# DATA SHEET

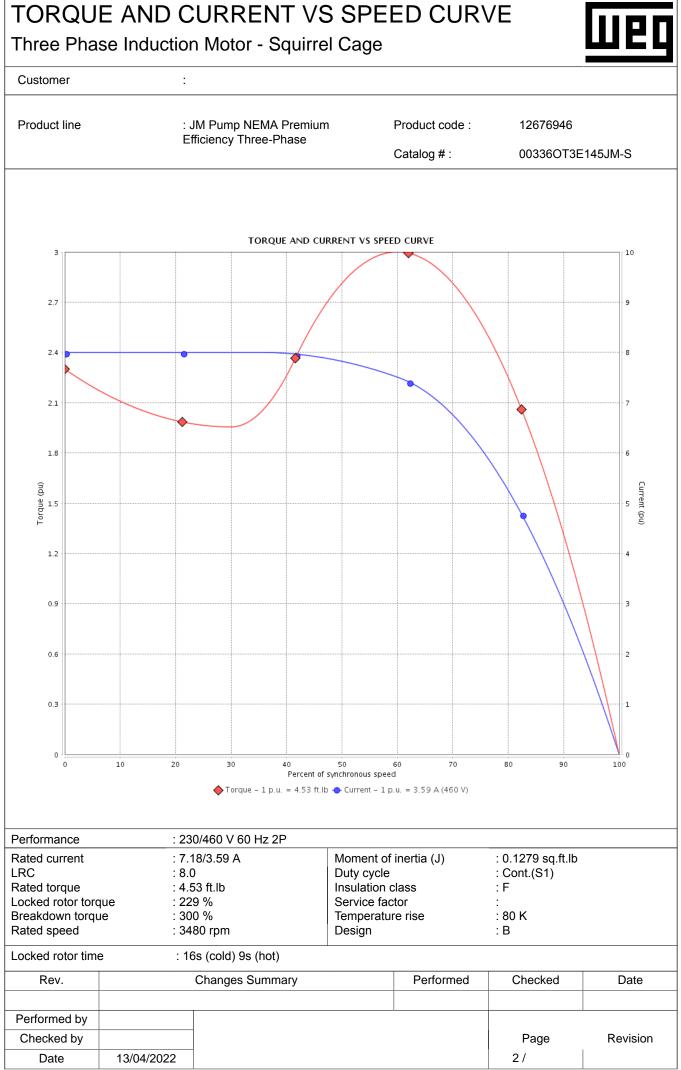
Three Phase Induction Motor - Squirrel Cage

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#### Customer

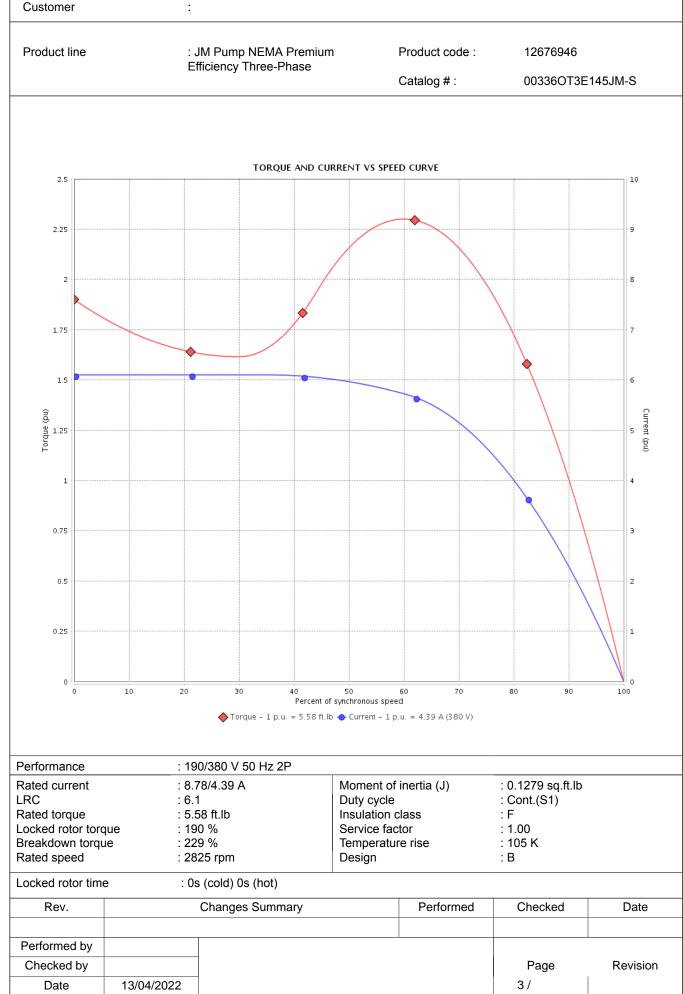
| Product line   |  | : JM Pump NEMA Premium  | Product code :  | 12676946                 | 12676946                         |  |  |
|--|--|---|---|--------------------------|----------------------------------|--|--|
|  |  | Efficiency Three-Phase  | Catalog # :   | 00336OT3E                | 00336OT3E145JM-S                 |  |  |
| Frame  |  | : 143/5JM   | Cooling method  | : IC01 - OD              | P                                |  |  |
| Insulation class   |  | : F   | Mounting  | : F-1                    | •                                |  |  |
| Duty cycle   |  | : Cont.(S1)   | Rotation <sup>1</sup>   |                          | : Both (CW and CCW)              |  |  |
| Ambient tempera  | ature  | : -20°C to +40°C  | Starting method   | : Direct On              |                                  |  |  |
| Altitude   |  | : 1000 m.a.s.l.   | Approx. weight <sup>3</sup>                                       | : 41.9 lb                |                                  |  |  |
| Design   |  | : B   | Moment of inertia (J)   | : 0.1279 sq              | .ft.lb                           |  |  |
| Dutput [HP]  |  | 3   | 3   |                          | 3                                |  |  |
| Poles  |  | 2   | 2   |                          | 2                                |  |  |
| Frequency [Hz]   |  | 60  | 50  |                          | 50                               |  |  |
| Rated voltage [V]  |  | 230/460   | 190/380   | 2                        | 20/415                           |  |  |
| Rated current [A]  |  | 7.18/3.59   | 8.78/4.39   |                          | 7.83/4.15                        |  |  |
| . R. Amperes [A]   |  | 57.4/28.7   | 53.6/26.8   |                          | 53.2/28.2                        |  |  |
| RC [A]   |  | 8.0x(Code J)  | 6.1x(Code G)  |                          | 6.8x(Code H)                     |  |  |
| lo load current [A]  | 1  | 2.60/1.30   | 2.60/1.30   | 6.8x(Code H<br>2.71/1.44 |                                  |  |  |
| Rated speed [RPN   |  | 3480  | 2.60/1.30   |                          | 2.71/1.44                        |  |  |
| Slip [%]   | ניי  | 3.33  | 5.83  |                          | 5.33                             |  |  |
| Rated torque [ft.lb]   |  | 4.53  | 5.58  |                          |                                  |  |  |
| ocked rotor torque   |  | 229   | 190   |                          | 5.55<br>220                      |  |  |
| locked rotor torqu<br>Breakdown torque                               |  | 300   | 229   |                          | 220                              |  |  |
| · · · · ·  | [70]   | 300   |   |                          | 1.00                             |  |  |
| Service factor   |  | 80 K  | 1.00<br>105 K   |                          | 1.00<br>105 K                    |  |  |
| Cemperature rise   |  |   |   |                          |                                  |  |  |
| locked rotor time  |  | 16s (cold) 9s (hot)   | 0s (cold) 0s (hot)  |                          | 0s (cold) 0s (hot)<br>60.0 dB(A) |  |  |
| NUISE IEVEI-   | 25%  | 62.0 dB(A)  | 60.0 dB(A)  |                          |                                  |  |  |
|  | 25%<br>50%   | 83.7  | 89.4<br>86.6  |                          | 88.4<br>86.5                     |  |  |
| Efficiency (%)   | 50%<br>75%   | 84.0  |   |                          |                                  |  |  |
| Enciency (%)   | 100%   | 85.5  | 85.0  |                          | 85.6                             |  |  |
|  |  | 85.5  | 81.8  |                          | 83.2                             |  |  |
|  | 25%  | 0.50  | 0.56  |                          | 0.51                             |  |  |
| Power Factor   | 50%  | 0.76  | 0.83  |                          | 0.79                             |  |  |
|  | 75%  | 0.86  | 0.90<br>0.93  |                          | 0.88                             |  |  |
|  | 100%   | 0.90  |   |                          | 0.92                             |  |  |
|  |  | Drive end Non drive end   | Foundation loads  |                          |                                  |  |  |
| Bearing type   |  | : 6206 ZZ 6203 ZZ   | Max. traction   |                          | : 100 lb                         |  |  |
| Sealing  |  | : Without Without   | Max. compression  | : 141 lb                 |                                  |  |  |
|  |  | Bearing Seal Bearing Seal   |   |                          |                                  |  |  |
| Lubrication interv   |  |   |   |                          |                                  |  |  |
| Lubricant amoun  | τ  |   |   |                          |                                  |  |  |
| Lubricant type   |  | : Mobil Polyrex EM  |   |                          |                                  |  |  |
| must be eliminate<br>(1) Looking the m<br>(2) Measured at 1          | aces and can<br>d.<br>otor from the<br>m and with to | cel the previous one, which<br>shaft end.<br>blerance of +3dB(A). | These are average values<br>power supply, subject to the<br>MG-1. |                          |                                  |  |  |
| (3) Approximate v<br>manufacturing pro<br>(4) At 100% of ful<br>Rev. | ocess.   | t to changes after Changes Summary                                | Performed   | Checked                  | Date                             |  |  |
| 1107.  |  | Unanges Summary   | i enomed  |                          | Date                             |  |  |
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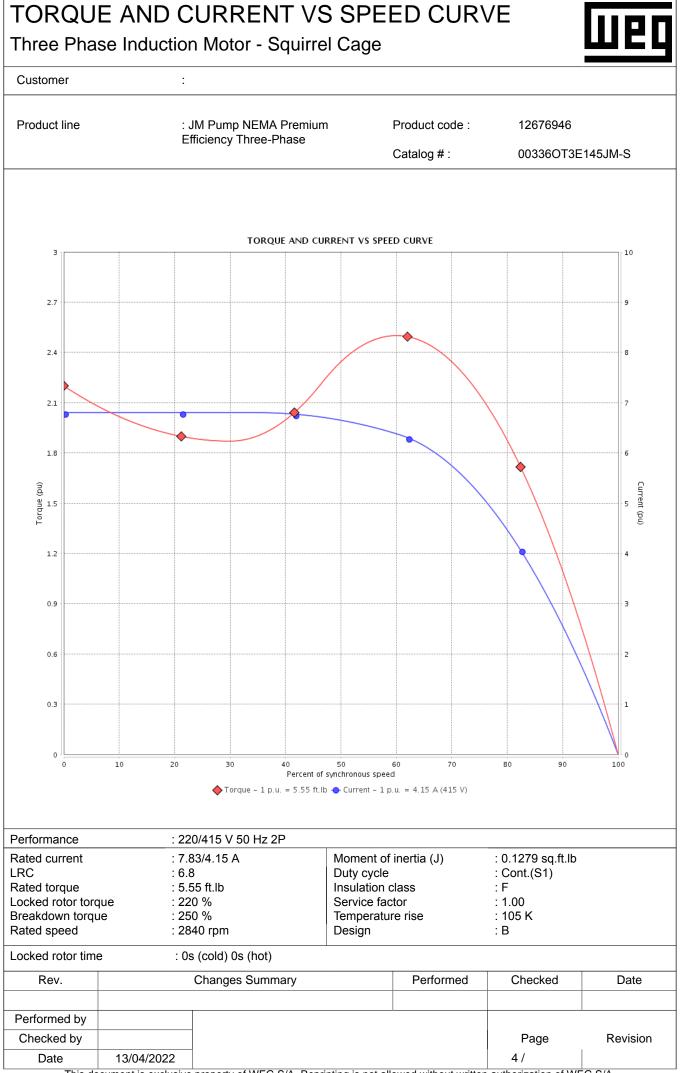
## TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



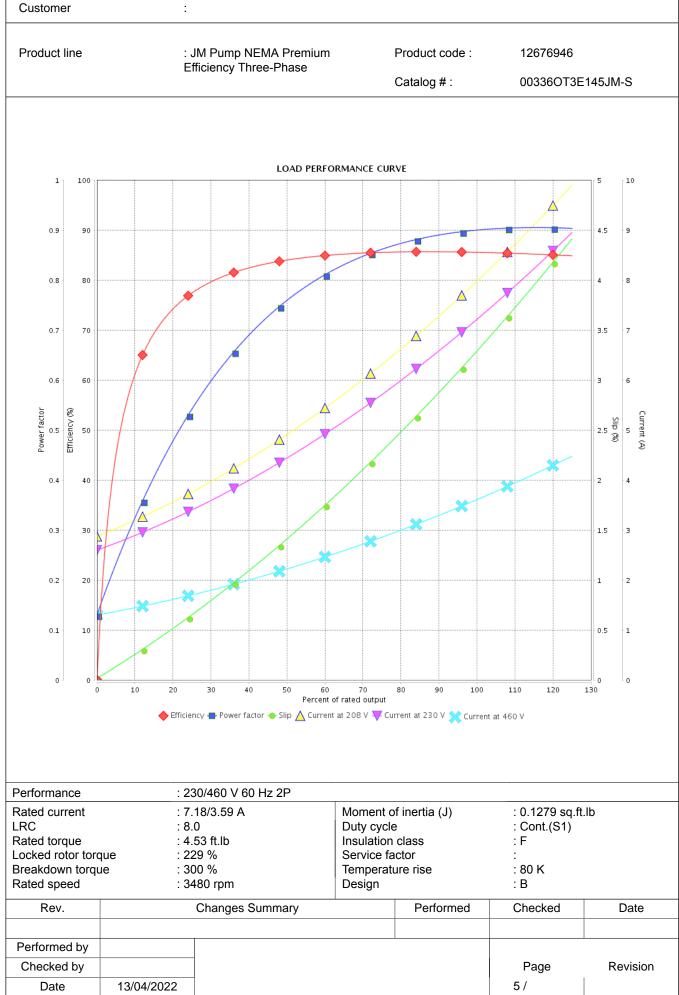
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# LOAD PERFORMANCE CURVE

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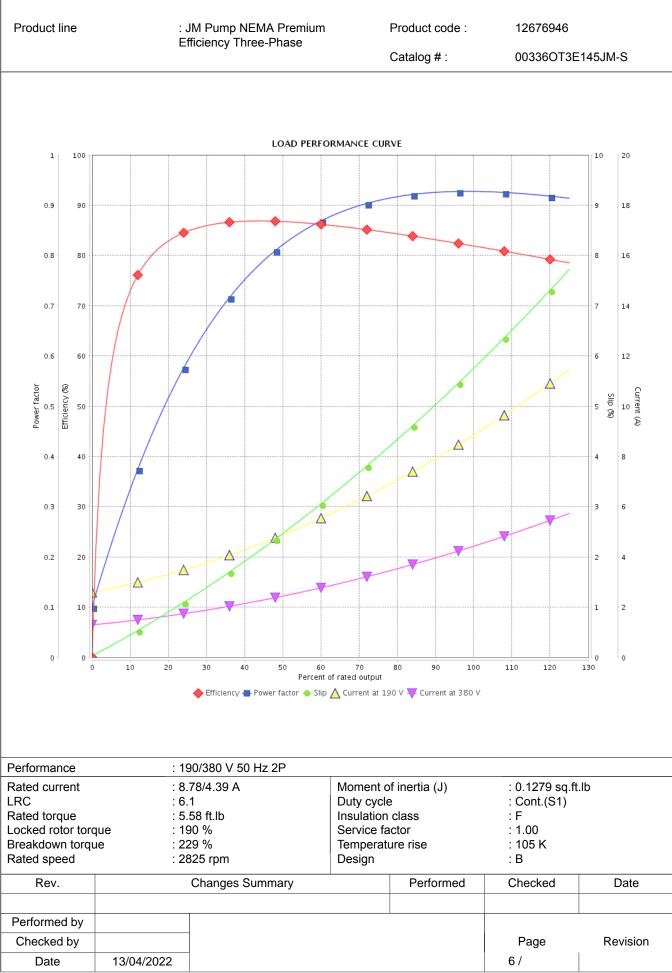
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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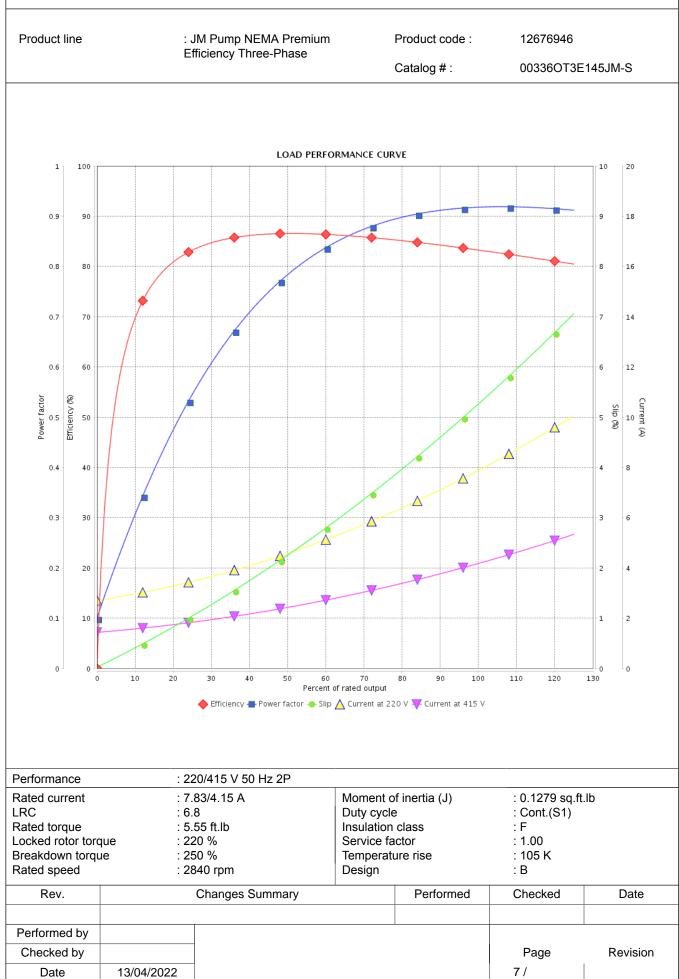


## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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## THERMAL LIMIT CURVE

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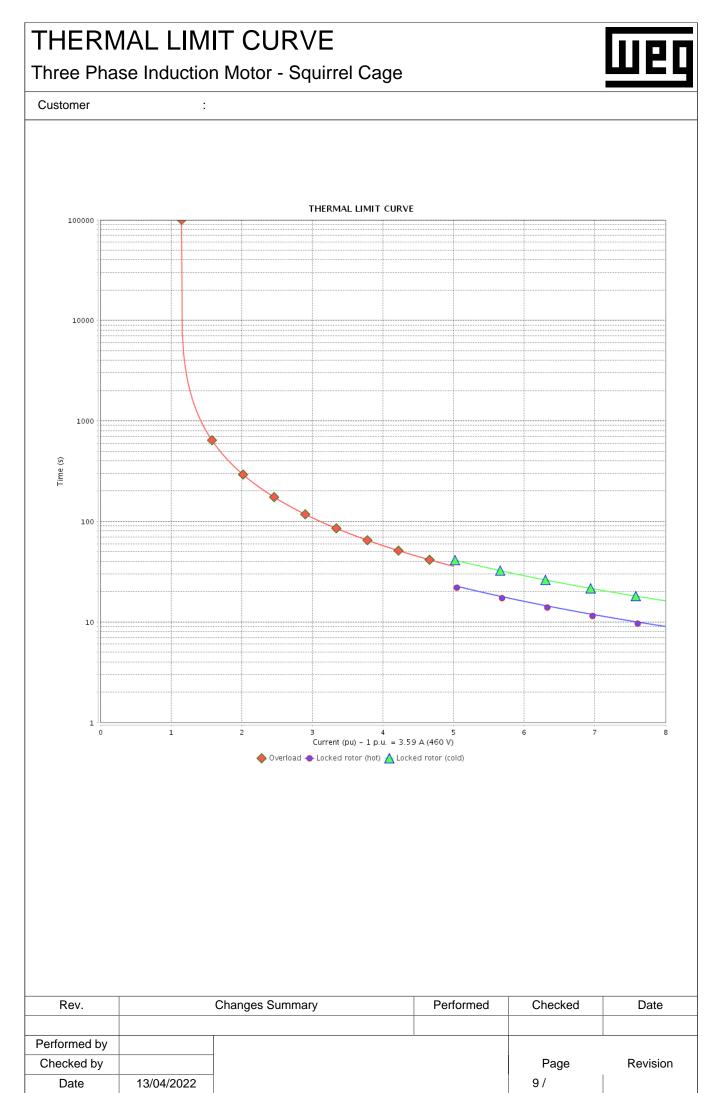


Customer

| Product line                                       | : JM Pump NEMA Premium<br>Efficiency Three-Phase |                                     | Product code : | 12676946                         |          |
|--|--|-------------------------------------|----------------|----------------------------------|----------|
|  |  |                                     | Catalog # :    | 00336OT3E                        | 145JM-S  |
|  |  |                                     |                |                                  |          |
| Performance  | : 230/460 V 60 Hz 2P                             |                                     |                |                                  |          |
| Rated current: 7.18/3.59 A.RC: 8.0                 |  | Moment of inertia (J)<br>Duty cycle |                | : 0.1279 sq.ft.lb<br>: Cont.(S1) |          |
| Rated torque: 4.53 ft.lbLocked rotor torque: 229 % |  | Insulation class<br>Service factor  |                | : F<br>:                         |          |
| Breakdown torque                                   | : 300 %  | Temperat                            | ure rise       | : 80 K                           |          |
| Rated speed  | : 3480 rpm                                       | Design                              |                | : B                              |          |
| Heating constant                                   |  |                                     |                |                                  |          |
| Cooling constant                                   | Ohan O   |                                     | Derferrer      | Ob las l                         | Dett     |
| Rev.   | Changes Summary                                  |                                     | Performed      | Checked                          | Date     |
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## THERMAL LIMIT CURVE

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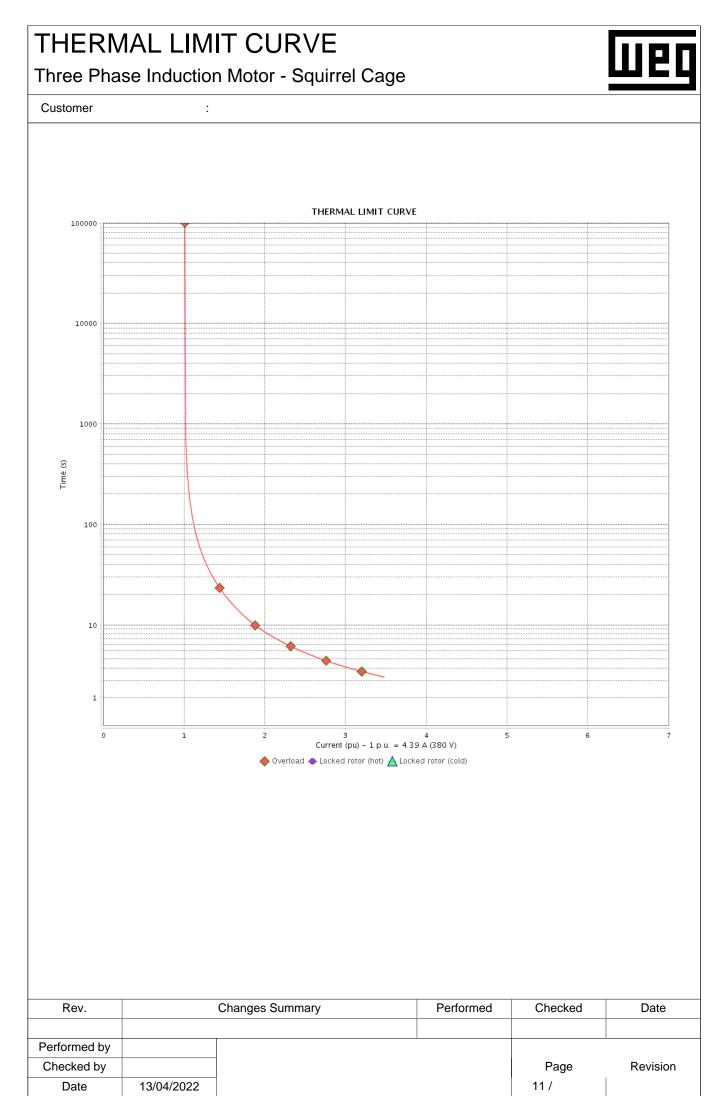
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Customer

| Product line  |            | : JM Pump NEMA Premium<br>Efficiency Three-Phase         |   | Product code : | 12676946  |          |
|---|------------|--|---|----------------|---|----------|
|   |            |  |   | Catalog # :    | 00336OT3E145JM-S  |          |
|   |            |  |   |                |   |          |
| Performance   | : 1        | 90/380 V 50 Hz 2P  |   |                |   |          |
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque |            | .78/4.39 A<br>.1<br>.58 ft.lb<br>90 %<br>29 %<br>825 rpm | Moment o<br>Duty cycle<br>Insulation<br>Service fa<br>Temperate<br>Design | class<br>ctor  | : 0.1279 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.00<br>: 105 K<br>: B |          |
| Heating constan   | t          |  |   |                |   |          |
| Cooling constan   | t          |  |   |                |   |          |
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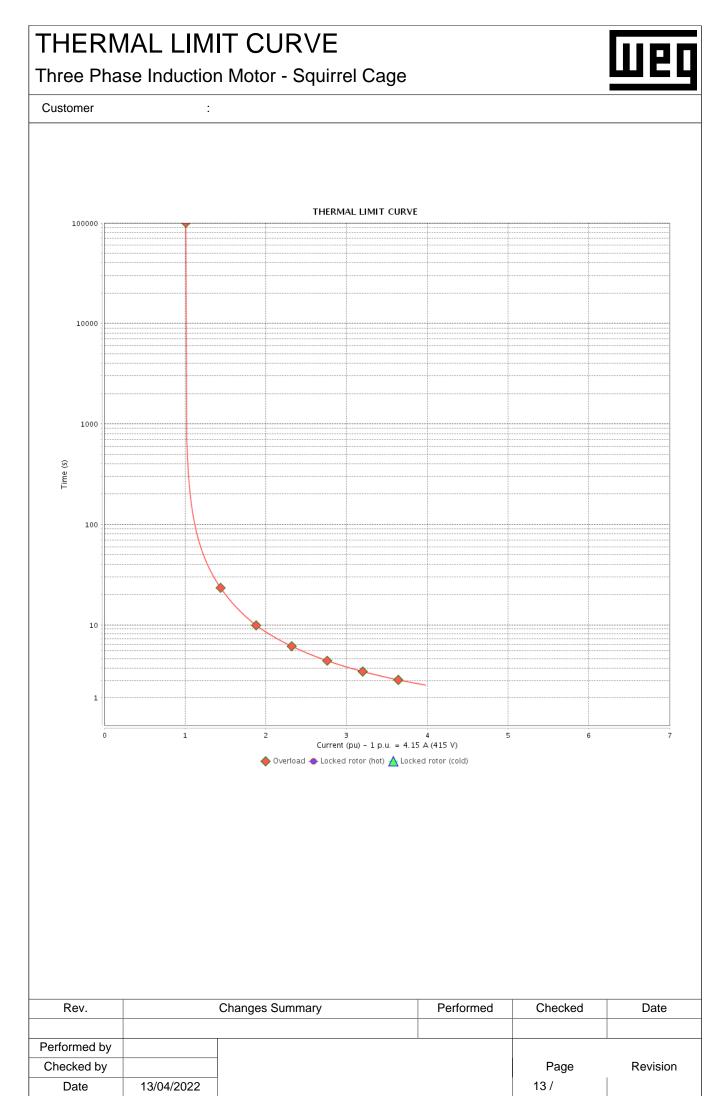
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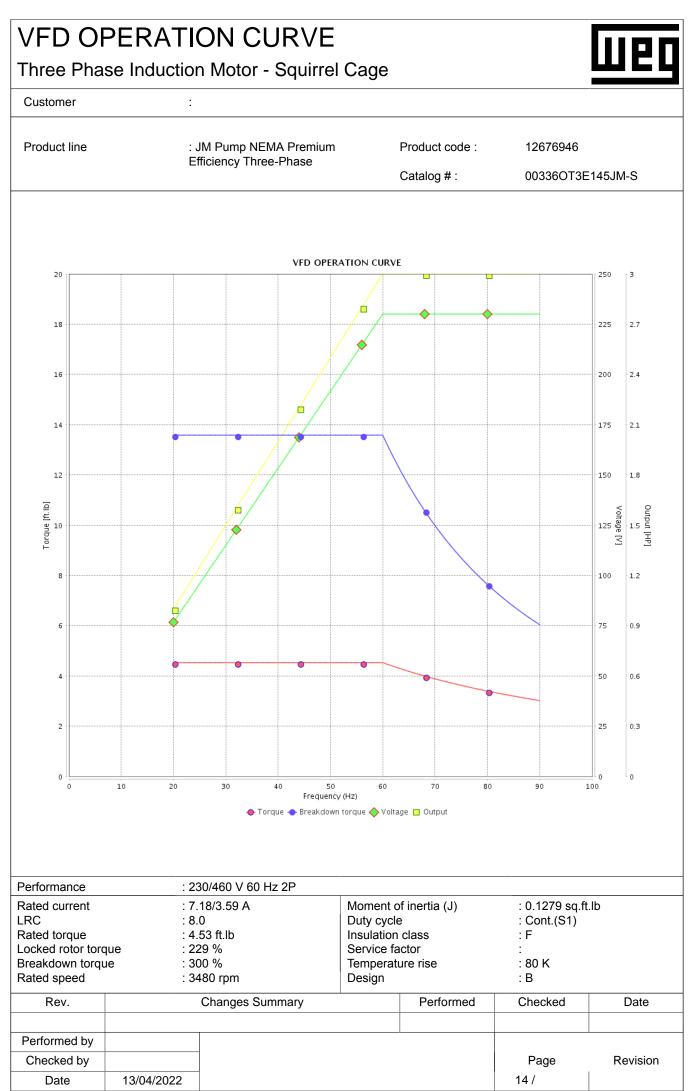


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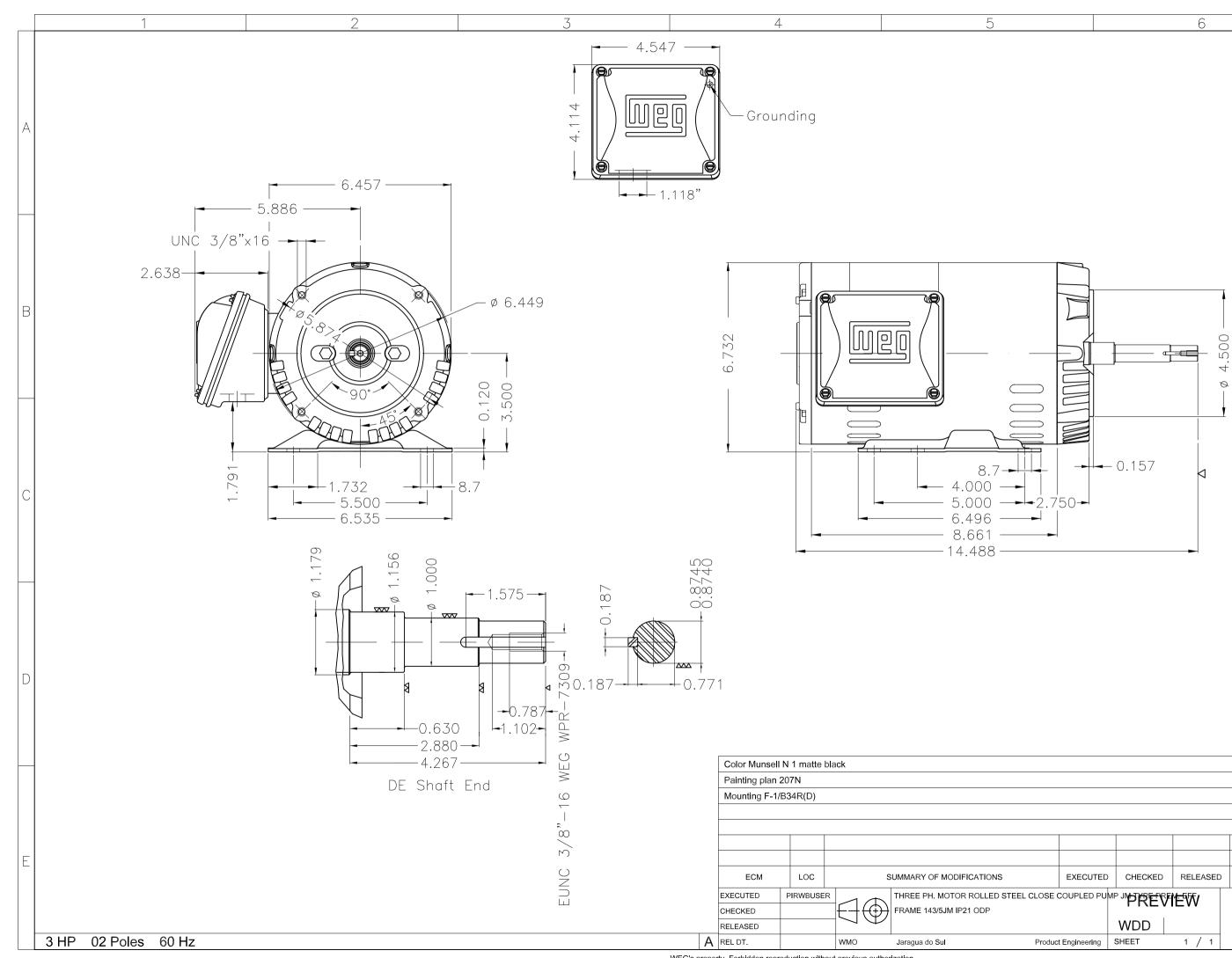
| Product line                   | ct line : JM Pump NEMA Premium<br>Efficiency Three-Phase |                                    |  | Product code :<br>Catalog # : | 12676946<br>00336OT3E145JM-S    |             |  |
|--------------------------------|--|------------------------------------|--|-------------------------------|---------------------------------|-------------|--|
|                                |  |                                    |  |                               |                                 |             |  |
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|                                |  |                                    |  |                               |                                 |             |  |
|                                |  |                                    |  |                               |                                 |             |  |
| Performance                    |  | 20/415 V 50 Hz 2P                  |  |                               |                                 |             |  |
| Rated current<br>LRC           |  |                                    | .83/4.15 A Moment of inertia (.<br>.8 Duty cycle |                               | : 0.1279 sq.ft.l<br>: Cont.(S1) | 79 sq.ft.lb |  |
|                                |  | : 5.55 ft.lb Insulatio             |  | class                         | : F                             | :F          |  |
| Locked rotor torque : 220 %    |  | Service factor<br>Temperature rise |  | : 1.00                        |                                 |             |  |
| Breakdown torqu<br>Rated speed |  | 2840 rpm                           | Design   | ure rise                      | : 105 K<br>: B                  |             |  |
| Heating constan                |  |                                    | -  |                               |                                 |             |  |
| Cooling constant               |  |                                    |  |                               |                                 |             |  |
| Rev.                           |  | Changes Summary                    |  | Performed                     | Checked                         | Date        |  |
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