## DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11441757 Three-Phase : 182/4TC 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> Altitude : 1000 m.a.s.l. : 43.3 kg Protection degree : IP55 Moment of inertia (J) : 0.0094 kgm<sup>2</sup> Design : B Output [HP] 5 4 4 4 5 5 5 Poles 2 2 2 2 2 2 2 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 7.14 11.8/5.90 5.85 5.57 5.43 6.78 6.61 42.8 L. R. Amperes [A] 89.7/44.8 44.5 46.8 50.5 46.1 49.6 LRC [A] 7.6x(Code J) 7.6x(Code J) 8.4x(Code K) 9.3x(Code L) 6.0x(Code 6.8x(Code H) 7.5x(Code J) G) No load current [A] 4.00/2.00 1.90 2.00 2.10 1.90 2.00 2.10 Rated speed [RPM] 3500 2900 2915 2920 2860 2880 2895 Slip [%] 2.78 3.33 2.83 2.67 4.67 4.00 3.50 Rated torque [kgfm] 1.04 1.00 0.996 0.994 1.27 1.26 1.25 Locked rotor torque [%] 229 220 250 270 180 200 220 Breakdown torque [%] 350 310 350 380 240 270 300 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 25s (cold) 23s (cold) Locked rotor time 30s (cold) 32s (cold) 32s (cold) 28s (cold) 23s (cold) 17s (hot) 18s (hot) 18s (hot) 16s (hot) 13s (hot) 14s (hot) 13s (hot) Noise level<sup>2</sup> 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% 83.7 85.9 50% 86.5 86.3 86.3 86.1 87.5 87.5 87.5 Efficiency (%) 75% 88.3 87.7 88.2 88.2 87.5 88.5 88.5 100% 88.5 87.5 88.3 88.3 86.5 87.5 87.5 25% 0.56 0.63 50% 0.76 0.74 0.71 0.68 0.81 0.78 0.76 Power Factor 75% 0.85 0.83 0.81 0.88 0.87 0.85 0.85 100% 0.89 0.89 0.88 0.87 0.91 0.90 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 12.4 13.7 12.7 13.7 13.7 12.7 14.9 P2 (0,5;1,0) 10.3 11.3 10.5 10.5 12.3 11.3 11.3 P3 (0,25;1,0) 9.8 10.8 10.0 10.0 11.8 10.8 10.8 P4 (0,9;0,5) 6.2 6.8 6.3 6.3 7.5 6.8 6.8 Losses (%) P5 (0,5;0,5) 3.9 4.3 4.0 4.0 4.7 4.3 4.3 P6 (0,5;0,25) 2.5 2.7 2.5 2.5 3.0 2.7 2.7 P7 1.8 1.6 1.8 1.6 1.6 1.9 1.8 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ : 57 kgf Max. traction Sealing V'Ring V'Ring : 100 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 13/07/2025 1/9 Date

# DATA SHEET

Checked by



Three Pha	se Induction	n Motor - Squirrel Cage	<b>;</b>		ШЕЦ
Customer	:				<u>.</u>
Notes USABLE @208\	√ 13.1A SF 1.15 S	SFA 15.0A			
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Date	13/07/2025		2/9				
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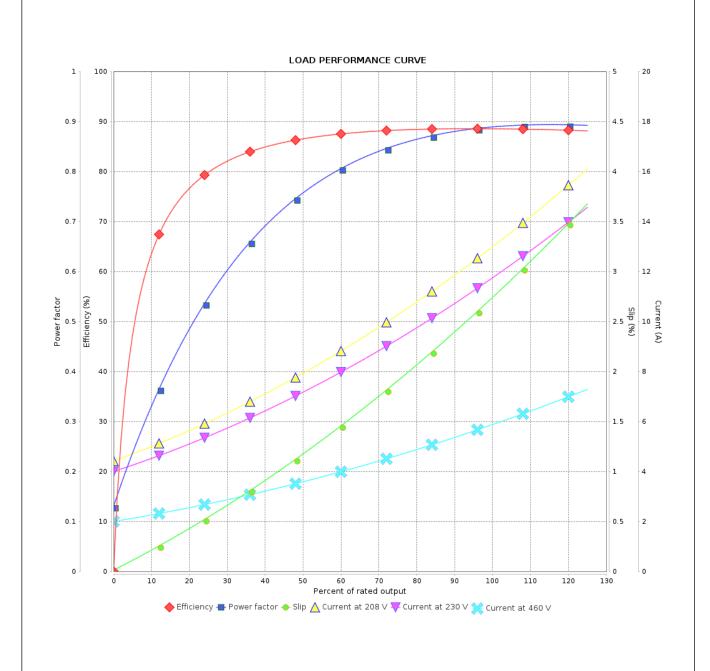
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441757

Three-Phase



Pov.	Changes Summers		Dorformed	Chaakad	Doto
Rated speed	: 3500 rpm	Design		: B	
Breakdown torque	: 350 %	Temperat	ure rise	: 80 K	
Locked rotor torque	: 229 %	Service fa	actor	: 1.25	
Rated torque	: 1.04 kgfm	Insulation	class	: F	
LRC	: 7.6	Duty cycle	Э	: Cont.(S1)	
Rated current	: 11.8/5.90 A	Moment of	of inertia (J)	: 0.0094 kgm	2
Performance	: 230/460 V 60 Hz 2P				

Raied speed	: 3:	ouu rpm	Design		: В	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

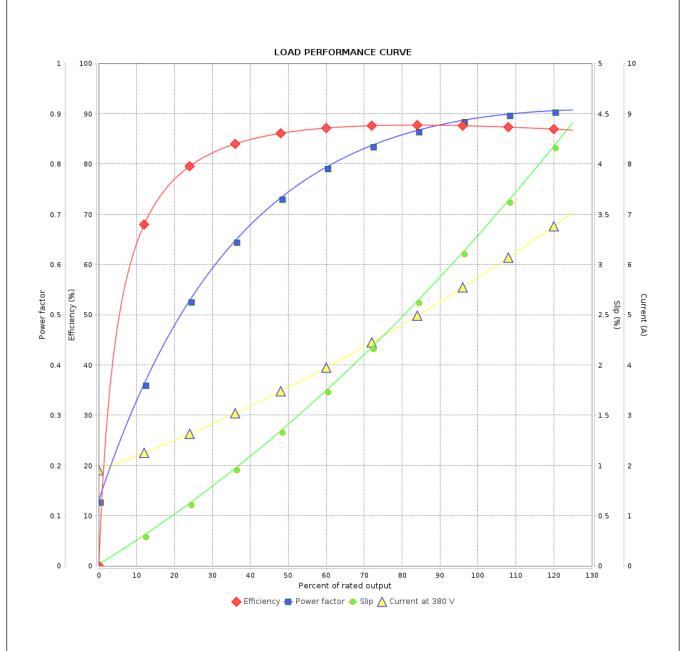
Date

13/07/2025

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441757



Performance : 380 V 50 Hz 2P IE3 : 0.0094 kgm<sup>2</sup> Rated current : 5.85 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.6 Insulation class Rated torque : 1.00 kgfm : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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## Three Phase Induction Motor - Squirrel Cage



Customer :

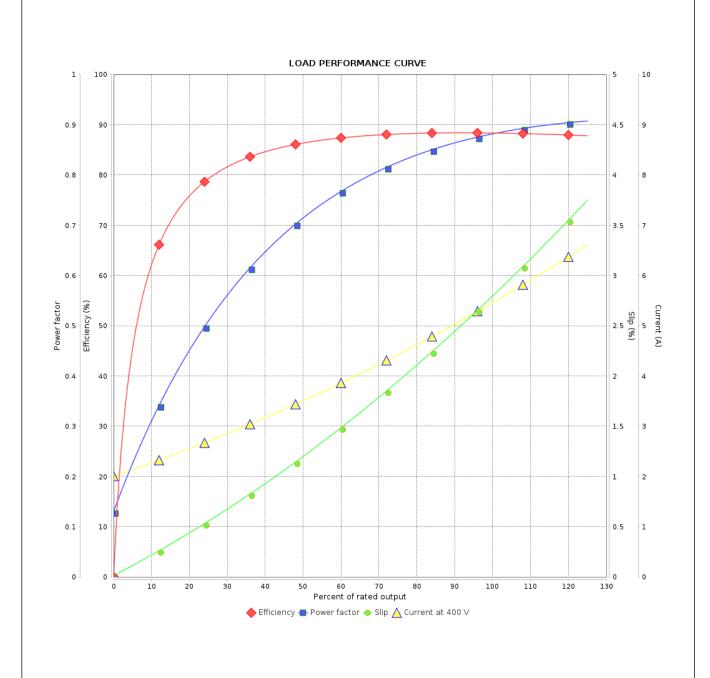
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Date

13/07/2025

Product line : W22 NEMA Premium Efficiency Product code : 11441757

Three-Phase



Performance	: 400 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		. ,		: 1.25 : 80 K	m²	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

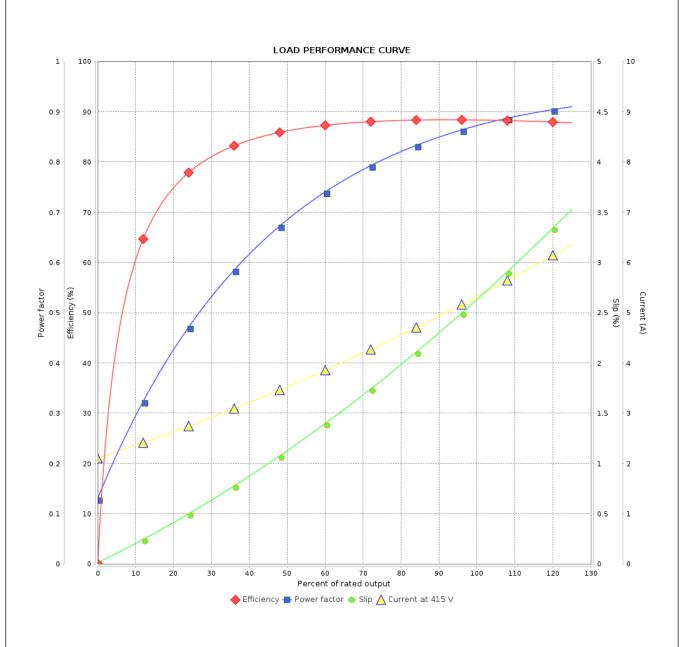
Date

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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441757



Performance : 415 V 50 Hz 2P IE3 : 0.0094 kgm<sup>2</sup> Rated current : 5.43 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 9.3 : 0.994 kgfm Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2920 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 :

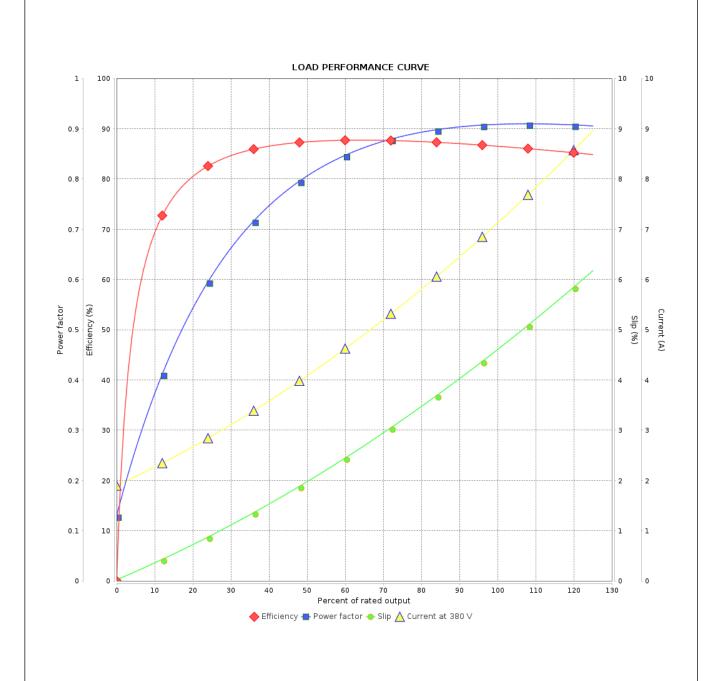
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Date

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Product line : W22 NEMA Premium Efficiency Product code : 11441757

Three-Phase



Performance		: 380 V 50 Hz 2P II	Ξ2				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	que	: 7.14 A : 6.0 : 1.27 kgfm : 180 % : 240 % : 2860 rpm	Dui Ins Sei Ter	ment of ty cycle ulation rvice fac mperatu sign	class ctor	: 0.0094 kgm <sup>2</sup> : Cont.(S1) : F : 1.25 : 80 K : B	•
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### Three Phase Induction Motor - Squirrel Cage



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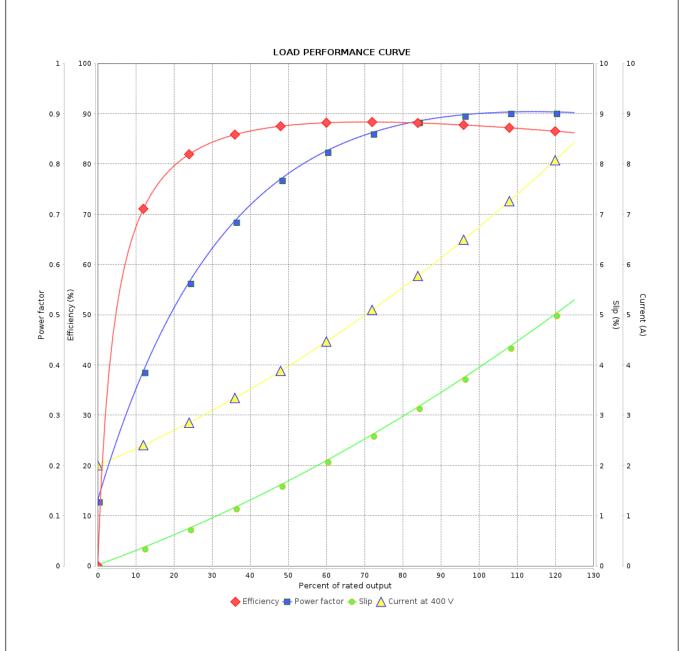
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441757



Performance : 400 V 50 Hz 2P IE2 : 0.0094 kgm<sup>2</sup> Rated current : 6.78 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 1.26 kgfm : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2880 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 :

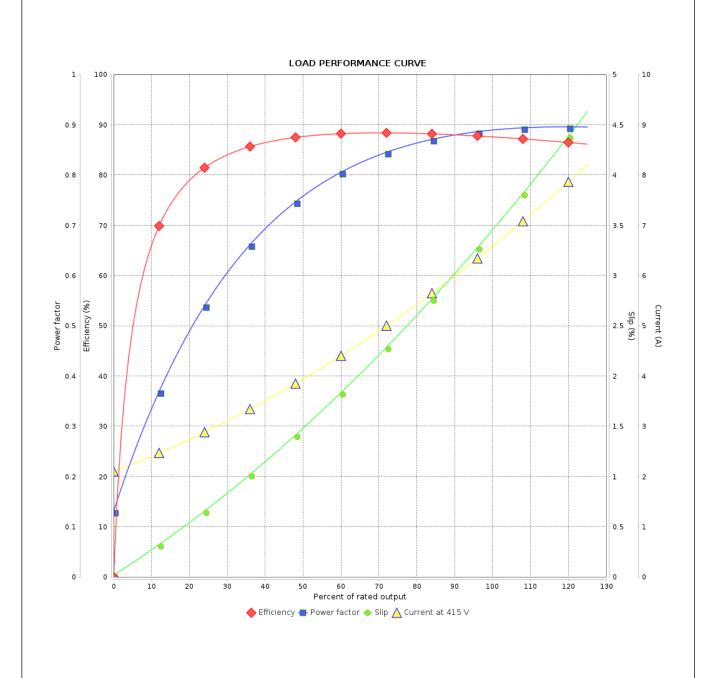
Checked by

Date

13/07/2025

Product line : W22 NEMA Premium Efficiency Product code : 11441757

Three-Phase



Danfarmana		. 445 \/ 50    = 20					
Performance : 415 V 50 Hz 2P IE2							
Rated current : 6.61 A		Moment of	Moment of inertia (J)		2		
LRC :		: 7.5	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		: 1.25 kgfm	Insulation	Insulation class		: F	
Locked rotor tord	que	: 220 %	Service fa	Service factor		: 1.25	
Breakdown torqu	ie :	: 300 %	Temperati	Temperature rise		: 80 K	
Rated speed		: 2895 rpm	Design		: B		
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