DATA SHEET

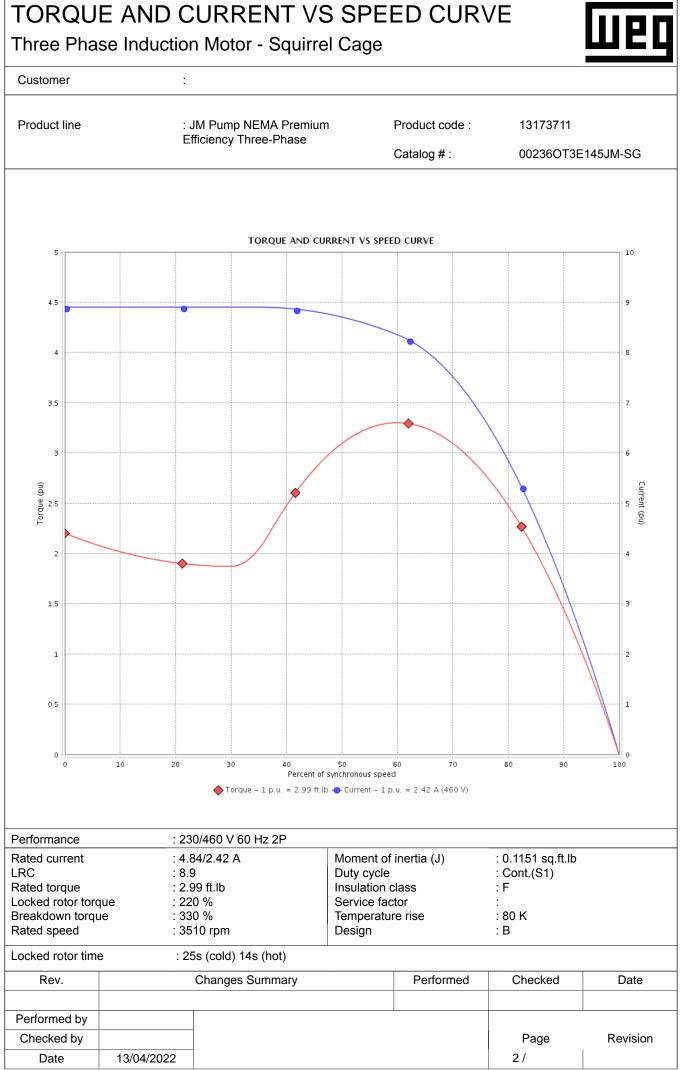
Three Phase Induction Motor - Squirrel Cage

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Customer

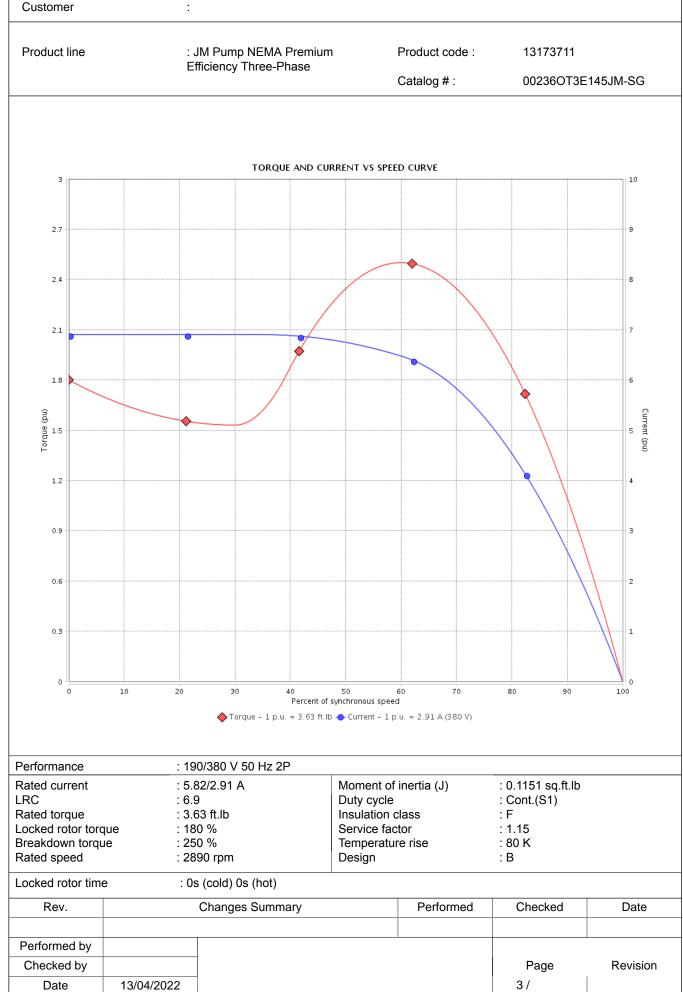
| Product line | | : JM Pump NEMA Premium Efficiency Three-Phase | Product code : | 13173711 | | | | |
|---|---|---|-------------------------------------|--|--|--|--|--|
| | | | Catalog # : | 00236OT3E145JM-SG | | | | |
| Frame | | : 143/5JM | Cooling method | : IC01 - ODP | | | | |
| Insulation class | | : F | Mounting | : F-1 | | | | |
| Duty cycle | | : Cont.(S1) | Rotation ¹ | : Both (CW and CCW) | | | | |
| Ambient tempera | ature | : -20°C to +40°C | Starting method | : Direct On Line | | | | |
| Altitude | | : 1000 m.a.s.l. | Approx. weight ³ | : 38.8 lb | | | | |
| Design | | : B | Moment of inertia (J) | : 0.1151 sq.ft.lb | | | | |
| Dutput [HP] | | 2 | 2 | 2 | | | | |
| Poles | | 2 | 2 | 2 | | | | |
| Frequency [Hz] | | 60 | 50 | 50 | | | | |
| Rated voltage [V] | | 230/460 | 190/380 | 220/415 | | | | |
| Rated current [A] | | 4.84/2.42 | 5.82/2.91 | 5.26/2.79 | | | | |
| . R. Amperes [A] | | 43.1/21.5 | 40.2/20.1 | 40.0/21.2 | | | | |
| | | | | | | | | |
| .RC [A] lo load current [A | 1 | 8.9x(Code K) 1.83/0.917 | 6.9x(Code H) 1.81/0.906 | 7.6x(Code J) 1.84/0.978 | | | | |
| | | | | | | | | |
| Rated speed [RPN | vij | 3510 | 2890 | 2900 | | | | |
| Slip [%] | 1 | 2.50 | 3.67 | 3.33 | | | | |
| Rated torque [ft.lb | | 2.99 | 3.63 | 3.62 | | | | |
| _ocked rotor torqu | | 220 | 180 | 200 | | | | |
| Breakdown torque | e [%] | 330 | 250 | 280 | | | | |
| Service factor | | | 1.15 | 1.15 | | | | |
| Temperature rise | | 80 K | 80 K | 80 K | | | | |
| _ocked rotor time | | 25s (cold) 14s (hot) | Os (cold) Os (hot) | Os (cold) Os (hot) | | | | |
| Noise level ² | | 62.0 dB(A) | 60.0 dB(A) | 60.0 dB(A) | | | | |
| | 25% | 83.7 | 85.5 | 85.4 | | | | |
| Efficiency (%) | 50% | 84.0 | 85.0 | 84.7 | | | | |
| | 75% | 85.5 | 85.1 | 85.4 | | | | |
| | 100% | 85.5 | 84.2 | 84.3 | | | | |
| | 25% | 0.49 | 0.56 | 0.52 | | | | |
| Power Factor | 50% | 0.77 | 0.83 | 0.80 | | | | |
| | 75% | 0.86 | 0.90 | 0.88 | | | | |
| | 100% | 0.91 | 0.93 | 0.92 | | | | |
| | | Drive end Non drive en | d Foundation loads | | | | | |
| Bearing type | | : 6206 ZZ 6203 ZZ | Max. traction | : 69 lb | | | | |
| Sealing | | : Without Without | Max. compression | : 107 lb | | | | |
| U | | Bearing Seal Bearing Se | | | | | | |
| Lubrication interv | val | : | | | | | | |
| Lubricant amoun | it | : | | | | | | |
| Lubricant type | | : Mobil Polyrex EM | | | | | | |
| Notes USABLE @208V | 5.35A SF 1.0 | 00 SFA 5.35A | | | | | | |
| | | | | | | | | |
| must be eliminate (1) Looking the m (2) Measured at 1 | ed. lotor from the Im and with to weight subject ocess. | cel the previous one, which shaft end. olerance of +3dB(A). t to changes after | | s based on tests with sinusoidal he 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. lotor from the Im and with to weight subject ocess. | shaft end. blerance of +3dB(A). t to changes after | power supply, subject to t MG-1. | he tolerances stipulated in NEMA | | | | |
| must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro | ed. lotor from the Im and with to weight subject ocess. | shaft end. blerance of +3dB(A). | power supply, subject to t | | | | | |
| must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. | ed. lotor from the Im and with to weight subject ocess. | shaft end. blerance of +3dB(A). t to changes after | power supply, subject to t MG-1. | he 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 Rev. Performed by | ed. lotor from the Im and with to weight subject ocess. | shaft end. blerance of +3dB(A). t to changes after | power supply, subject to t MG-1. | he 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 Rev. | ed. lotor from the Im and with to weight subject ocess. | shaft end. blerance of +3dB(A). t to changes after | power supply, subject to t MG-1. | he tolerances stipulated in NEMA | | | | |



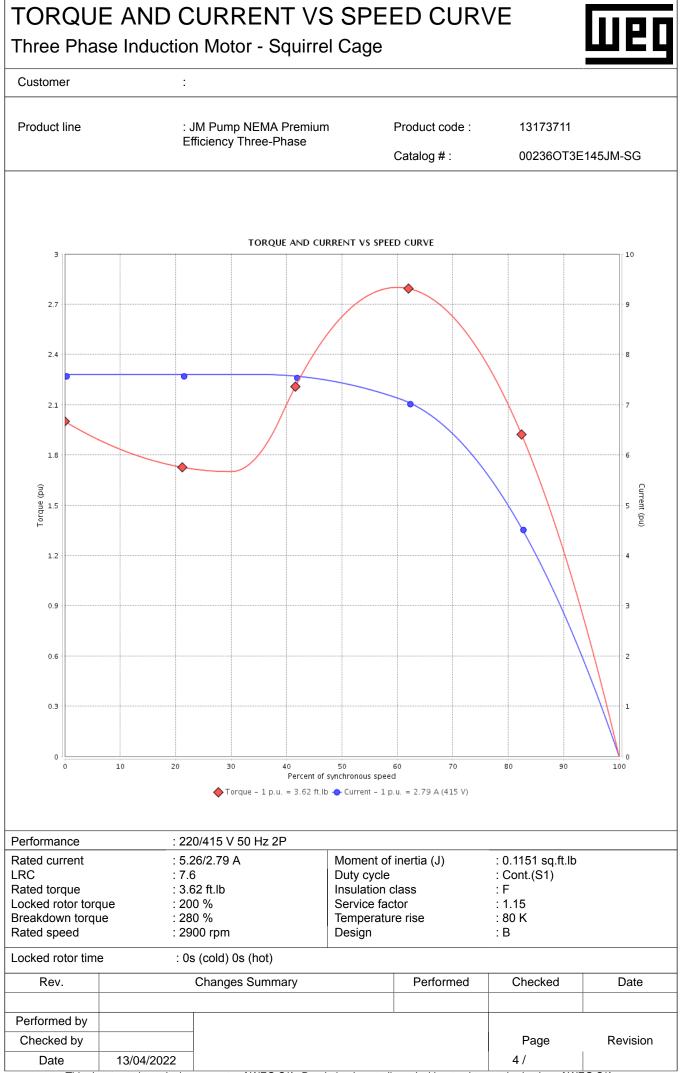
TORQUE AND CURRENT VS SPEED CURVE

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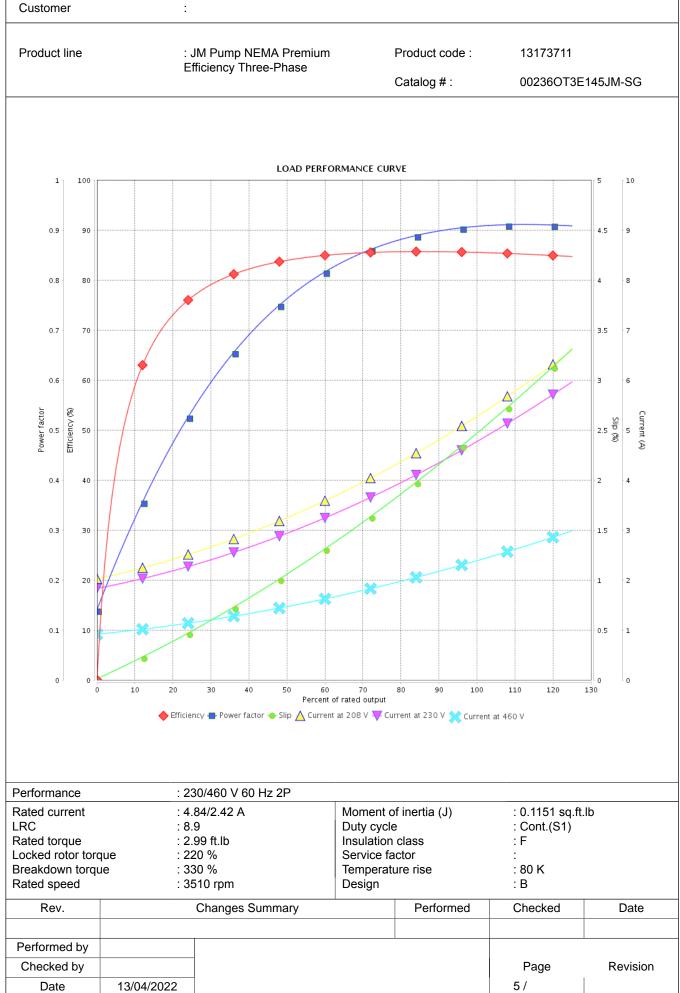
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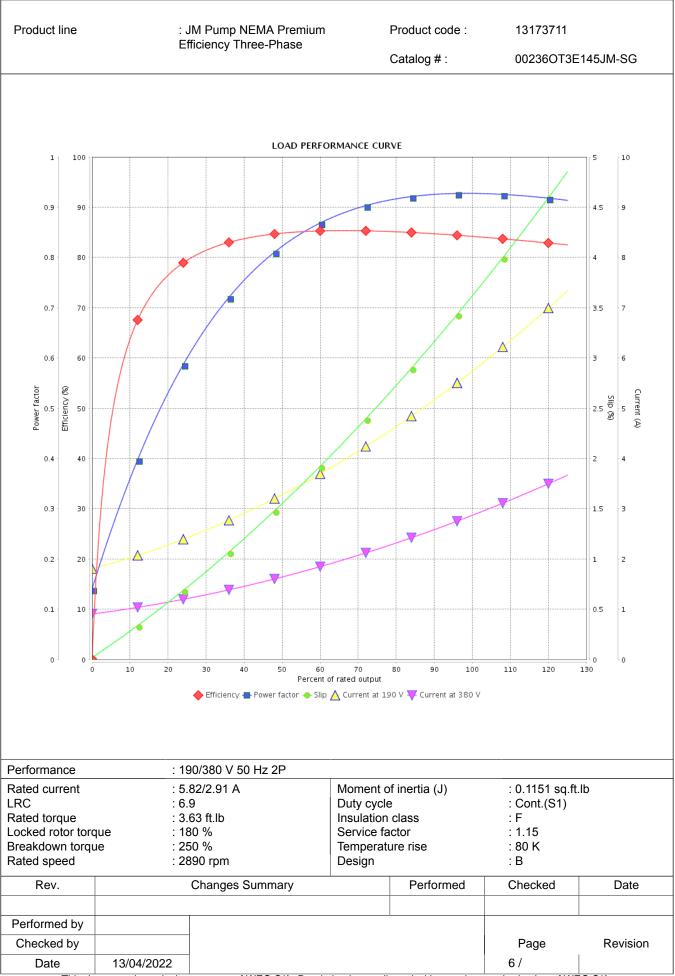
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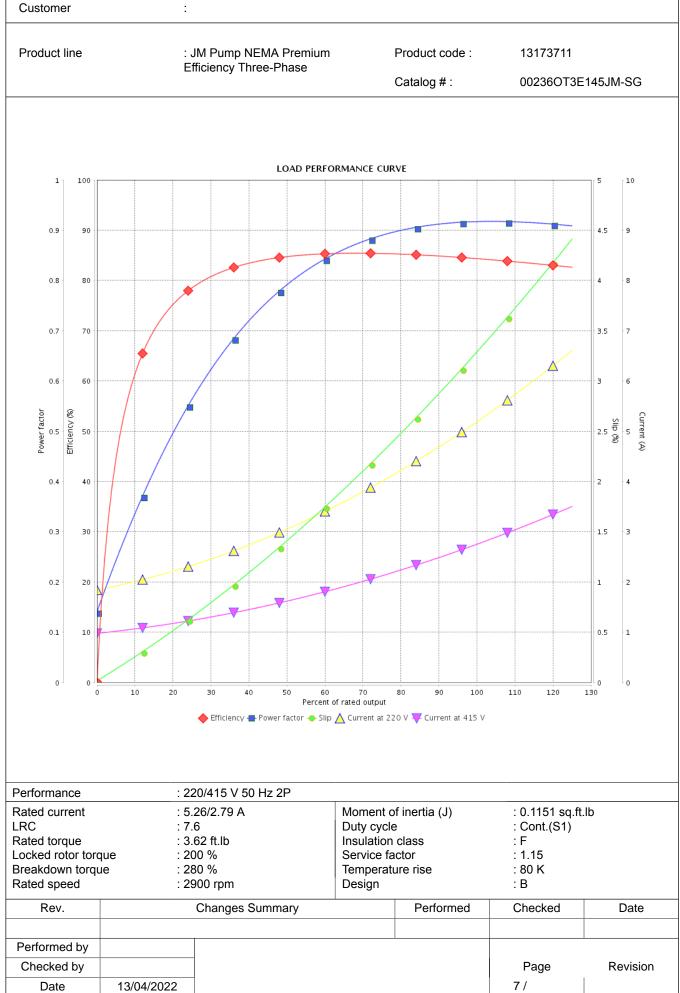
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THERMAL LIMIT CURVE

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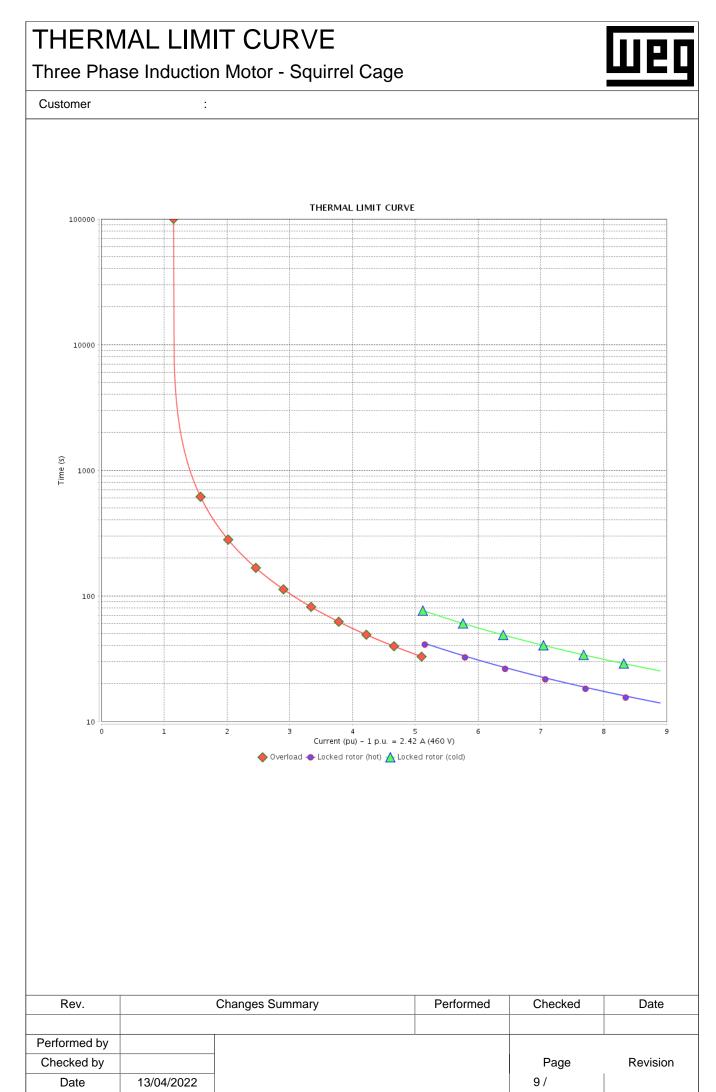
Customer

| Product line | : . Et | JM Pump NEMA Premium fficiency Three-Phase | | Product code : Catalog # : | 13173711 00236OT3E145JM-SG | | | |
|---|------------|---|---|-------------------------------|---|--------------|--|--|
| | | | | | 002000102 | | | |
| | | | | | | | | |
| Performance | : 23 | 30/460 V 60 Hz 2P | | | | | | |
| Rated current LRC Rated torque Locked rotor torque Breakdown torque | | 84/2.42 A 9 99 ft.lb 20 % 30 % 510 rpm | Moment o Duty cycle Insulation Service fa Temperatu Design | class ctor | : 0.1151 sq.ft.lb : Cont.(S1) : F : : 80 K : B | | | |
| Heating constant | : | | | | | | | |
| Cooling constant | | | | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date | | |
| | | 1 | | | | | | |
| Performed by | | - | | | 5 | D · · | | |
| Checked by | 40/04/0000 | - | | | Page | Revision | | |
| Date | 13/04/2022 | | | | 8 / | | | |

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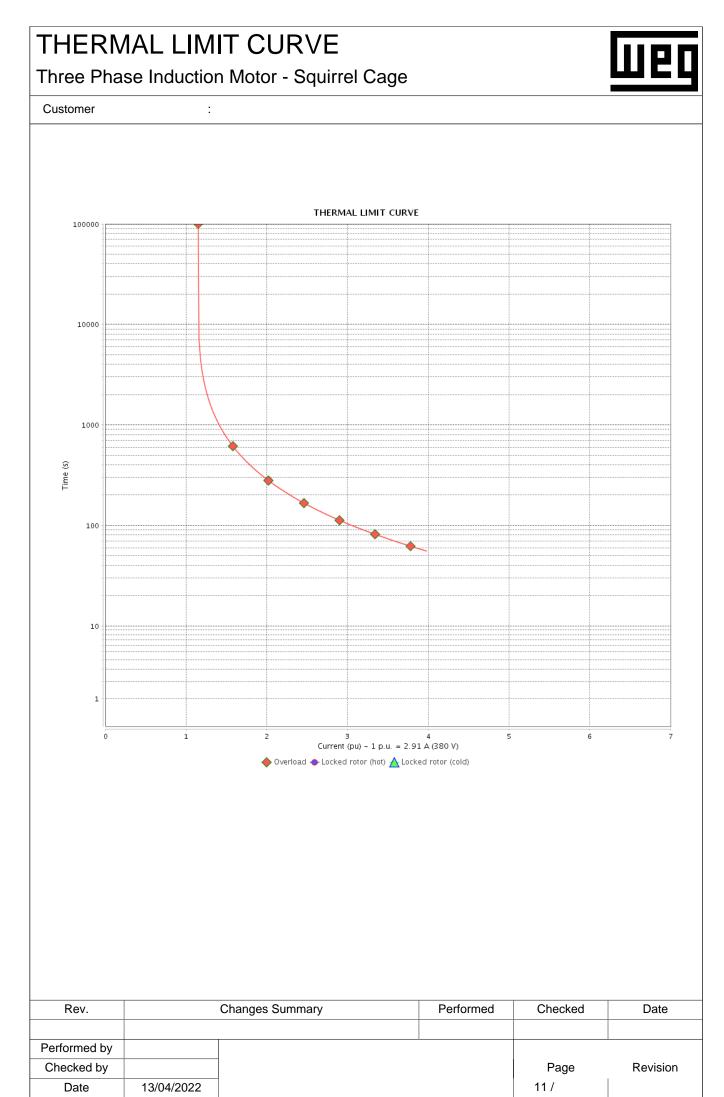
Customer

| Product line | : C Ei | JM Pump NEMA Premium fficiency Three-Phase | | Product code : | 13173711 00236OT3E145JM-SG | | | |
|---|------------|---|---|----------------|--|----------|--|--|
| | | | | Catalog # : | 00236013E | 145JM-SG | | |
| | | | | | | | | |
| Performance | | 90/380 V 50 Hz 2P | | | | | | |
| Rated current LRC Rated torque Locked rotor torque Breakdown torque | | 82/2.91 A 9 63 ft.lb 80 % 50 % 890 rpm | Moment o Duty cycle Insulation Service fa Temperatu Design | class ictor | : 0.1151 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | | | |
| Heating constant | | | | | | | | |
| Cooling constant | | | | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date | | |
| | | | | | | | | |
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| Date | 13/04/2022 | | | | 10 / | | | |

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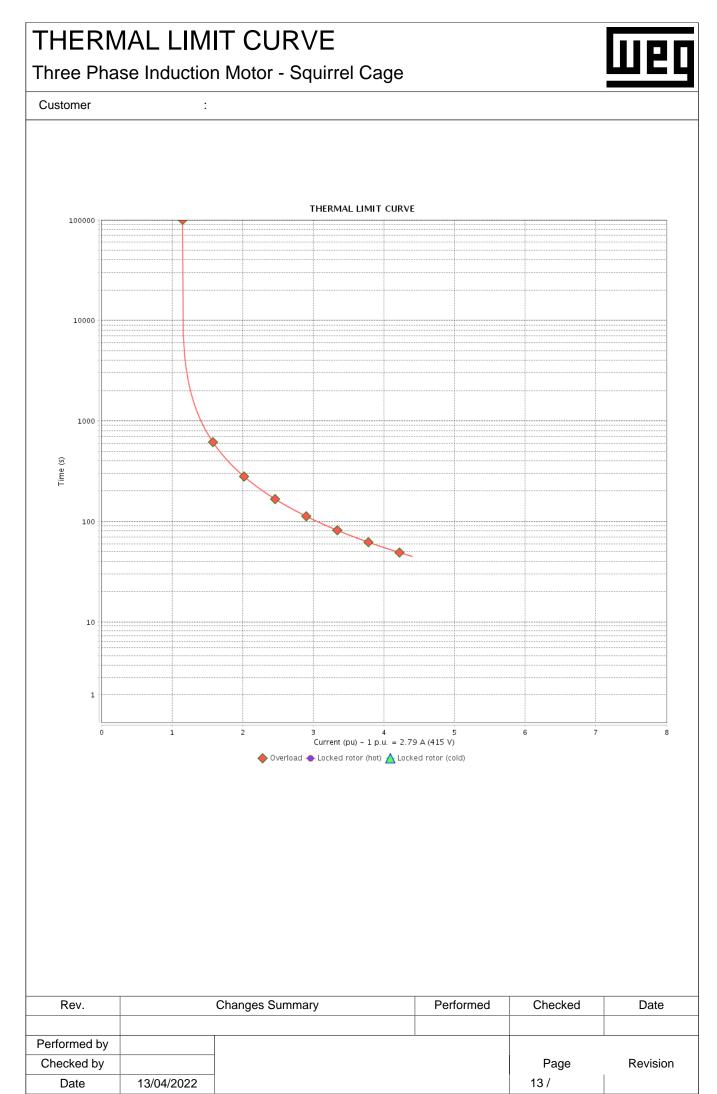


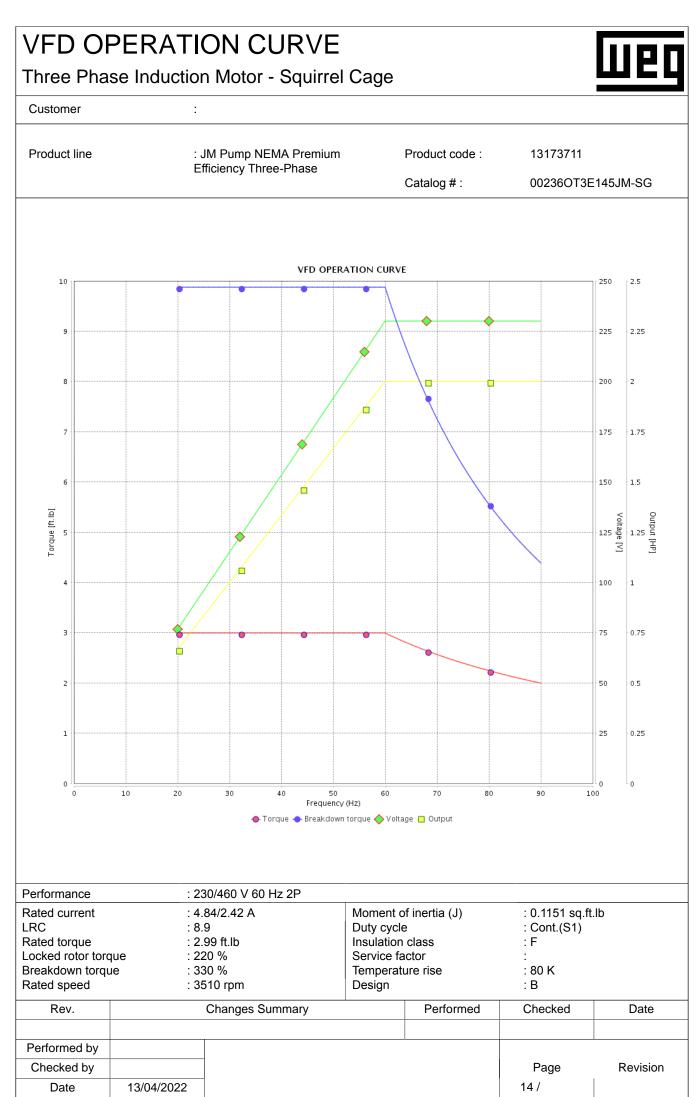
Customer

| Product line | :. | JM Pump NEMA Premium | | Product code : | 13173711 | | | |
|---|------------|---|---|----------------|--|----------|--|--|
| | E | fficiency Three-Phase | | Catalog # : | 00236OT3E | 145JM-SG | | |
| | | | | | | | | |
| Performance | : 22 | 20/415 V 50 Hz 2P | | | | | | |
| Rated current LRC Rated torque Locked rotor torque Breakdown torque | | 26/2.79 A .6 .62 ft.lb 00 % 80 % 900 rpm | Moment o Duty cycle Insulation Service fa Temperatu Design | class ctor | : 0.1151 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | | | |
| Heating constant | | | | | | | | |
| Cooling constant | | | | | | | | |
| Rev. | | Changes Summary | | Performed | Checked | Date | | |
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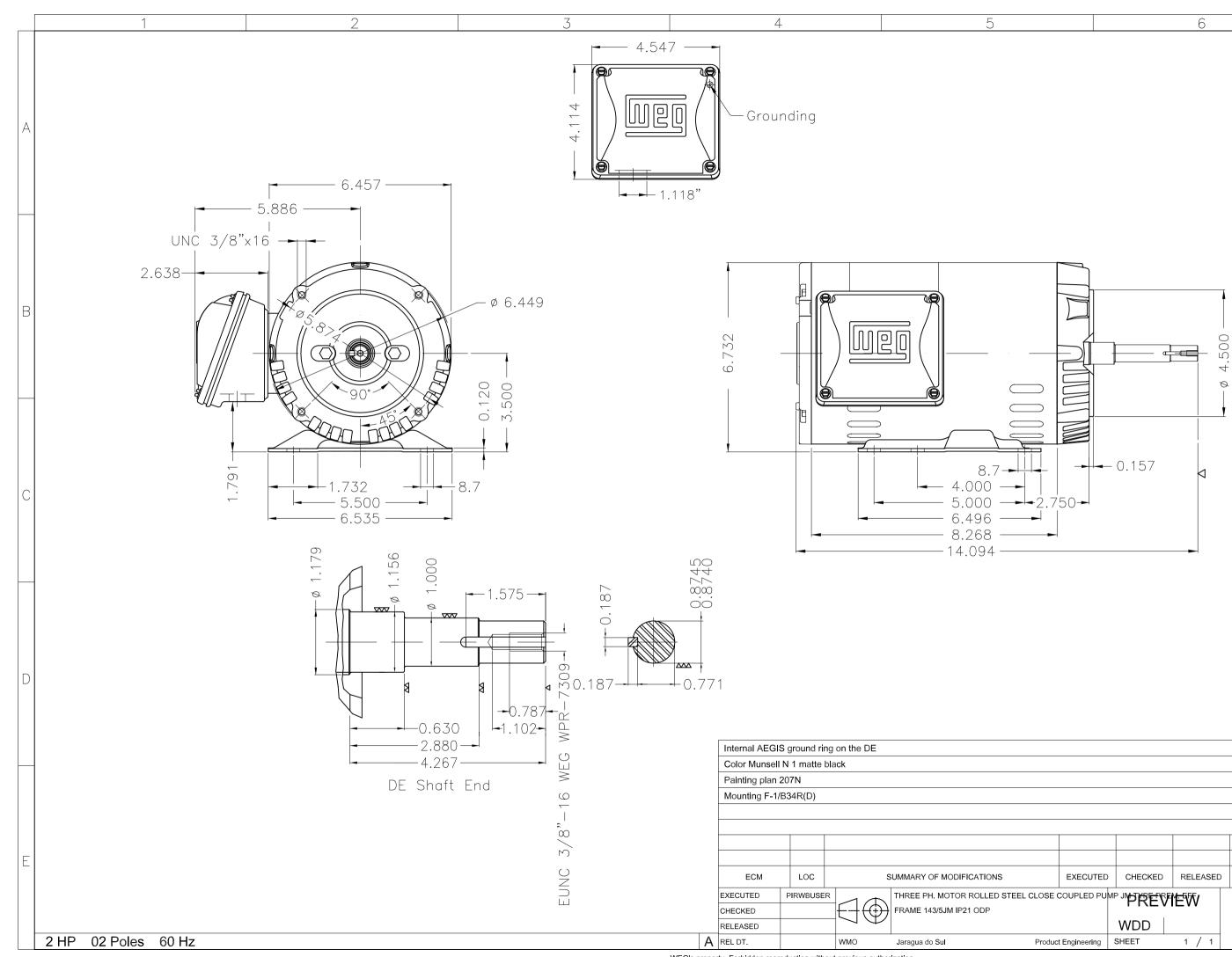
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| | | | | | | Dimensions in inches |
|-----------------|------------|-----------------------|----------|----------|-----|----------------------|
| IONS | EXECUTED | CHECKED | RELEASED | DATE | VER | |
| LED STEEL CLOSE | COUPLED PU | ^{MP JI} PREV | MEWV | . | | |
| F | | WDD | | ШĿ | | A3 |
| | 1 | | | | | XME |

| COLOUS 1379 COLOUS LISTED Energy Verified | C€ | | kw 1.5 | V 230/460 A 4,84/2.42 | - | | PF U.91 DDM 9540 | | 50Hz 190-220/380-415V SF1.15 | te on VPWM 1000:1 VT. 3:1 | MOBIL POLYREX EM | T4 T5 T6 | T1-BLU | DULL TS TS-BLK T6-GRY | LI L I T9-BRK RED | IS TO REVERSE THE ROTATION HOW HOW INCLUDED | NING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit. | AVERTISSEMENT: Le moteur doit ête mis à la terre de la terre doit et la terre doit et la terre doit odes électriques locaux et nationaux afin d'éviter tout e. Déconnectez l'allimentation avant l'entretien de la machine. |
|---|---|---|------------|--------------------------|-------------|----------------|---------------------|-----------------------|------------------------------|---------------------------|------------------------|----------|------------|-----------------------|-------------------|--|---|--|
| LIED REMIUM | MADE IN MÉXICO MAT: 13173711 CC029A W01.TO0IC0X0N | MODEL 002360T3E145JM-SG 060CT2021 B/N: | · . | DUTY CONT. | CL F AT 80K | AMB 40°C DES B | ENCL ODP CODE K | USABLE @ 208V 5.35A N | 2.0HP 5 | inverter duty motor For 8 | DE 6206-ZZ ODE 6203-ZZ | T4 T5 T6 | P ' | | | INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION | WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit. | AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codre électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectes l'alimentation avant l'entreflen de la machine. |