## DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11993105 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. : 81.5 kg Protection degree : IP55 Moment of inertia (J) : 0.0268 kgm<sup>2</sup> Design : A Output [HP] 15 10 10 10 15 15 15 Poles 2 2 2 2 2 2 2 50 50 50 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 20.9 34.9/17.4 14.9 14.7 16.5 19.9 19.3 L. R. Amperes [A] 307/153 125 138 165 136 143 149 LRC [A] 8.8x(Code K) 8.4x(Code K) 9.4x(Code L) 10.0x(Code 6.5x(Code 7.2x(Code H) 7.7x(Code J) N) G) No load current [A] 13.2/6.60 6.70 7.40 8.00 6.70 7.40 7.90 Rated speed [RPM] 3535 2950 2955 2960 2910 2920 2930 Slip [%] 1.81 1.67 1.50 1.33 3.00 2.67 2.33 Rated torque [kgfm] 3.08 2.46 2.46 2.45 3.74 3.73 3.72 Locked rotor torque [%] 280 300 320 340 200 220 240 Breakdown torque [%] 350 340 380 420 270 300 300 1.00 Service factor 1.25 1.15 1.15 1.15 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K Locked rotor time 12s (cold) 19s (cold) 18s (cold) 14s (cold) 7s (cold) 9s (cold) 9s (cold) 7s (hot) 11s (hot) 10s (hot) 8s (hot) 4s (hot) 5s (hot) 5s (hot) Noise level<sup>2</sup> 68.0 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% 50% 89.0 89.5 89.0 88.0 88.5 89.0 89.5 Efficiency (%) 75% 90.5 90.1 90.1 90.1 89.0 89.5 90.0 100% 91.0 90.1 90.1 90.1 89.0 89.7 90.0 25% 50% 0.73 0.70 0.64 0.48 0.80 0.76 0.83 Power Factor 75% 0.82 0.80 0.76 0.61 0.87 0.85 0.83 100% 0.87 0.85 0.82 0.70 0.90 0.89 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.8 10.9 10.9 10.9 11.4 11.0 12.2 P2 (0,5;1,0) 8.0 8.8 8.8 8.8 9.9 9.2 8.9 P3 (0,25;1,0) 7.0 7.8 7.8 7.8 8.8 8.2 7.9 P4 (0,9;0,5) 5.2 5.8 5.8 5.8 6.5 6.0 5.8 Losses (%) P5 (0,5;0,5) 3.4 3.7 3.7 3.7 4.2 3.9 3.8 P6 (0,5;0,25) 2.3 2.6 2.6 2.6 2.9 2.7 2.6 P7 1.5 1.7 1.7 1.7 1.7 1.7 1.9 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ : 165 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 247 kgf Lubrication interval Lubricant amount 88000 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 14/11/2025 1/9 Date

# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



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Rev. Changes Summary Performed Checked Date   Performed by Checked by Page Revision	Customer	:				
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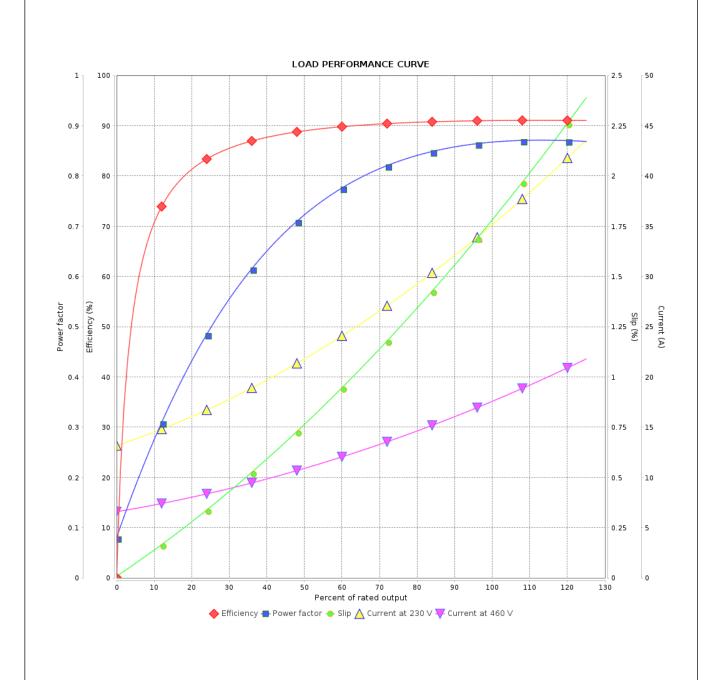
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11993105

Three-Phase



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.9/17.4 A : 8.8 : 3.08 kgfm : 280 % : 350 % : 3535 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.0268 kgm : Cont.(S1) : F : 1.25 : 80 K : A	2
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Date	14/11/2025				3/9	

## Three Phase Induction Motor - Squirrel Cage

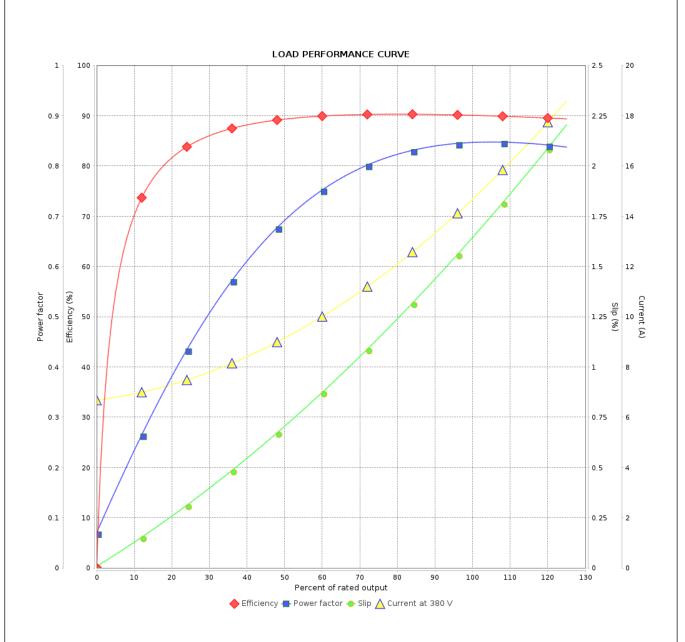


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11993105



Performance	: 38	0 V 50 Hz 2P IE3				
Rated current LRC	: 14 : 8.4	.9 A I	Moment of inertia (J)  Duty cycle		: 0.0268 kgm² : Cont.(S1)	
Rated torque Locked rotor torqu		16 kgfm 0 %	Insulation Service fa	class	: F : 1.15	
Breakdown torque Rated speed		0 % 50 rpm	Temperati Design	ıre rise	: 80 K : A	
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Performed by						
Checked by					Page	Revision

4/9

14/11/2025

Date

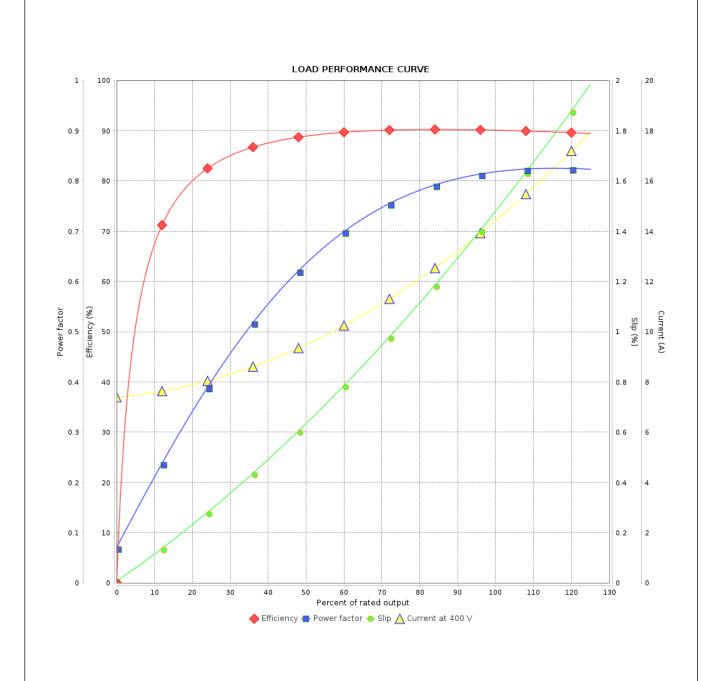
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11993105

Three-Phase



Rev.	Changes Summa	nry	Performed	Checked	Date	
Rated speed	: 2955 rpm	Design		: A		
Breakdown torque	: 380 %	Temperatu	Temperature rise			
Locked rotor torque	: 320 %	Service fa	Service factor		: 1.15	
Rated torque	: 2.46 kgfm	Insulation	class	: F		
LRC	: 9.4	Duty cycle	Duty cycle		: Cont.(S1)	
Rated current	: 14.7 A	Moment o	Moment of inertia (J)		: 0.0268 kgm²	
Performance	: 400 V 50 Hz 2P IE3	3				

Performed by						
Checked by					Page	Revision
Date	14/11/2025				5/9	
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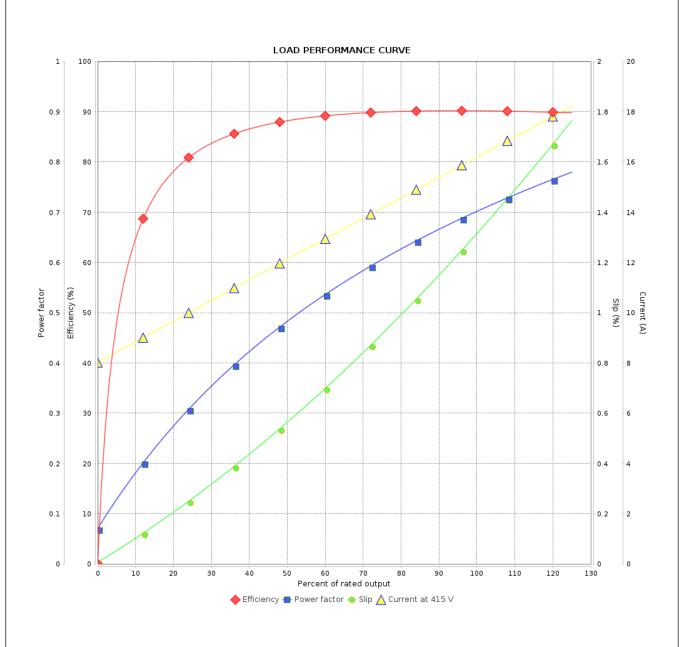
Date

14/11/2025

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11993105



Performance : 415 V 50 Hz 2P IE3 : 0.0268 kgm<sup>2</sup> Rated current : 16.5 A Moment of inertia (J) **LRC** : 10.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.45 kgfm : F Locked rotor torque : 340 % Service factor : 1.15 Breakdown torque : 420 % Temperature rise : 80 K Rated speed : 2960 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

6/9

## Three Phase Induction Motor - Squirrel Cage



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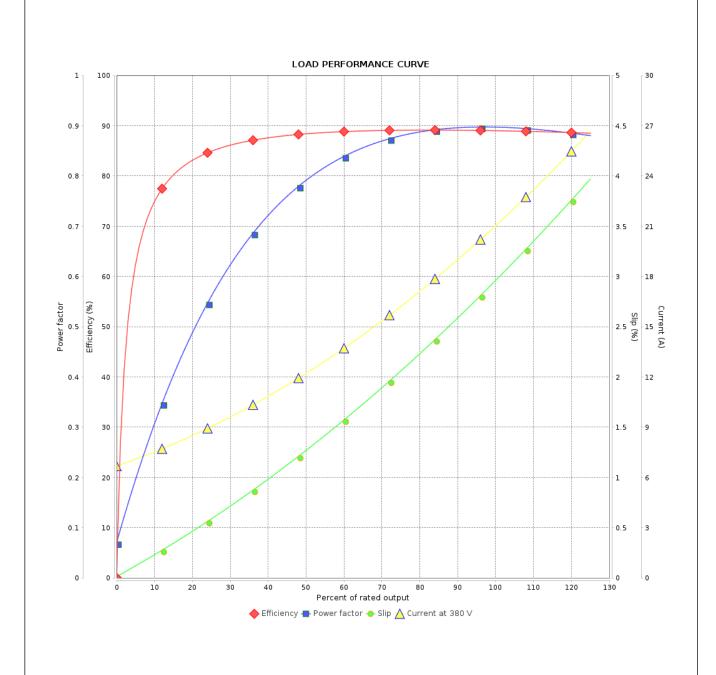
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Date

14/11/2025

Product line : W22 NEMA Premium Efficiency Product code : 11993105

Three-Phase



Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.9 A : 6.5 : 3.74 kgfm : 200 % : 270 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : A	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

7/9

Revision

## Three Phase Induction Motor - Squirrel Cage

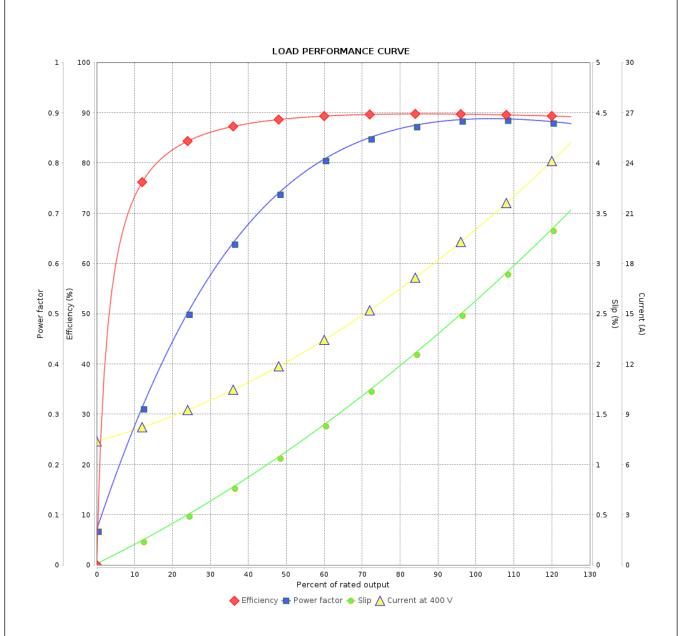


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11993105



	,				,	
Performance	: 4	00 V 50 Hz 2P IE2	2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 3 que : 2 ue : 3	9.9 A 7.2 3.73 kgfm 220 % 900 % 920 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		2
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Performed by Checked by					Page	Revision

8/9

14/11/2025

Date

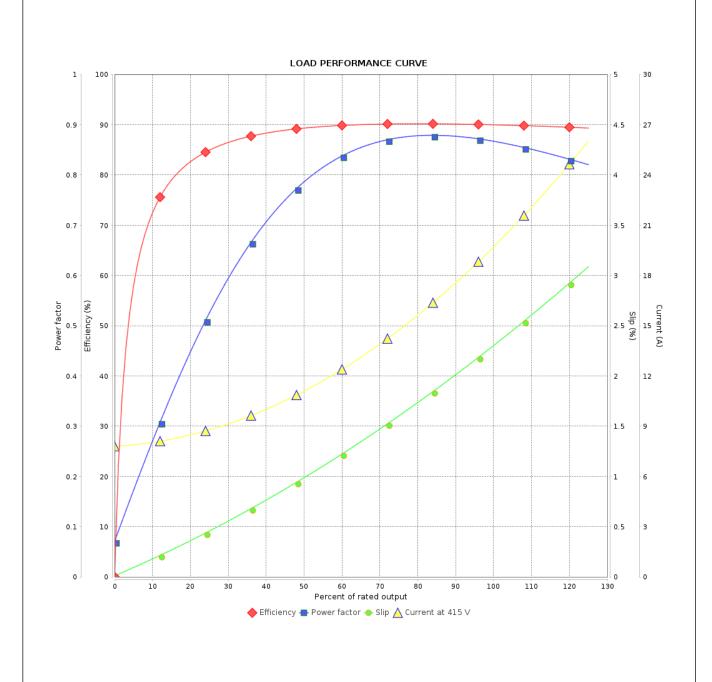
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11993105

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.3 A : 7.7 : 3.72 kgfm : 240 % : 300 % : 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : A	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

9/9

14/11/2025

Date