DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 13531463 Efficiency Three-Phase : 143/5TC 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 : 28.1 kg Altitude : 1000 m.a.s.l. Protection degree : IP56 Moment of inertia (J) : 0.0067 kgm² Design : B Output [HP] 0.75 0.75 1 0.75 1 1 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 1.73 1.60 1.62 1.66 1.96 1.94 1.95 L. R. Amperes [A] 9.41 10.7 9.28 9.88 10.5 10.1 10.7 LRC [A] 6.2x(Code K) 5.8x(Code K) 6.1x(Code L) 6.3x(Code 4.8x(Code | 5.2x(Code H) | 5.5x(Code J) M) G) No load current [A] 1.10 1.05 1.15 1.25 1.05 1.15 1.25 Rated speed [RPM] 1160 960 970 970 940 950 950 Slip [%] 3.33 4.00 3.00 3.00 6.00 5.00 5.00 Rated torque [kgfm] 0.626 0.567 0.561 0.561 0.772 0.764 0.764 Locked rotor torque [%] 260 280 300 320 200 229 250 220 Breakdown torque [%] 300 310 330 340 260 280 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 36s (cold) 36s (cold) Locked rotor time 50s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 28s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level² 50.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 25% 50% 77.0 74.8 73.2 70.7 77.0 75.5 74.0 Efficiency (%) 75% 82.0 78.4 77.5 75.8 80.0 80.0 78.5 100% 82.5 79.3 78.9 77.9 78.5 78.5 78.5 25% 50% 0.45 0.44 0.41 0.38 0.53 0.49 0.46 Power Factor 75% 0.57 0.57 0.53 0.50 0.66 0.62 0.59 100% 0.66 0.66 0.62 0.59 0.74 0.71 0.68 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 20.0 20.0 20.0 20.0 20.0 20.0 20.0 P2 (0,5;1,0) 16.7 16.7 16.7 16.7 16.7 16.7 16.7 P3 (0,25;1,0) 16.9 16.9 16.9 16.9 16.9 16.9 16.9 P4 (0,9;0,5) 12.6 12.6 12.6 12.6 12.6 12.6 12.6 Losses (%) P5 (0,5;0,5) 9.2 9.2 9.2 9.2 9.2 9.2 9.2 P6 (0,5;0,25) 7.6 7.6 7.6 7.6 7.6 7.6 7.6 P7 5.8 5.8 5.8 5.8 5.8 5.8 5.8 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6205 C3 6204 C3 : 47 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 75 kgf Lubrication interval 20000 h 20000 h 4 g Lubricant amount 4 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

Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage



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Page

3/9

Revision

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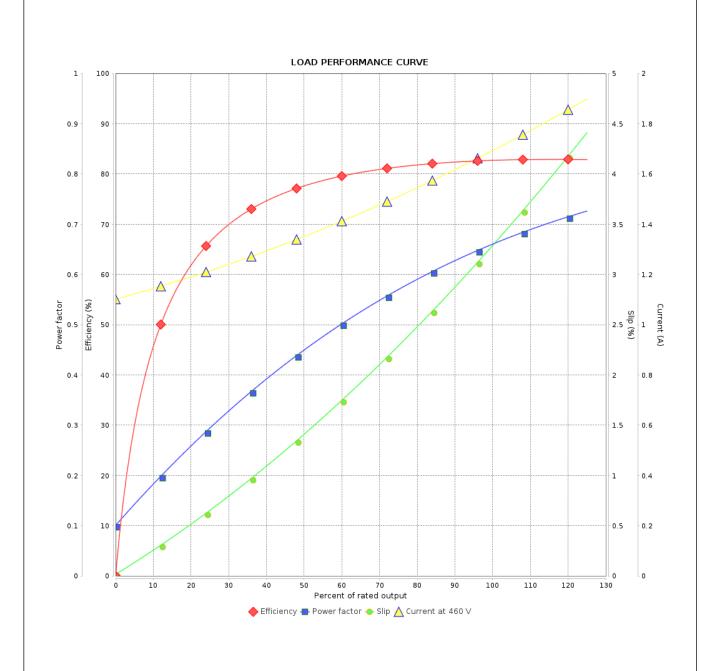
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21/10/2024

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 6P					
Rated current	: 1.73 A	Moment of inertia (J)		: 0.0067 kgm²		
LRC	: 6.2	Duty cycle		: Cont.(S1)		
Rated torque	: 0.626 kgfm	Insulation class		: F		
Locked rotor torque	: 260 %	Service factor		: 1.25		
Breakdown torque	: 300 %	Temperature rise		: 80 K		
Rated speed	: 1160 rpm	Design		: B		
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Three Phase Induction Motor - Squirrel Cage



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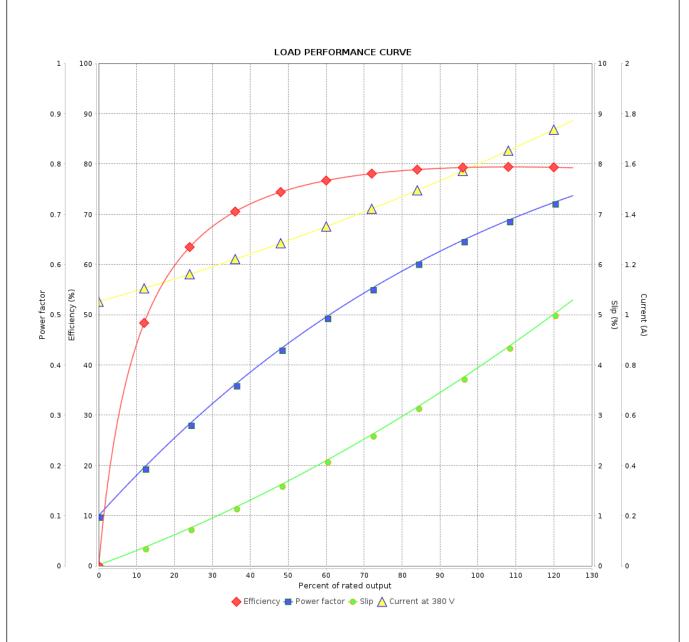
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21/10/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13531463



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.60 A : 5.8 : 0.567 kgfm : 280 % : 310 % : 960 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

4/9

Revision

Three Phase Induction Motor - Squirrel Cage

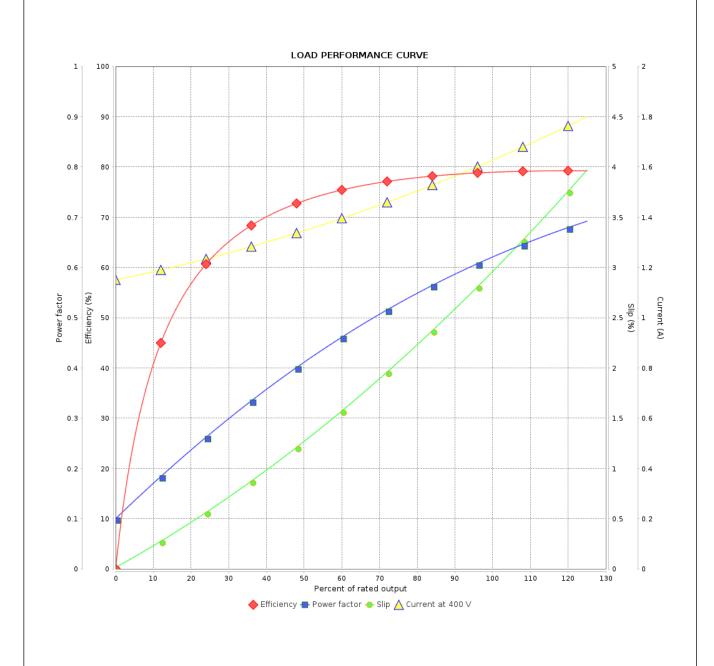


Customer :

Product line : W22 IEEE 841 NEMA Premium Product

Efficiency Three-Phase

Product code: 13531463



Performance	: 40	00 V 50 Hz 6P IE3					
Rated current		62 A	Moment of inertia (J)		: 0.0067 kgm²		
LRC	: 6.	· •	Duty cycle		: Cont.(S1)		
Rated torque	: 0.	.561 kgfm	Insulation	class	: F		
Locked rotor tord	cked rotor torque : 300 % Service factor		ctor	: 1.00			
Breakdown torqu	ue : 33	30 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 9	70 rpm Design			: B		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	21/10/2024	1			5/9		

Three Phase Induction Motor - Squirrel Cage

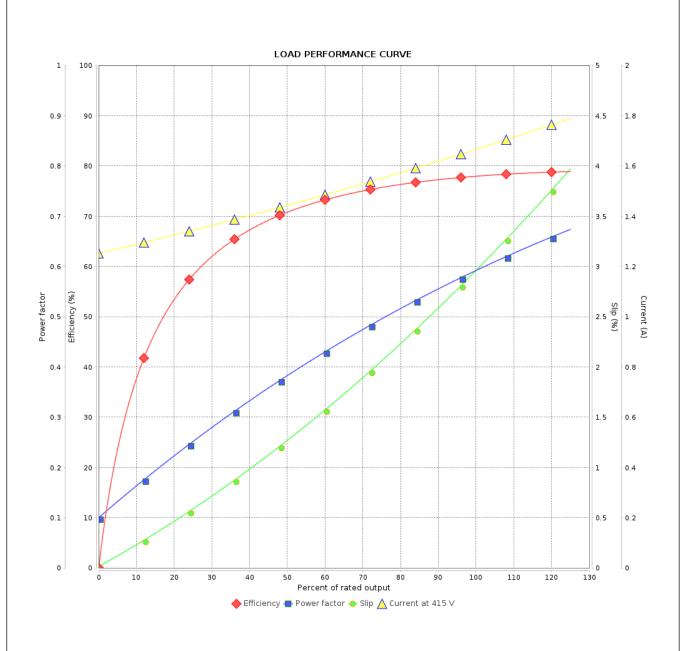


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13531463



Performance	: 415 V 50 Hz 6P IE3						
1 ellollilance	.413 V 30 112 01 1123	413 V 30 112 01 1E3					
Rated current	: 1.66 A	Moment of inertia (J)		: 0.0067 kgm²	2		
LRC	: 6.3	Duty cycle		: Cont.(S1)			
Rated torque	: 0.561 kgfm	Insulation class		: F ` ´			
Locked rotor torque	: 320 %	Service factor		: 1.00			
Breakdown torque	: 340 %	Temperature rise		: 80 K			
Rated speed	: 970 rpm	Design		: B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

6/9

21/10/2024

Date

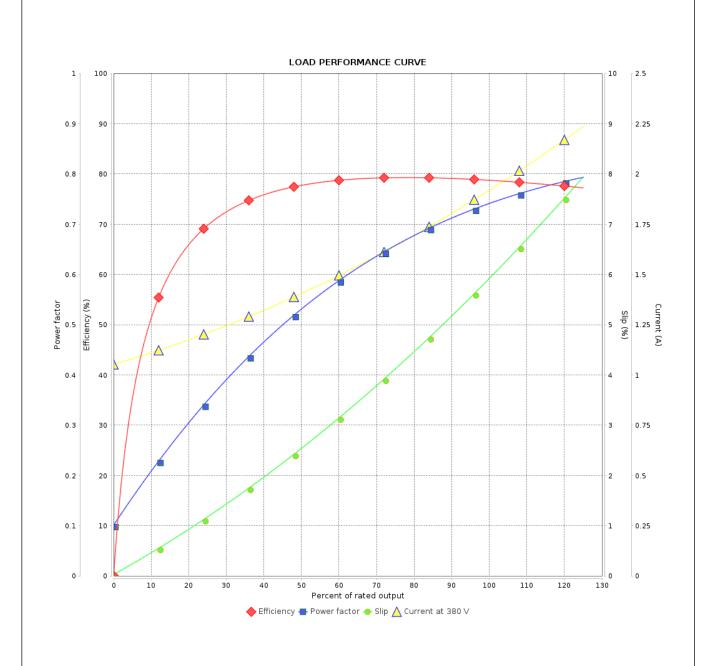
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 13531463

Efficiency Three-Phase



		·					
Performance		: 380 V 50 Hz 6P IE2	2				
Rated current	current : 1.96 A Moment of inertia (J)		f inertia (J)	: 0.0067 kgm²			
LRC		: 4.8	Duty cycle		: Cont.(S1)		
Rated torque		: 0.772 kgfm	Insulation	Insulation class		: F	
Locked rotor torqu	Locked rotor torque : 200 % Service factor		ctor	: 1.00			
Breakdown torque	Breakdown torque		Temperati	Temperature rise			
Rated speed	ed speed : 940 rpm		Design		: B		
Rev.	Rev. Changes Summary		У	Performed	Checked	Date	

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

Three Phase Induction Motor - Squirrel Cage

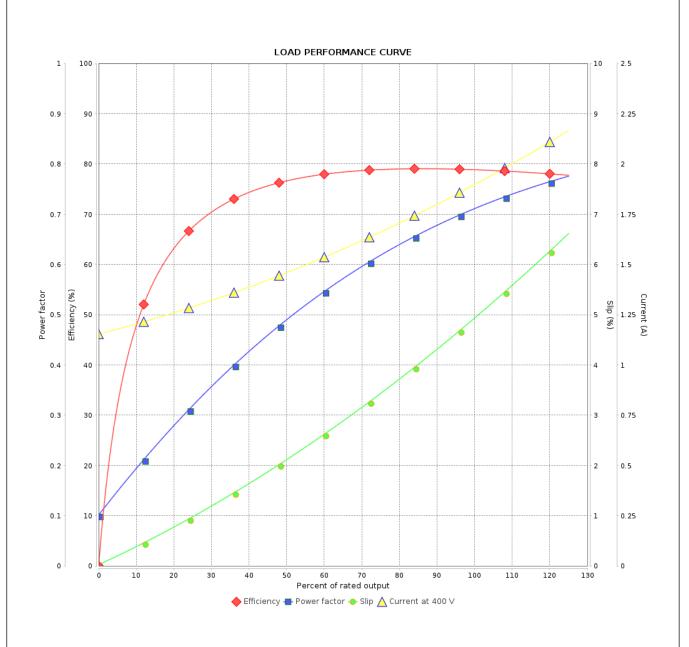


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13531463



: 400 V 50 Hz 6P IE2 : 1.94 A								
. 1 0 1 1		: 400 V 50 Hz 6P IE2						
: 1.94 A : 5.2 : 0.764 kgfm : 229 % : 260 % : 950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B					
Changes Summary		Performed	Checked	Date				
			Page	Revision				
	: 5.2 : 0.764 kgfm : 229 % : 260 % : 950 rpm	: 5.2 Duty cycle : 0.764 kgfm Insulation : 229 % Service fa : 260 % Temperatu : 950 rpm Design	: 5.2 : 0.764 kgfm : 229 % : 260 % : 950 rpm Duty cycle Insulation class Service factor Temperature rise Design	: 5.2 Duty cycle : Cont.(S1) : 0.764 kgfm Insulation class : F : 229 % Service factor : 1.00 : 260 % Temperature rise : 80 K : 950 rpm Design : B				

8/9

21/10/2024

Date

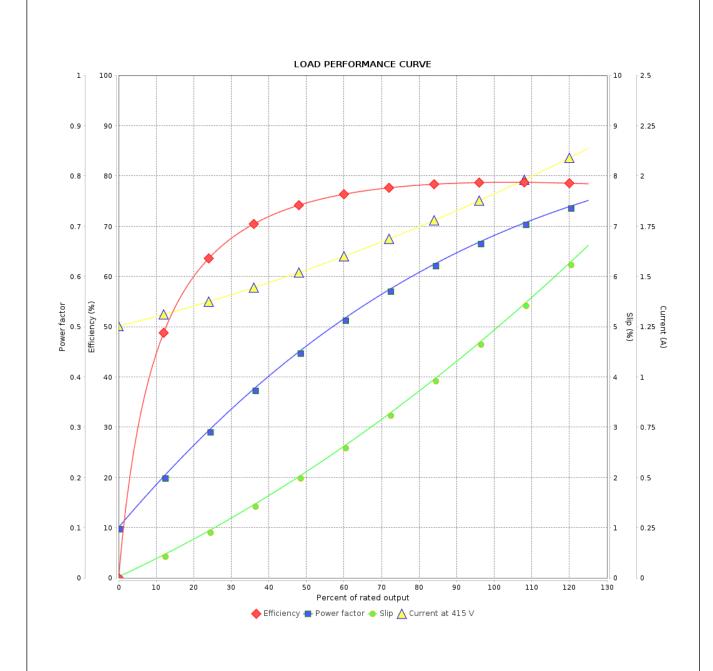
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 13531463

Efficiency Three-Phase



: 1.95 A : 5.5		f inertia (J)	: 0.0067 kgm²	!	
: 5.5	D. 4				
	Duty cycle		: Cont.(S1)		
: 0.764 kgfm	Insulation	Insulation class		:F	
rotor torque : 250 % Service factor		ctor	: 1.00		
: 280 %	Temperature rise		: 80 K		
: 950 rpm	Design		: B		
Changes Summary		Performed	Checked	Date	
	: 250 % : 280 % : 950 rpm	: 250 % Service fa : 280 % Temperatu : 950 rpm Design	: 250 % Service factor : 280 % Temperature rise : 950 rpm Design	: 250 % Service factor : 1.00 : 280 % Temperature rise : 80 K : 950 rpm Design : B	

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