 190 % Service factor | | : 1.15 | | | |
| Breakdown torqu | ie | : 250 % | Temperature rise | | : 80 K | |
| Rated speed | | : 1460 rpm | Design | Design | | |
| Heating constant | t | | | | | |
| Cooling constant | : | | | | | |
| Rev. | Rev. Changes Summary | | | Performed | Checked | Date |
| . | | | | | | |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 13/04/2022 | 2 | | | 12/16 | |
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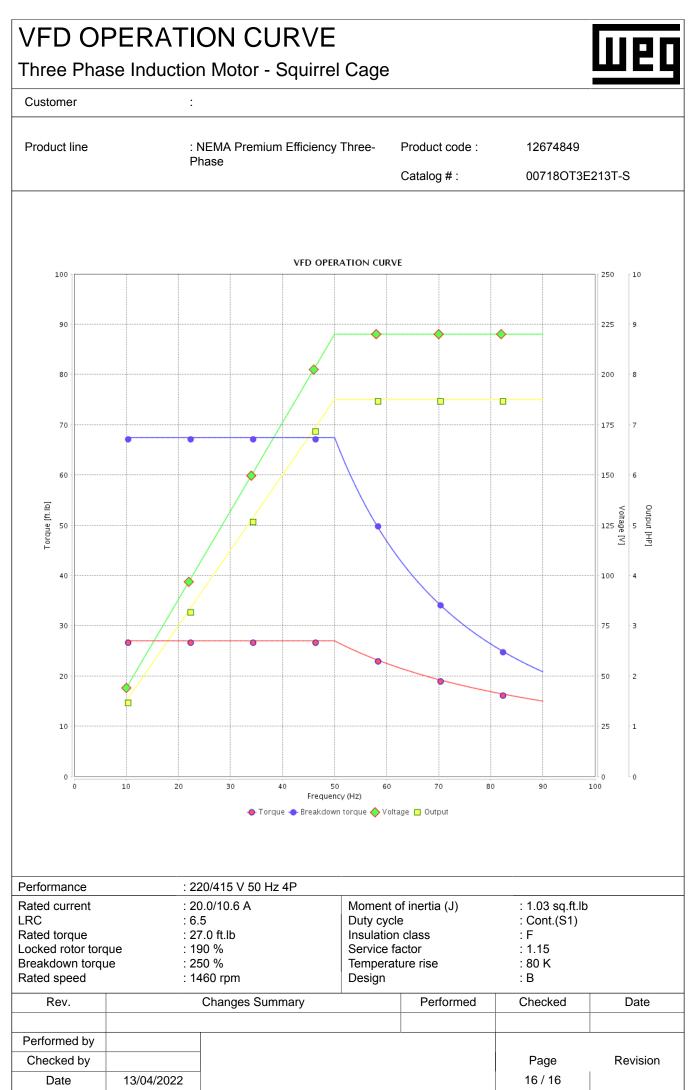




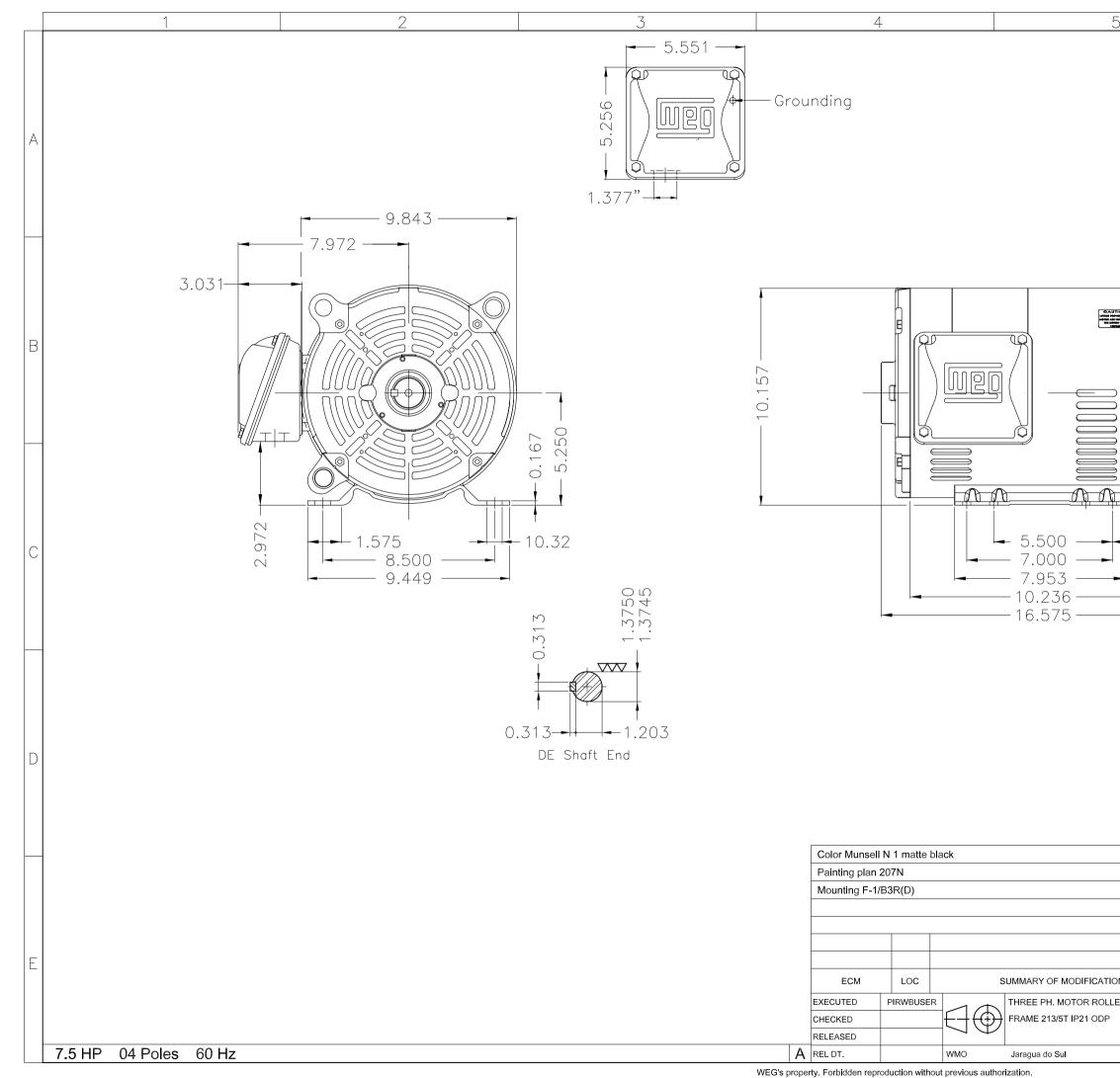
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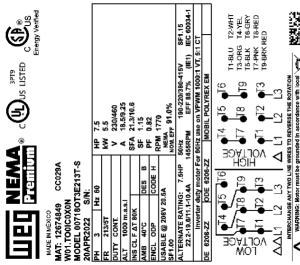
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|----------------------|----------------|----------|------|----------------------|
| | 2.480 | | | Dimensions in inches |
| | | | | |
| IONS EX | ECUTED CHECKED | RELEASED | DATE | VER |
| LED STEEL PREM. EFF. | | | | |
| D | PREVIE | =VV | | A3 |
| | WDD | | Шес | |
| Product Engi | ineering SHEET | 1 / 1 | | XME |
| | | | | |



choc électrique grave. Déconnectez l'alimentation avant l'entrefien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre

