## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11441988 Three-Phase : 213/5TC Cooling method Frame : 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 Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 80.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0636 kgm<sup>2</sup> Design : B Output [HP] 10 7.5 10 7.5 7.5 10 10 Poles 4 4 4 4 4 4 4 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 25.3/12.7 11.5 11.4 11.3 15.2 14.4 14.1 L. R. Amperes [A] 162/81.1 86.2 91.5 96.1 90.9 93.6 98.8 LRC [A] 6.4x(Code H) 7.5x(Code J) 8.0x(Code K) 8.5x(Code L) 6.0x(Code 6.5x(Code H) 7.0x(Code H) G) No load current [A] 11.6/5.80 5.60 6.00 6.35 5.60 6.00 6.35 Rated speed [RPM] 1765 1470 1475 1475 1450 1455 1460 Slip [%] 1.94 2.00 1.67 1.67 3.33 3.00 2.67 Rated torque [kgfm] 4.11 3.70 3.69 3.69 5.01 4.99 4.97 Locked rotor torque [%] 240 200 240 260 165 180 190 Breakdown torque [%] 295 300 340 360 220 250 270 Service factor 1.25 1.15 1.15 1.15 1.15 1.15 1.15 Temperature rise 80 K 25s (cold) Locked rotor time 30s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 0s (cold) 17s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 0s (hot) Noise level<sup>2</sup> 58.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 91.0 90.0 89.2 88.7 88.0 90.3 90.3 Efficiency (%) 75% 91.7 90.0 89.9 89.8 88.5 90.2 90.2 100% 91.7 89.8 90.1 90.3 88.5 89.5 90.2 25% 50% 0.65 0.61 0.57 0.53 0.72 0.68 0.64 Power Factor 75% 0.76 0.74 0.70 0.67 0.81 0.79 0.76 100% 0.81 0.81 0.77 0.75 0.85 0.84 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.8 11.0 10.7 10.4 11.4 10.5 12.6 P2 (0,5;1,0) 7.3 9.2 8.9 8.7 10.5 9.5 8.8 P3 (0,25;1,0) 7.1 8.9 8.6 8.4 10.2 9.2 8.5 P4 (0,9;0,5) 4.6 5.7 5.6 5.4 6.6 5.9 5.5 Losses (%) P5 (0,5;0,5) 3.2 4.0 3.8 3.8 4.5 4.1 3.8 P6 (0,5;0,25) 2.2 2.8 2.7 2.6 3.2 2.9 2.7 P7 1.5 1.9 2.2 2.0 1.9 1.9 1.8 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ : 208 kgf Max. traction Sealing V'Ring V'Ring : 288 kgf Max. compression Lubrication interval Lubricant amount 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 14/07/2025 1/9 Date

#### DATA SHEET



Three Phase Induction Motor - Squirrel Cage	<u>weg</u>
Customer :	
Notes USABLE @208V 27.4A SF 1.15 SFA 31.5A	

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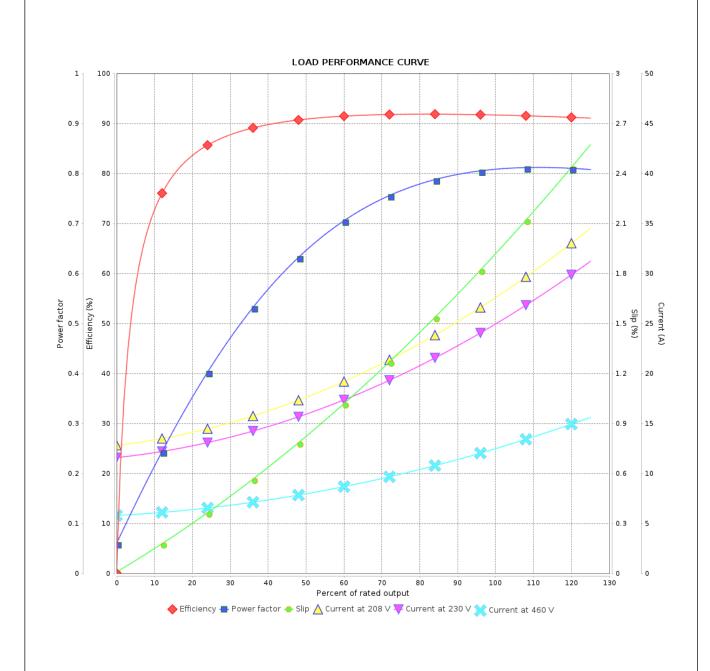
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441988

Three-Phase



Performance : 230/460 V 60 Hz 4P : 25.3/12.7 A Rated current Moment of inertia (J) : 0.0636 kgm<sup>2</sup> **LRC** : 6.4 Duty cycle : Cont.(S1) : F Rated torque : 4.11 kgfm Insulation class Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 295 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

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#### Three Phase Induction Motor - Squirrel Cage



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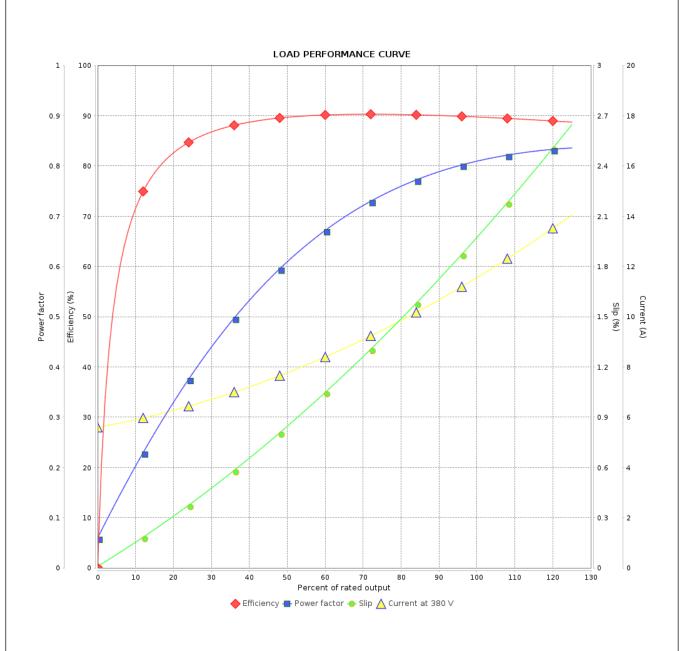
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441988



Performance : 380 V 50 Hz 4P IE3 : 11.5 A : 0.0636 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class : 3.70 kgfm : F Rated torque Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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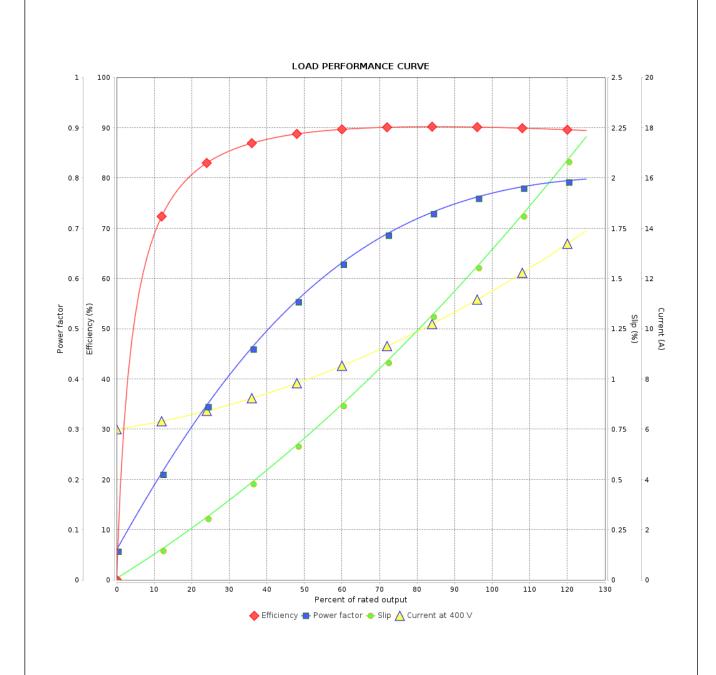
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441988

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.4 A : 8.0 : 3.69 kgfm : 240 % : 340 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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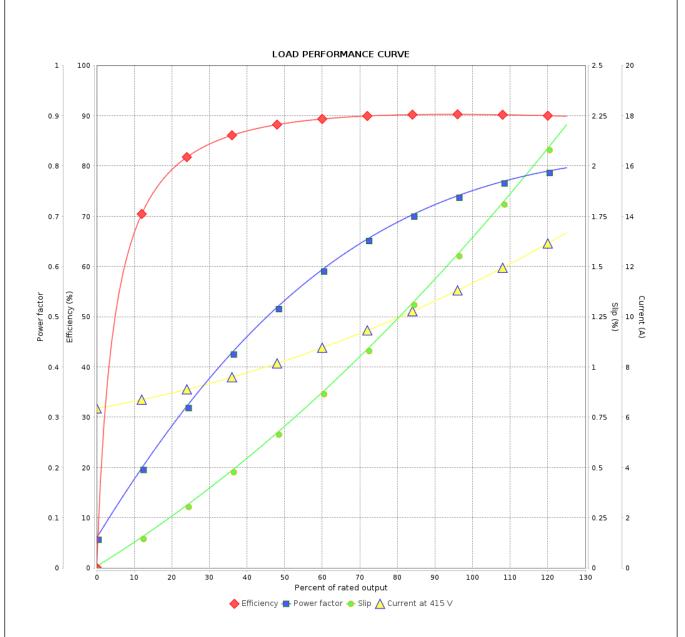


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441988



Performance	: 41	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8. : 3. que : 26 ue : 36	.3 A 5 69 kgfm 60 % 60 % 175 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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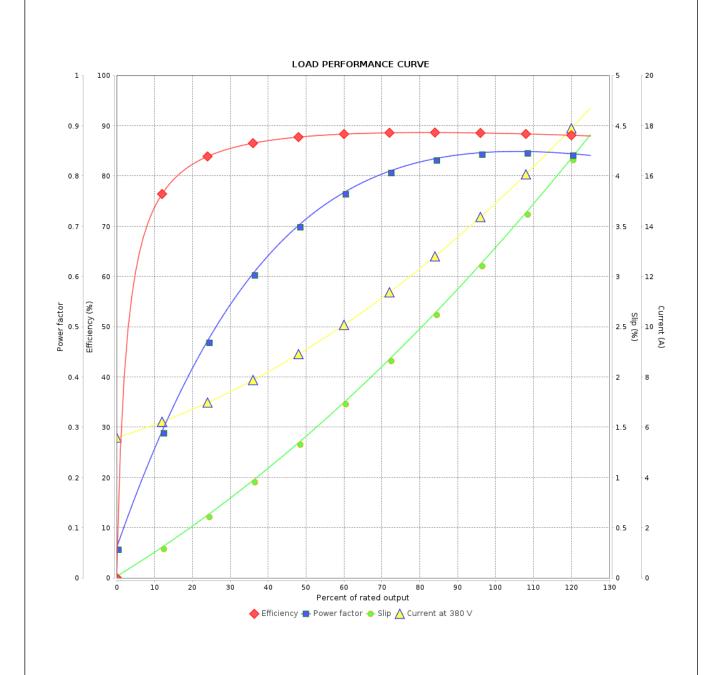
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441988

Three-Phase



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.2 A : 6.0 : 5.01 kgfm : 165 % : 220 % : 1450 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.0636 kgm : Cont.(S1) : F : 1.15 : 80 K : B	12
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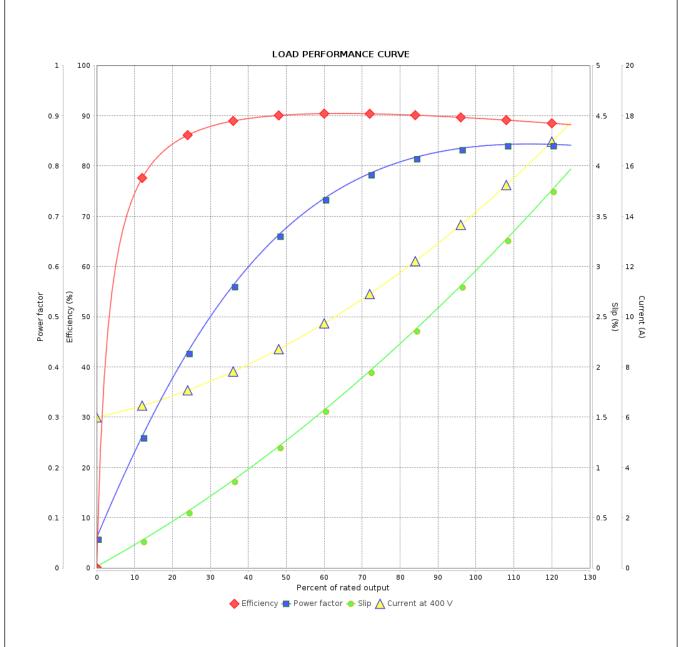


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441988



Performance	: 40	00 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 4. que : 18	4.4 A 5 99 kgfm 80 % 50 % 455 rpm	Moment of Duty cycle Insulation Service fa Temperatu	class ctor	: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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## Three Phase Induction Motor - Squirrel Cage



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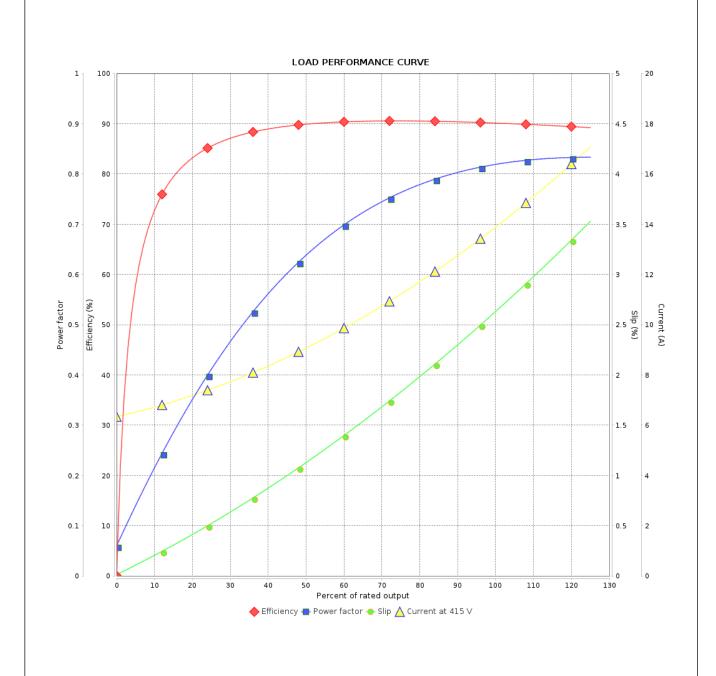
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Product line : W22 NEMA Premium Efficiency Product code : 11441988

Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.1 A : 7.0 : 4.97 kgfm : 190 % : 270 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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