### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11443945 Three-Phase : 284/6T 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. : 198 kg Protection degree : IP55 Moment of inertia (J) : 0.2467 kgm<sup>2</sup> Design : B Output [HP] 30 25 25 30 25 30 30 Poles 4 4 4 4 4 4 4 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 43.1 70.2/35.1 35.7 34.3 33.9 41.1 39.7 L. R. Amperes [A] 428/214 214 230 247 228 247 238 LRC [A] 6.1x(Code 6.0x(Code | 6.7x(Code H) | 7.3x(Code J) | 5.3x(Code F) | 6.0x(Code 6.0x(Code G) G) G) G) No load current [A] 24.6/12.3 12.2 13.1 13.8 12.2 13.1 13.8 Rated speed [RPM] 1770 1465 1470 1475 1455 1460 1465 1.67 Slip [%] 2.33 2.00 1.67 3.00 2.67 2.33 Rated torque [kgfm] 12.3 12.4 12.3 12.3 15.0 14.9 14.9 Locked rotor torque [%] 240 200 229 260 170 190 220 Breakdown torque [%] 240 229 260 280 200 220 240 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 27s (cold) 21s (cold) Locked rotor time 36s (cold) 27s (cold) 27s (cold) 23s (cold) 23s (cold) 20s (hot) 15s (hot) 15s (hot) 15s (hot) 13s (hot) 13s (hot) 12s (hot) Noise level<sup>2</sup> 63.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 0.000 0.000 50% 93.0 92.1 92.1 91.6 90.0 90.5 91.2 Efficiency (%) 75% 93.0 92.5 92.8 92.5 90.2 91.0 91.7 100% 93.6 92.6 92.7 92.6 90.2 91.0 91.7 25% 0.00 0.00 50% 0.70 0.70 0.67 0.64 0.76 0.73 0.70 Power Factor 75% 0.80 0.81 0.79 0.76 0.83 0.82 0.80 100% 0.84 0.85 0.84 0.82 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.8 6.8 6.8 6.8 6.8 6.8 6.8 P2 (0,5;1,0) 5.8 5.8 5.8 5.8 5.8 5.8 5.8 P3 (0,25;1,0) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 P4 (0,9;0,5) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 Losses (%) P5 (0,5;0,5) 2.2 2.2 2.2 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 1.4 1.4 1.4 P7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 411 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 609 kgf Lubrication interval 20000 h 20000 h 11 g Lubricant amount 18 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 21/10/2024 1/9 Date

# DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			шец
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Rev.	Changes Summary	Performed	Checked	Date

Rev.		Changes Summary	Performed	Спескеа	Date
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Date	21/10/2024			2/9	

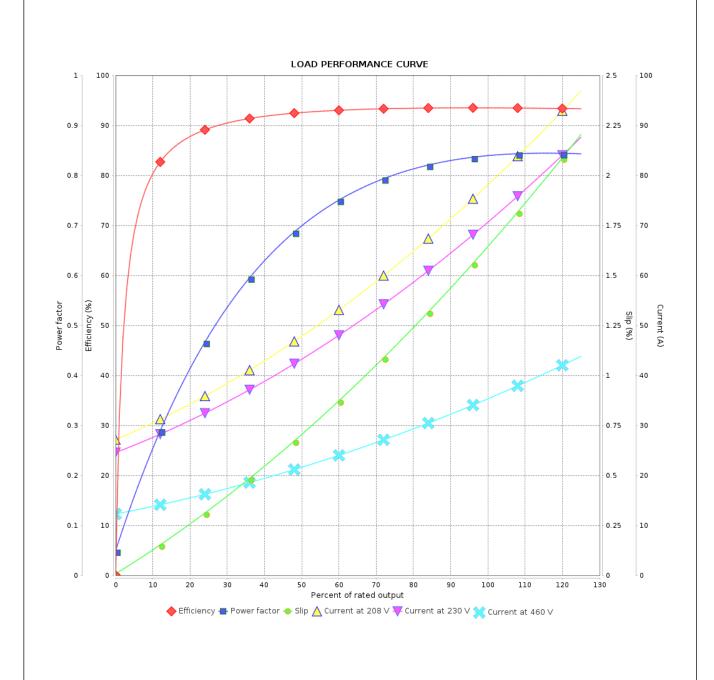
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11443945

Three-Phase



Performance		: 230/460 V 60 Hz 4P					
Rated current	Rated current : 70.2/35.1		: 70.2/35.1 A Moment of		: 0.2467 kgm	2	
LRC		: 6.1	Duty cycle		: Cont.(S1)		
Rated torque		: 12.3 kgfm	Insulation	Insulation class		: F	
Locked rotor tord	que	: 240 %	Service factor		: 1.25		
Breakdown torqu	ue	: 240 %	Temperat	Temperature rise			
Rated speed	ated speed : 1770 rpm		Design		: B		
Rev. Changes Summary			Performed	Checked	Date		

			3			
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by		-			Page	Revision
Date	21/10/2024				3/9	

### Three Phase Induction Motor - Squirrel Cage



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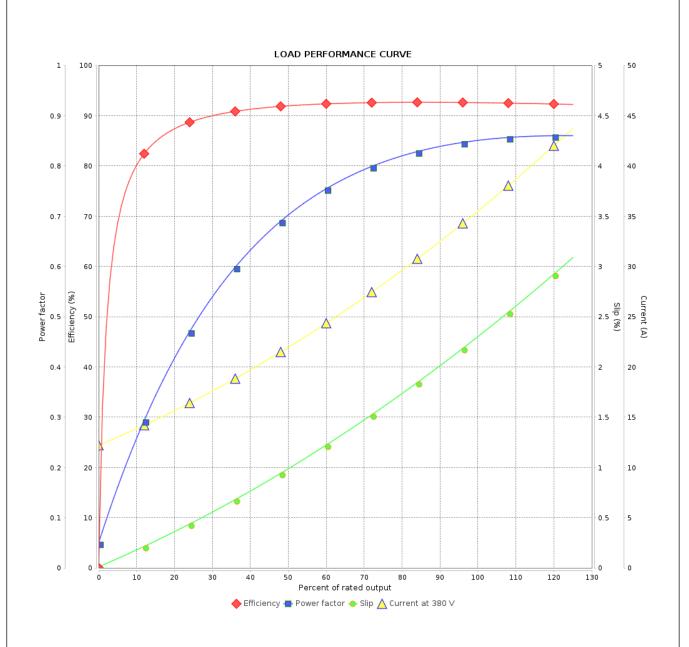
Date

21/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11443945



Performance	: 3	880 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 jue : 2 ie : 2	5.7 A 5.0 2.4 kgfm 200 % 229 % 465 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.2467 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		1	Performed	Checked	Date
Performed by					·	

Page

4/9

Revision

### Three Phase Induction Motor - Squirrel Cage

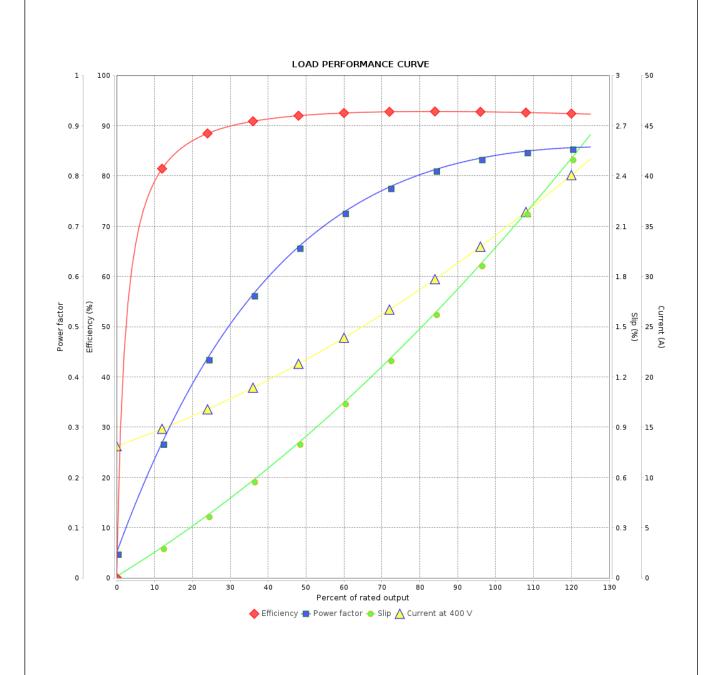


Customer :

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Product line : W22 NEMA Premium Efficiency Product code : 11443945

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
renomance	. 400 V 30 HZ 4F IE3				
Rated current	: 34.3 A	Moment of	of inertia (J)	: 0.2467 kgm²	
LRC	: 6.7	Duty cycle	e	: Cont.(S1)	
Rated torque	: 12.3 kgfm	Insulation	class	: F ` ´	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
Rev. Changes Summary			Performed	Checked	Date
Performed by					

Date	21/10/2024		5/9	
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Page

Revision

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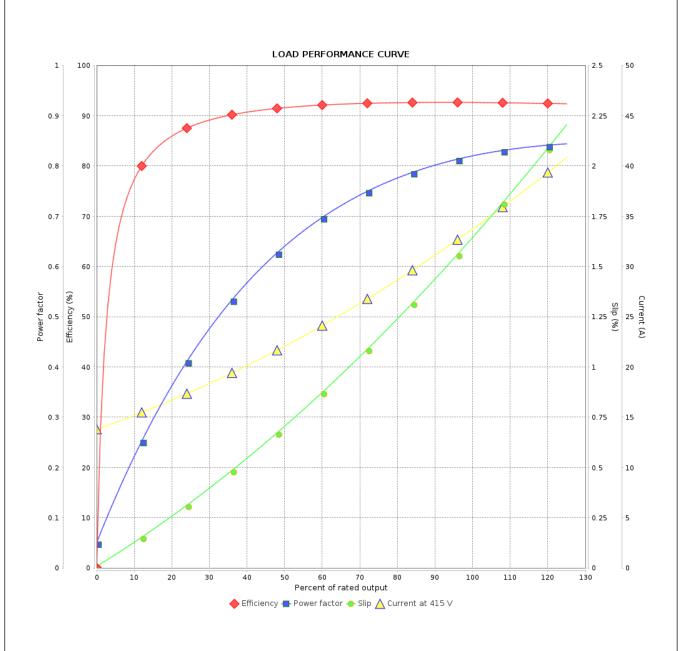


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11443945



Performance : 415 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.9 A : 7.3 : 12.3 kgfm : 260 % : 280 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/9

21/10/2024

Date

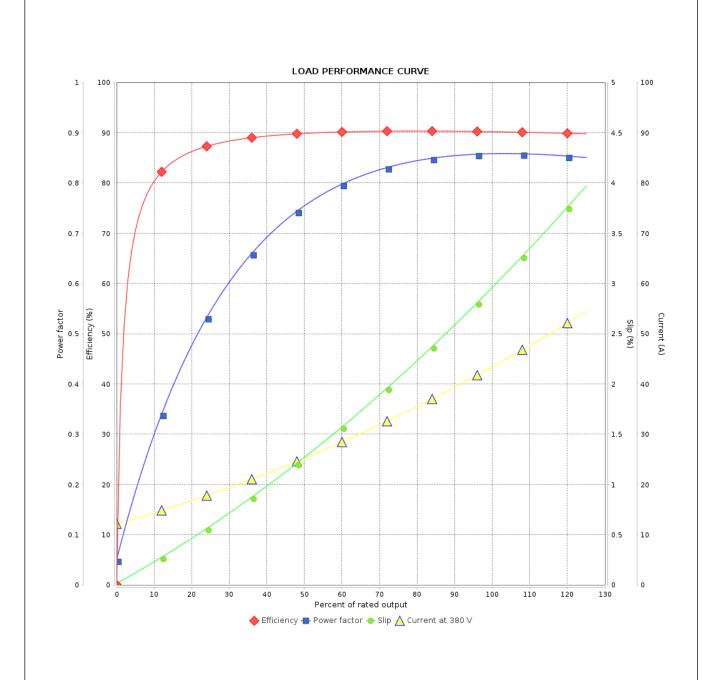
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11443945

Three-Phase



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.1 A : 5.3 : 15.0 kgfm : 170 % : 200 % : 1455 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

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Checked by			Page	Revision		
Date	21/10/2024		7/9			
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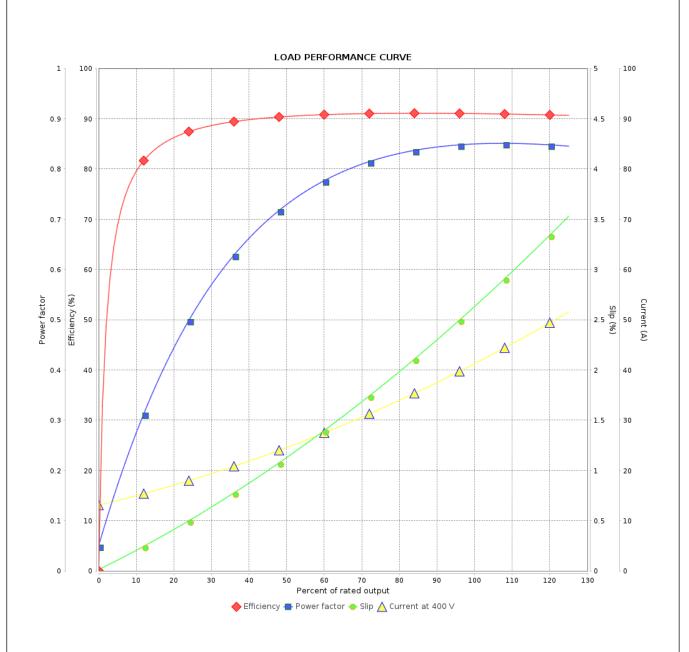


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11443945



Performance	: 400 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 6.0 : 14.9 kgfm : 190 % : 220 % : 1460 rpm	Moment of inertia (J) : 0.2467 kgm Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B		: F : 1.00 : 105 K	
Rev.	Rev. Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

8/9

21/10/2024

Date

### Three Phase Induction Motor - Squirrel Cage



Customer :

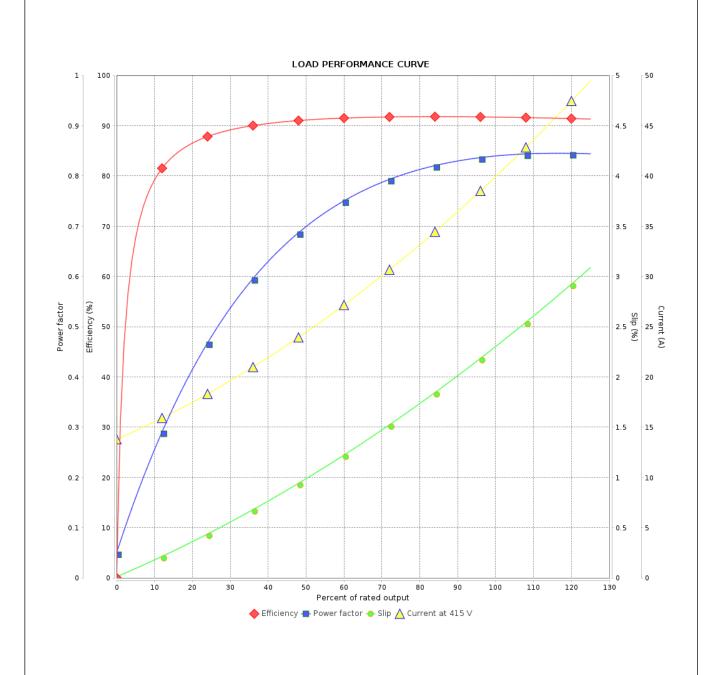
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Date

21/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11443945

Three-Phase



Performance		: 415 V 50 Hz 4P	E2			
Rated current : 39.7 A LRC : 6.0 Rated torque : 14.9 kgfm Locked rotor torque : 220 % Breakdown torque : 240 % Rated speed : 1465 rpm		Duty cyc Insulatio Service	n class	: 0.2467 kgm : Cont.(S1) : F : 1.00 : 105 K : B	2	
Rev.	Changes Summary		mary	Performed	Checked	Date
Performed by						

Page

9/9

Revision

