DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943062 Efficiency Three-Phase Frame : 364/5T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight³ : 387 kg Protection degree : IP55 Moment of inertia (J) : 1.22 kgm² Design : B 40 40 Output [HP] 30 30 30 40 40 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 380 Rated voltage [V] 460 380 400 415 400 415 Rated current [A] 46.5 43.0 41.1 40.0 57.8 55.1 53.4 L. R. Amperes [A] 298 275 296 308 283 303 320 6.4x(Code LRC [A] 6.4x(Code | 7.2x(Code H) | 7.7x(Code J) | 4.9x(Code E) | 5.5x(Code F) | 6.0x(Code G) G) G) No load current [A] 16.5 16.0 17.0 17.8 16.0 17.0 17.8 Rated speed [RPM] 1183 985 987 988 975 980 982 Slip [%] 1.42 1.50 1.30 1.20 2.50 2.00 1.80 Rated torque [kgfm] 24.5 22.1 22.1 22.0 29.8 29.6 29.6 Locked rotor torque [%] 200 210 240 270 160 180 200 Breakdown torque [%] 240 250 280 310 190 210 229 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 32s (cold) Locked rotor time 37s (cold) 32s (cold) 32s (cold) 32s (cold) 32s (cold) 32s (cold) 21s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) Noise level² 66.0 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% 93.6 92.4 92.3 91.9 93.0 93.0 93.0 Efficiency (%) 75% 93.6 92.8 93.1 93.0 92.4 93.0 93.0 100% 94.1 92.5 93.0 93.2 91.7 92.4 93.0 25% 50% 0.73 0.68 0.66 0.63 0.78 0.76 0.73 Power Factor 75% 0.82 0.80 0.79 0.76 0.84 0.83 0.82 100% 0.86 0.84 0.83 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) 6.1 6.1 6.1 6.1 6.1 6.1 6.1 P2 (0,5;1,0) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 P3 (0,25;1,0) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 1.1 1.1 1.1 P7 0.8 0.8 8.0 8.0 8.0 8.0 8.0 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 570 kgf Max. traction Taconite Taconite Sealing : 957 kgf Max. compression Labyrinth Labyrinth Lubrication interval 17000 h 17000 h Lubricant amount 27 a 27 g Lubricant type Mobil Polyrex EM

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/10/2024			1/9	

DATA SHEET

Date

22/10/2024



Three Pha	se Inductioi	n Motor - Squirrel	Cage			
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must be eliminate (1) Looking the n (2) Measured at	ed. notor from the sha 1m and with tolera weight subject to rocess.	aft end. ance of +3dB(A).		e average values ipply, subject to th		
Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision

2/9

Three Phase Induction Motor - Squirrel Cage

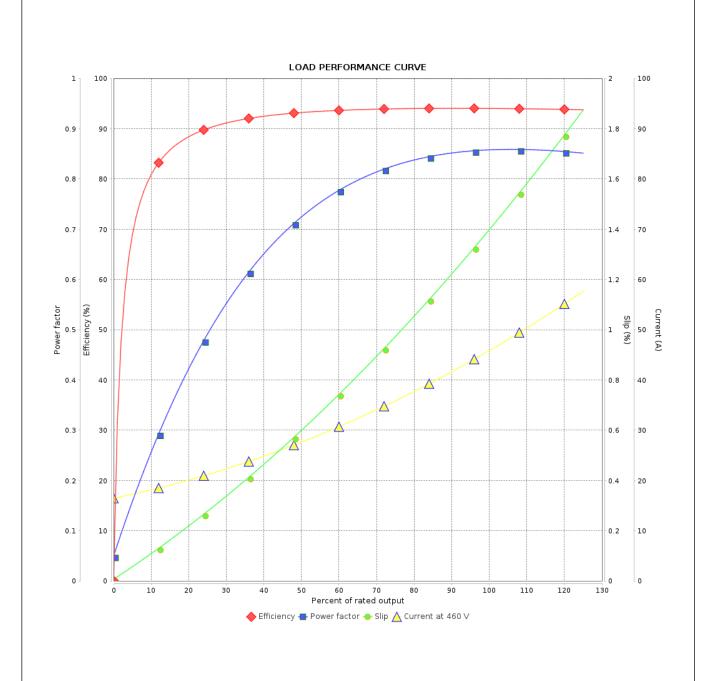


11943062

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 6P					
Rated current	: 46.5 A	Moment of	f inertia (J)	: 1.22 kgm²		
LRC	: 6.4	Duty cycle) · ·	: Cont.(S1)		
Rated torque	: 24.5 kgfm	Insulation class		Insulation class : F		
Locked rotor torque	: 200 %	Service fa	Service factor : 1.25			
Breakdown torque	: 240 %	Temperatu	ıre rise	: 80 K		
Rated speed	: 1183 rpm	Design		: B		
Rev.	Changes Summary		Performed	Checked	Date	

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/10/2024			3/9	

Three Phase Induction Motor - Squirrel Cage

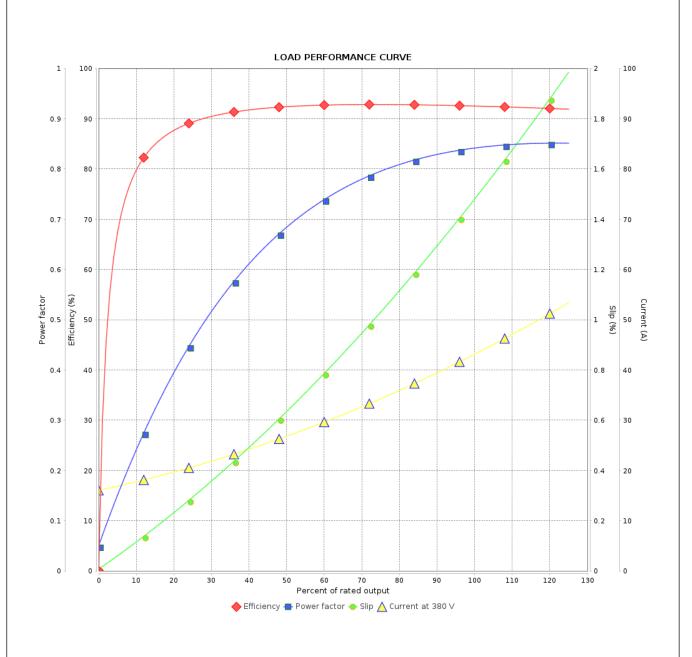


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943062



	·		·			
Performance	: 380 V 5	0 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed			Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Chan	ges Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision

4/9

22/10/2024

Date

Three Phase Induction Motor - Squirrel Cage

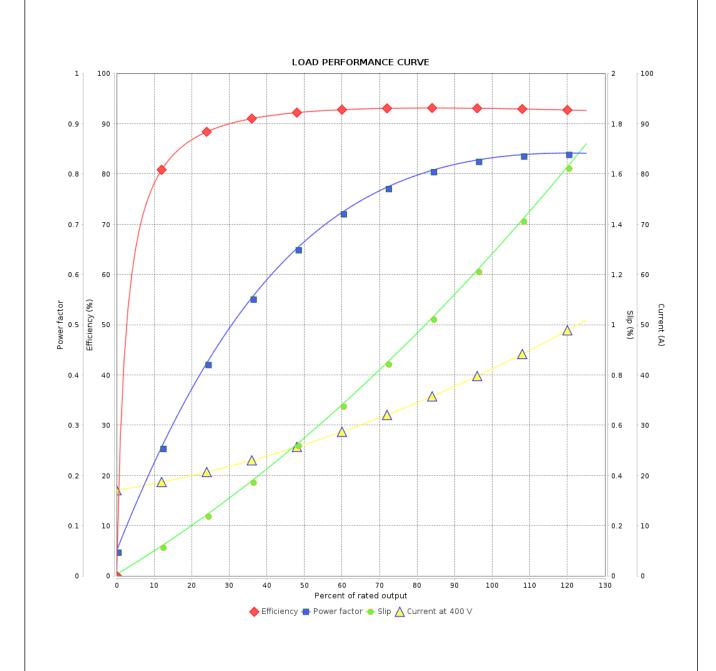


Customer :

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Efficiency Three-Phase

Product code: 11943062



Deufermen	. 400 V/ 50 LI= CD IF0				
Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 41.1 A	Moment of	of inertia (J)	: 1.22 kgm²	
LRC	: 7.2	Duty cycl	е	: Cont.(S1)	
Rated torque	: 22.1 kgfm	Insulation	class	: F	
Locked rotor torque	: 240 %	Service fa	actor	: 1.00	
Breakdown torque	: 280 %	Temperat	ure rise	: 80 K	
Rated speed	: 987 rpm	Design		: B	
Rev.	Changes Summary	1	Performed	Checked	Date

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Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	22/10/2024				5/9	

Three Phase Induction Motor - Squirrel Cage

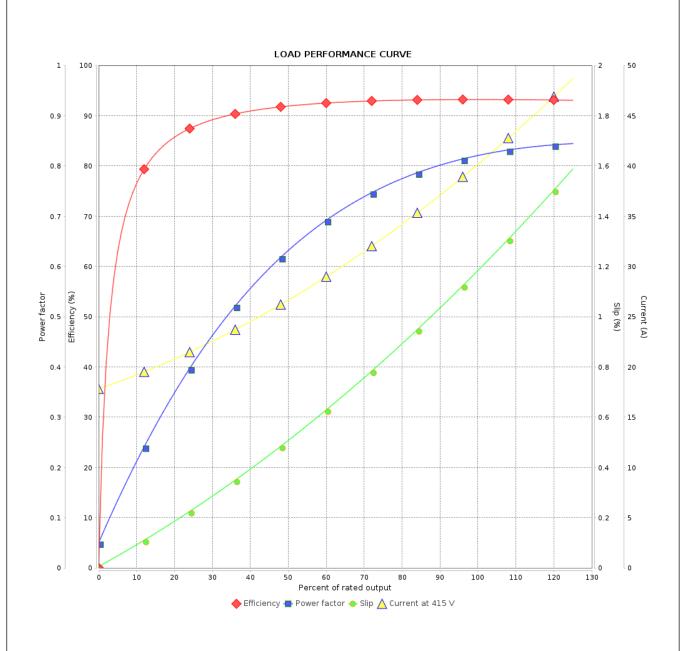


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		·		
Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.0 A : 7.7 : 22.0 kgfm : 270 % : 310 % : 988 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

6/9

22/10/2024

Date

Three Phase Induction Motor - Squirrel Cage

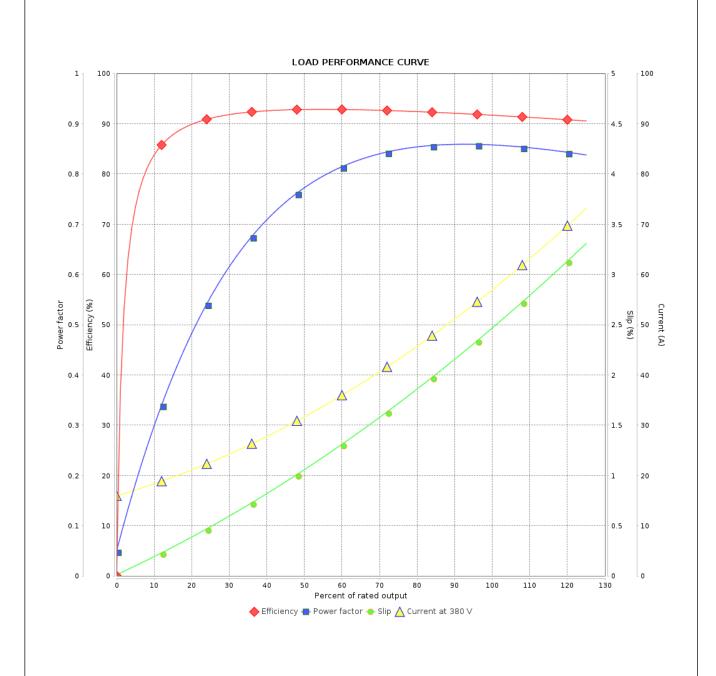


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Performance		: 380 V 50 Hz 6P IE2						
Rated current LRC		: 57.8 A : 4.9	` '		: 1.22 kgm² : Cont.(S1)			
Rated torque		: 29.8 kgfm	Insulation	Duty cycle Insulation class		Insulation class : F		
Locked rotor tord	•	: 160 % : 190 %		Service factor Temperature rise				
Rated speed		: 975 rpm	Design	are rise	: 80 K : B			
Rev.		Changes Summa	ry	Performed	Checked	Date		
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Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	22/10/2024				7/9	

Three Phase Induction Motor - Squirrel Cage

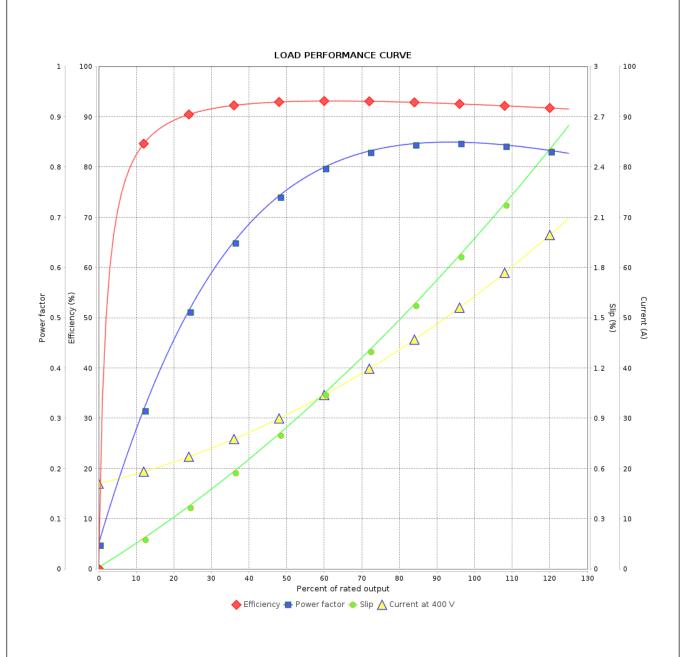


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Product code: 11943062



Performance	: 400 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 55.1 A : 5.5 : 29.6 kgfm : 180 % : 210 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

8/9

22/10/2024

Date

Three Phase Induction Motor - Squirrel Cage

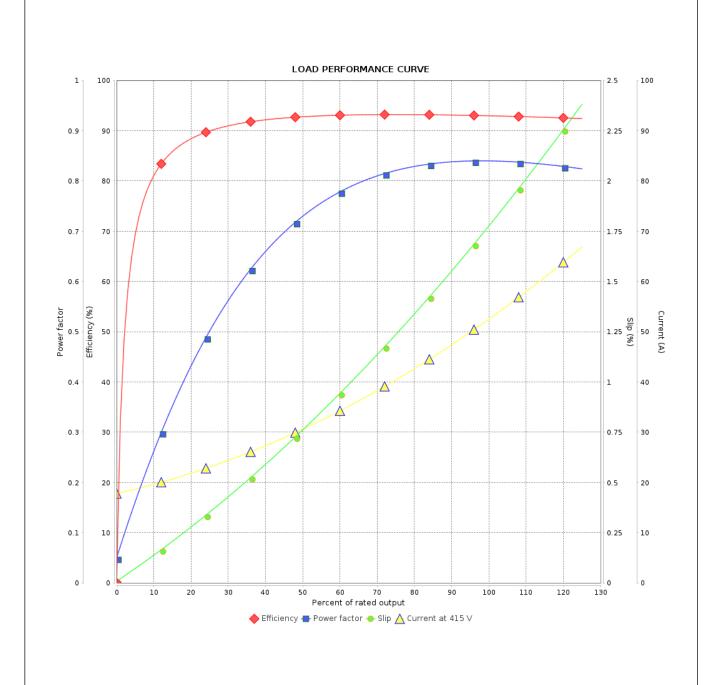


11943062

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 415 V 50 Hz 6P IE	3							
Rated current		: 53.4 A	1	Moment of inertia (J)		` '		` ,		
LRC		: 6.0	Duty cycle	;	: Cont.(S1)					
Rated torque		: 29.6 kgfm	Insulation	Insulation class		sulation class : F				
Locked rotor tord	que	: 200 %	Service fa	ctor	: 1.00					
Breakdown torqu	ie	: 229 %	Temperati	ure rise	: 80 K					
Rated speed		: 982 rpm	Design		: B					
Rev.		Changes Summa	ary	Performed	Checked	Date				

			3			
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	22/10/2024	1			9/9	