DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11355267 Three-Phase : 364/5TC 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 Approx. weight³ Altitude : 1000 m.a.s.l. : 428 kg Protection degree : IP55 Moment of inertia (J) : 0.9798 kgm² Design : B Output [HP] 75 60 60 60 75 75 75 Poles 4 4 4 4 4 4 4 60 50 50 50 50 Frequency [Hz] 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 106 174/87.2 88.5 84.9 82.7 102 98.7 L. R. Amperes [A] 541 1116/558 620 637 662 571 602 LRC [A] 6.4x(Code | 7.0x(Code H) | 7.5x(Code J) | 8.0x(Code J) | 5.1x(Code E) | 5.6x(Code F) | 6.1x(Code G) G) 35.0 No load current [A] 38.0 66.0/33.0 33.0 33.0 35.0 38.0 Rated speed [RPM] 1780 1480 1480 1485 1470 1475 1480 Slip [%] 1.11 1.33 1.33 1.00 2.00 1.67 1.33 Rated torque [kgfm] 30.6 29.4 29.4 29.3 37.0 36.9 36.8 Locked rotor torque [%] 240 210 240 260 170 200 210 200 Breakdown torque [%] 260 250 280 310 220 240 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 18s (cold) Locked rotor time 25s (cold) 18s (cold) 18s (cold) 18s (cold) 18s (cold) 18s (cold) 14s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) Noise level² 67.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 0.000 0.000 50% 94.5 93.7 93.6 93.5 94.5 94.5 94.1 Efficiency (%) 75% 95.0 94.2 94.2 94.2 94.1 94.5 94.5 100% 95.4 94.2 94.4 94.6 93.6 94.1 94.5 25% 0.00 0.00 50% 0.68 0.64 0.61 0.75 0.70 0.67 0.68 Power Factor 75% 0.78 0.78 0.75 0.73 0.82 0.80 0.78 100% 0.83 0.82 0.81 0.80 0.84 0.83 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P2 (0,5;1,0) 3.8 3.8 3.8 3.8 3.8 3.8 3.8 P3 (0,25;1,0) 3.5 3.5 3.5 3.5 3.5 3.5 3.5 P4 (0,9;0,5) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 Losses (%) P5 (0,5;0,5) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 1.1 1.1 1.1 P7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 777 kgf Max. traction Sealing Oil Seal Oil Seal Max. compression : 1205 kgf Lubrication interval 12000 h 12000 h Lubricant amount 27 g 27 q Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 19/10/2024 1/9 Date

DATA SHEET

Checked by

Date

19/10/2024



| Three Pha | se Induction Motor - Squirrel Cage | | | ШЕЦ |
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| Customer | : | | | |
| Notes USABLE @208\ | / 186A SF 1.10 SFA 205A | | | |
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Revision

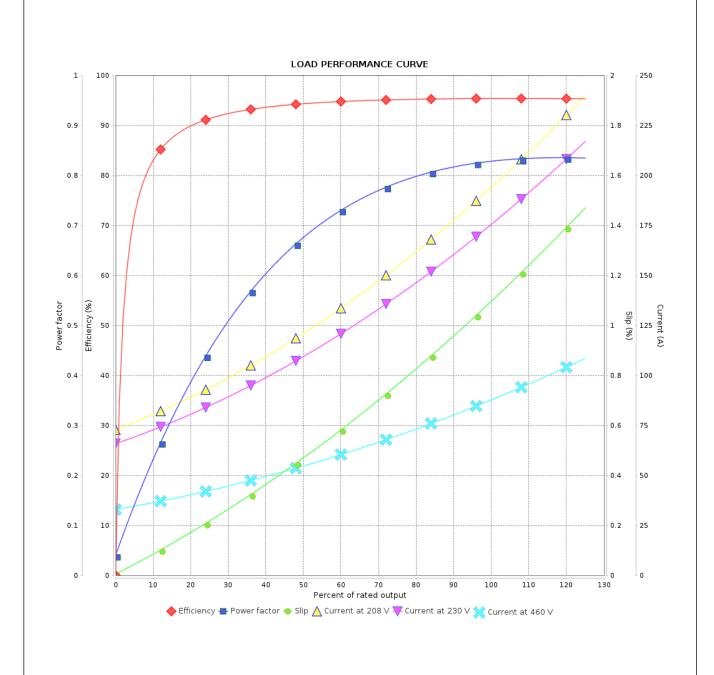
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11355267

Three-Phase



| Performance | : 230/460 V 60 Hz 4P | | | | |
|--|--|--|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 174/87.2 A : 6.4 : 30.6 kgfm : 240 % : 260 % : 1780 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.9798 kgm² : Cont.(S1) : F : 1.25 : 80 K : B | |
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Three Phase Induction Motor - Squirrel Cage

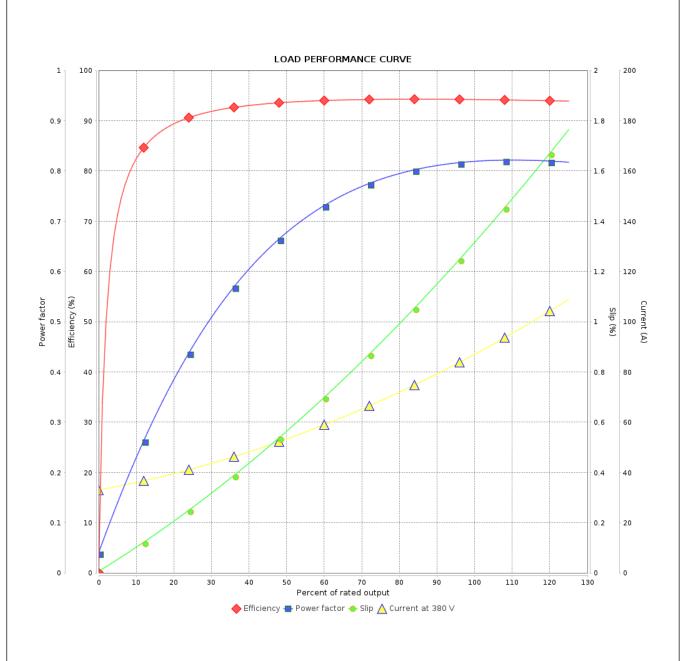


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11355267



| Performance | | 80 V 50 Hz 4P IE3 | | | | |
|---------------------|------------|-------------------|------------|-----------------------|---------|----------|
| Rated current | : 8 | 8.5 A | Moment o | Moment of inertia (J) | | 2 |
| LRC : | | .0 | Duty cycle | Duty cycle | | |
| Rated torque | | 9.4 kgfm | Insulation | class | : F | |
| Locked rotor torque | e : 2 | 10 % | Service fa | octor | : 1.00 | |
| Breakdown torque | : 2 | 50 % | Temperati | Temperature rise | | |
| Rated speed | : 14 | : 1480 rpm Design | | | : B | |
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Three Phase Induction Motor - Squirrel Cage



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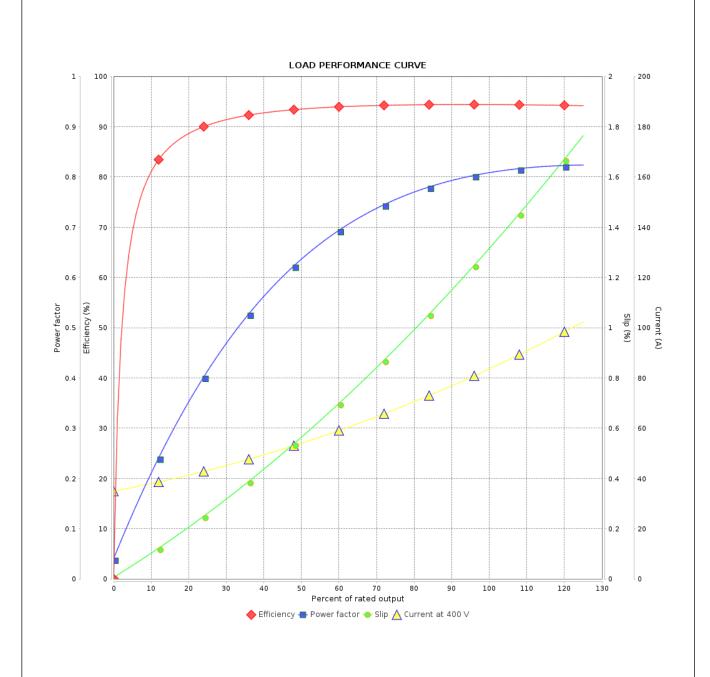
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Product line : W22 NEMA Premium Efficiency Product code : 11355267

Three-Phase



| Performance | : 400 V 50 Hz 4P IE3 | | | | |
|--|--|---|-----------|---------|------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 84.9 A : 7.5 : 29.4 kgfm : 240 % : 280 % : 1480 rpm | Moment of inertia (J) : 0.9798 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B | | | |
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Three Phase Induction Motor - Squirrel Cage

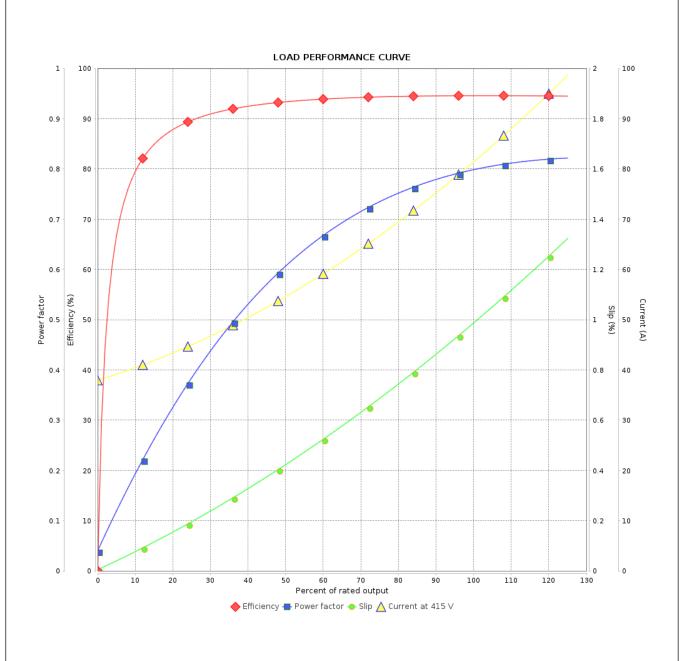


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11355267



| Performance | : 415 V 50 Hz 4P IE3 | | | |
|--|--|--|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 82.7 A : 8.0 : 29.3 kgfm : 260 % : 310 % : 1485 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | : 0.9798 kgm² : Cont.(S1) : F : 1.00 : 80 K : B | |
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Three Phase Induction Motor - Squirrel Cage



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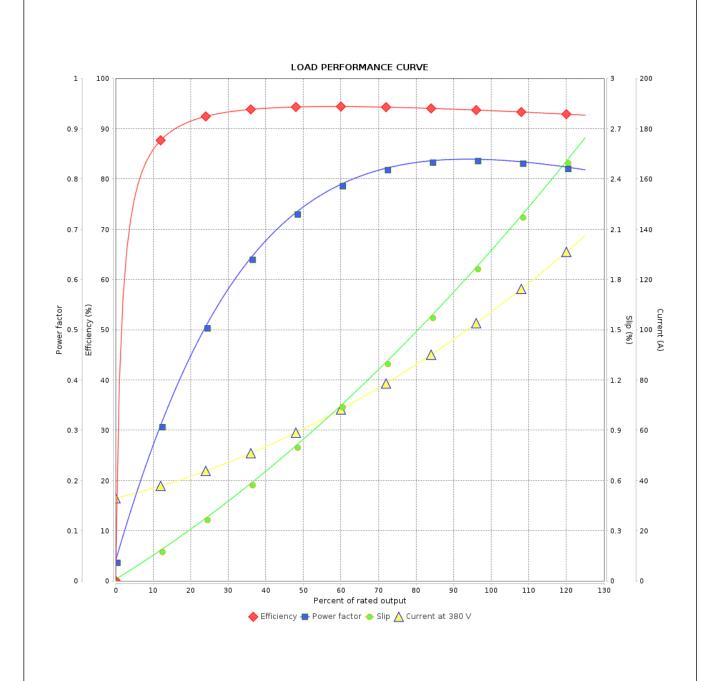
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Product line : W22 NEMA Premium Efficiency Product code : 11355267

Three-Phase



| Performance | : 380 V 50 Hz 4P IE2 | | | | |
|---|---|--|-----------|---------|------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 106 A : 5.1 : 37.0 kgfm : 170 % : 200 % : 1470 rpm | Moment of inertia (J) : 0.9798 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B | | | |
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Three Phase Induction Motor - Squirrel Cage

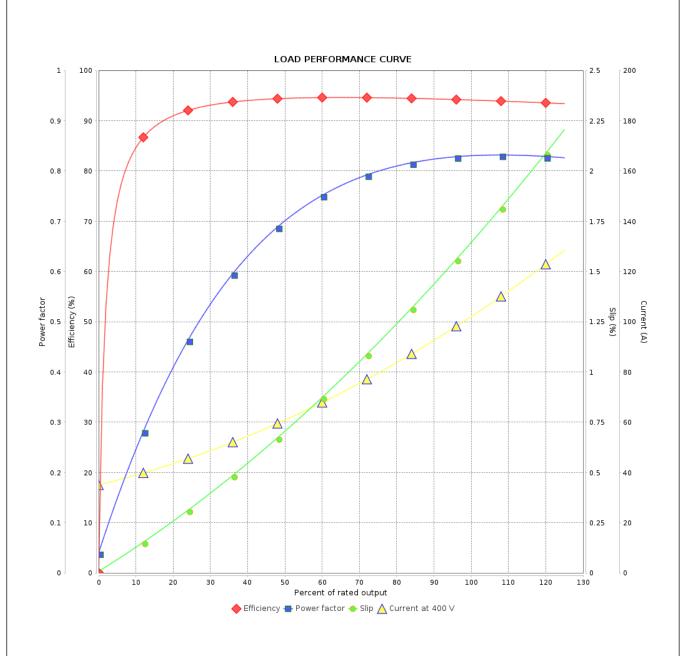


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11355267



| Performance | : 400 V 50 Hz 4P IE2 | | | |
|--|---|--|---|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 102 A : 5.6 : 36.9 kgfm : 200 % : 220 % : 1475 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | : 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B | |
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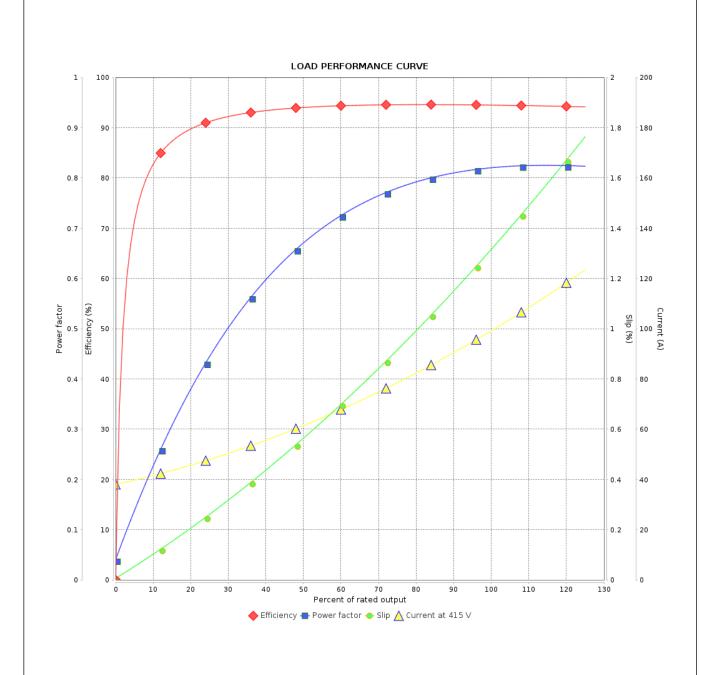
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Product code: 11355267

Three-Phase



| Performance | : . | 415 V 50 Hz 4P IE2 | | | | |
|---------------------|------------|--------------------|----------------------|-----------------------|--------------------|----------|
| Rated current | | 98.7 A | Moment o | Moment of inertia (J) | | 2 |
| | | 6.1 | .1 Duty cycle | | : Cont.(S1) : F | |
| | | 36.8 kgfm | | | | |
| Locked rotor torque | | 210 % | Service fa | Service factor | | |
| Breakdown torqu | ie : | 240 % | 0 % Temperature rise | | : 105 K | |
| Rated speed | : | 480 rpm Design | | : B | | |
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