### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12744764 Three-Phase Frame : 284/6TC Cooling method : IC411 - TEFC Insulation class Mounting : F-1 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> : 195 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.3448 kgm<sup>2</sup> Design : B Output [HP] 15 15 15 15 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 40.1/20.0 23.9 23.0 22.4 L. R. Amperes [A] 220/110 103 110 114 LRC [A] 5.5x(Code G) 4.3x(Code E) 4.8x(Code F) 5.1x(Code F) No load current [A] 20.0/10.0 9.80 10.5 11.5 Rated speed [RPM] 880 720 725 725 3.33 Slip [%] 2.22 4.00 3.33 Rated torque [kgfm] 12.4 15.1 15.0 15.0 Locked rotor torque [%] 220 150 170 190 Breakdown torque [%] 229 200 200 220 Service factor 1.25 1.00 1.00 1.15 105 K Temperature rise 80 K 105 K 105 K Locked rotor time 39s (cold) 22s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) Noise level<sup>2</sup> 54.0 dB(A) 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 25% 50% 85.5 88.0 88.0 88.0 Efficiency (%) 75% 90.0 88.5 88.5 88.5 100% 89.5 88.6 88.6 88.6 25% 50% 0.61 0.66 0.62 0.59 Power Factor 75% 0.71 0.75 0.73 0.70 0.77 0.79 0.78 0.77 100% Losses at normative operating points (speed;torque), in percentage of rated output power 12.5 P1 (0,9;1,0) 12.5 11.4 12.5 P2 (0,5;1,0) 9.9 10.8 10.8 10.8 P3 (0,25;1,0) 10.2 9.3 10.2 10.2 P4 (0,9;0,5) 6.2 6.2 6.2 Losses (%) 5.6 P5 (0,5;0,5) 4.4 4.4 4.4 4.1 P6 (0,5;0,25) 2.8 3.1 3.1 3.1 P7 (0,25;0,25) 2.1 2.3 2.3 2.3 Non drive end Foundation loads Drive end Bearing type 6311 C3 6211 C3 Max. traction : 375 kgf Sealing V'Ring V'Ring Max. compression : 570 kgf 20000 h Lubrication interval 20000 h Lubricant amount 18 q 11 g Mobil Polyrex EM Lubricant type 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 MG-1. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

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Date

# DATA SHEET



| Three Pha             | se Induction Motor - Squirrel Cage |           |         | ШЕЦ  |
|-----------------------|------------------------------------|-----------|---------|------|
| Customer              | :                                  |           |         |      |
| Notes<br>USABLE @208\ | √ 42.9A SF 1.15 SFA 49.3A          |           |         |      |
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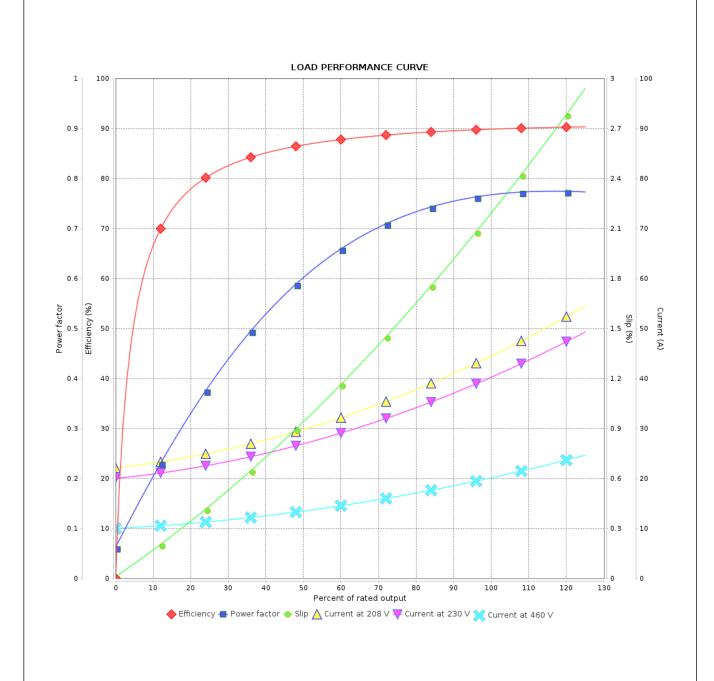
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12744764

Three-Phase



| Performance   | : 230/460 V 60 Hz 8P  |   |           |   |          |
|---|---|---|-----------|---|----------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor torque<br>Breakdown torque | : 40.1/20.0 A<br>: 5.5<br>: 12.4 kgfm<br>: 220 %<br>: 229 % | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise |           | : 0.3448 kgm²<br>: Cont.(S1)<br>: F<br>: 1.25<br>: 80 K |          |
| Rated speed Rev.  | : 880 rpm  Changes Summary                                  | Design  | Performed | : B<br>Checked  | Date     |
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### Three Phase Induction Motor - Squirrel Cage



Customer :

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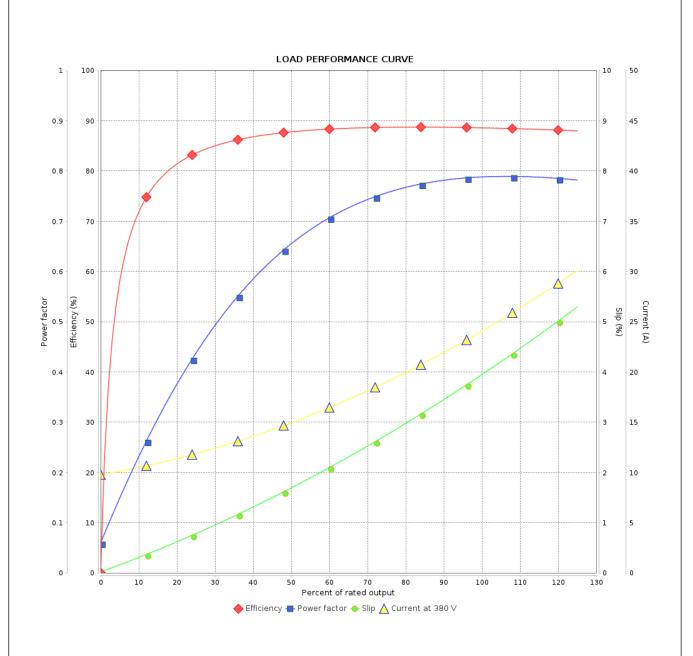
Date

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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12744764



| Performance   | : 3                             | 80 V 50 Hz 8P IE3                                 |   |           |                   |      |  |
|---|---------------------------------|---|---|-----------|-------------------|------|--|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor tord<br>Breakdown torqu<br>Rated speed | : 4<br>: 1<br>que : 1<br>ue : 2 | 3.9 A<br>.3<br>5.1 kgfm<br>50 %<br>00 %<br>20 rpm | Duty cycle : Con<br>Insulation class : F<br>Service factor : 1.00 |           | : 1.00<br>: 105 K | (S1) |  |
| Rev.  | Changes Summary                 |   | ,   | Performed | Checked           | Date |  |
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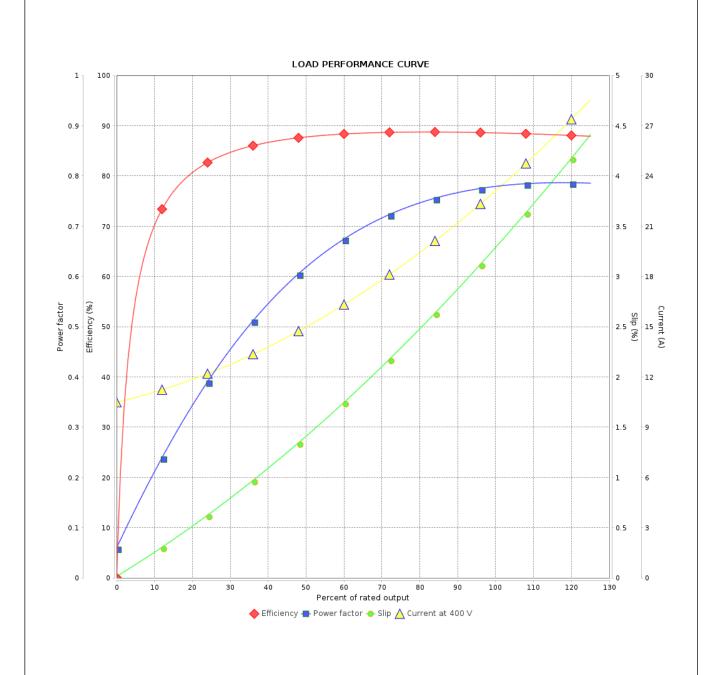
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12744764

Three-Phase



| Performance   |  | : 400 V 50 Hz 8P IE3                                   |   |           |  |      |
|---|--|--|---|-----------|--|------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque |  | : 23.0 A<br>: 4.8<br>: 15.0 kgfm<br>: 170 %<br>: 200 % | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise |           | : 0.3448 kgm²<br>: Cont.(S1)<br>: F<br>: 1.00<br>: 105 K |      |
| Rated speed   |  | : 725 rpm  | Design  |           | : B  |      |
| Rev.  |  | Changes Summary  |   | Performed | Checked  | Date |
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| Rated speed  | : 7        | zə rpm          | Design |           | : В     |          |
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### Three Phase Induction Motor - Squirrel Cage

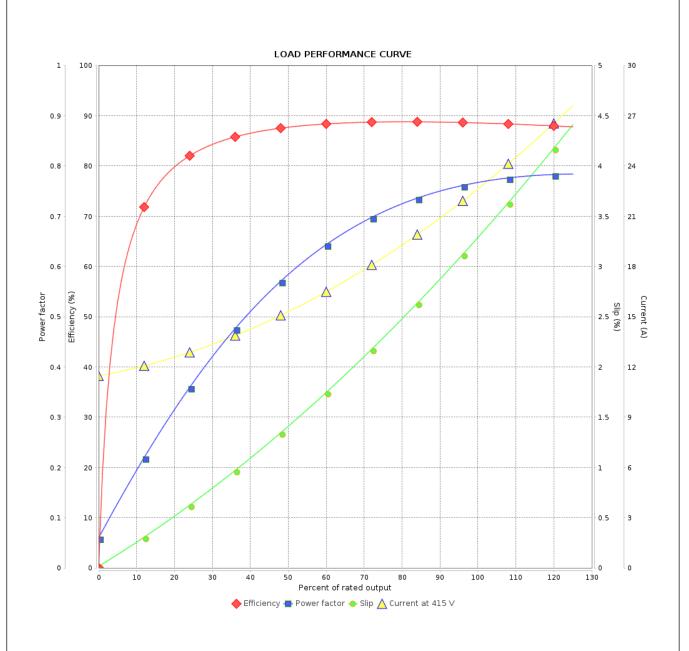


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12744764



| Performance   | : 415 V 50 Hz 8P IE3                                   |  |          |  |          |
|---|--|--|----------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque | : 22.4 A<br>: 5.1<br>: 15.0 kgfm<br>: 190 %<br>: 220 % | Moment of inering Duty cycle Insulation class Service factor Temperature ris | ;<br>;   | : 0.3448 kgm²<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 105 K |          |
| Rated speed   | : 725 rpm  | Design   |          | : B  |          |
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