DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12761613 : 182/4TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 48.2 kg Altitude : 1000 m.a.s.l. Approx. weight³ Protection degree : IP55 Moment of inertia (J) : 0.0080 kgm² Design : B Output [HP] 3 2 2 2 3 3 3 Poles 2 2 2 2 2 2 2 50 Frequency [Hz] 60 50 50 50 50 50 380 Rated voltage [V] 460 380 400 415 400 415 4.34 Rated current [A] 3.63 3.09 3.00 2.96 4.17 4.07 29.5 L. R. Amperes [A] 31.2 29.7 32.1 32.9 31.7 33.0 LRC [A] 8.6x(Code K) 9.6x(Code L) 10.7x(Code 11.1x(Code | 6.8x(Code H) | 7.6x(Code J) | 8.1x(Code J) M) N) No load current [A] 1.30 1.25 1.35 1.40 1.25 1.35 1.40 Rated speed [RPM] 3510 2930 2935 2940 2880 2890 2900 2.50 Slip [%] 2.33 2.17 2.00 4.00 3.67 3.33 Rated torque [kgfm] 0.620 0.495 0.495 0.494 0.756 0.753 0.751 Locked rotor torque [%] 250 300 340 370 210 240 260 Breakdown torque [%] 380 430 480 520 290 320 350 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 54s (cold) Locked rotor time 73s (cold) 54s (cold) 54s (cold) 54s (cold) 54s (cold) 54s (cold) 41s (hot) 30s (hot) 30s (hot) 30s (hot) 30s (hot) 30s (hot) 30s (hot) Noise level² 66.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 50% 82.5 81.0 80.6 79.7 84.0 84.0 84.0 Efficiency (%) 75% 86.5 84.5 84.5 84.1 86.5 86.5 86.5 100% 86.5 85.8 85.8 85.9 85.5 85.5 85.5 25% 50% 0.75 0.68 0.65 0.63 0.80 0.77 0.75 Power Factor 75% 0.84 0.79 0.77 0.75 0.87 0.86 0.84 0.88 100% 0.86 0.84 0.82 0.90 0.89 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.1 14.1 14.1 14.1 14.1 14.1 14.1 P2 (0,5;1,0) 9.5 9.5 9.5 9.5 9.5 9.5 9.5 P3 (0,25;1,0) 8.5 8.5 8.5 8.5 8.5 8.5 8.5 P4 (0,9;0,5) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 Losses (%) P5 (0,5;0,5) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P6 (0,5;0,25) 3.3 3.3 3.3 3.3 3.3 3.3 3.3 P7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6207 C3 6206 C3 : 31 kgf Max. traction Taconite Taconite Sealing Max. compression : 79 kgf Labyrinth Labyrinth 20000 h Lubrication interval 20000 h

Lubricant amount 7 g 5 g Lubricant type Mobil Polyrex EM

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Three Phase Induction Motor - Squirrel Cage



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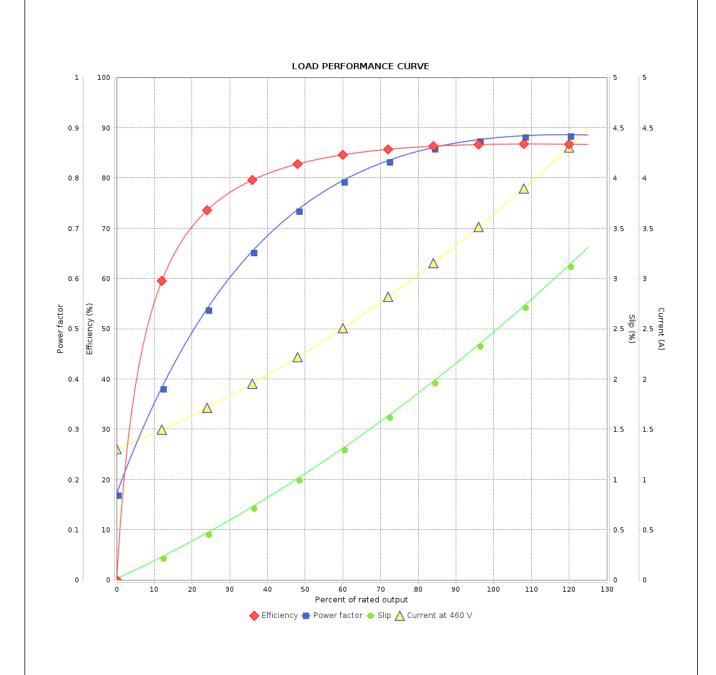
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12761613

Three-Phase



| Performance | : 460 V 60 Hz 2P | | | | | |
|--|---|---|-----------|--|------|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 3.63 A : 8.6 : 0.620 kgfm : 250 % : 380 % : 3510 rpm | : 8.6 : 0.620 kgfm : 250 % : 380 % Duty cycle Insulation class Service factor Temperature rise | | : 0.0080 kgm² : Cont.(S1) : F : 1.25 : 80 K : B | | |
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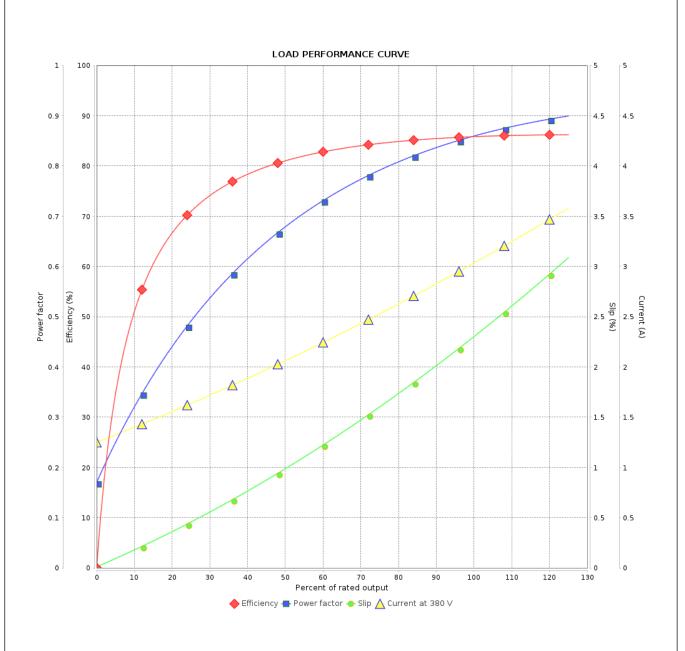


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 12761613



| Performance | : 380 V 50 Hz 2P IE3 | | | | |
|---|---|--|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 3.09 A : 9.6 : 0.495 kgfm : 300 % : 430 % : 2930 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.0080 kgm² : Cont.(S1) : F : 1.25 : 80 K : B | |
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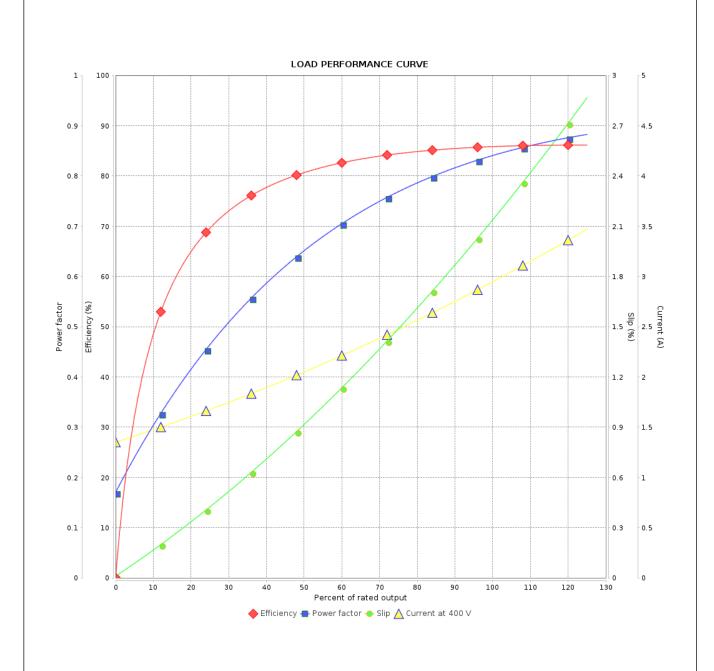
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12761613

Three-Phase



| Performance | : 400 V 50 Hz 2P IE3 | | | | |
|--|--|--|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 3.00 A : 10.7 : 0.495 kgfm : 340 % : 480 % : 2935 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.0080 kgm² : Cont.(S1) : F : 1.25 : 80 K : B | |
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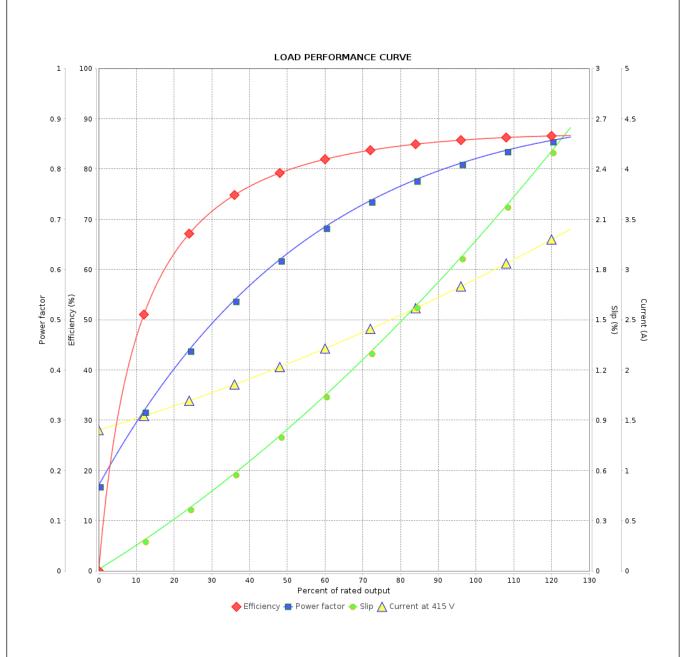
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code: 12761613



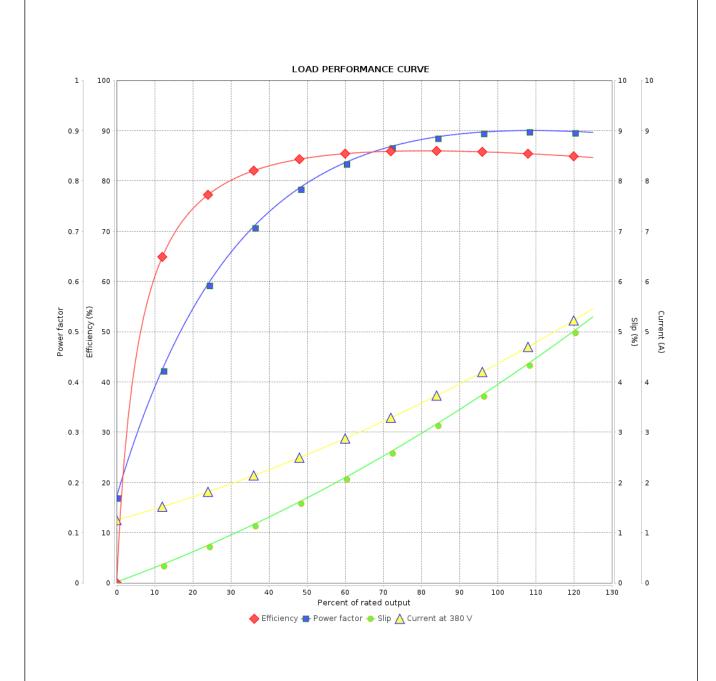
| Performance : 415 V 50 Hz 2P IE3 | | | | | | | |
|----------------------------------|------------|-----------------|------------|-----------------------|-------------|----------|--|
| Rated current : 2 | | 2.96 A | Moment o | Moment of inertia (J) | | 2 | |
| LRC | : 1 | 1.1 | Duty cycle | Э | : Cont.(S1) | | |
| Rated torque | : C |).494 kgfm | Insulation | class | : F | | |
| Locked rotor torg | jue : 3 | 370 % | Service fa | actor | : 1.25 | | |
| Breakdown torqu | ie : 5 | 520 % | Temperat | Temperature rise | | : 80 K | |
| Rated speed | : 2 | .940 rpm | Design | | : B | | |
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12761613



| Performance | : 38 | 80 V 50 Hz 2P IE2 | | | | |
|--------------------|---------------------------------|-------------------|------------------|------------------|-------------|----------|
| Rated current | ated current : 4.34 A Moment of | | of inertia (J) | : 0.0080 kgm² | 2 | |
| LRC | : 6. | .8 | Duty cycle | | : Cont.(S1) | |
| Rated torque | : 0. | .756 kgfm | Insulation class | | : F ` ´ | |
| Locked rotor torqu | | 10 % | Service fa | ictor | : 1.25 | |
| Breakdown torque | e : 29 | 90 % | Temperati | Temperature rise | | |
| Rated speed | : 28 | 880 rpm | Design | | : B | |
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Three Phase Induction Motor - Squirrel Cage



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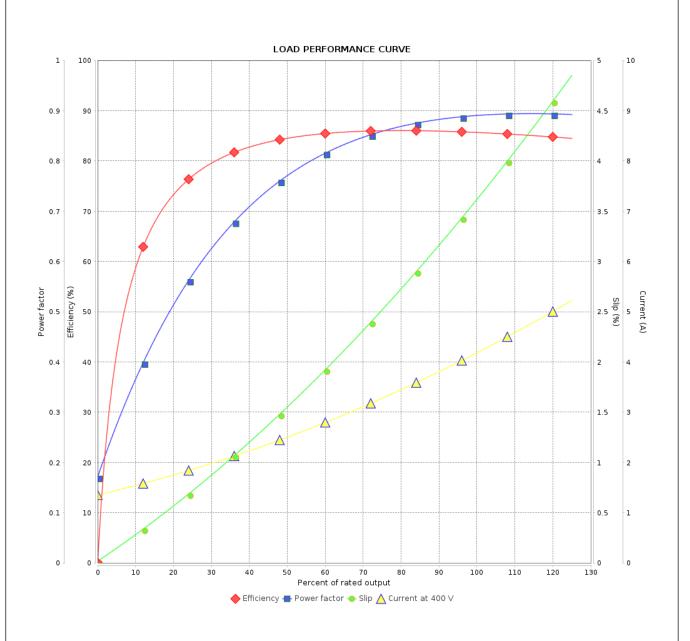
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 12761613



Performance : 400 V 50 Hz 2P IE2 : 0.0080 kgm² Rated current : 4.17 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.6 : 0.753 kgfm Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2890 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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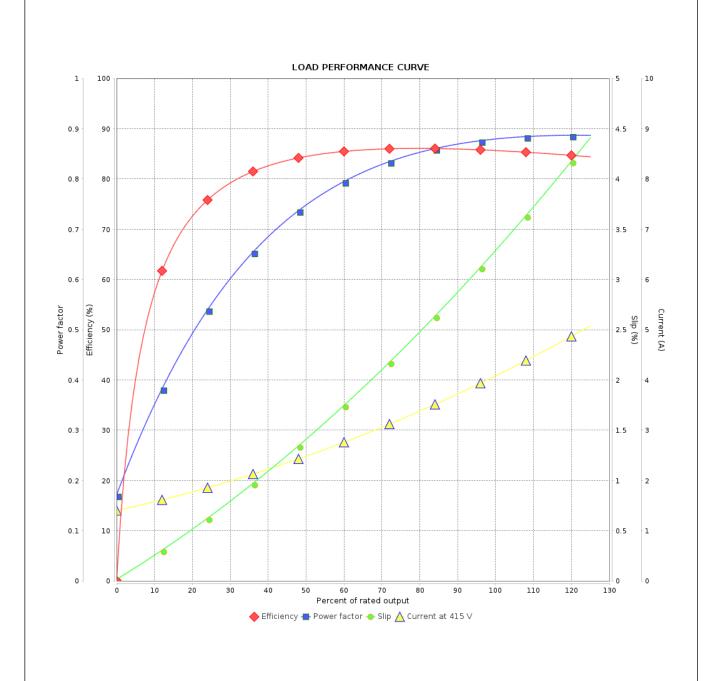
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12761613

Three-Phase



| Performance | : 415 V 50 Hz 2P IE2 | | | | |
|--|---|--|--|---------|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 4.07 A : 8.1 : 0.751 kgfm : 260 % : 350 % : 2900 rpm | Duty cycle Insulation Service fa | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | |
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