## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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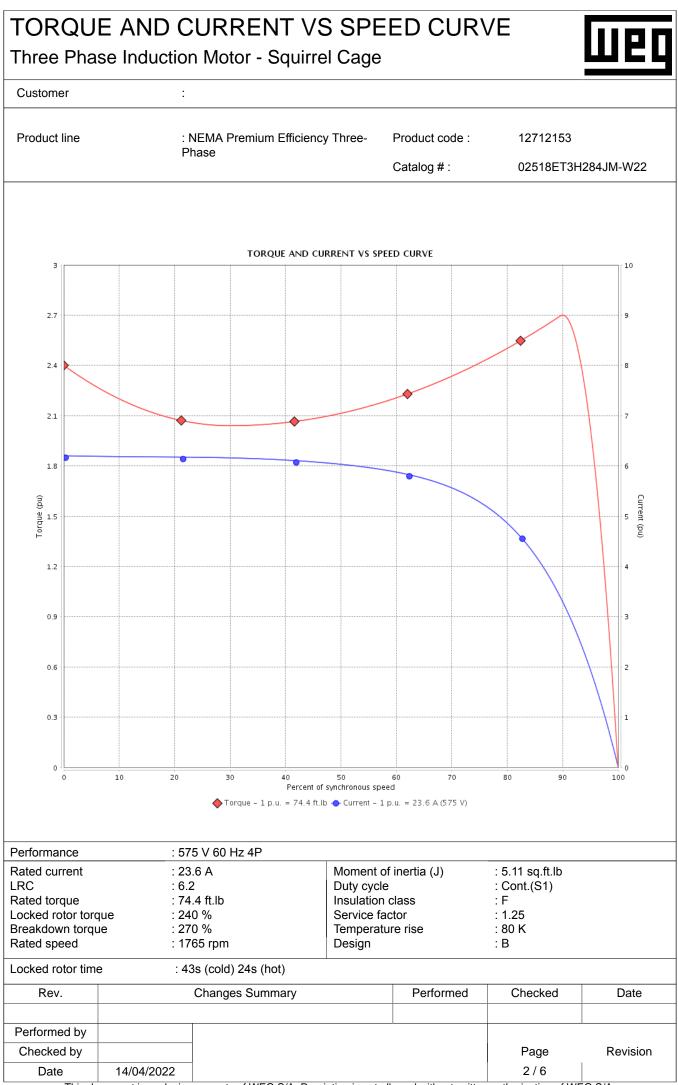
| Product line  |   | : NEN<br>Phase  |  | Im Efficiency 7      | Three-   | Product code :   | 12712153   |                |  |
|---|---|---|--|----------------------|--|--|--|----------------|--|
|   |   | Flids   | e  |                      | (  | Catalog # :  | 02518ET3H  | 1284JM-W22     |  |
| Frame<br>Output<br>Poles<br>Frequency<br>Rated voltage<br>Rated current<br>L. R. Amperes<br>LRC<br>No load current<br>Rated speed<br>Slip<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Insulation class<br>Service factor<br>Moment of inertia (J)<br>Design |   | : 4<br>: 60 F<br>: 575<br>: 23.6<br>: 146<br>: 6.2x<br>: 8.40<br>: 176<br>: 1.94<br>: 74.4<br>: 240<br>: 270<br>: F<br>: 1.25 | HP (18.5 k<br>Hz<br>V<br>A<br>(Code G)<br>A<br>5 rpm<br>k %<br>k ft.lb<br>%<br>% | W)                   | Tempera<br>Duty cyc<br>Ambien<br>Altitude<br>Protectic<br>Cooling<br>Mountin<br>Rotation<br>Noise le<br>Starting | t temperature<br>on degree<br>method<br><sup>19</sup>            | : 43s (cold) 24s (hot)<br>: 80 K<br>: Cont.(S1)<br>: -20°C to +40°C<br>: 1000 m.a.s.l.<br>: IP55<br>: IC411 - TEFC<br>: F-1<br>: Both (CW and CCW)<br>: 63.0 dB(A)<br>: Direct On Line<br>: 439 lb |                |  |
| Output  | 25%   | 50%   | 75%  | 100%                 | Foundatio  | on loads   |  |                |  |
| Efficiency (%)<br>Power Factor  | 91.7<br>0.46  | 92.4<br>0.70  | 93.0<br>0.80   | 93.6<br>0.84         | Max. tract<br>Max. com   |  | : 656 lb<br>: 1095 lb  |                |  |
|   |   |   |  |                      |  | V'Ring   |  |                |  |
| Lubrication interv<br>Lubricant amoun<br>Lubricant type<br>Notes  |   | :   |  | 0000 h<br>18 g<br>Mo | bil Polyrex  | 20000 h<br>11 g  |  |                |  |
| Lubricant amoun<br>Lubricant type   | t<br>aces and o<br>ed.<br>otor from<br>m and wit<br>veight sub<br>pocess. | the shaft e   | previous o<br>nd.<br>e of +3dB(  | 18 g<br>Mo           | These are  | 20000 h<br>11 g  |  |                |  |
| Lubricant amoun<br>Lubricant type<br>Notes<br>This revision replanust be eliminate<br>(1) Looking the m<br>(2) Measured at 1<br>(3) Approximate v<br>nanufacturing pro  | t<br>aces and o<br>ed.<br>otor from<br>m and wit<br>veight sub<br>pocess. | the shaft e<br>th tolerance<br>ject to cha  | previous o<br>nd.<br>e of +3dB(  | 18 g<br>Mo           | These are power su   | 20000 h<br>11 g<br>EM<br>e average values                        |  |                |  |
| Lubricant amoun<br>Lubricant type<br>Notes<br>This revision replanust be eliminate<br>1) Looking the m<br>2) Measured at 1<br>3) Approximate v<br>nanufacturing pro<br>4) At 100% of ful  | t<br>aces and o<br>ed.<br>otor from<br>m and wit<br>veight sub<br>pocess. | the shaft e<br>th tolerance<br>ject to cha  | previous o<br>end.<br>e of +3dB(<br>nges after                                   | 18 g<br>Mo           | These are power su   | 20000 h<br>11 g<br>EM<br>e average values<br>pply, subject to th | e tolerances stipu   | ulated in NEMA |  |

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 Date
 14/04/2022
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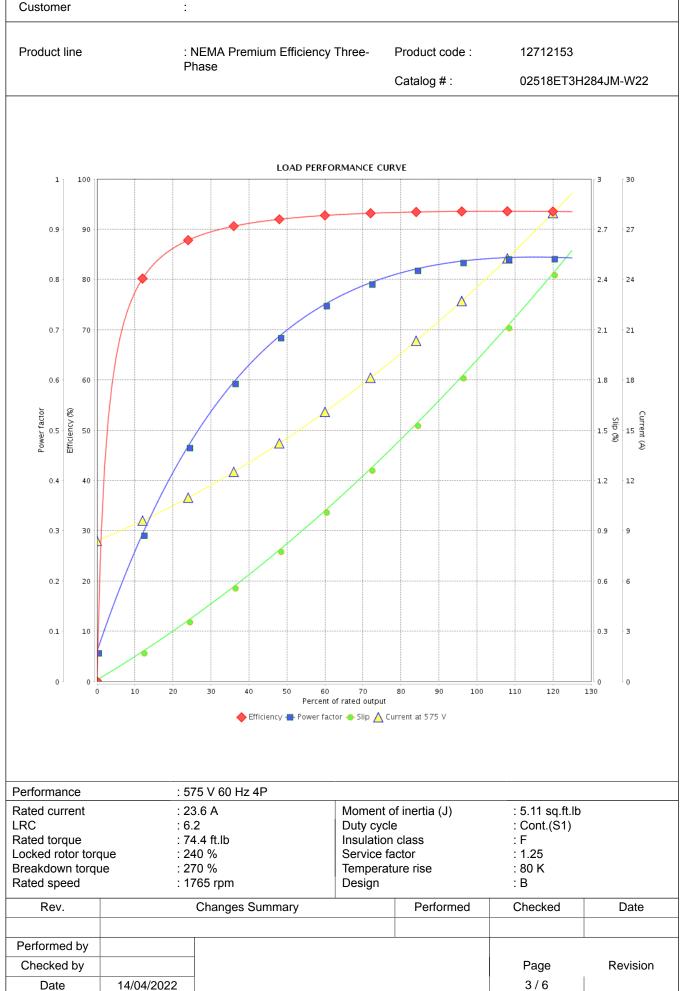
Subject to change without notice



## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

## Customer

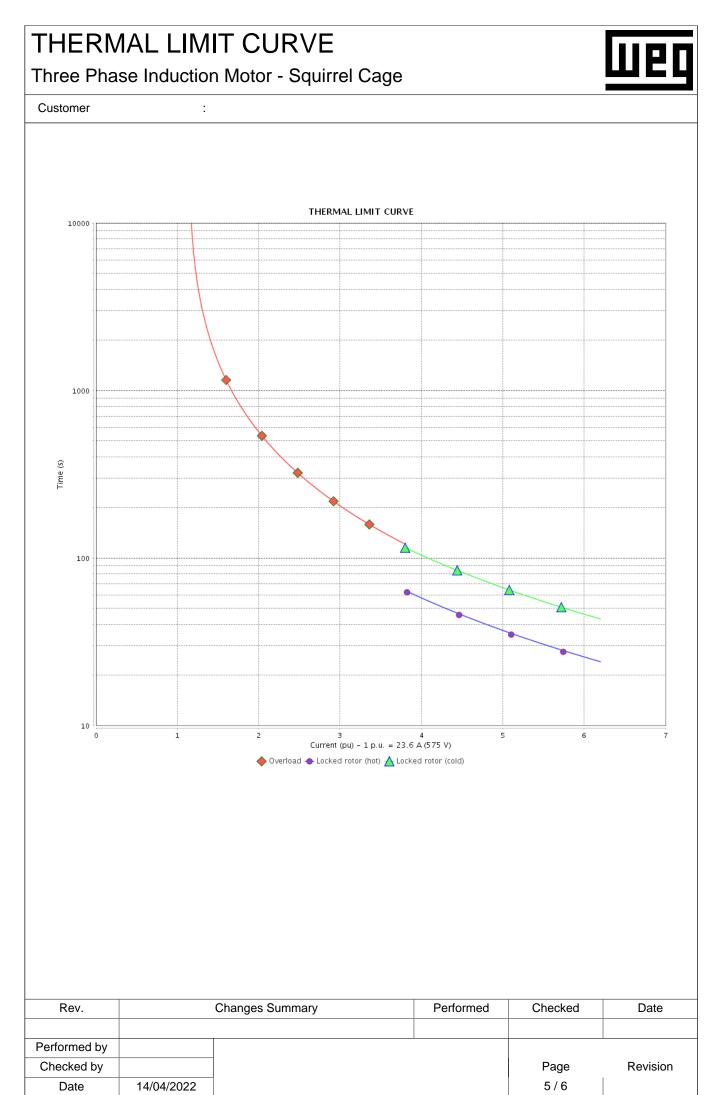


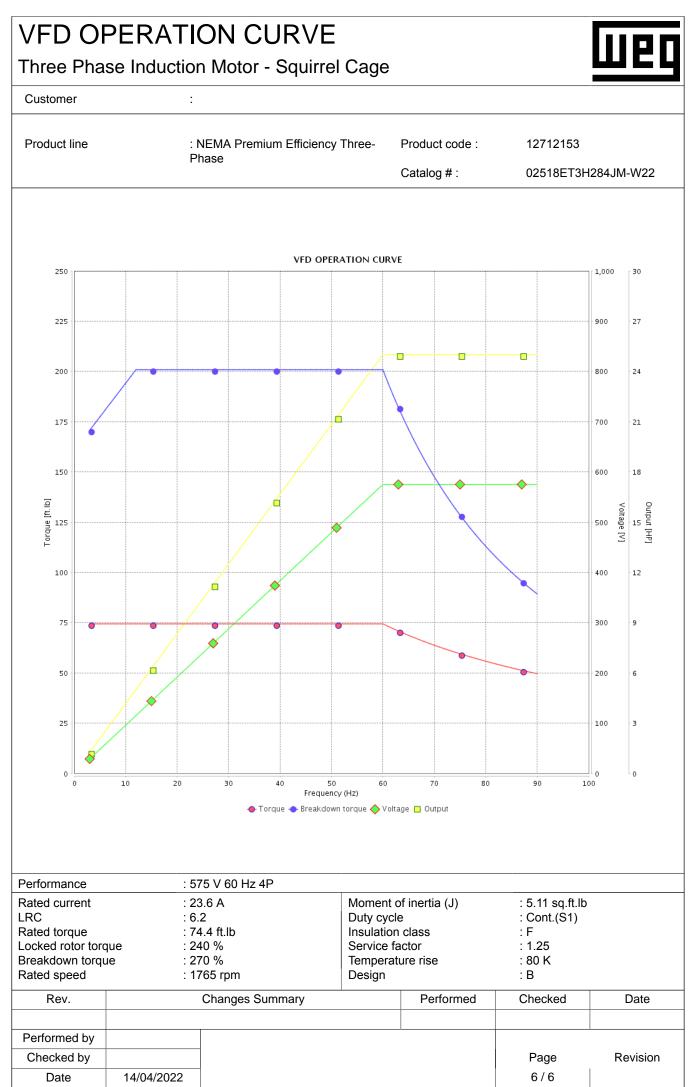
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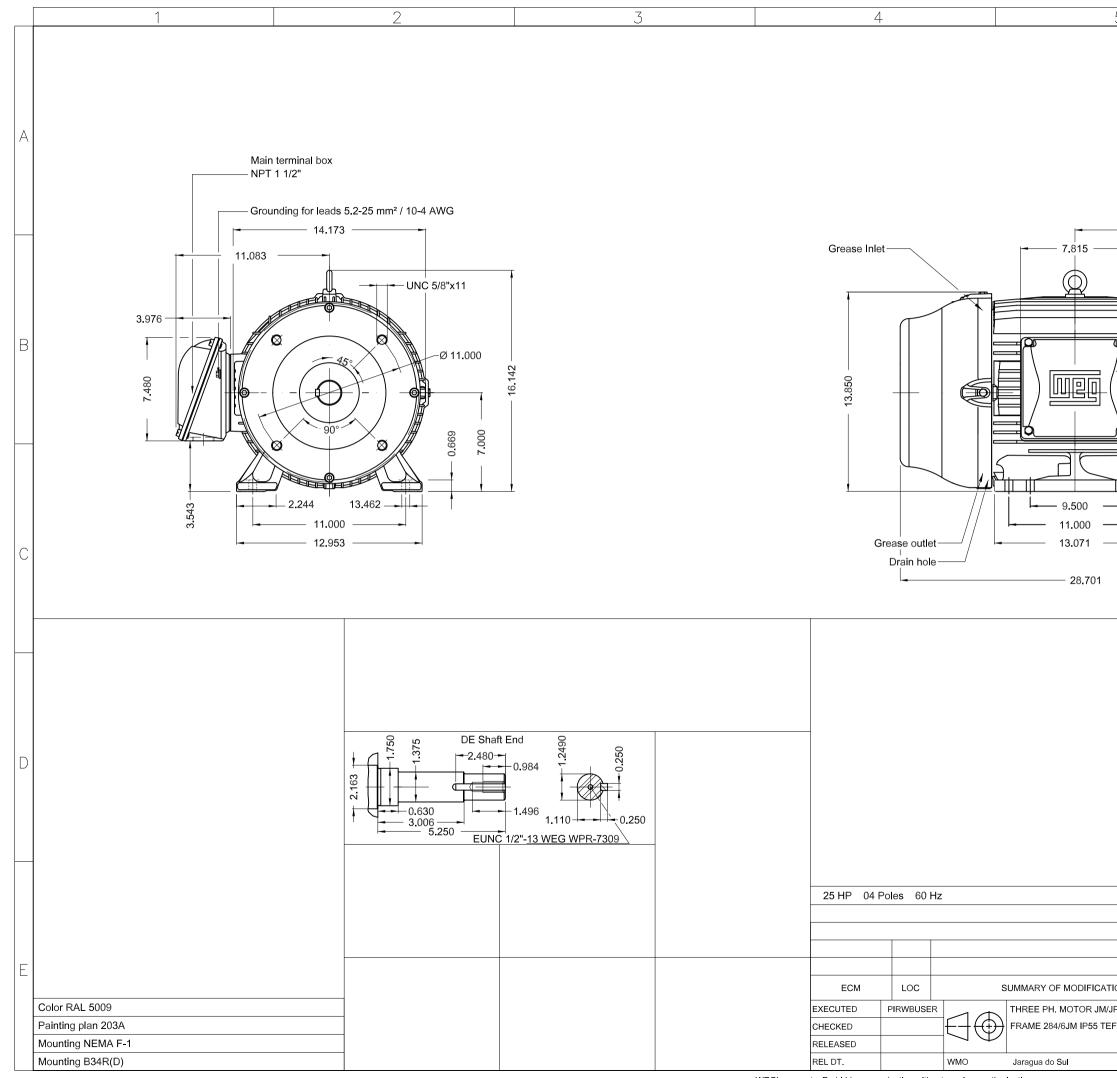
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| THERMAL L        | THERMAL LIMIT CURVE                       |                |                    |  |  |  |  |  |  |  |
|------------------|---|----------------|--------------------|--|--|--|--|--|--|--|
| Three Phase Indu | шсч                                       |                |                    |  |  |  |  |  |  |  |
| Customer         | :   |                |                    |  |  |  |  |  |  |  |
| Product line     | : NEMA Premium Efficiency Three-<br>Phase | Product code : | 12712153           |  |  |  |  |  |  |  |
|                  | Phase Catalog # :                         |                | 02518ET3H284JM-W22 |  |  |  |  |  |  |  |
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| Performance  | : 5        | 75 V 60 Hz 4P                                       |  |               |  |          |
|--|------------|---|--|---------------|--|----------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Rated speed |            | 3.6 A<br>.2<br>4.4 ft.lb<br>40 %<br>70 %<br>765 rpm | Moment of<br>Duty cycle<br>Insulation<br>Service fa<br>Temperate<br>Design | class<br>ctor | : 5.11 sq.ft.lb<br>: Cont.(S1)<br>: F<br>: 1.25<br>: 80 K<br>: B |          |
| Heating constant   |            |   |  |               |  |          |
| Cooling constant   |            |   |  |               |  |          |
| Rev. Changes Summary   |            | Changes Summary                                     |  | Performed     | Checked  | Date     |
|  |            |   |  |               |  |          |
| Performed by   |            |   |  | <u>.</u>      |  |          |
| Checked by   |            |   |  |               | Page   | Revision |
| Date   | 14/04/2022 |   |  |               | 4 / 6  |          |







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| - 10.256           | -            |               |            |          |                      |
|                    | Greas        | e Inlet       |            |          |                      |
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| /*                 | <b>f</b>     |               | - 83       |          |                      |
|                    |              | Ø 12.500      | Ø 13.583 - |          |                      |
|                    |              | Ø             | Ø<br>      |          |                      |
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|                    | 0.248        |               |            |          |                      |
| 4.750              | <u>+</u> [   |               | )          |          |                      |
|                    |              | Grease outlet |            |          |                      |
|                    |              | Drain hole    |            |          |                      |
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| IONS               | EXECUTED     | CHECKED       | RELEASED   | DATE VER |                      |
| IP/JET PUMP W22 PR | EM. EFF.     | PREVI         | EW         |          |                      |
| FC                 |              | WDD           |            | Шео      | A3                   |
| Product            | Engineering  |               | 1 / 1      |          | XME                  |
| FIGUUC             | -ingineering |               | · / '      |          | 」≍                   |

|                     | Inverter Duty |      |         |     |       | cl         | c Us ISTED FOR SAFE AREA<br>MOD.TE1BF0XON |       |      | Class I, Div 2, Gr. A, B, C and D - T3<br>Class I, Zone 2, IIC - T3<br>Class II, Div 2, Gr. F and G - T4<br>Class II, Div 2, Gr. F and G - T4<br>For use on PWM, Gr. A, B, C, D and F,<br>VT 1000:1, CT 20:1, 1,0SF, T3A |                         |     |     |                 |  |
|---------------------|---------------|------|---------|-----|-------|------------|---|-------|------|--|-------------------------|-----|-----|-----------------|--|
| 21L                 | V 575 A 23.6  |      |         |     | 5(18. | .5)        |   | Hz 6  | 0    |  |                         | T   |     |                 |  |
| NPW2<br>BRA<br>153  |               |      |         |     |       | % RPM 1770 |   |       | °55  | , JT1 , JT2 , JT3<br>L1 L2 L3<br>Δ 575V  |                         |     |     |                 |  |
| 25504<br>IN<br>2712 |               |      |         |     | %     |            |   |       |      |  |                         | L3  |     |                 |  |
| JM02<br>12<br>12    | ENCL TEFC     | DUTY | Y       | CON | Т.    |            | INS.                                      | cl. F |      | 80 к   | ₫-+6311-                | -03 | M   | DBIL POLYREX EM |  |
| 2                   | PF 0.84       |      |         | ]   | des B | 3          | CODE                                      | G     | AMB. | 40°C   | ·<br>→ 6311-<br>→ 6211- |     |     | 8 g 20000 h     |  |
|                     | SF 1.25       |      | SFA 29. | .5  |       |            |   | ALT ' | 1000 | m.a.s.l.   |                         |     | 410 | Lbs             |  |
|                     |               |      |         |     |       |            |   |       |      |  |                         |     |     |                 |  |