DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12424297 : 284/6TS 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. : 183 kg Protection degree : IP56 Moment of inertia (J) : 0.1135 kgm² Design : B Output [HP] 25 20 20 25 20 25 25 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 460 380 400 415 415 35.7 Rated current [A] 29.1 28.5 27.4 26.7 33.6 32.5 L. R. Amperes [A] 183 177 189 200 175 185 202 LRC [A] 6.3x(Code 6.2x(Code | 6.9x(Code H) | 7.5x(Code J) | 4.9x(Code E) | 5.5x(Code F) | 6.2x(Code G) G) G) No load current [A] 8.20 8.00 8.20 8.70 7.70 8.20 8.70 Rated speed [RPM] 3545 2945 2950 2955 2920 2930 2935 Slip [%] 1.53 1.83 1.67 1.50 2.67 2.33 2.17 Rated torque [kgfm] 5.12 4.93 4.92 4.91 6.21 6.19 6.18 Locked rotor torque [%] 240 220 250 240 180 200 220 Breakdown torque [%] 250 240 270 300 200 200 240 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 Locked rotor time 30s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 17s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) Noise level² 72.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 90.8 89.0 89.4 88.9 88.8 89.8 90.8 50% 91.0 90.2 90.3 89.8 89.0 90.0 91.0 Efficiency (%) 75% 91.7 90.7 91.1 91.1 89.5 90.2 91.0 100% 91.7 91.9 91.9 91.9 89.5 90.2 91.0 25% 0.55 0.52 0.50 0.62 0.56 0.54 0.59 50% 0.78 0.79 0.76 0.73 0.83 0.79 0.81 Power Factor 75% 0.85 0.84 0.83 0.87 0.85 0.87 0.86 100% 0.87 0.87 0.86 0.85 0.88 0.88 0.87 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.5 8.5 8.5 8.5 8.5 8.5 8.5 P2 (0,5;1,0) 6.7 6.7 6.7 6.7 6.7 6.7 6.7 P3 (0,25;1,0) 6.4 6.4 6.4 6.4 6.4 6.4 6.4 P4 (0,9;0,5) 4.3 4.3 4.3 4.3 4.3 4.3 4.3 Losses (%) P5 (0,5;0,5) 2.5 2.5 2.5 2.5 2.5 2.5 2.5 P6 (0,5;0,25) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 P7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 120 kgf Max. traction Inpro/Seal Inpro/Seal Sealing Max. compression : 304 kgf Lubrication interval 14000 h 17000 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

1/9

13/01/2024

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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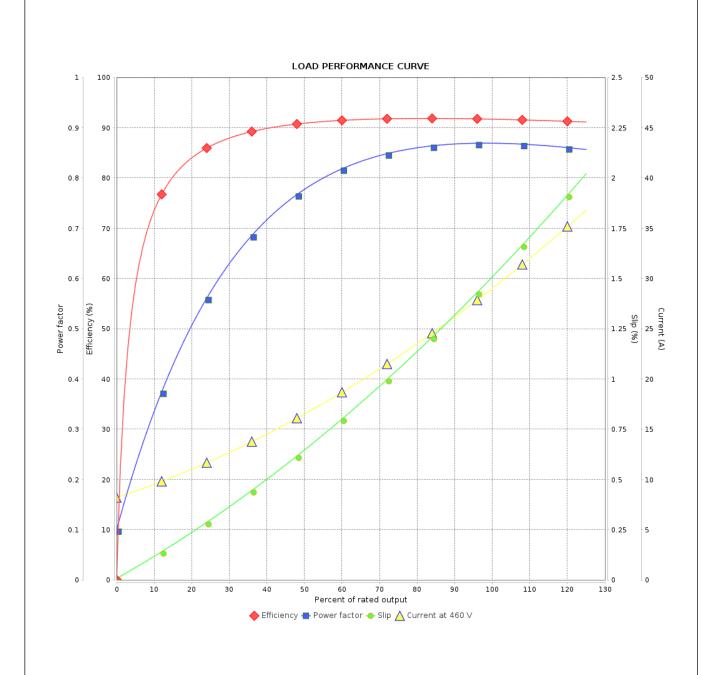
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12424297

Three-Phase



Performance	: 460 V 60 Hz 2P				
Rated current	: 29.1 A	Moment o	of inertia (.I)	: 0.1135 kgm²	2
LRC	: 6.3	Moment of inertia (J) Duty cycle		: Cont.(S1)	
Rated torque	: 5.12 kgfm	Insulation class		: F ` ´	
Locked rotor torque	: 240 %	Service factor		: 1.25	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 3545 rpm	Design		: B	
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Rev.		Changes Summary		Performed	Checked	Date
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Date	13/01/2024				3/9	

Three Phase Induction Motor - Squirrel Cage

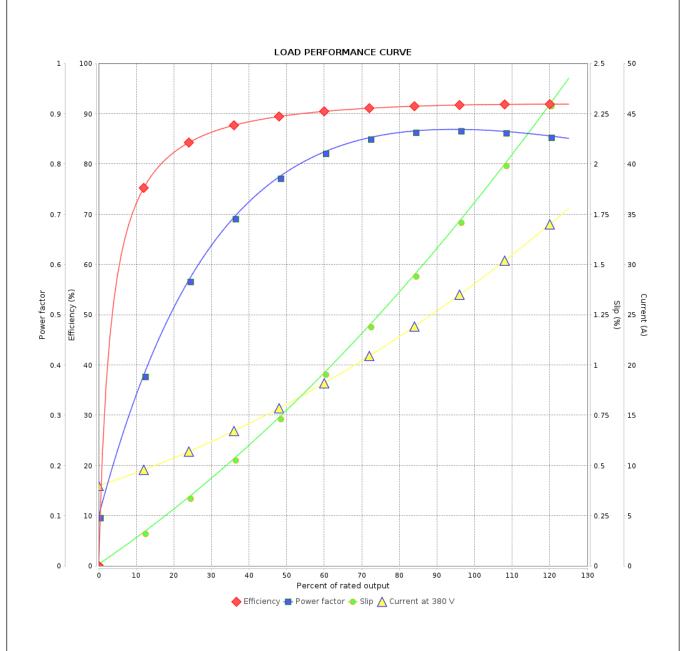


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 12424297



Performance	: 380 V 50 Hz	: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1135 kgm : Cont.(S1) : F : 1.00 : 80 K : B	2				
Rev.	Changes	mmary Performed	Checked	Date				
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4/9

13/01/2024

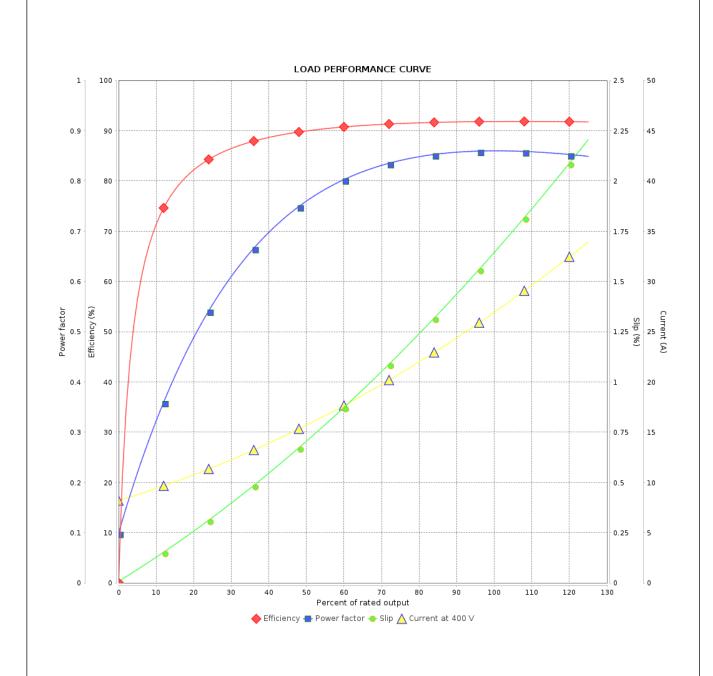
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12424297

Three-Phase



Performance	: 4	00 V 50 Hz 2P IE3				
Rated current	: 2	27.4 A	Moment of	of inertia (J)	: 0.1135 kgm²	
LRC	: 6	5.9	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 4	l.92 kgfm	Insulation	class	: F	
Locked rotor tord	que : 2	250 %	Service fa	actor	: 1.00	
Breakdown torque		270 %	Temperature rise		: 80 K	
Rated speed	: 2	950 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024	7			5/9	

Three Phase Induction Motor - Squirrel Cage



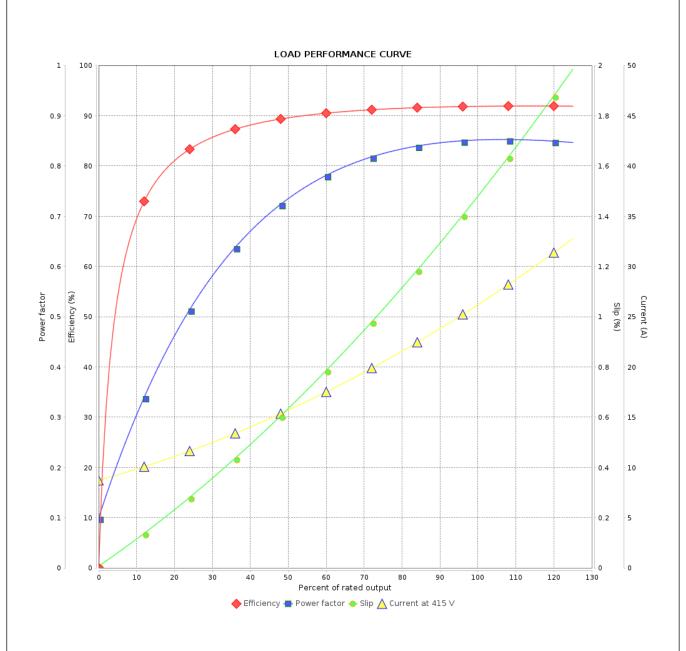
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code:

12424297

6/9



Performance		: 415 V 50 Hz 2P IE3							
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 7. : 4. que : 2 ⁴ ue : 30	91 kgfm 40 % 00 %	Duty cycle Insulation Service fa Temperati	class actor	: 0.1135 kgm ² : Cont.(S1) : F : 1.00 : 80 K	2			
Rated speed	: 29	955 rpm	Design		: B				
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Checked by					Page	Revision			

13/01/2024

Three Phase Induction Motor - Squirrel Cage

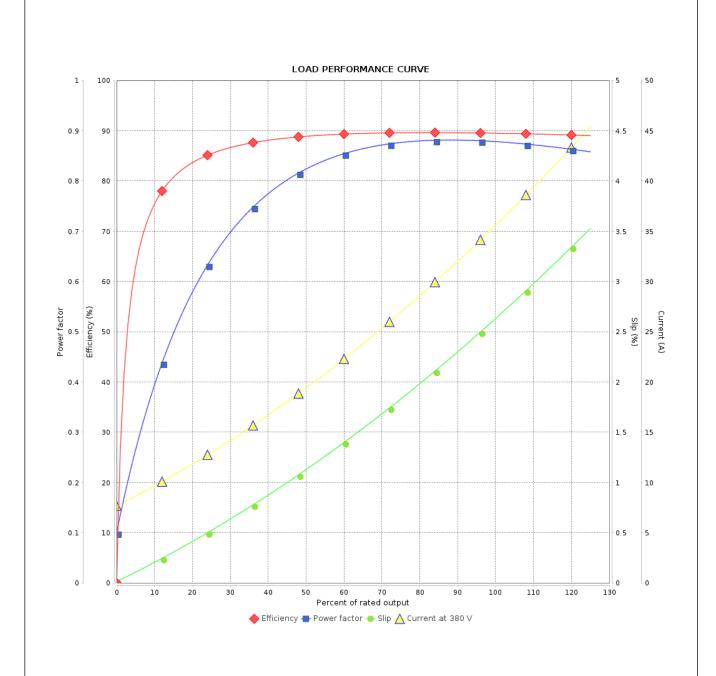


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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12424297

Three-Phase



Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.7 A : 4.9 : 6.21 kgfm : 180 % : 200 % : 2920 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1135 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Date	13/01/2024		7/9	
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Page

Revision

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Date

13/01/2024

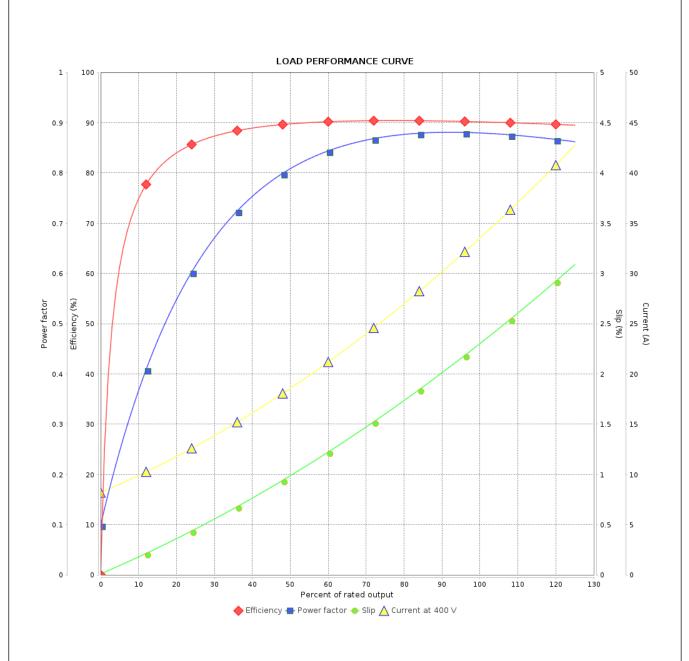
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

12424297

8/9



Performance : 400 V 50 Hz 2P IE1 Rated current : 33.6 A Moment of inertia (J) : 0.1135 kgm² **LRC** Duty cycle : Cont.(S1) : 5.5 Insulation class Rated torque : 6.19 kgfm : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

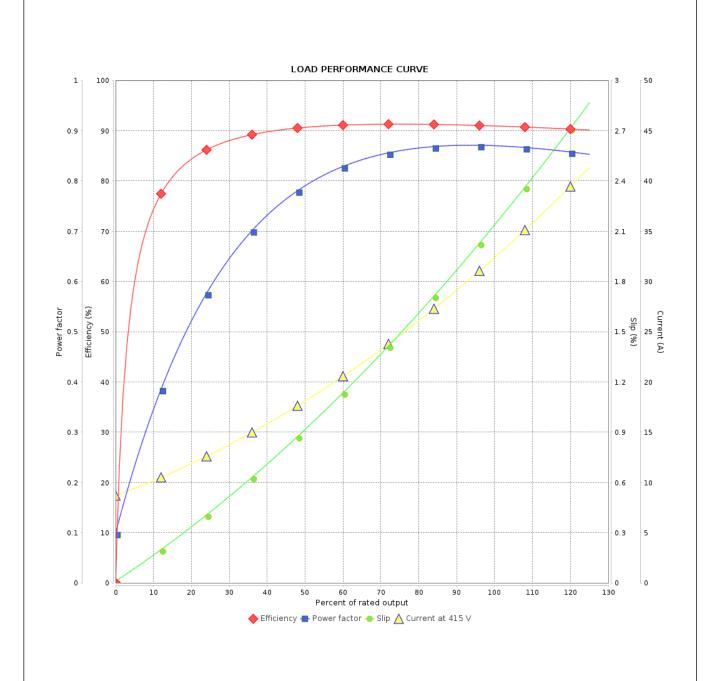
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12424297

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 32.5 A Moment of inertia (J) : 0.1135 kgr : 6.2 Duty cycle : Cont.(S1) : 6.18 kgfm Insulation class : F : 220 % Service factor : 1.00 : 240 % Temperature rise : 105 K : 2935 rpm Design : B		Duty cycle Insulation class Service factor Temperature rise		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

9/9

13/01/2024