### DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11441852 Three-Phase : 143/5T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : 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> : 24.1 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0067 kgm<sup>2</sup> Design : B Output [HP] 0.75 0.75 1 0.75 1 1 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 3.46/1.73 1.60 1.62 1.66 1.96 1.94 1.95 L. R. Amperes [A] 9.41 21.5/10.7 9.28 9.88 10.5 10.1 10.7 LRC [A] 6.2x(Code K) 5.8x(Code K) 6.1x(Code L) 6.3x(Code 4.8x(Code | 5.2x(Code H) | 5.5x(Code J) M) G) No load current [A] 2.20/1.10 1.05 1.15 1.25 1.05 1.15 1.25 Rated speed [RPM] 1160 960 970 970 940 950 950 Slip [%] 3.33 4.00 3.00 3.00 6.00 5.00 5.00 Rated torque [kgfm] 0.626 0.567 0.561 0.561 0.772 0.764 0.764 Locked rotor torque [%] 260 280 300 320 200 229 250 220 Breakdown torque [%] 300 310 330 340 260 280 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 36s (cold) 36s (cold) Locked rotor time 50s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 28s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level<sup>2</sup> 50.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 25% 50% 77.0 74.8 73.2 70.7 77.0 75.5 74.0 Efficiency (%) 75% 82.0 78.4 77.5 75.8 80.0 80.0 78.5 100% 82.5 79.3 78.9 77.9 78.5 78.5 78.5 25% 50% 0.45 0.44 0.41 0.38 0.53 0.49 0.46 Power Factor 75% 0.57 0.57 0.53 0.50 0.66 0.62 0.59 0.66 100% 0.66 0.62 0.59 0.74 0.71 0.68 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 20.0 20.0 20.0 20.0 20.0 20.0 20.0 P2 (0,5;1,0) 16.7 16.7 16.7 16.7 16.7 16.7 16.7 P3 (0,25;1,0) 16.9 16.9 16.9 16.9 16.9 16.9 16.9 P4 (0,9;0,5) 12.6 12.6 12.6 12.6 12.6 12.6 12.6 Losses (%) P5 (0,5;0,5) 9.2 9.2 9.2 9.2 9.2 9.2 9.2 P6 (0,5;0,25) 7.6 7.6 7.6 7.6 7.6 7.6 7.6 P7 5.8 5.8 5.8 5.8 5.8 5.8 5.8 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6205 ZZ 6204 ZZ : 49 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 73 kgf 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 20/10/2024 1/9 Date

# DATA SHEET



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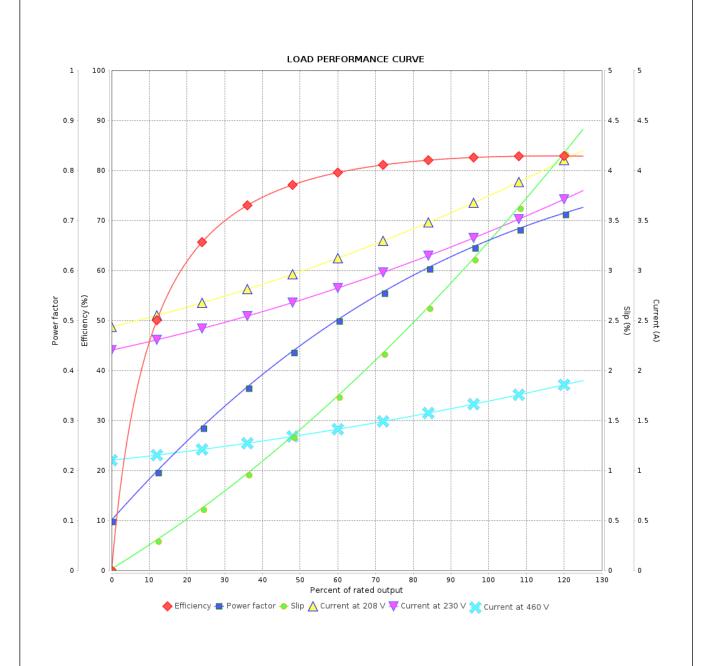
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441852

Three-Phase



Rated current					
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.46/1.73 A : 6.2 : 0.626 kgfm : 260 % : 300 % : 1160 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 0.0067 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
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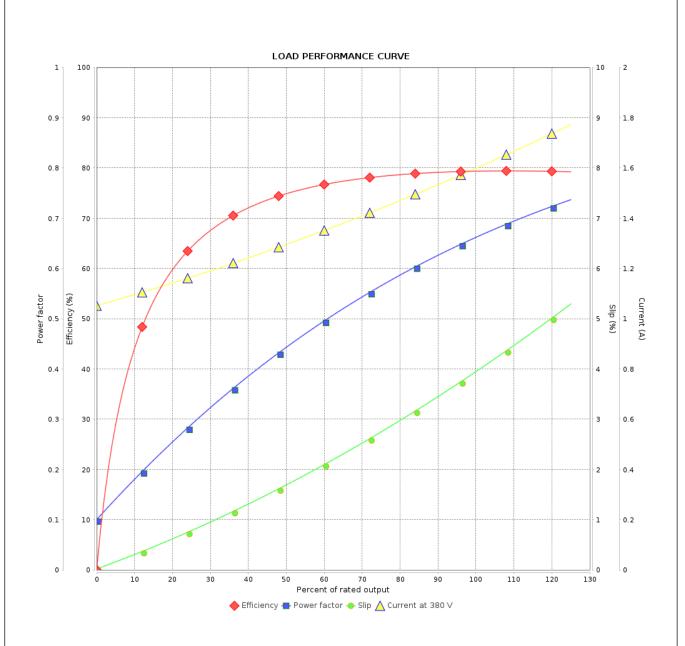


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441852



Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 1.60 A : 5.8 : 0.567 kgfm : 280 % : 310 % : 960 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	2
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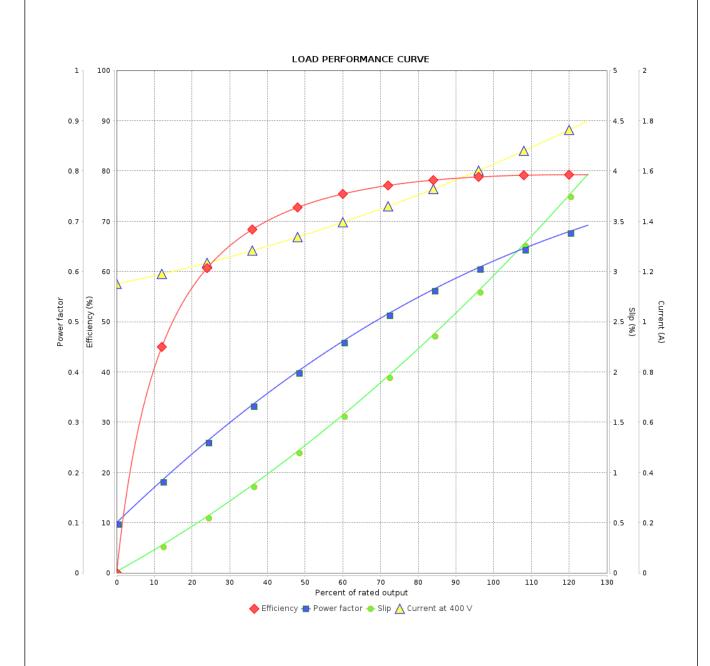
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441852

Three-Phase



Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 1.62 A	Moment of	of inertia (J)	: 0.0067 kgm	2
LRC	: 6.1	Duty cycle	e	: Cont.(S1)	
Rated torque	: 0.561 kgfm	Insulation	class	: F	
Locked rotor torqu	e : 300 %	Service fa	ictor	: 1.00	
Breakdown torque	: 330 %	Temperati	ure rise	: 80 K	
Rated speed	: 970 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



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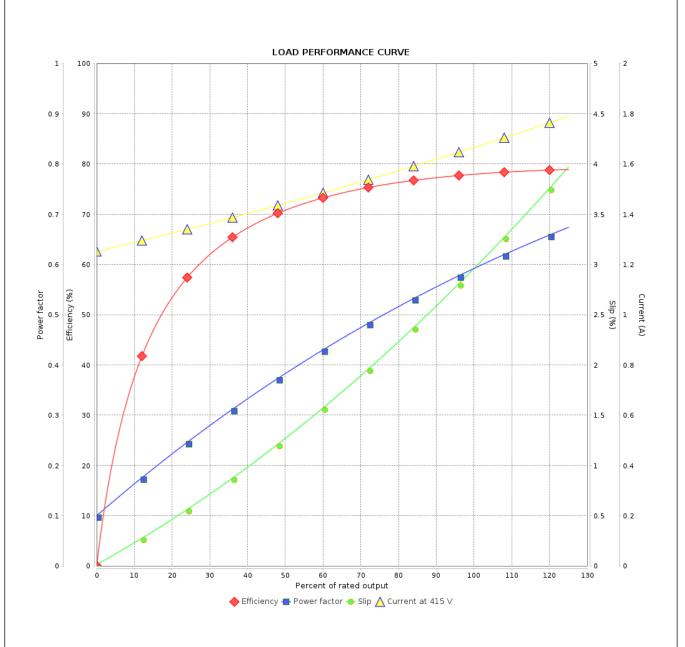
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441852



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.66 A : 6.3 : 0.561 kgfm : 320 % : 340 % : 970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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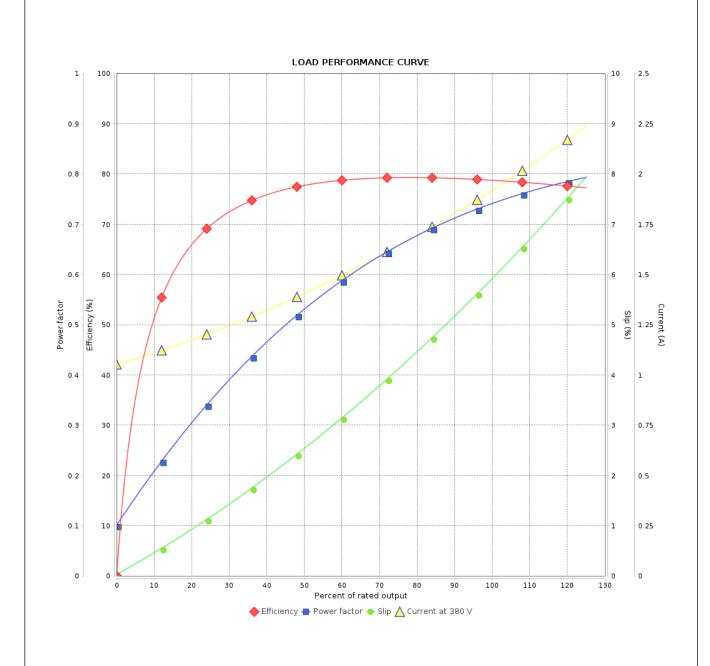
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Product line : W22 NEMA Premium Efficiency Product code : 11441852

Three-Phase



Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque	: 1.96 A : 4.8 : 0.772 kgfm : 200 %	Moment of Duty cycle Insulation Service fac	class	: 0.0067 kgm <sup>2</sup> : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 220 % : 940 rpm	Temperatu Design		: 80 K : B	
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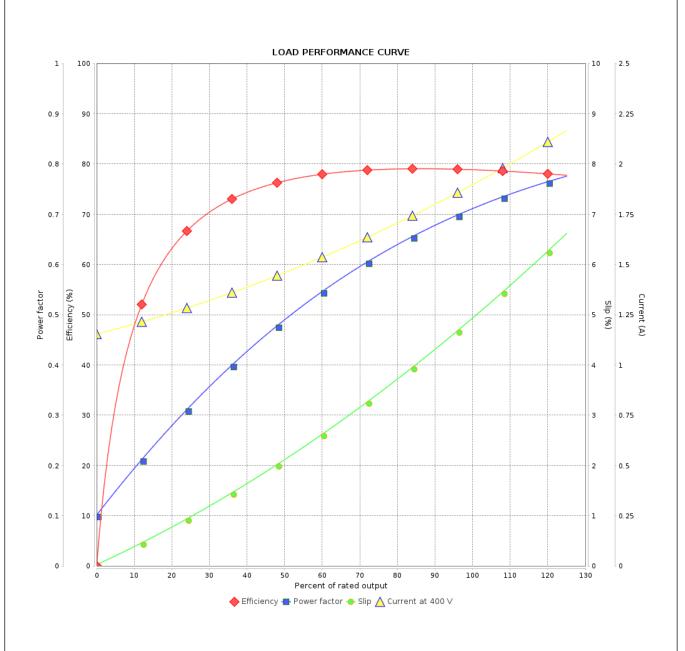


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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441852



Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.0067 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	2
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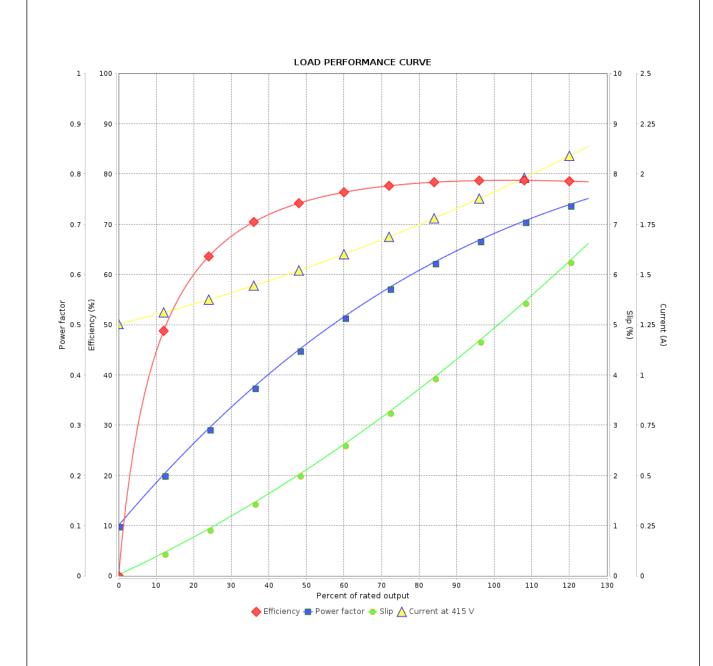
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441852

Three-Phase



Performance	: 4	15 V 50 Hz 6P IE2				
Rated current		95 A		of inertia (J)	: 0.0067 kgm²	
LRC	: 5.	-	Duty cycle		: Cont.(S1)	
Rated torque	: 0.	.764 kgfm	Insulation	class	: F	
Locked rotor tord	que : 25	50 %	Service fa	ictor	: 1.00	
Breakdown torqu	ue : 28	80 %	Temperati	ure rise	: 80 K	
Rated speed	: 98	50 rpm	Design		: B	
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