### **DATA SHEET**

Checke



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 13181241 Frame : 586/7T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1840 kg Altitude Protection degree : 13.8 kgm<sup>2</sup> : IP55 Moment of inertia (J) Design : B Output [HP] 350 300 300 300 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 842/421 431 414 410 L. R. Amperes [A] 5052/2526 2414 2567 2706 LRC [A] 6.0x(Code G) 5.6x(Code F) 6.2x(Code G) 6.6x(Code H) No load current [A] 340/170 165 175 185 Rated speed [RPM] 1192 992 993 994 Slip [%] 0.67 0.80 0.70 0.60 Rated torque [kgfm] 213 219 219 219 Locked rotor torque [%] 190 180 210 229 Breakdown torque [%] 210 200 220 240 Service factor 1.15 1.15 1.15 1.15 105 K Temperature rise 80 K 80 K 80 K Locked rotor time 52s (cold) 29s (hot) 45s (cold) 25s (hot) 45s (cold) 25s (hot) 45s (cold) 25s (hot) Noise level<sup>2</sup> 77.0 dB(A) 73.0 dB(A) 73.0 dB(A) 73.0 dB(A) 25% 50% 95.4 95.4 95.4 95.0 Efficiency (%) 75% 95.8 95.8 95.8 95.4 100% 95.8 95.8 95.8 95.8 25% 50% 0.67 0.68 0.64 0.61 Power Factor 75% 0.77 0.78 0.75 0.73 0.81 0.80 0.78 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.0 5.0 5.0 5.0 P2 (0,5;1,0) 3.7 3.7 3.7 3.7 P3 (0,25;1,0) 3.0 3.0 3.0 3.0 P4 (0,9;0,5) 3.0 Losses (%) 3.0 3.0 3.0 P5 (0,5;0,5) 2.0 2.0 2.0 2.0 P6 (0,5;0,25) 1.6 1.6 1.6 1.6 P7 (0,25;0,25) 0.9 0.9 0.9 0.9 Non drive end Foundation loads Drive end NU-322 C3 6319 C3 Bearing type Max. traction : 2679 kgf Sealing Taconite Taconite Max. compression : 4519 kgf Labyrinth Labyrinth 13000 h 7000 h Lubrication interval Lubricant amount 60 g 45 g Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). **Changes Summary** Performed Checked Date Rev. Performed by

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## DATA SHEET

Checked by

Date

13/01/2024



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| Customer              | :                                  |           |         |             |
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Page

2/7

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| Three Pha         | Three Phase Induction Motor - Squirrel Cage |                 |           |         |          |  |
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| Customer          | :   |                 |           |         |          |  |
|                   |   | Space heater in | formation |         |          |  |
| Voltage: 200 - 24 | 40 V  |                 |           |         |          |  |
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| Checked by        |   |                 |           | Page    | Revision |  |
| Date              | 13/01/2024                                  |                 |           | 3/7     |          |  |

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

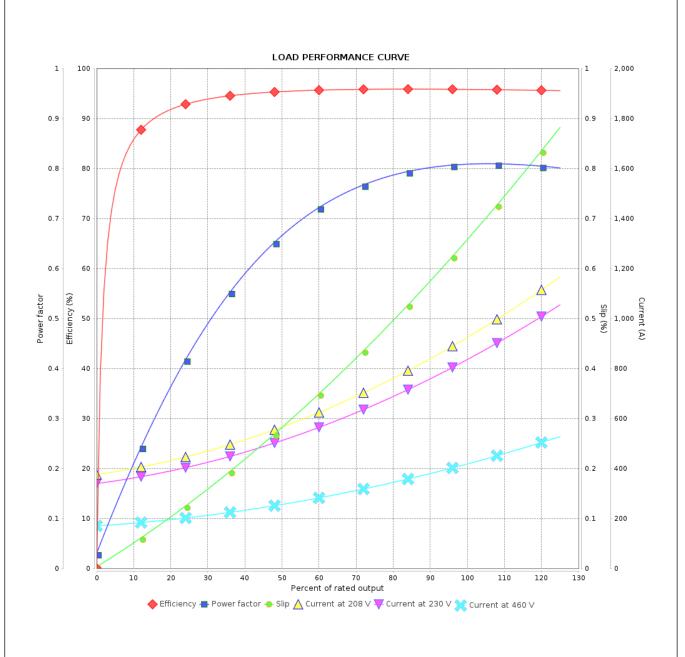
Product code:

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Phase

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Date



| Performance  | : 230/460 V 60 Hz 6P   |  |           |  |          |
|--|--|--|-----------|--|----------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Rated speed | : 842/421 A<br>: 6.0<br>: 213 kgfm<br>: 190 %<br>: 210 %<br>: 1192 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design |           | : 13.8 kgm²<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K<br>: B |          |
| Rev.   | Changes Summary  |  | Performed | Checked  | Date     |
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4/7

### Three Phase Induction Motor - Squirrel Cage



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5/7

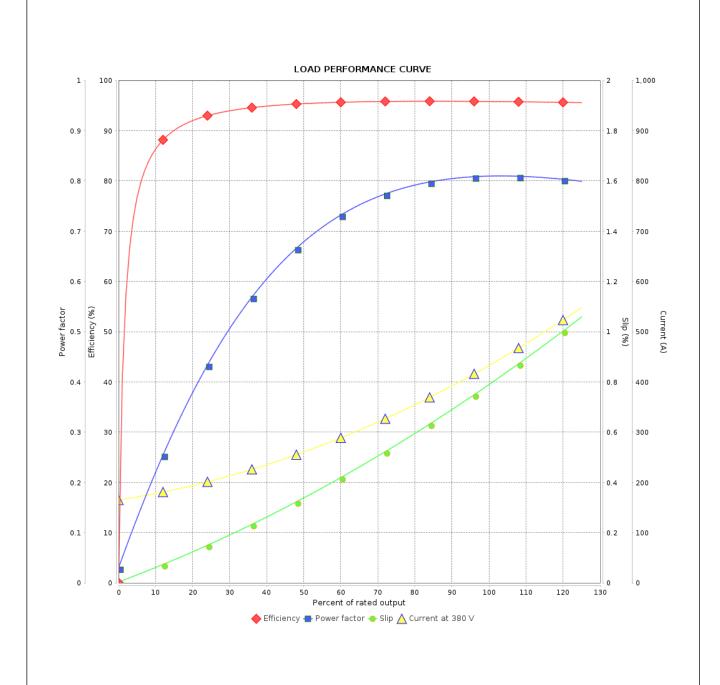
Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

Phase

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Date



| Performance  | : 380 V 50 Hz 6P IE3  |  |           |   |          |
|--|---|--|-----------|---|----------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque<br>Rated speed | : 431 A<br>: 5.6<br>: 219 kgfm<br>: 180 %<br>: 200 %<br>: 992 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design |           | : 13.8 kgm²<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 105 K<br>: B |          |
| Rev.   | Changes Summary   |  | Performed | Checked   | Date     |
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

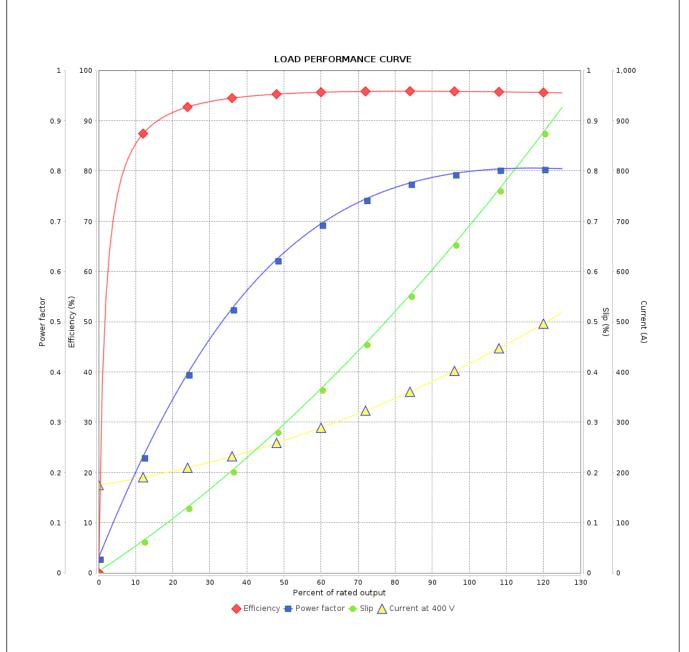
Product code:

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13/01/2024

Date



| Performance   | : 400 V 50 Hz 6P IE3                                 |   |           |   |          |
|---|--|---|-----------|---|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque | : 414 A<br>: 6.2<br>: 219 kgfm<br>: 210 %<br>: 220 % | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise |           | : 13.8 kgm²<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K |          |
| Rated speed  Rev.   | : 993 rpm<br>Changes Summary                         | Design  | Performed | : B<br>Checked  | Date     |
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6/7

### Three Phase Induction Motor - Squirrel Cage

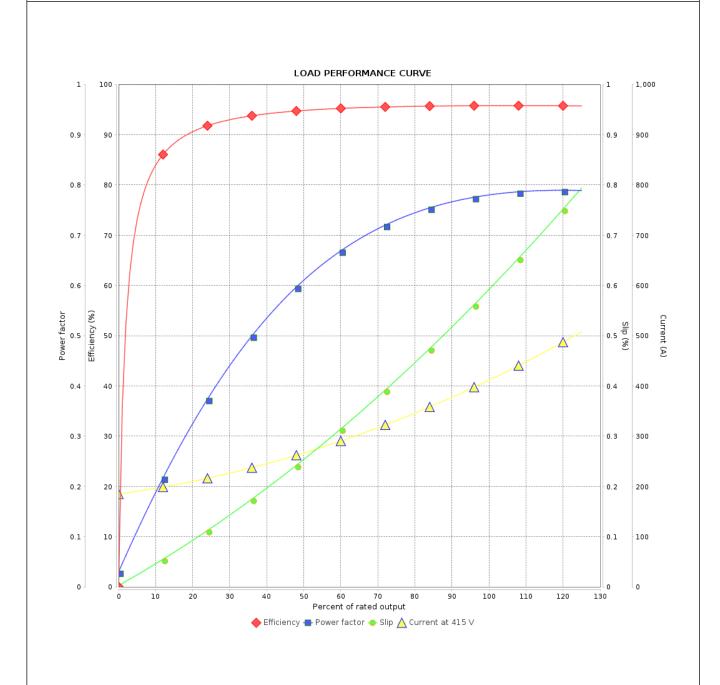


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Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

Phase



| Performance         | : 4        | 115 V 50 Hz 6P IE3 |            |                       |             |          |
|---------------------|------------|--------------------|------------|-----------------------|-------------|----------|
| Rated current       | : 4        | 110 A              | Moment o   | Moment of inertia (J) |             |          |
| LRC                 | : 6        | 3.6                | Duty cycle | )                     | : Cont.(S1) |          |
| Rated torque        | : 2        | 219 kgfm           | Insulation | class                 | : F         |          |
| Locked rotor torque | e : 2      | 229 %              | Service fa | ctor                  | : 1.15      |          |
| Breakdown torque    | : 2        | 240 %              | Temperati  | Temperature rise      |             |          |
| Rated speed         | : 9        | 994 rpm            | Design     |                       | : B         |          |
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| Date                | 13/01/2024 |                    |            |                       | 7/7         |          |