# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



#### Customer

| Product line   |                 | Explosion Proof NEMA  | Premiun             | n Pr   | oduct code :                                     | 1169783   | 31                   |  |  |
|--|-----------------|---|---------------------|--|--|---|----------------------|--|--|
| Frame<br>Insulation class<br>Duty cycle<br>Ambient temperature<br>Altitude<br>Protection degree  |                 | : 444/5T<br>: F<br>: Cont.(S1)<br>: -20°C to +40°C<br>: 1000 m.a.s.l.<br>: IP55 |                     | Cooling method<br>Mounting<br>Rotation <sup>1</sup><br>Starting method<br>Approx. weight <sup>3</sup><br>Moment of inertia (J) |  | : IC411 - TEFC<br>: F-1<br>: Both (CW and CCW)<br>: Direct On Line<br>: 971 kg<br>: 2.81 kgm <sup>2</sup> |                      |  |  |
| Design   | 6               | : B   |                     | Womento  |  | . 2.01 Kg   | J                    |  |  |
| Output [HP]  |                 | 150   |                     | 125 12   |  | 5   | 125                  |  |  |
| Poles  |                 | 4   |                     | 4  | 4  | -   | 4                    |  |  |
| Frequency [Hz]   |                 | 60  | 60                  |  | 50   | 0   | 50                   |  |  |
| Rated voltage [V]  |                 | 230/460   | 230/460             |  | 380 40   |   | 415                  |  |  |
| Rated current [A]  |                 | 340/170   | 340/170 169         |  | 16   | 3   | 158                  |  |  |
| L. R. Amperes [A]  |                 | 2210/1105   |                     |  | 114  | 1141 1185   |                      |  |  |
| LRC [A]  |                 | 6.5x(Code G)  |                     |  | 7.0x(Co  | ode H)  | 7.5x(Code H)         |  |  |
| No load current [A]  |                 | 108/54.0  |                     |  | 56   |   | 59.0                 |  |  |
| Rated speed [RPN   |                 | 1783  | 1483                |  | 148  |   | 1487                 |  |  |
| Slip [%]   |                 | 0.94  | 1.13                |  | 0.9  |   | 0.87                 |  |  |
| Rated torque [kgfm]  |                 | 61.1  |                     | 61.2   | 61   |   | 61.0                 |  |  |
| Locked rotor torque [%]  |                 | 200   | 190                 |  | 21   |   | 229                  |  |  |
| Breakdown torgue [%]   |                 | 220   | 220                 |  | 25   |   | 270                  |  |  |
| Service factor   |                 | 1.15  |                     |  | 1.0  |   | 1.00                 |  |  |
| Temperature rise   |                 | 80 K  |                     |  | 80   |   | 80 K                 |  |  |
| Locked rotor time  |                 | 66s (cold) 37s (hot)  |                     |  |  |   | 68s (cold) 38s (hot) |  |  |
| Noise level <sup>2</sup>   |                 | 76.0 dB(A)  |                     | 2.0 dB(A)  | 72.0 c   |   | 72.0 dB(A)           |  |  |
|  | 25%             |   |                     | <u>\</u>   |  |   | \- '/                |  |  |
|  | 50%             | 95.0  | 94.5                |  | 95   | .0  | 94.5                 |  |  |
| Efficiency (%)   | 75%             | 95.8  |                     | 95.0   | 95   |   | 95.0                 |  |  |
|  | 100%            | 95.8  | 95.0                |  | 95   |   | 95.4                 |  |  |
|  | 25%             | -   |                     |  |  |   |                      |  |  |
| <b>D -</b> ·   | 50%             | 0.72  |                     | 0.72   | 0.6  | 69  | 0.67                 |  |  |
| Power Factor   | 75%             | 0.81  |                     | 0.81   | 0.7  |   | 0.78                 |  |  |
|  | 100%            | 0.85  |                     | 0.85   | 0.8  |   | 0.83                 |  |  |
|  |                 | Drive end Non dr  | rive end            | 1  |  |   |                      |  |  |
| Bearing type<br>Sealing  |                 | : Viton Vito  |                     |  | Max. traction: 955 kgfMax. compression: 1926 kgf |   |                      |  |  |
| Lubrication interval<br>Lubricant amount<br>Lubricant type   |                 |   | 569 h<br>34 g<br>=M |  |  |   |                      |  |  |
| Notes<br>USABLE @208V  | 376A SF 1.0     |   |                     | <u> </u>   |  |   |                      |  |  |
| <ul> <li>This revision replaces and cancel the previous one, which must be eliminated.</li> <li>(1) Looking the motor from the shaft end.</li> <li>(2) Measured at 1m and with tolerance of +3dB(A).</li> <li>(3) Approximate weight subject to changes after manufacturing process.</li> <li>(4) At 100% of full load.</li> </ul> |                 |   |                     | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.       |  |   |                      |  |  |
| Rev.   | Changes Summary |   |                     |  | Performed  | Checked   | Date                 |  |  |
| Performed by   |                 |   |                     |  |  |   |                      |  |  |
| Checked by   |                 |   |                     |  |  | Page  | Revision             |  |  |
|  | 22/10/2020      | <u> </u>  |                     |  |  | 1/6   |                      |  |  |
| Date   | 22/10/2023      | 3   |                     |  |  |   |                      |  |  |

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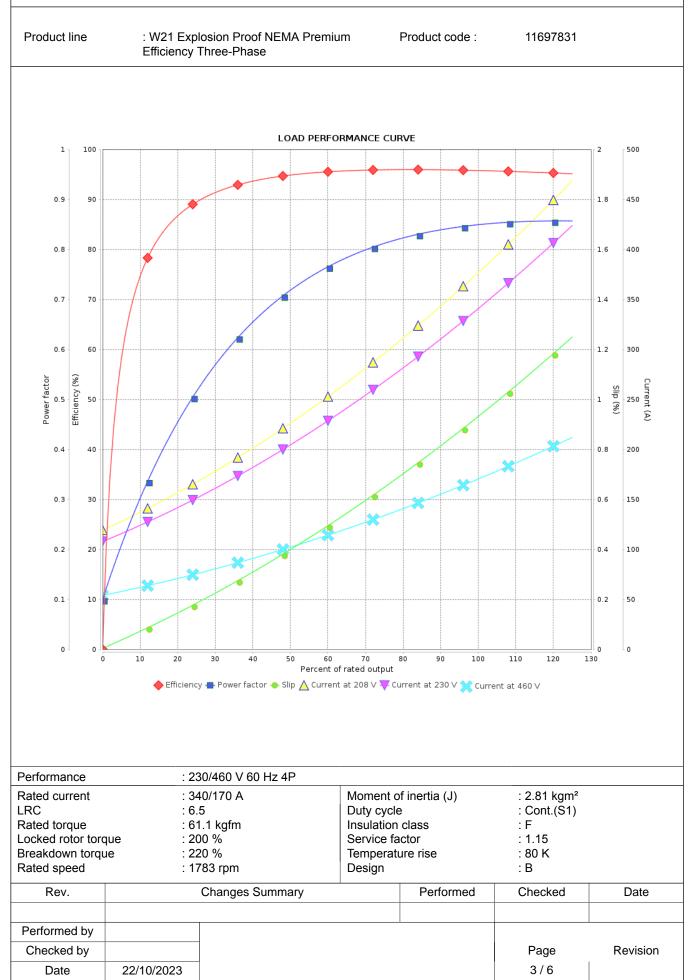
| ID                      | Application | Туре                 | Quantity  | Sensing Temperature |          |
|-------------------------|-------------|----------------------|-----------|---------------------|----------|
| 1                       | Winding     | Thermostat - 2 wires | 1 x Phase | 1:                  | 55 °C    |
|                         |             |                      |           |                     |          |
|                         |             |                      |           |                     |          |
|                         |             |                      |           |                     |          |
|                         |             |                      |           |                     |          |
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| rformed by<br>necked by |             |                      |           | Page                | Revision |
| Date                    | 22/10/2023  |                      |           | 2/6                 | 1001001  |



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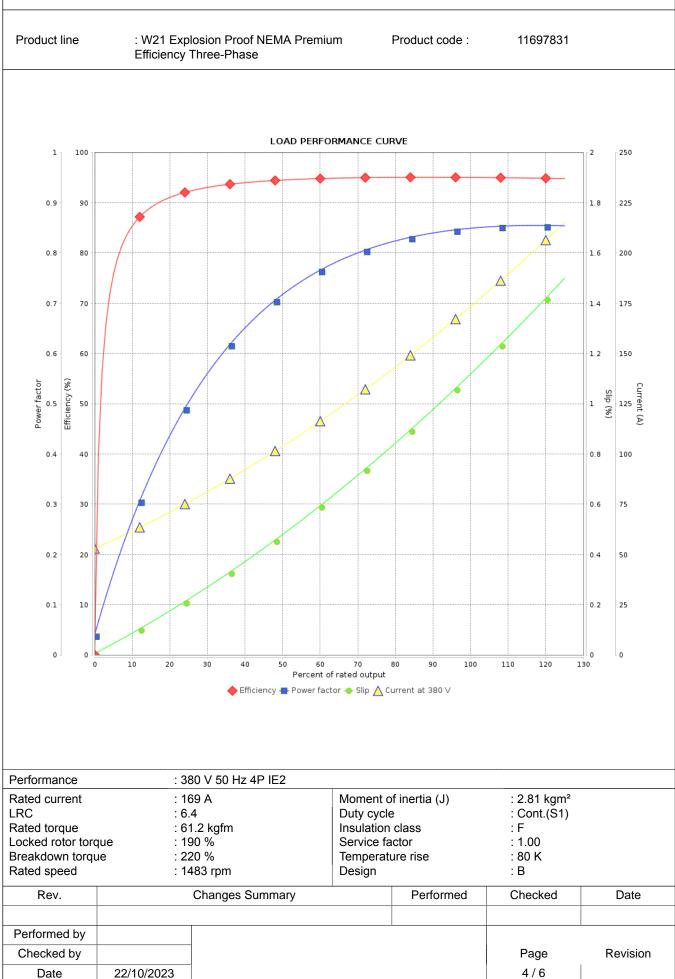
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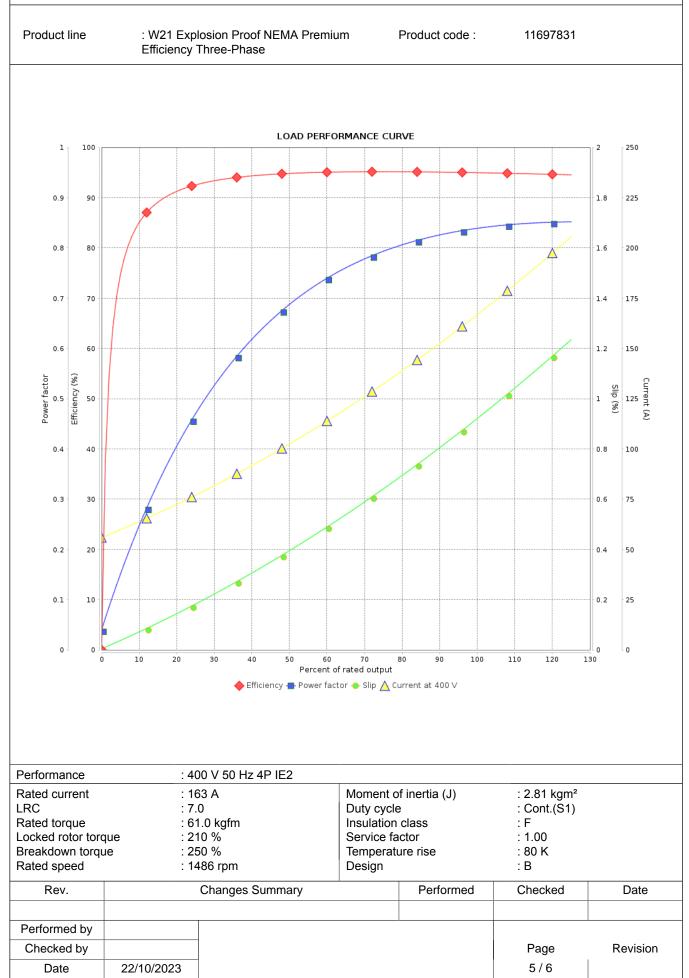


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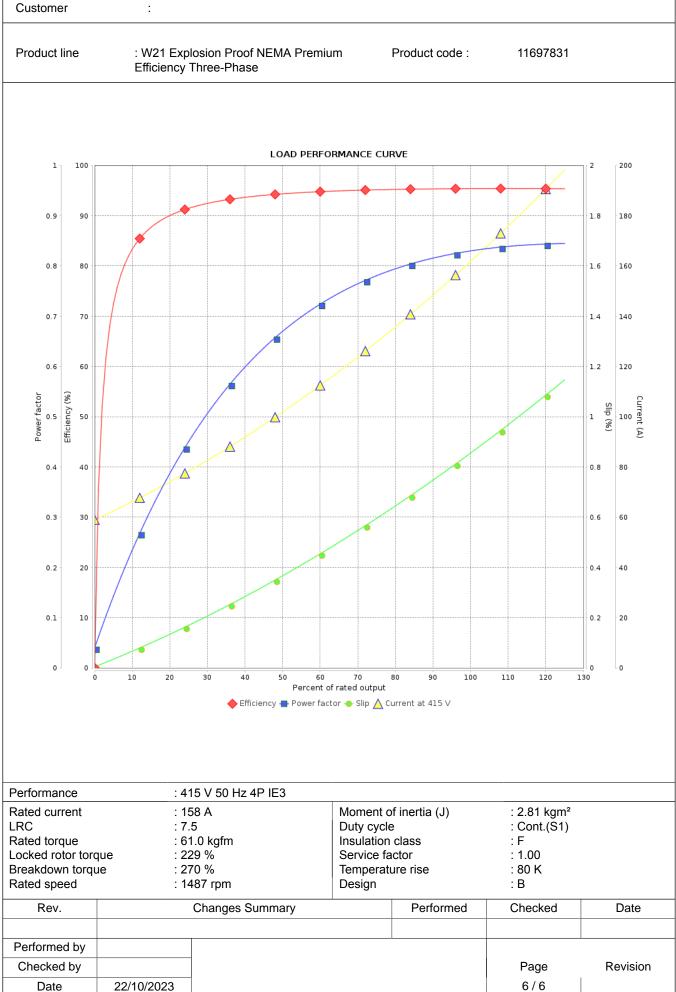
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