DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11943424 : 364/5TS 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 Altitude : 1000 m.a.s.l. Approx. weight3 : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 0.5023 kgm² Design : B Output [HP] 75 50 50 50 75 75 75 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 Rated current [A] 81.9 66.7 64.8 62.4 100 94.8 91.4 L. R. Amperes [A] 541 520 551 568 520 550 567 LRC [A] 6.6x(Code | 7.8x(Code H) | 8.5x(Code J) | 9.1x(Code K) | 5.2x(Code E) | 5.8x(Code F) | 6.2x(Code F) G) No load current [A] 19.0 18.0 19.0 20.0 18.0 19.0 20.0 Rated speed [RPM] 3550 2960 2965 2970 2930 2940 2950 Slip [%] 1.39 1.33 1.17 1.00 2.33 2.00 1.67 Rated torque [kgfm] 15.3 12.3 12.2 12.2 18.6 18.5 18.5 Locked rotor torque [%] 220 240 260 290 160 175 190 Breakdown torque [%] 270 320 350 380 200 220 240 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 12s (cold) Locked rotor time 18s (cold) 12s (cold) 12s (cold) 12s (cold) 12s (cold) 12s (cold) 10s (hot) 7s (hot) 7s (hot) 7s (hot) 7s (hot) 7s (hot) 7s (hot) Noise level² 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 25% 50% 92.4 91.2 91.5 91.8 92.4 92.4 93.0 Efficiency (%) 75% 93.6 92.5 93.0 93.1 93.0 93.0 93.6 100% 93.6 93.7 93.7 93.7 92.4 93.0 93.0 25% 50% 0.83 0.75 0.72 0.70 0.86 0.84 0.83 Power Factor 75% 0.88 0.85 0.83 0.82 0.90 0.89 0.88 100% 0.90 0.90 0.88 0.88 0.90 0.90 0.90 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.4 6.4 6.4 6.4 6.4 6.4 6.4 P2 (0,5;1,0) 4.9 4.9 4.9 4.9 4.9 4.9 4.9 P3 (0,25;1,0) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P4 (0,9;0,5) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 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) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 P7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6314 C3 6314 C3 : 497 kgf Max. traction Taconite Taconite Sealing Max. compression : 497 kgf Labyrinth Labyrinth Lubrication interval 4000 h 4000 h Lubricant amount 27 a 27 g Lubricant type Mobil Polyrex EM

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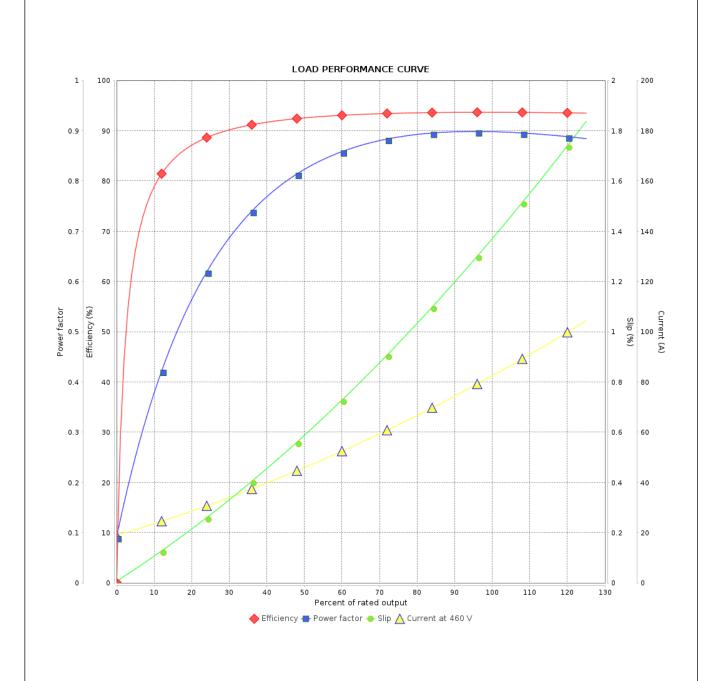
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943424

Three-Phase



Performance	: 460 V 60 Hz 2P				
Rated current	ent : 81.9 A		Moment of inertia (J)		
LRC	: 6.6	, ,		Duty cycle : Cont.(S1)	
Rated torque	: 15.3 kgfm	Insulation class		: F	
Locked rotor torque	: 220 %	Service fa	Service factor		
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 3550 rpm	Design		: B	
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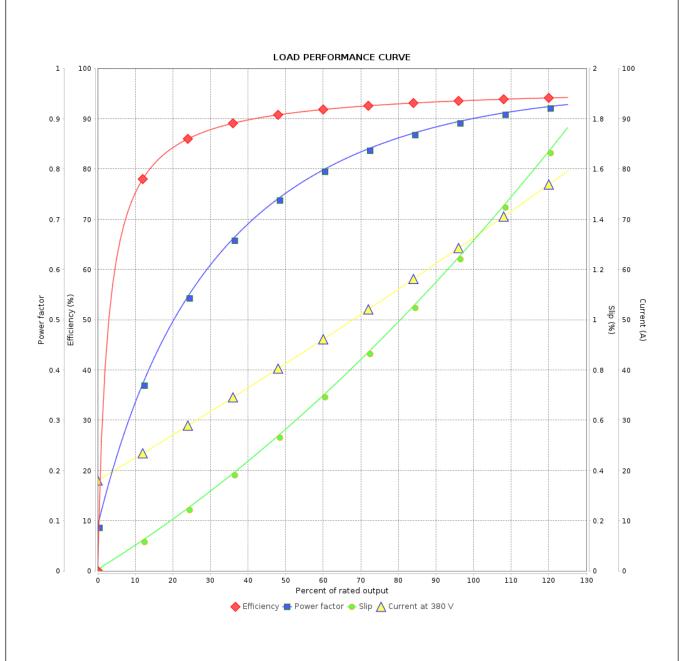
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code: 11943424



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current : 66.7 A		1	Moment of inertia (J)		2	
LRC	: 7	.8	Duty cycle	е	: Cont.(S1)	
Rated torque	:1	2.3 kgfm	Insulation	class	: F	
Locked rotor torq	jue : 2	40 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 3	20 %	Temperat	Temperature rise		
Rated speed		960 rpm	Design		: B	
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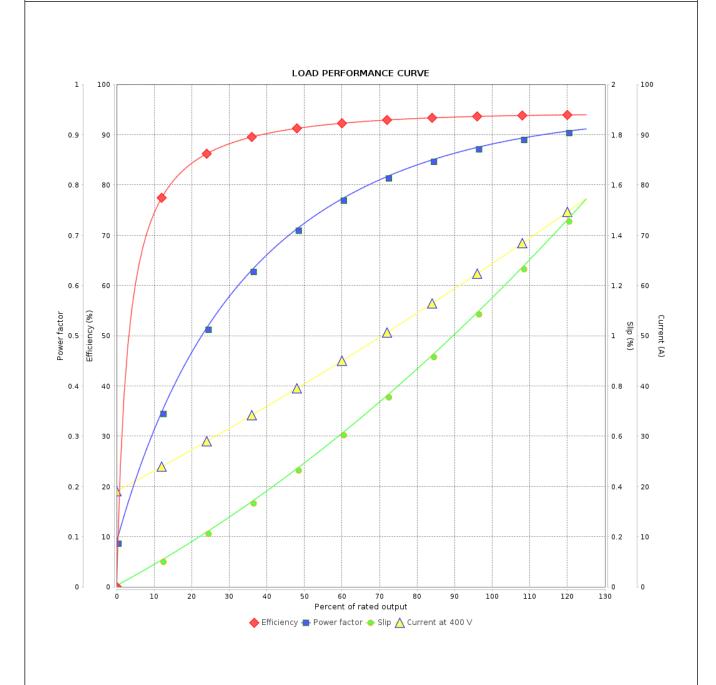
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943424

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 64.8 A : 8.5 : 12.2 kgfm : 260 % : 350 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5023 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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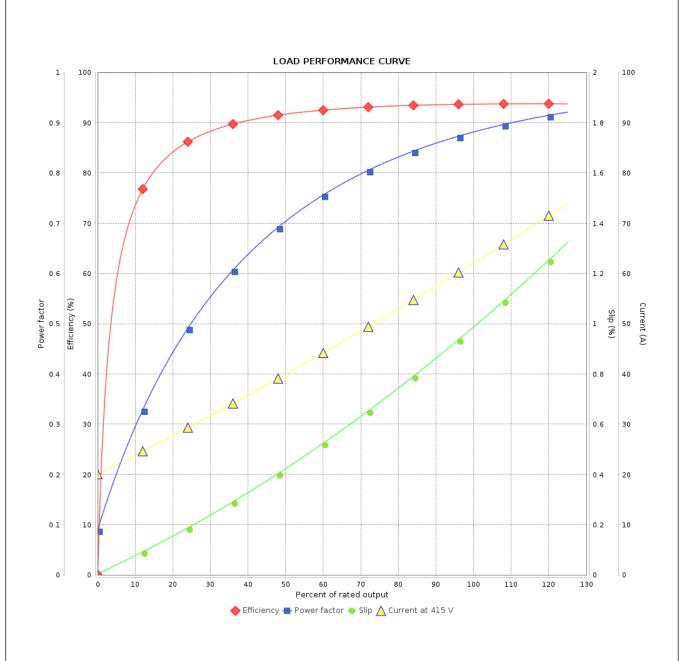
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code:

11943424

Three-Phase



Performance	: 4	415 V 50 Hz 2P IE3				
Rated current	: (62.4 A	2.4 A Moment of in		of inertia (J) : 0.5023 kgm	
LRC	: 9	9.1	Duty cycle	e ` ´	: Cont.(S1)	
Rated torque	: '	12.2 kgfm	Insulation		: F	
Locked rotor torqu	ue : :	290 %	Service fa	Service factor		
Breakdown torque	e ::	380 %	Temperati	Temperature rise		
Rated speed	: 2	2970 rpm	Design		: B	
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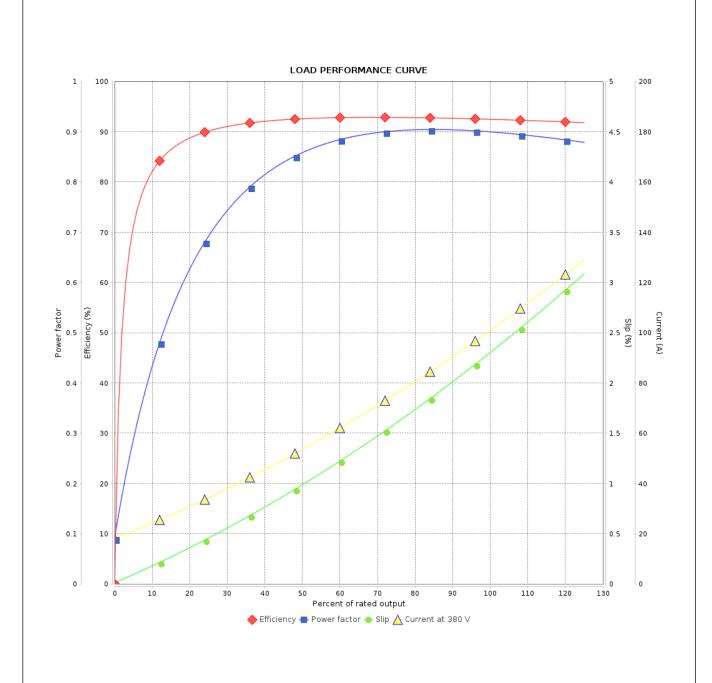
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943424

Three-Phase



Performance		: 380 V 50 Hz 2P	IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 100 A : 5.2 : 18.6 kgfm : 160 % : 200 % : 2930 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5023 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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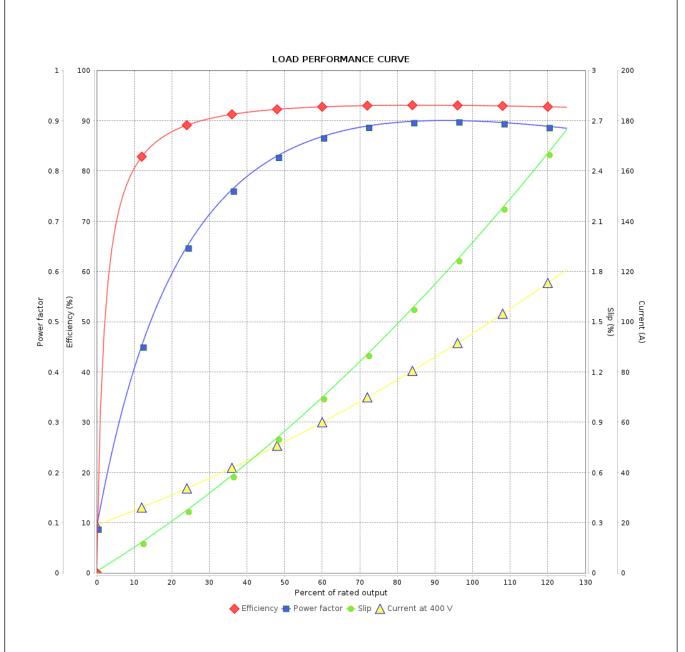


Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code:

11943424



Performance	: 4	00 V 50 Hz 2P IE1				
Rated current : 94		4.8 A	Moment o	Moment of inertia (J)		2
LRC	: 5	5.8	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 1	8.5 kgfm	Insulation	class	: F	
Locked rotor torg	que : 1	75 %	Service factor		: 1.00	
Breakdown torque		20 %	Temperat	Temperature rise		
Rated speed	: 2	.940 rpm	Design		: B	
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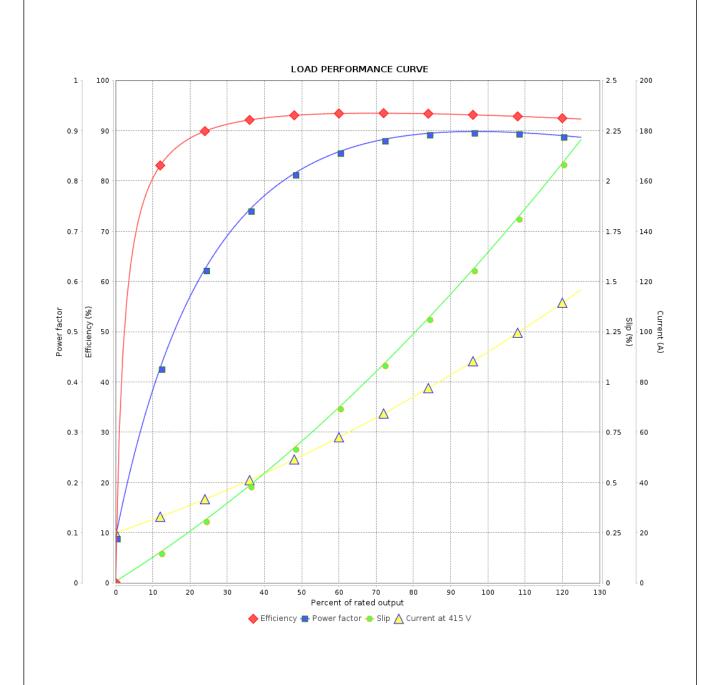
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943424

Three-Phase



Performance	: 415 V 50	Hz 2P IE1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	Duty cycle Insulation Service fa Temperat	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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