DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12447065 Three-Phase : 324/6T 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 : 237 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.4843 kgm² Design : B Output [HP] 25 20 20 25 20 25 25 Poles 6 6 6 6 6 6 6 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 36.8 61.6/30.8 30.3 29.4 29.0 35.1 34.2 L. R. Amperes [A] 382/191 182 191 203 180 189 199 LRC [A] 6.2x(Code 6.0x(Code | 6.5x(Code H) | 7.0x(Code J) | 4.9x(Code E) | 5.4x(Code F) | 5.8x(Code G) G) G) No load current [A] 13.2 28.0/14.0 13.2 14.2 14.9 14.2 14.9 Rated speed [RPM] 1180 980 983 985 975 975 980 Slip [%] 1.67 2.00 1.70 1.50 2.50 2.50 2.00 Rated torque [kgfm] 15.4 14.8 14.8 14.7 18.6 18.6 18.5 Locked rotor torque [%] 210 200 229 250 160 180 200 Breakdown torque [%] 260 250 290 310 200 229 250 1.00 Service factor 1.25 1.00 1.15 1.15 1.15 1.15 Temperature rise 80 K 32s (cold) 32s (cold) 32s (cold) Locked rotor time 46s (cold) 32s (cold) 32s (cold) 32s (cold) 26s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) Noise level² 62.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 25% 50% 92.4 91.1 91.1 91.1 91.7 91.7 91.7 Efficiency (%) 75% 93.0 91.8 92.2 92.2 92.4 92.4 92.4 100% 93.0 91.6 92.2 92.2 91.0 91.7 91.7 25% 50% 0.65 0.63 0.60 0.57 0.71 0.68 0.65 Power Factor 75% 0.76 0.76 0.74 0.71 0.80 0.78 0.77 100% 0.81 0.82 0.80 0.78 0.84 0.83 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.3 8.8 8.2 8.2 8.7 8.7 9.5 P2 (0,5;1,0) 7.4 6.1 6.8 6.8 8.0 7.3 7.3 P3 (0,25;1,0) 7.2 5.9 6.7 6.7 7.8 7.1 7.1 P4 (0,9;0,5) 3.7 4.5 4.1 4.1 4.8 4.4 4.4 Losses (%) P5 (0,5;0,5) 2.9 2.5 3.1 2.9 3.3 3.1 3.1 P6 (0,5;0,25) 1.7 2.1 2.0 2.0 2.3 2.1 2.1 P7 1.2 1.5 1.4 1.4 1.6 1.5 1.5 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6312 C3 6212 C3 : 464 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 701 kgf Lubrication interval 20000 h 20000 h 13 g Lubricant amount 21 g 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

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Revision

Page

Three Pha	se Induction	Motor - Squirrel Cage			ШЕЦ
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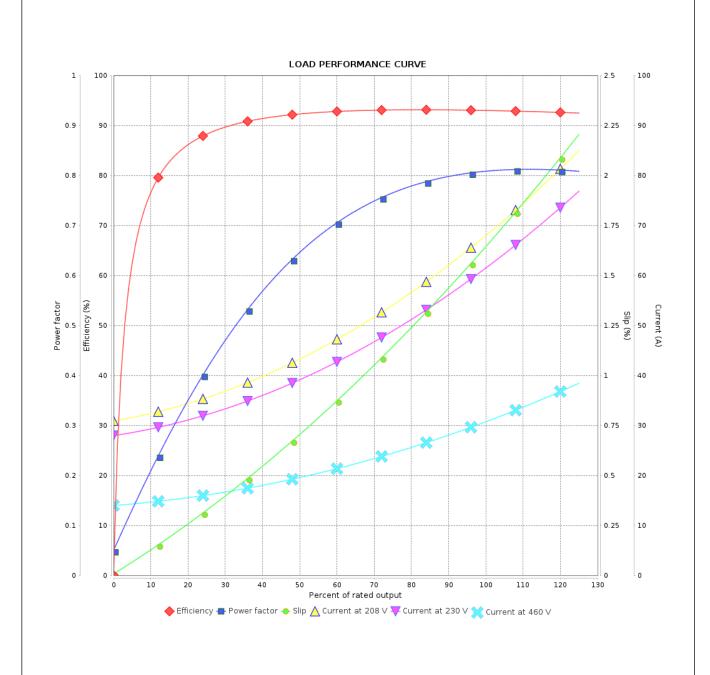
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12447065

Three-Phase



Performance	: 230/460 V 60 Hz 6P					
Rated current	: 61.6/30.8 A	Moment of	of inertia (J)	: 0.4843 kgm²		
LRC	: 6.2	` '		Duty cycle : Cont.(S1)		
Rated torque	: 15.4 kgfm	Insulation class		: F		
Locked rotor torque	: 210 %	Service factor		: 1.25		
Breakdown torque	: 260 %	Temperature rise		: 80 K		
Rated speed	: 1180 rpm	Design		: B		
Rev.	Changes Summary		Performed	Checked	Date	

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Rev.	Changes Summary		Performed	Checked	Date	
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Date	21/10/2024				3/9	

Three Phase Induction Motor - Squirrel Cage



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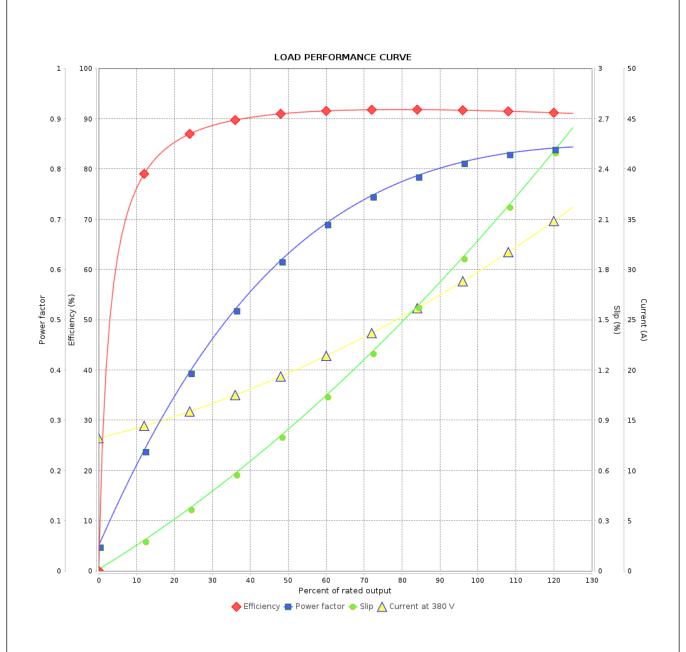
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

12447065

4/9



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 30.3 A : 6.0 : 14.8 kgfm : 200 % : 250 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4843 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
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21/10/2024

Date

Three Phase Induction Motor - Squirrel Cage



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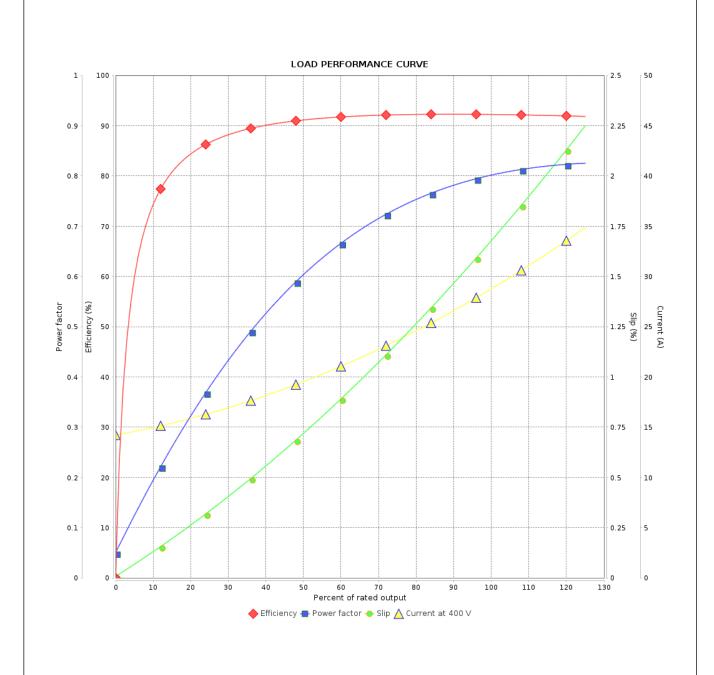
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21/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 12447065

Three-Phase



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.4 A : 6.5 : 14.8 kgfm : 229 % : 290 % : 983 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4843 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

5/9

Revision

Three Phase Induction Motor - Squirrel Cage



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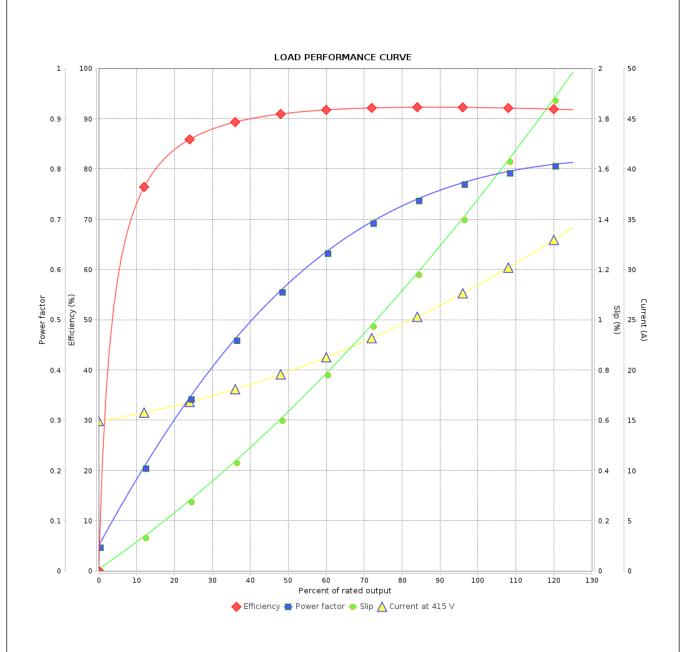
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 1:

12447065

6/9



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.0 A : 7.0 : 14.7 kgfm : 250 % : 310 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4843 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

21/10/2024

Date

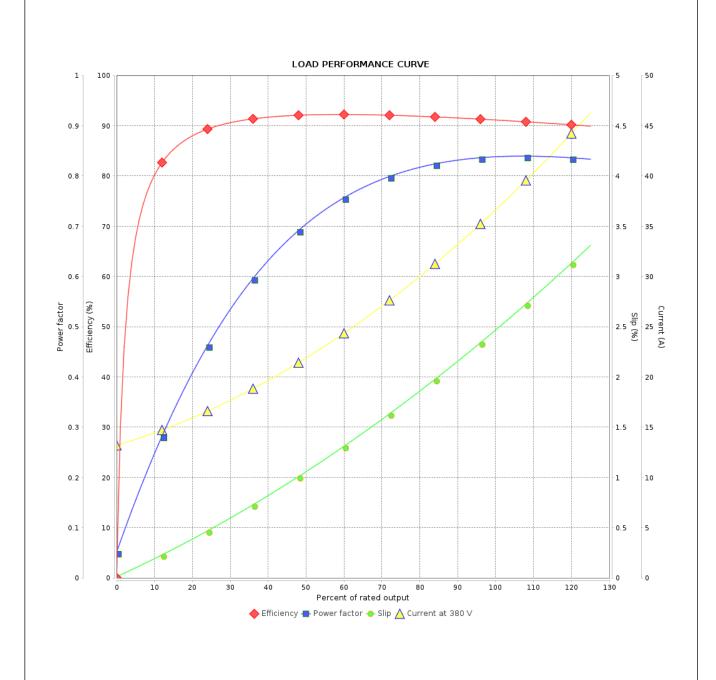
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12447065

Three-Phase



	: 380 V 50 Hz 6P IE2				
	: 36.8 A	Moment of	of inertia (J)	: 0.4843 kgm²	
	: 4.9	Duty cycle	9	: Cont.(S1)	
Rated torque : 18.6 kgfm		Insulation class		: F	
		Service factor		: 1.00	
ıe	: 200 %	Temperature rise		: 80 K	
Rated speed : 975 rpm		Design		: B	
Rev. Changes Summary			Performed	Checked	Date
	•	: 36.8 A : 4.9 : 18.6 kgfm : 160 % :e : 200 % : 975 rpm	: 36.8 A	: 36.8 A : 4.9 : 18.6 kgfm Juty cycle Insulation class Service factor Temperature rise : 975 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 36.8 A : 4.9 : 18.6 kgfm : 160 % Insulation class Insul

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Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by					Page	Revision
Date	21/10/2024				7/9	

Three Phase Induction Motor - Squirrel Cage



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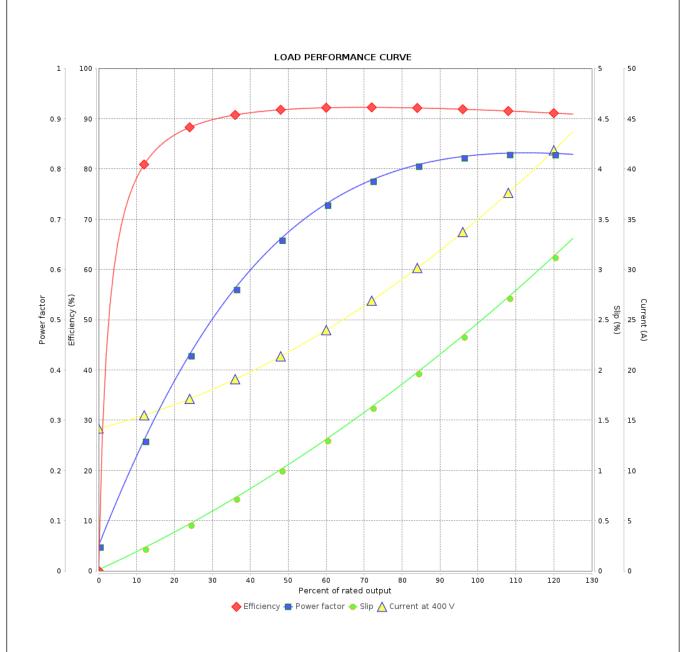
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code :

12447065

8/9



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.1 A : 5.4 : 18.6 kgfm : 180 % : 229 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4843 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

21/10/2024

Date

Three Phase Induction Motor - Squirrel Cage



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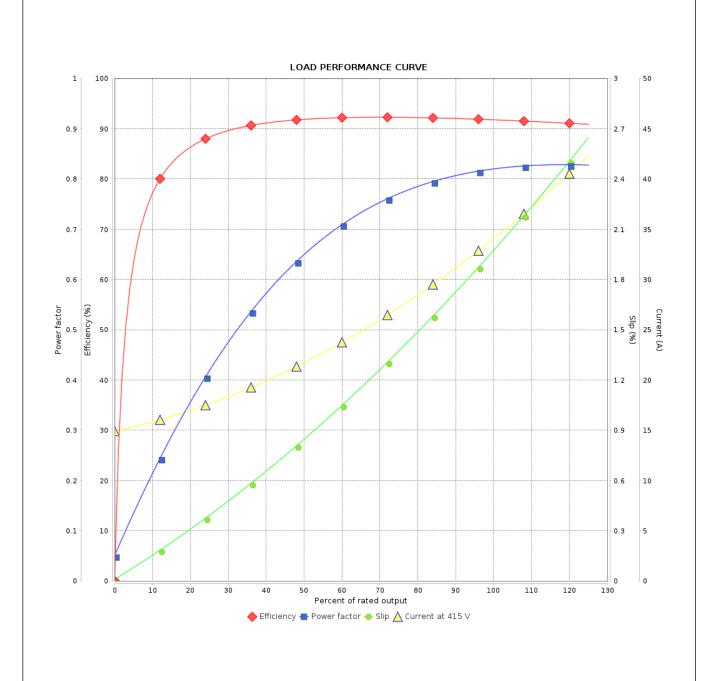
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Product line : W22 NEMA Premium Efficiency Product code : 12447065

Three-Phase



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Performance	. 41	5 V 50 Hz 6P IE3				
Rated current	: 34	.2 A	Moment o	f inertia (J)	: 0.4843 kgm²	
LRC	: 5.8	3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 18	.5 kgfm	Insulation	Insulation class		
Locked rotor torq	ue : 20	0 %	Service fa	Service factor		
Breakdown torqu	e : 25	0 %	Temperatu	Temperature rise		
Rated speed	Rated speed : 980 rpm		Design		: B	
Rev.	Rev. Changes Summary		ry	Performed	Checked	Date
Performed by						

Page

9/9

Revision