DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11943462 Frame : 404/5T Cooling method : 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 Altitude : 1000 m.a.s.l. Approx. weight3 : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 1.69 kgm² Design : B Output [HP] 75 50 50 50 75 75 75 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 460 380 400 415 380 400 415 Rated current [A] 84.9 70.9 69.0 68.1 104 98.1 95.7 L. R. Amperes [A] 543 510 545 579 510 540 574 LRC [A] 6.4x(Code | 7.2x(Code H) | 7.9x(Code J) | 8.5x(Code K) | 4.9x(Code D) | 5.5x(Code E) | 6.0x(Code F) G) No load current [A] 30.0 29.7 31.8 33.5 29.7 31.8 33.5 Rated speed [RPM] 1184 988 990 991 978 981 983 Slip [%] 1.33 1.20 1.00 0.90 2.20 1.90 1.70 Rated torque [kgfm] 46.0 36.7 36.7 36.6 55.7 55.5 55.4 Locked rotor torque [%] 200 229 260 290 150 170 190 Breakdown torque [%] 229 270 300 330 180 200 220 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) 14s (hot) 17s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) Noise level² 68.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 25% 50% 94.1 90.6 91.1 91.0 91.8 92.4 92.4 Efficiency (%) 75% 94.5 91.7 92.3 92.3 92.2 92.8 92.8 93.3 100% 94.5 93.3 93.3 92.4 93.0 93.0 25% 50% 0.74 0.66 0.62 0.60 0.79 0.76 0.74 Power Factor 75% 0.83 0.79 0.75 0.74 0.86 0.83 0.84 100% 0.86 0.85 0.83 0.81 0.87 0.87 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.6 5.6 5.6 5.6 5.6 5.6 5.6 P2 (0,5;1,0) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P3 (0,25;1,0) 4.5 4.5 4.5 4.5 4.5 4.5 4.5 P4 (0,9;0,5) 2.5 2.5 2.5 2.5 2.5 2.5 2.5 Losses (%) P5 (0,5;0,5) 1.8 1.8 1.8 1.8 1.8 1.8 1.8 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 1.1 1.1 1.1 P7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6316 C3 6314 C3 : 1200 kgf Max. traction Taconite Taconite Sealing : 1200 kgf Max. compression Labyrinth Labyrinth Lubrication interval 16000 h 17000 h Lubricant amount 34 a 27 g Lubricant type Mobil Polyrex EM

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			1 / 9	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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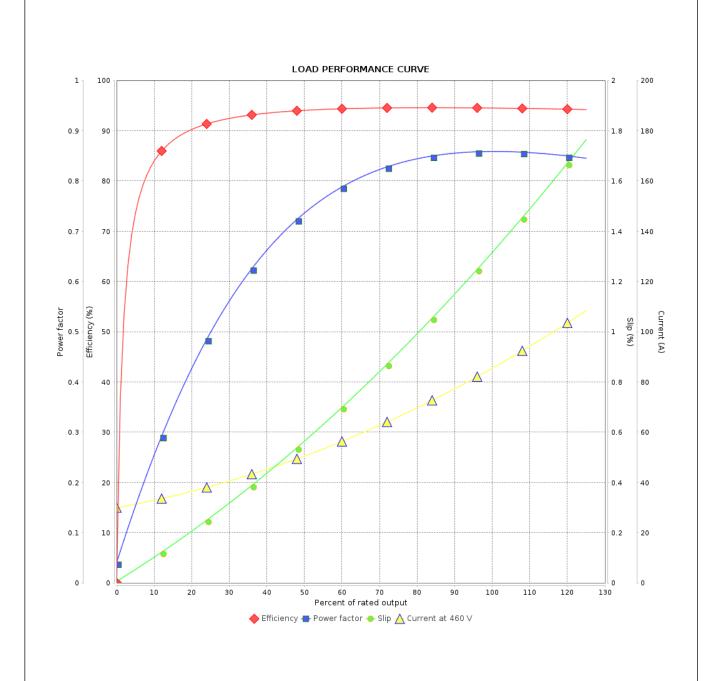
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943462

Three-Phase



Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 84.9 A : 6.4 : 46.0 kgfm : 200 % : 229 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 1.69 kgm² : Cont.(S1) : F : 1.25 : 80 K	
Rated speed : 1184 rpm		Design		: B	
Rev.	Changes Summary		Performed	Checked	Date

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			3/9	

Three Phase Induction Motor - Squirrel Cage



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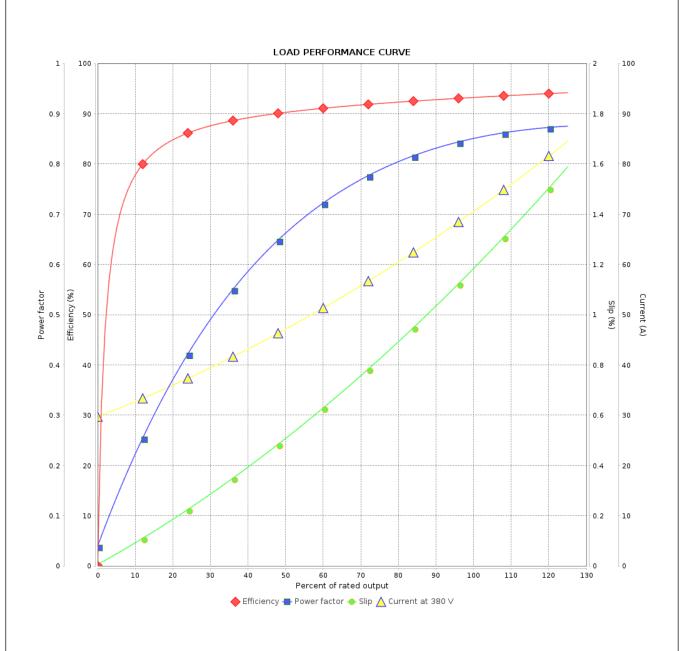
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13/01/2024

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 11943462



Performance : 380 V 50 Hz 6P IE3 : 70.9 A Rated current Moment of inertia (J) : 1.69 kgm² **LRC** Duty cycle : Cont.(S1) : 7.2 : 36.7 kgfm Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 988 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

4/9

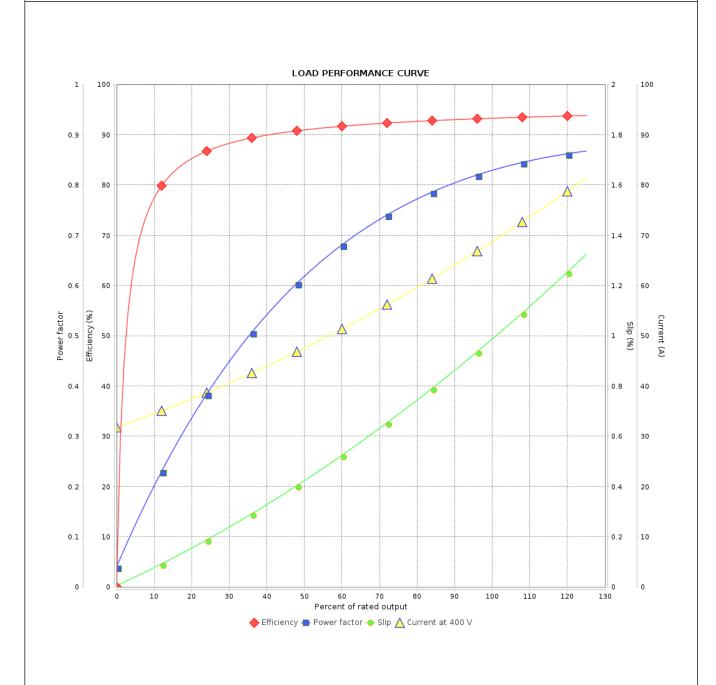
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943462

Three-Phase



Performance	: 400 V 50 Hz 6P IE3					
Rated current	: 69.0 A	Moment o	f inertia (J)	: 1.69 kgm²		
LRC	: 7.9	Duty cycle)	: Cont.(S1)		
Rated torque	: 36.7 kgfm	: 36.7 kgfm : 260 % : 300 % Insulation class Service factor Temperature rise		: F : 1.00 : 80 K		
Locked rotor torque	: 260 %					
Breakdown torque	: 300 %					
Rated speed	: 990 rpm	Design		: B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

5/9

13/01/2024

Date

Three Phase Induction Motor - Squirrel Cage



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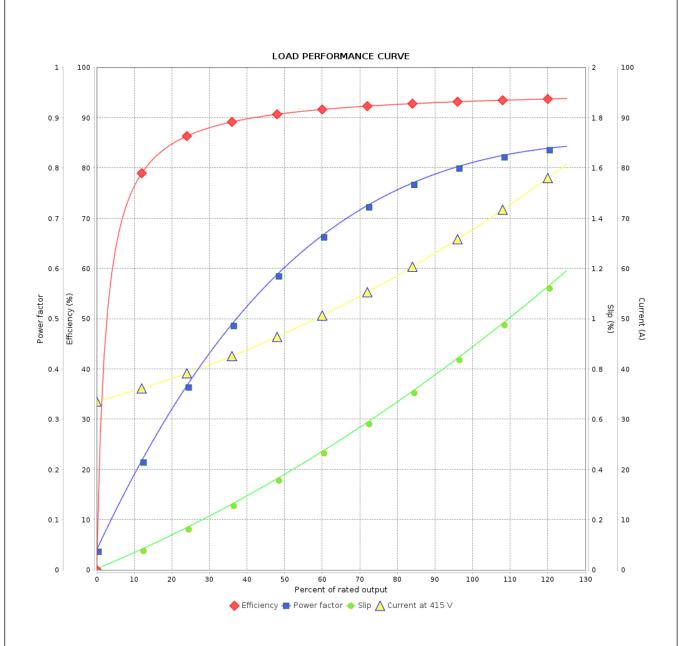
Product line : W22 IEEE 841 NEMA Premium Efficiency

y Product code:

11943462

6/9





Performance	: 415 V 50 Hz 6P IE3	: 415 V 50 Hz 6P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 68.1 A : 8.5 : 36.6 kgfm = : 290 % : 330 % : 991 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.69 kgm² : Cont.(S1) : F : 1.00 : 80 K : B				
Rev.	Changes Summary		Performed	Checked	Date			
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13/01/2024

Date

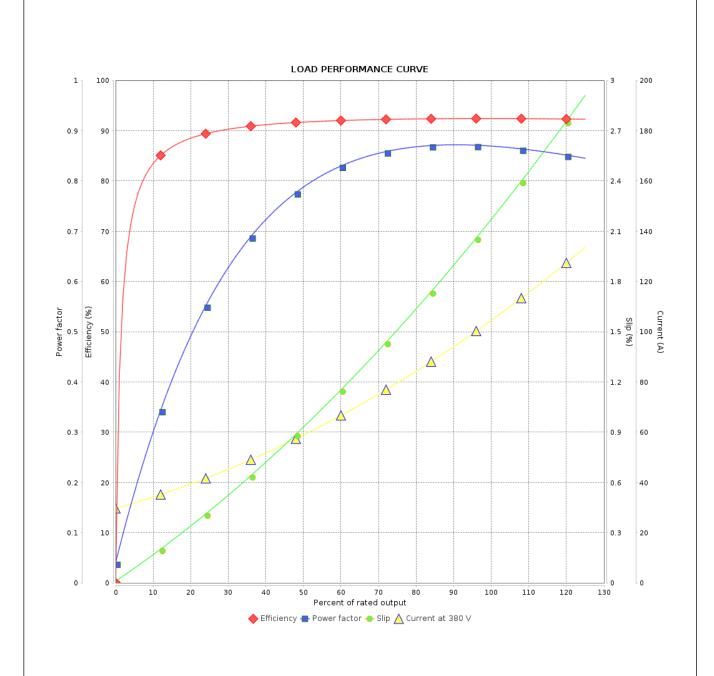
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943462

Three-Phase



Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 104 A : 4.9 : 55.7 kgfm : 150 % : 180 % : 978 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.69 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Checked by			Page	Revision		
Date	13/01/2024		7/9			
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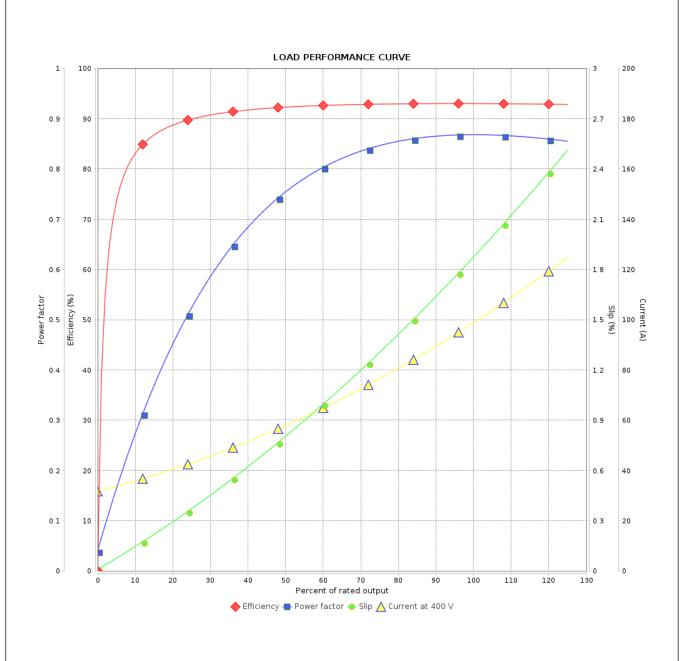
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

11943462



Performance	: 40	: 400 V 50 Hz 6P IE1				
Rated current : 98.1 A		8.1 A	Moment of	of inertia (J)	: 1.69 kgm²	
LRC	RC : 5.5		Duty cycle	9	: Cont.(S1)	
Rated torque	: 5	5.5 kgfm	Insulation	class	: F	
		70 %	Service fa	actor	: 1.00	
Breakdown torqu	e : 20	00 %	Temperat	Temperature rise		
Rated speed	: 98	81 rpm	Design		: B	
Rev.	Changes Summary		,	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				8/9	

Three Phase Induction Motor - Squirrel Cage



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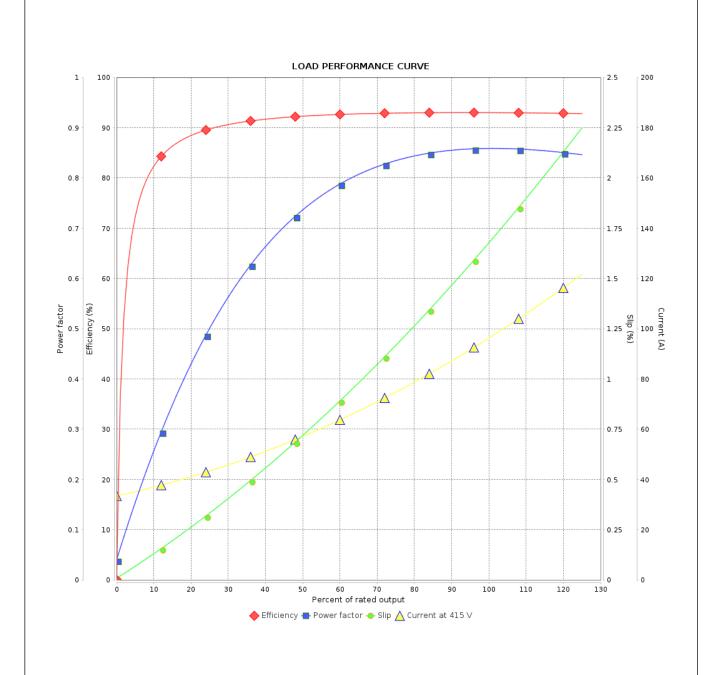
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943462

Three-Phase



Performance		: 415 V 50 Hz 6P IE	1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 95.7 A : 6.0 : 55.4 kgfm : 190 % : 220 % : 983 rpm	Duty cycl Insulation Service f	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rev.	Changes Summary		ary	Performed	Checked	Date
Performed by						

Page

9/9

Revision