DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12447815 : 324/6TS 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. : 246 kg Protection degree : IP56 Moment of inertia (J) : 0.2063 kgm² Design : B Output [HP] 40 30 30 40 40 30 40 Poles 2 2 2 2 2 2 2 50 50 50 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 460 380 400 415 400 415 56.9 Rated current [A] 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 | 7.2x(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] 11.0 12.0 11.0 12.0 10.0 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 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 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) 72.0 dB(A) 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) 25% 91.5 89.9 89.2 90.0 92.2 91.5 92.1 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% 0.54 0.53 0.50 0.66 0.58 0.58 0.62 50% 0.77 0.75 0.73 0.84 0.80 0.80 0.82 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 9.9 9.9 10.8 P2 (0,5;1,0) 7.3 6.9 6.9 6.9 9.0 8.2 8.2 P3 (0,25;1,0) 6.5 6.2 6.2 6.2 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 2.8 2.7 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 1.2 1.1 1.5 1.1 1.1 1.4 1.4 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6312 C3 6212 C3 : 161 kgf Max. traction Inpro/Seal Inpro/Seal Sealing Max. compression : 408 kgf Lubrication interval 12000 h 15000 h 13 g Lubricant amount 21 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

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13/01/2024

Date

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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage



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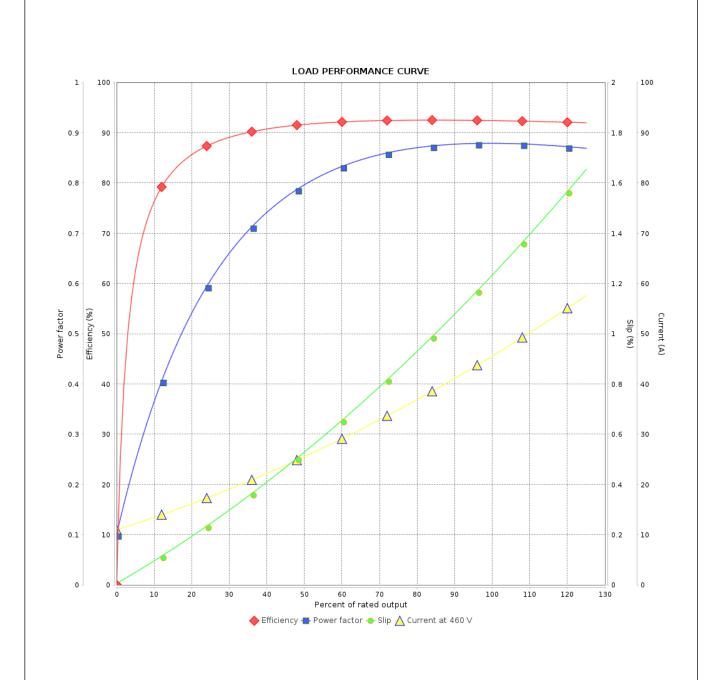
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13/01/2024

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12447815

Three-Phase



Performance	: 460	0 V 60 Hz 2P				
Rated current LRC	: 46. : 6.3	3	Moment of inertia (J) Duty cycle		: 0.2063 kgm² : Cont.(S1)	
Rated torque Locked rotor tord Breakdown torqu	que : 250		Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
Rated speed : 3555 rpm		Design		: B		
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Three Phase Induction Motor - Squirrel Cage



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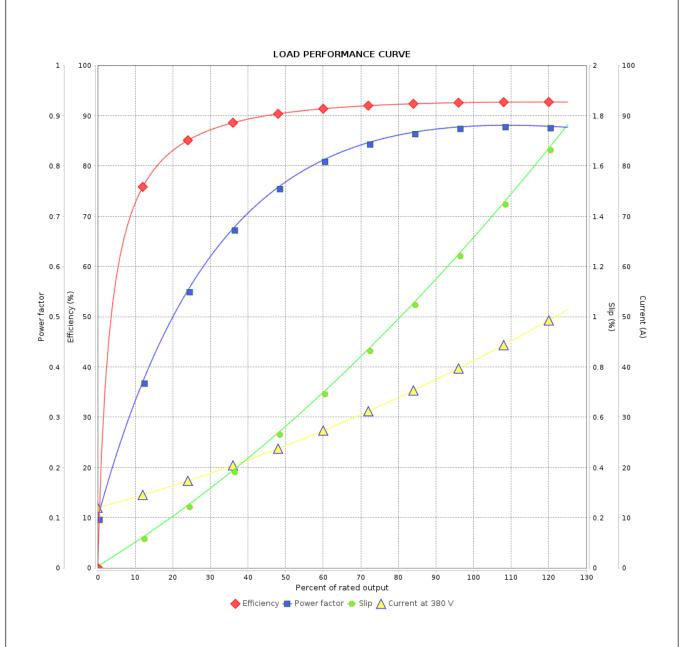
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Product line : W22 IEEE 841 NEMA Premium Efficiency Pro

Three-Phase

Product code: 12447815



Performance : 380 V 50 Hz 2P IE3 Rated current : 41.0 A Moment of inertia (J) : 0.2063 kgm² **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.36 kgfm : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage



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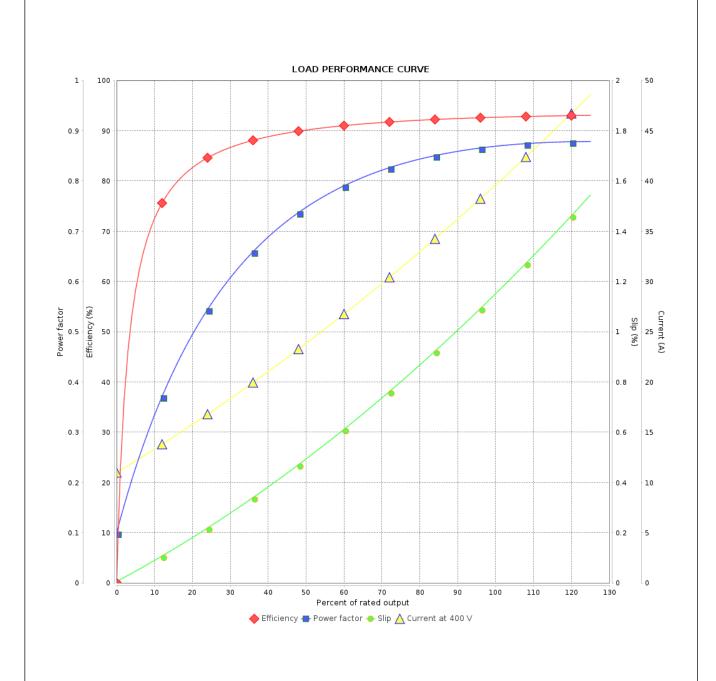
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12447815

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 39.4 A : 7.5 : 7.34 kgfm : 270 % : 280 % : 2965 rpm	Moment of inertia (J) : 0.2063 kgn Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		: F : 1.00 : 80 K	
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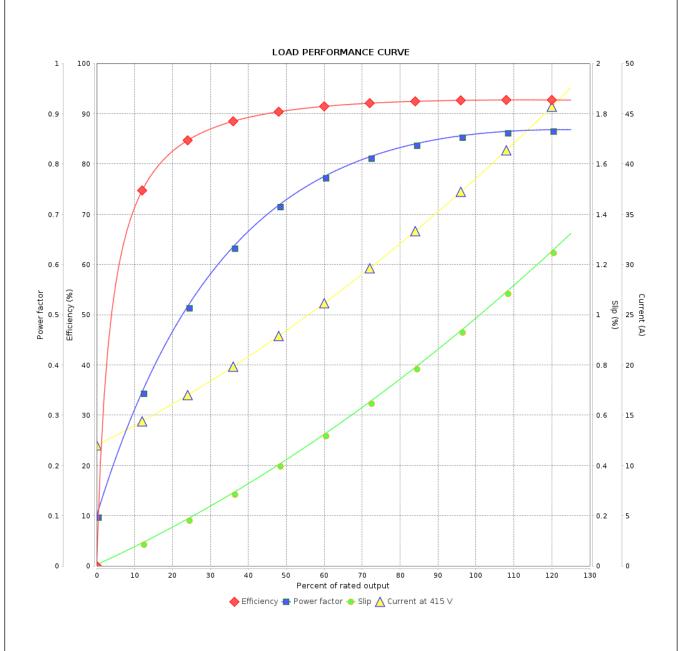
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code: 12447815



Performance		: 415 V 50 Hz 2P IE3						
Rated current : 38		38.4 A	Moment o	Moment of inertia (J)		2		
LRC : 7.6		'.6	Duty cycle	Duty cycle				
Rated torque : 7.		'.33 kgfm	Insulation class		: F			
•		290 %	Service fa	Service factor				
Breakdown torque :		310 %	Temperati	Temperature rise				
Rated speed :		2970 rpm	Design	Design				
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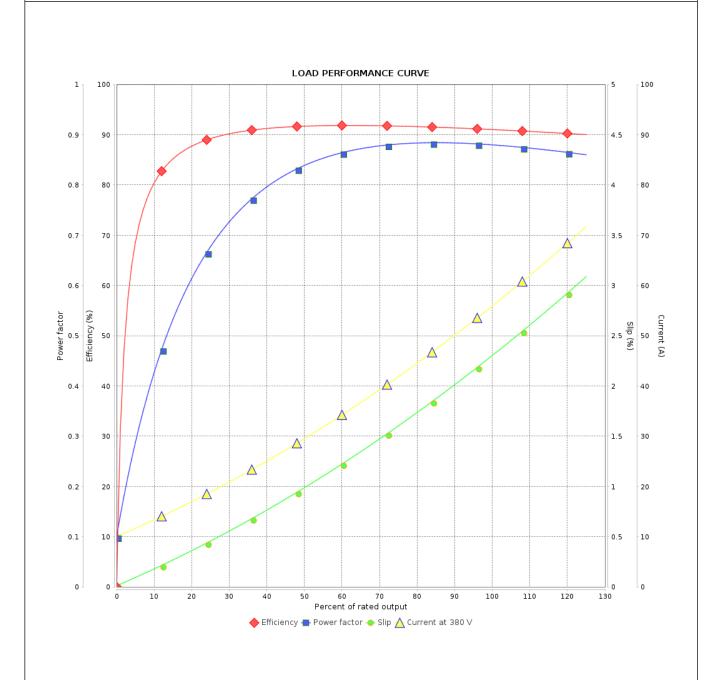
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12447815

Three-Phase



Performance	: 380 V 50 Hz 2P IE1					
Rated current	: 56.9 A	9.9 A Moment of inertia (J)		: 0.2063 kgm²		
LRC	: 5.0	Duty cycle		: Cont.(S1)		
Rated torque	: 9.91 kgfm	Insulation class		: F		
Locked rotor torque	: 180 %	Service factor		: 1.00		
Breakdown torque	: 200 %	Temperature rise		: 105 K		
Rated speed	: 2930 rpm	Design		: B		
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Three Phase Induction Motor - Squirrel Cage

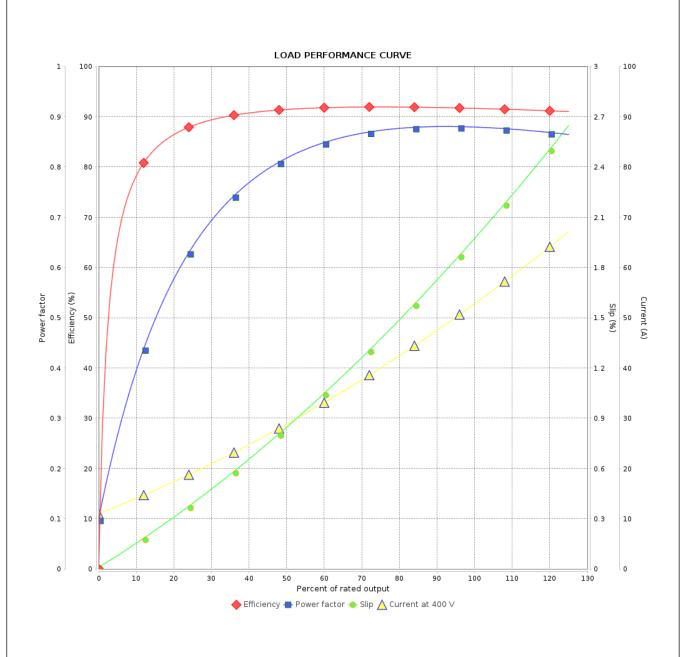


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Product line : W22 IEEE 841 NEMA Premium Efficiency P

Three-Phase

Product code: 12447815



Performance	: 40	00 V 50 Hz 2P IE1				
LRC Rated torque Locked rotor torque Breakdown torque		3.7 A 6 87 kgfm 00 % 10 % 940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2063 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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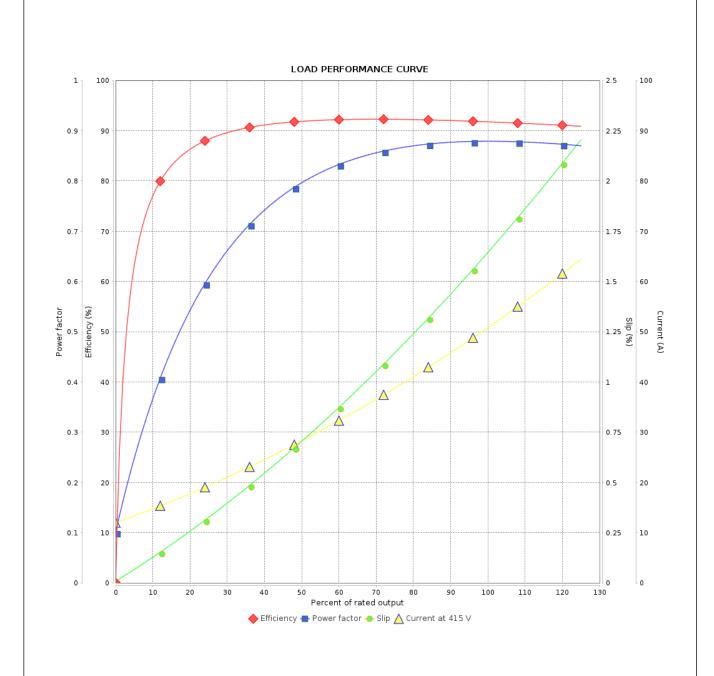
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12447815

Three-Phase



Performance	: 4	15 V 50 Hz 2P IE1					
Rated current		1.7 A	Moment o	Moment of inertia (J)		2	
LRC : 6		.2	Duty cycle	Э	: Cont.(S1)		
Rated torque : 9		.84 kgfm	Insulation	class	: F		
Locked rotor torqu	ue : 2	20 %	Service factor		: 1.00		
Breakdown torque		29 %	Temperati	Temperature rise		: 105 K	
Rated speed	: 2	950 rpm	Design		: B		
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