DATA SHEET

Checked by

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943024 Efficiency Three-Phase : 324TS Cooling method Frame : 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 : 1000 m.a.s.l. Approx. weight³ : 0.0 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.2063 kgm² Design : B Output [HP] 40 30 30 30 40 40 40 Poles 2 2 2 2 2 2 2 60 50 50 50 50 Frequency [Hz] 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 56.9 46.3 41.0 39.4 38.4 53.7 51.7 L. R. Amperes [A] 292 295 296 292 285 301 321 LRC [A] 6.3x(Code T.2x(Code H))7.5x(Code H))7.6x(Code H))5.0x(Code E) 5.6x(Code F) 6.2x(Code G) G) No load current [A] 12.0 12.0 10.0 11.0 11.0 11.0 12.0 Rated speed [RPM] 3555 2960 2965 2970 2930 2940 2950 Slip [%] 1.25 1.33 1.17 1.00 2.33 2.00 1.67 Rated torque [kgfm] 8.17 7.36 7.34 7.33 9.91 9.87 9.84 Locked rotor torque [%] 250 240 270 290 180 200 220 Breakdown torque [%] 240 250 280 310 200 210 229 1.00 Service factor 1.25 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 39s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 22s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 76.0 dB(A) 72.0 dB(A) 72.0 dB(A) 72.0 dB(A) 72.0 dB(A) 72.0 dB(A) 72.0 dB(A) 25% 50% 91.7 90.9 90.3 90.7 91.7 91.7 91.7 Efficiency (%) 75% 92.4 91.8 91.7 92.1 91.7 91.7 92.4 100% 92.4 92.7 92.7 92.7 91.0 91.7 91.7 25% 0.77 50% 0.80 0.75 0.73 0.84 0.82 0.80 Power Factor 75% 0.86 0.85 0.83 0.82 0.88 0.87 0.86 100% 0.88 0.88 0.87 0.86 0.88 0.88 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.9 8.6 8.6 8.6 10.8 9.9 9.9 P2 (0,5;1,0) 7.3 6.9 6.9 6.9 9.0 8.2 8.2 P3 (0,25;1,0) 6.2 6.2 6.2 6.5 8.3 7.4 7.4 P4 (0,9;0,5) 4.4 4.2 4.2 4.2 5.2 4.8 4.8 Losses (%) P5 (0,5;0,5) 2.7 2.7 2.8 2.7 3.4 3.1 3.1 P6 (0,5;0,25) 1.8 1.7 1.7 1.7 2.2 2.0 2.0 P7 1.5 1.2 1.1 1.1 1.4 1.1 1.4 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6312 C3 6212 C3 : 285 kgf Max. traction Sealing Taconite **Taconite** Max. compression : 285 kgf Labyrinth Labyrinth 12000 h 15000 h Lubrication interval 13 g Lubricant amount 21 a Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by

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Three Pha	se Inductioi	n Motor - Squirrel	Cage			
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Customer Notes This revision rep	i:	the previous one, which	These ar	re average values		
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		
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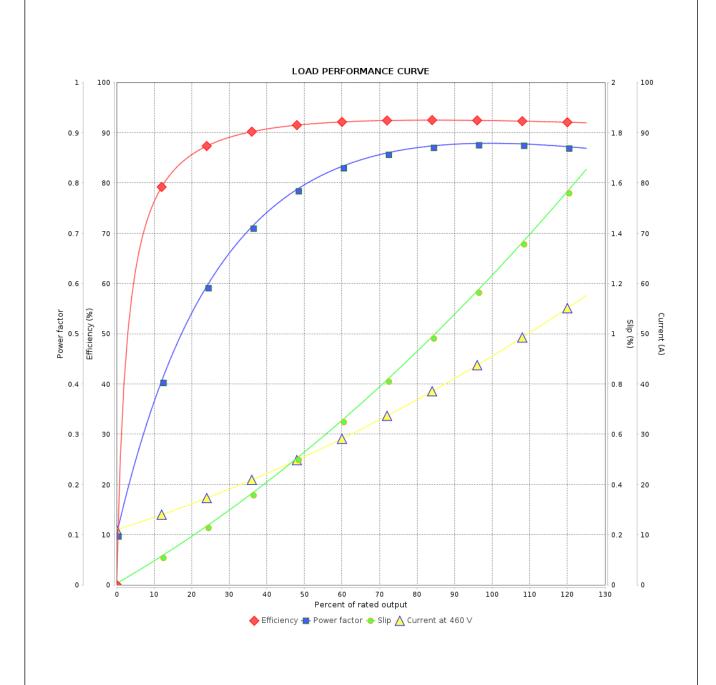
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943024

Efficiency Three-Phase



	-0						
Performance	:	: 460 V 60 Hz 2P					
Rated current		: 46.3 A	Mome	ent o	f inertia (J)	: 0.2063 kgm	2
LRC	:	: 6.3	Duty cycle : Cont.(S1)		Duty cycle		
Rated torque		: 8.17 kgfm	Insula	Insulation class		: F	
Locked rotor torque		: 250 %	Servi	Service factor		: 1.25	
Breakdown torqu	ie :	: 240 %	Temp	Temperature rise		: 80 K	
Rated speed	:	: 3555 rpm	Desig	ın		: B	
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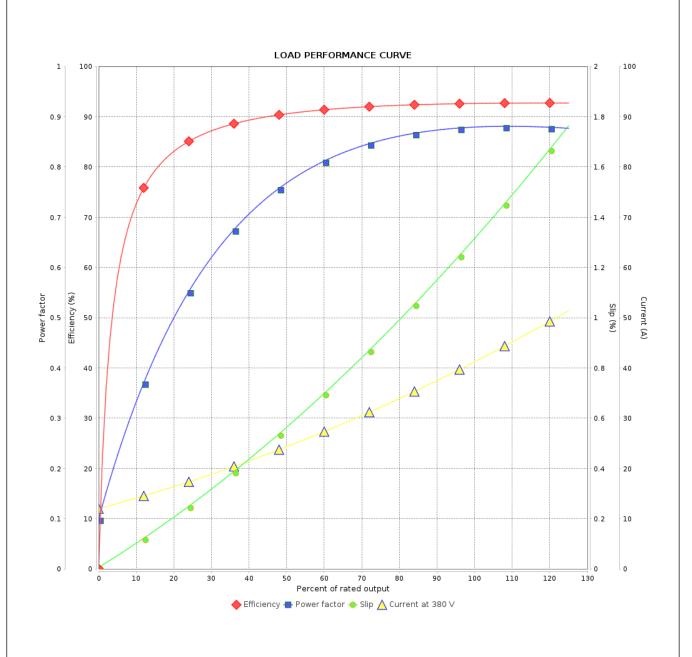


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943024



Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.0 A : 7.2 : 7.36 kgfm : 240 % : 250 % : 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.2063 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	2
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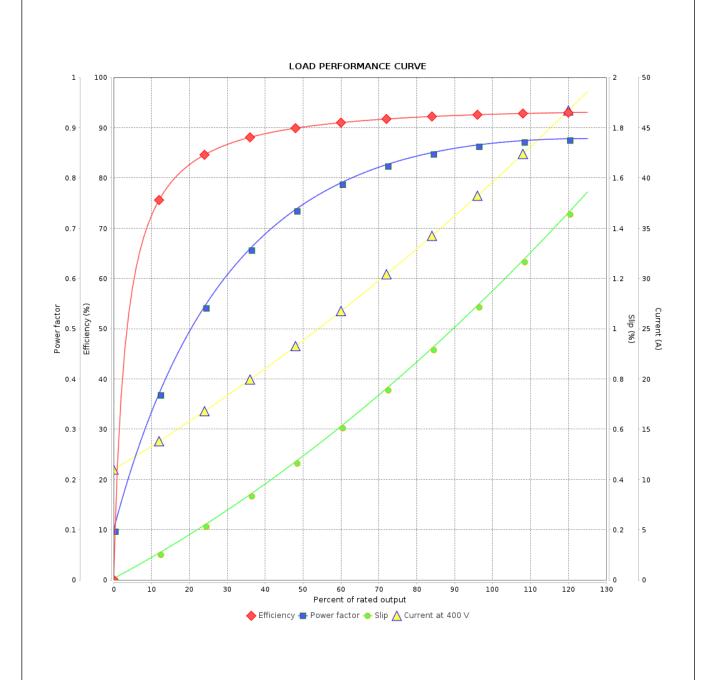


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 400 V 50 Hz 2P IE	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que le	: 39.4 A : 7.5 : 7.34 kgfm : 270 % : 280 % : 2965 rpm	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		2
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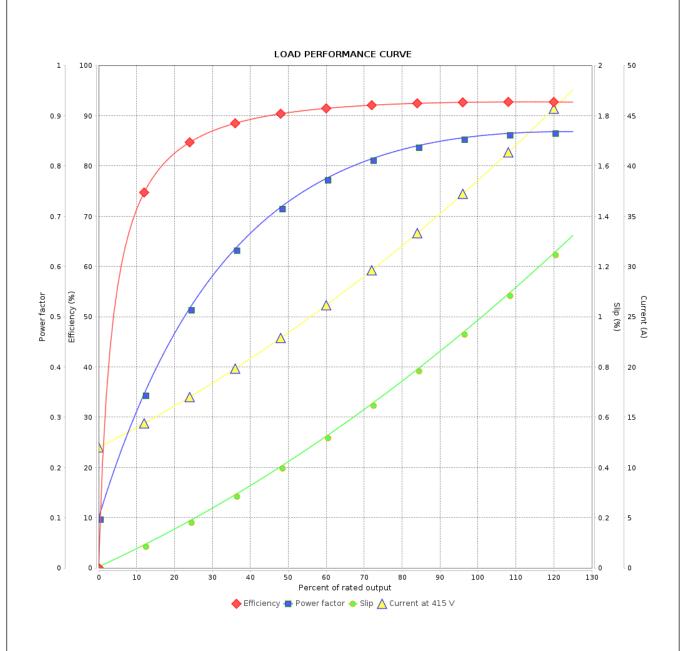


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Product code: 11943024



			·			
Performance : 415 V 50 Hz 2P IE3						
Rated current LRC		38.4 A 7.6	Moment of inertia (J) Duty cycle		: 0.2063 kgm ² : Cont.(S1)	2
Rated torque Locked rotor tord Breakdown torgu	que : 2	7.33 kgfm 290 % 310 %	Insulation class Service factor Temperature rise Design		: F : 1.00 : 80 K	
Rated speed '		2970 rpm			: B	
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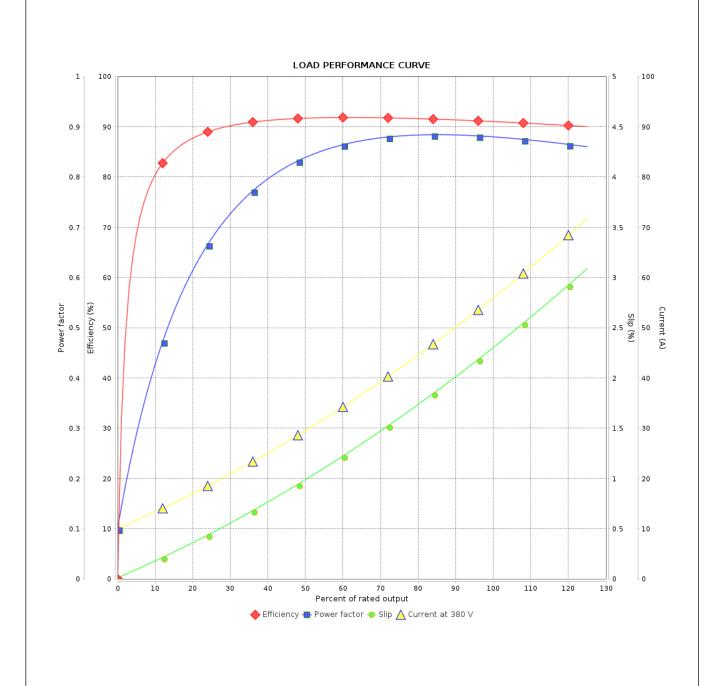


Customer :

Product line : W22 IEEE 841 NEMA Premium Product

Efficiency Three-Phase

Product code: 11943024



Performance	: :	380 V 50 Hz 2P IE1				
Rated current	: :	56.9 A	Moment o	f inertia (J)	: 0.2063 kgm ²	2
LRC	:	5.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 9	9.91 kgfm	Insulation	class	: F	
Locked rotor torque		180 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	200 %	Temperati	Temperature rise		
Rated speed	: 2	2930 rpm	Design		: B	
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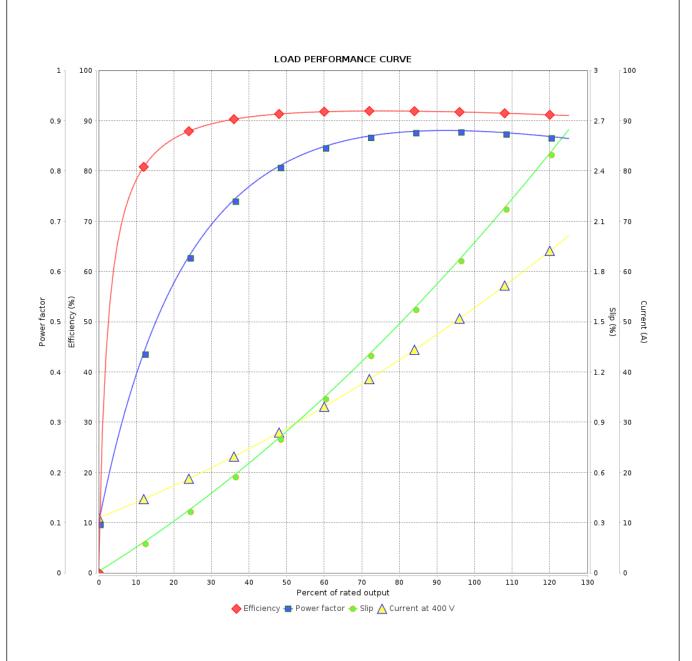


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Efficiency Three-Phase

Product code: 11943024



Performance	: 4	00 V 50 Hz 2P IE1				
Rated current : 53		3.7 A		Moment of inertia (J)		2
LRC	: 5	.6	Duty cycle	e	: Cont.(S1)	
Rated torque	: 9	.87 kgfm	Insulation	ı class	: F	
Locked rotor torg	que : 2	00 %	Service fa	actor	: 1.00	
Breakdown torque :		10 %	Temperat	Temperature rise		
Rated speed	: 2	940 rpm	Design		: B	
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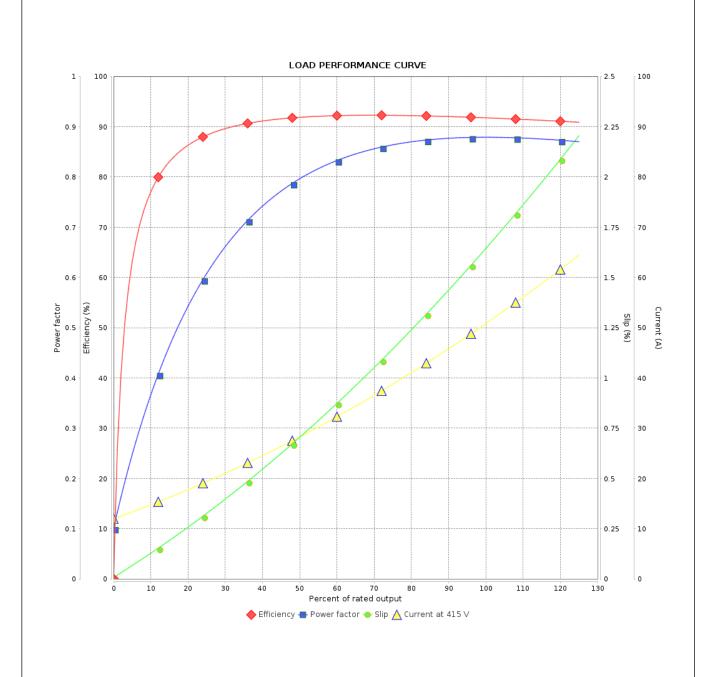
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 51.7 A : 6.2 : 9.84 kgfm : 220 % : 229 % : 2950 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ictor	: 0.2063 kgm ² : Cont.(S1) : F : 1.00 : 105 K : B	
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