DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11402324 Three-Phase : 364/5TSC 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. : 396 kg Protection degree : IP55 Moment of inertia (J) : 0.4485 kgm² Design : B Output [HP] 60 60 50 50 50 60 60 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 83.1 134/67.0 67.4 64.0 61.7 77.6 74.8 L. R. Amperes [A] 884/442 431 461 457 432 450 471 LRC [A] 6.6x(Code 6.4x(Code | 7.2x(Code H) | 7.4x(Code H) | 5.2x(Code E) | 5.8x(Code F) | 6.3x(Code G) G) G) No load current [A] 32.0/16.0 15.8 16.8 17.8 15.8 16.8 17.8 Rated speed [RPM] 3555 2955 2960 2965 2935 2945 2950 Slip [%] 1.25 1.50 1.33 1.17 2.17 1.83 1.67 Rated torque [kgfm] 12.2 12.3 12.3 12.2 14.8 14.8 14.8 Locked rotor torque [%] 200 190 220 229 160 180 190 Breakdown torque [%] 260 250 280 300 200 229 250 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 21s (cold) Locked rotor time 25s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 12s (hot) 14s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) Noise level² 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 25% 50% 91.7 92.1 91.7 91.6 92.4 92.4 92.4 Efficiency (%) 75% 93.0 92.8 92.8 92.9 93.0 93.0 93.0 100% 93.6 93.7 93.7 93.7 92.4 93.0 93.0 25% 50% 0.81 0.81 0.79 0.76 0.85 0.83 0.81 Power Factor 75% 0.88 0.88 0.87 0.85 0.88 0.89 0.88 100% 0.90 0.89 0.89 0.89 0.89 0.90 0.90 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.3 6.3 6.3 6.3 6.3 6.3 6.3 P2 (0,5;1,0) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P3 (0,25;1,0) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P4 (0,9;0,5) 3.3 3.3 3.3 3.3 3.3 3.3 3.3 Losses (%) P5 (0,5;0,5) 1.7 1.7 1.7 1.7 1.7 1.7 1.7 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 1.1 1.1 1.1 P7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 216 kgf Max. traction Sealing Oil Seal Oil Seal Max. compression : 612 kgf Lubrication interval 4000 h 4000 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

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Date

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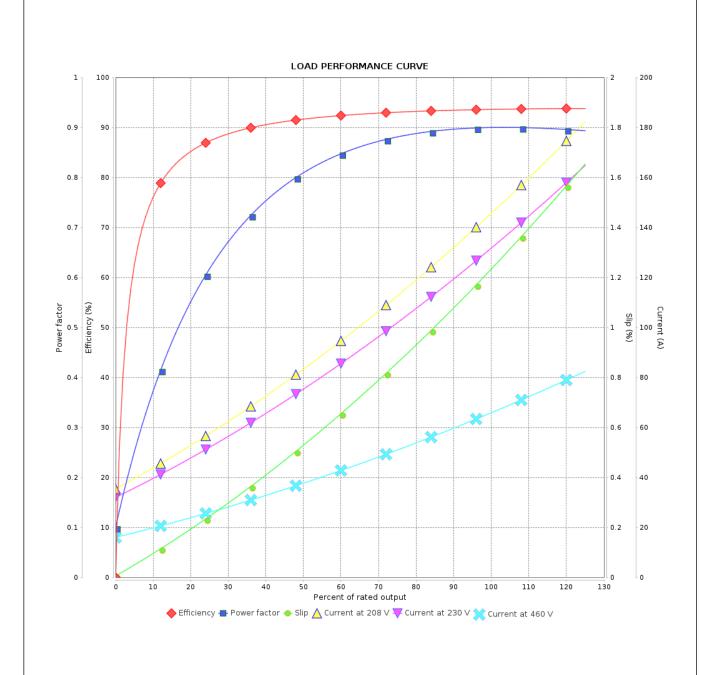
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11402324

Three-Phase



Performance	: 230/460 V 60 Hz 2P				
Rated current	: 134/67.0 A	Moment of inertia (J)		: 0.4485 kgm²	
LRC	: 6.6	Duty cycle		: Cont.(S1)	
Rated torque	: 12.2 kgfm	Insulation class		: F	
Locked rotor torque	: 200 %	Service factor Temperature rise Design		: 1.25 : 80 K : B	
Breakdown torque Rated speed	: 260 % : 3555 rpm				
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Three Phase Induction Motor - Squirrel Cage



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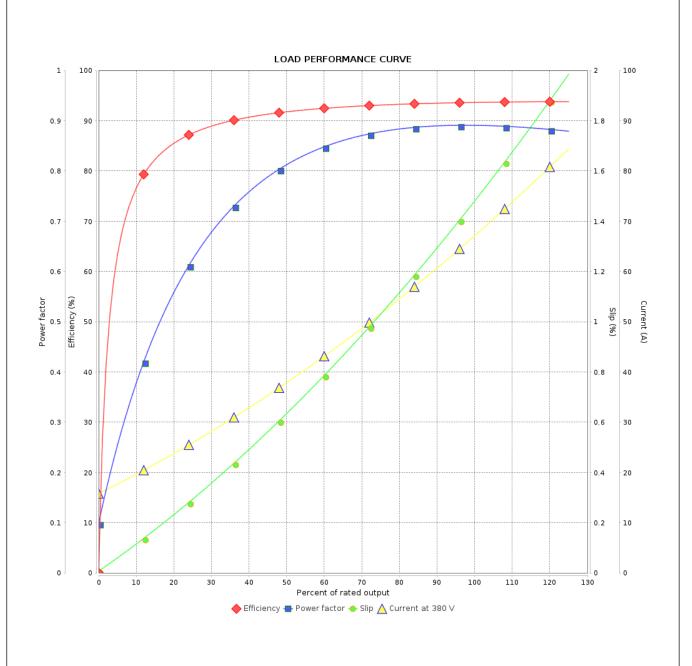
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

11402324

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Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 67.4 A : 6.4 : 12.3 kgfm : 190 % : 250 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4485 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	2
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Three Phase Induction Motor - Squirrel Cage



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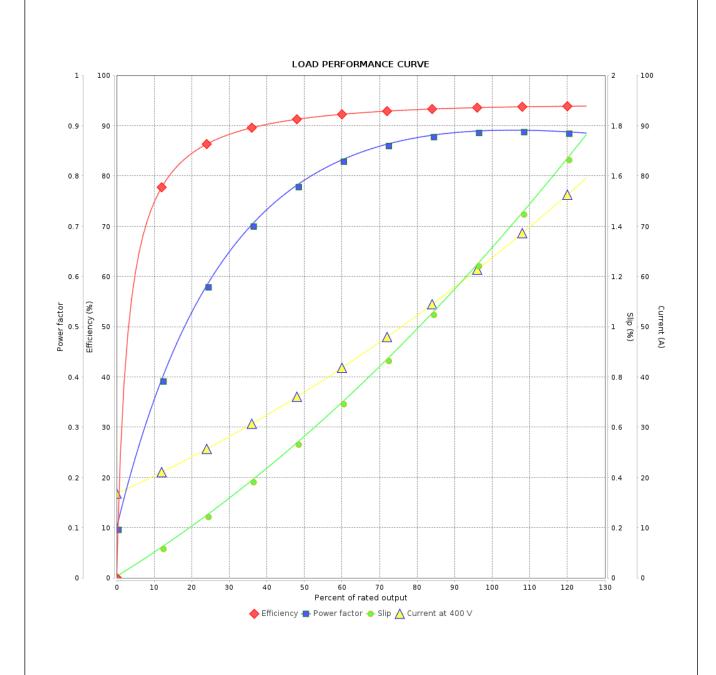
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Product line : W22 NEMA Premium Efficiency Product code : 11402324

Three-Phase



Performance		: 400 V 50 Hz 2P	IE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 64.0 A : 7.2 : 12.3 kgfm : 220 % : 280 % : 2960 rpm	Duty cyc Insulatio Service t	n class	: 0.4485 kgm : Cont.(S1) : F : 1.00 : 80 K : B	2
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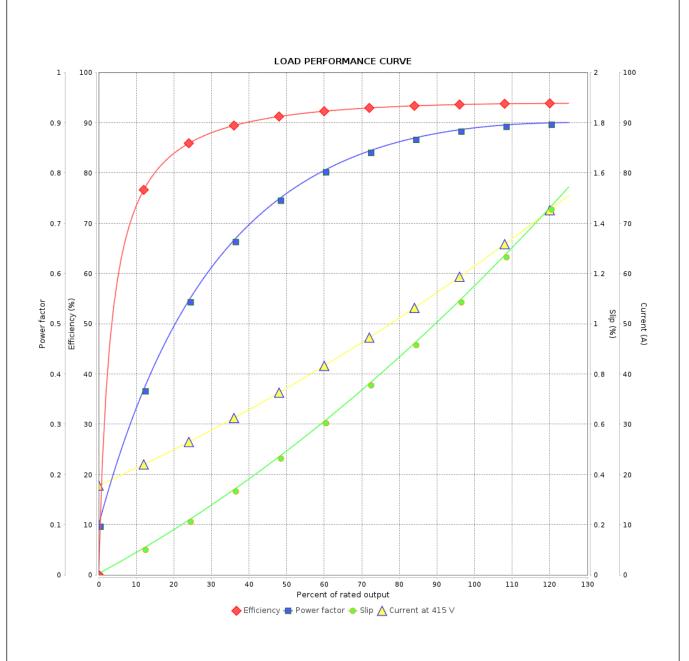


Customer

Product line : W22 NEMA Premium Efficiency

Product code: 11402324

Three-Phase



Performance	: 4	: 415 V 50 Hz 2P IE3				
Rated current	ated current : 61.7 A		Moment of	of inertia (J)	: 0.4485 kgm	2
LRC	: 7.	.4	Duty cycle	e ` ´	: Cont.(S1)	
Rated torque	: 1:	2.2 kgfm			: F	
Locked rotor torq	μue : 2:	29 %	% Service factor		: 1.00	
Breakdown torqu	Breakdown torque : 300 % Temperature ri		ure rise	: 80 K		
Rated speed	: 29	965 rpm	Design	Design		
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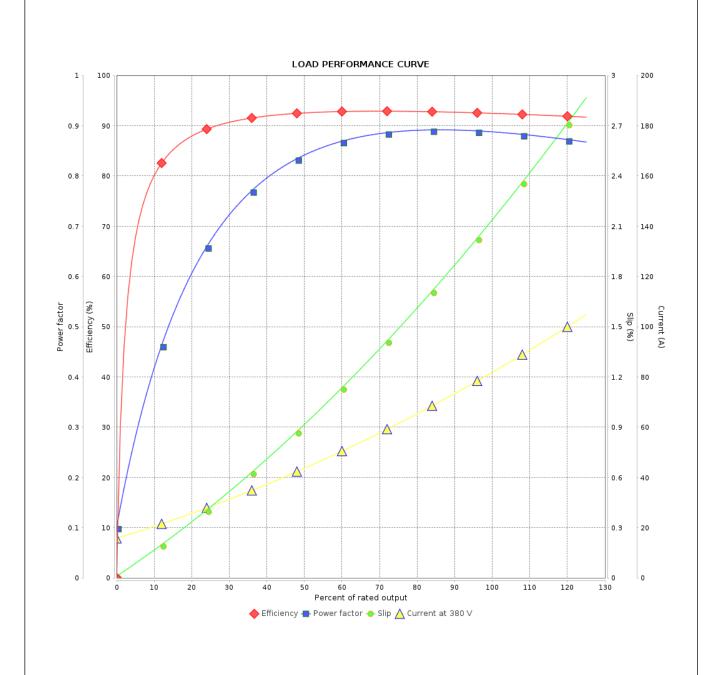
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Product line : W22 NEMA Premium Efficiency Product code : 11402324

Three-Phase



Performance	: 380 V 50 Hz 2P IE1				
Rated current	: 83.1 A	Moment of inertia (J)		: 0.4485 kgm²	
LRC	: 5.2	Duty cycle		: Cont.(S1)	
Rated torque	: 14.8 kgfm	Insulation class		: F	
Locked rotor torque	: 160 %	Service factor		: 1.00	
Breakdown torque	: 200 %	Temperature rise		: 105 K	
Rated speed	: 2935 rpm	Design		: B	
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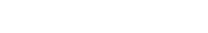


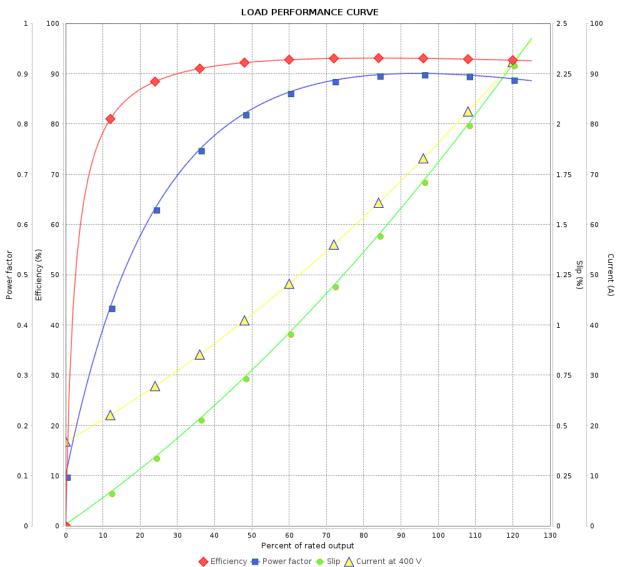
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11402324





Performance	· 400 V 50 Hz 2P IF2

Rated current : 77.6 A Moment of inertia (J) : 0.4485 kgm²
LRC : 5.8 Duty cycle : Cont.(S1)
Rated torque : 14.8 kgfm Insulation class : F

Locked rotor torque : 180 % Service factor : 1.00

Breakdown torque : 229 % Temperature rise : 105 K

Rated speed : 2945 rpm Design : B

Rated speed	: 29	945 rpm	Design		: B	
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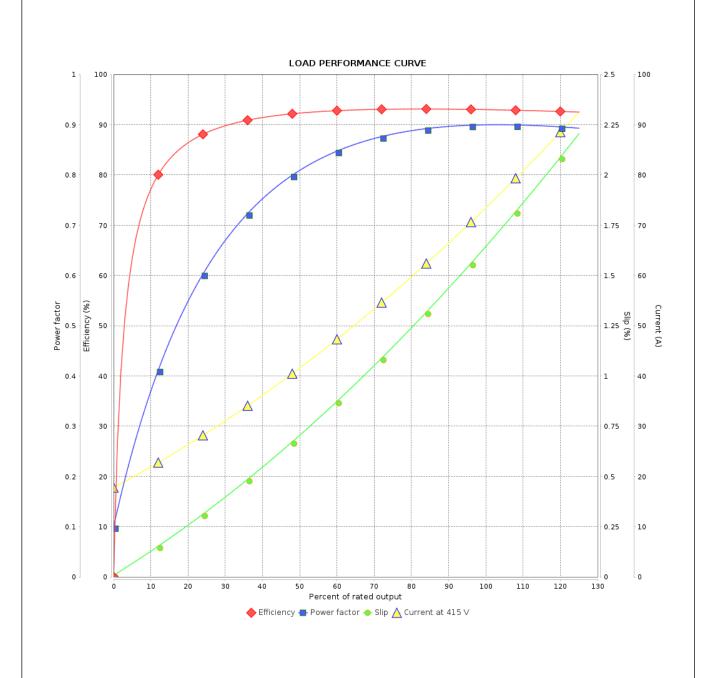
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Product line : W22 NEMA Premium Efficiency Product code : 11402324

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 0.4485 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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