DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943462 Efficiency Three-Phase Frame : 404/5T 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 : 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 50 380 Rated voltage [V] 460 380 400 415 400 415 Rated current [A] 84.9 71.7 69.0 68.1 104 99.3 95.7 L. R. Amperes [A] 544 516 545 579 541 556 593 LRC [A] 6.4x(Code | 7.2x(Code H) | 7.9x(Code J) | 8.5x(Code K) | 5.2x(Code E) | 5.6x(Code F) | 6.2x(Code G) G) No load current [A] 28.0 28.0 30.0 31.0 28.5 30.0 31.0 Rated speed [RPM] 1184 988 989 990 976 980 982 Slip [%] 1.33 1.20 1.10 1.00 2.40 2.00 1.80 Rated torque [kgfm] 46.0 36.7 36.7 36.7 55.8 55.5 55.4 Locked rotor torque [%] 220 229 260 290 150 170 190 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 25s (cold) Locked rotor time 30s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 17s (hot) 14s (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 0.85 0.84 0.83 100% 0.86 0.84 0.83 0.81 0.87 0.86 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.6 6.9 6.9 6.9 8.0 7.3 7.3 P2 (0,5;1,0) 4.7 5.8 5.8 5.8 6.7 6.1 6.1 P3 (0,25;1,0) 4.6 5.7 5.7 5.7 6.5 5.9 5.9 P4 (0,9;0,5) 2.5 3.0 3.0 3.0 3.5 3.2 3.2 Losses (%) P5 (0,5;0,5) 1.7 2.1 2.1 2.1 2.4 2.2 2.2 P6 (0,5;0,25) 1.0 1.3 1.3 1.3 1.5 1.3 1.3 P7 0.7 0.9 0.9 0.9 0.9 1.0 0.9 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6316 C3 6314 C3 : 1201 kgf Max. traction Taconite Taconite Sealing : 1201 kgf Max. compression Labyrinth Labyrinth Lubrication interval 16000 h 17000 h Lubricant amount 34 a 27 g Lubricant type Mobil Polyrex EM

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This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.				re average values lipply, subject to the		
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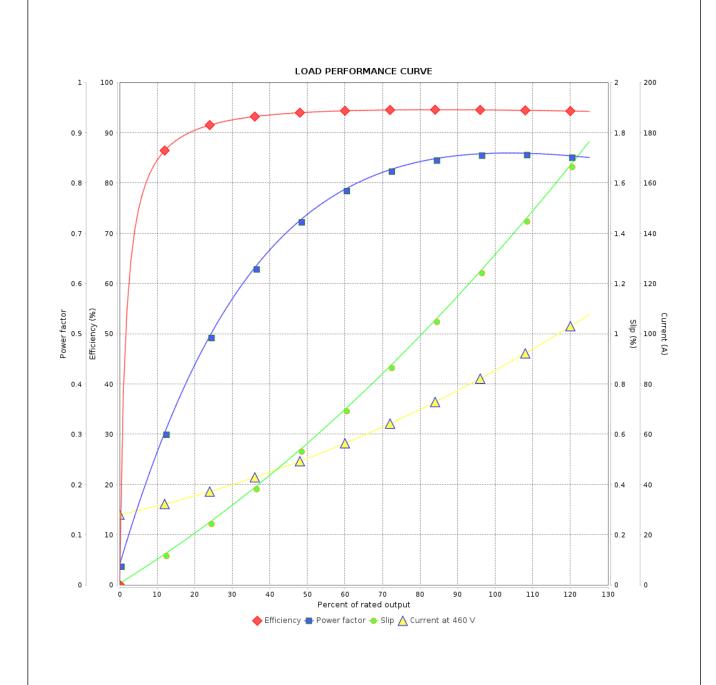
Three Phase Induction Motor - Squirrel Cage



11943462

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :



Performance		: 460 V 60 Hz 6P				
Rated current LRC		: 84.9 A : 6.4	Moment of inertia (J)		` ,	
Rated torque		: 46.0 kgfm	Duty cycle Insulation class		: F	
Locked rotor tord Breakdown torgo	•	: 220 % : 229 %	Service factor Temperature rise		: 1.25 : 80 K	
Rated speed	uc	: 1184 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

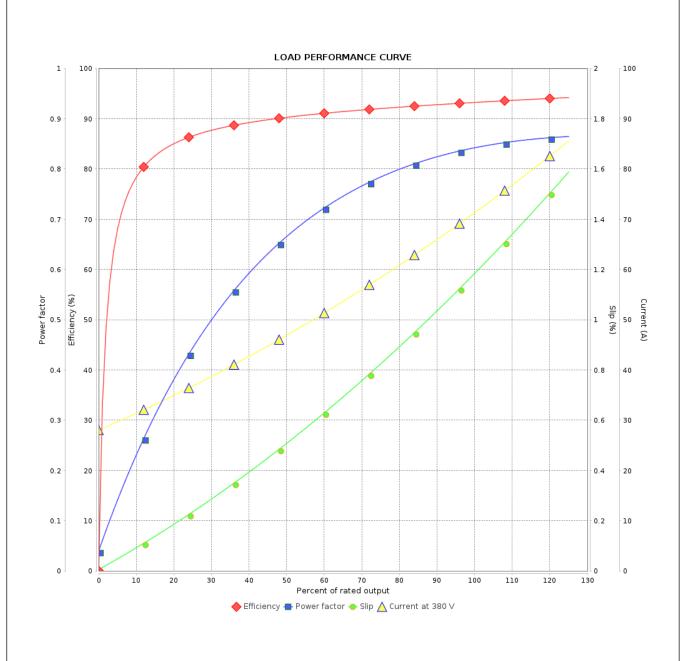


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943462



Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 71.7 A : 7.2 : 36.7 kgfm : 229 % : 270 % : 988 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	
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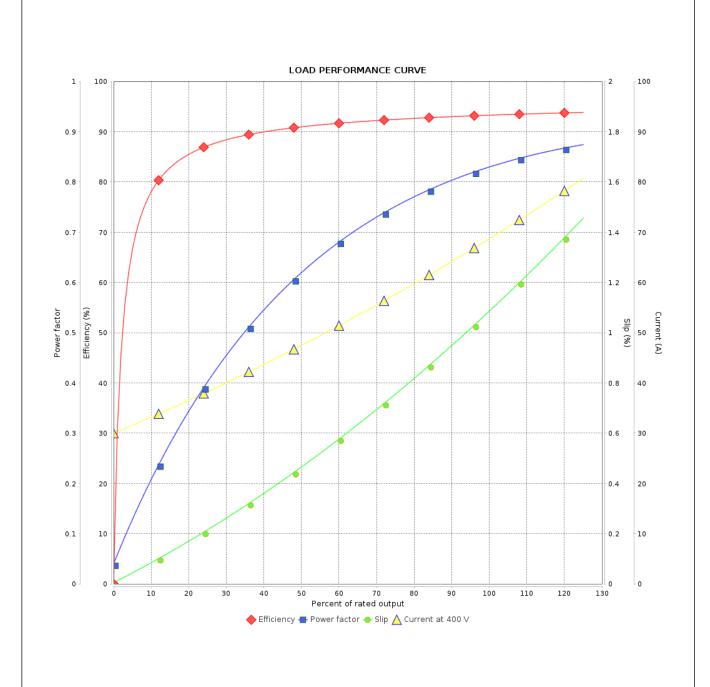
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Three Phase Induction Motor - Squirrel Cage



Customer :

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



Performance	: 400 V 50 Hz 6P IE	E3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	Duty cycle Insulation Service fa	Moment of inertia (J) : Duty cycle : Insulation class : Service factor : Temperature rise : Design :		
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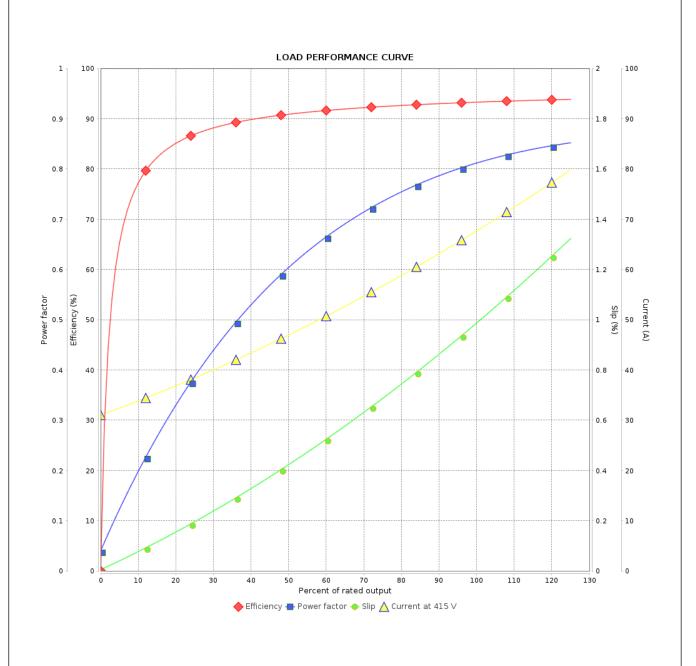


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943462



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 68.1 A : 8.5 : 36.7 kgfm : 290 % : 330 % : 990 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	
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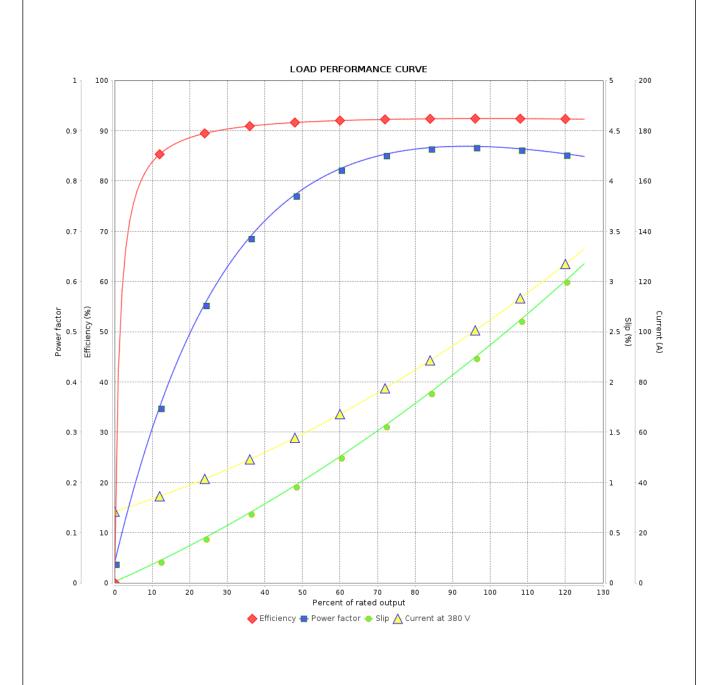
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Product line : W22 IEEE 841 NEMA Premium Product code:



Performance	: 380 V 50 Hz 6P IE1				
Rated current	: 104 A	Moment of inertia (J)		: 1.69 kgm²	
LRC	: 5.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 55.8 kgfm	Insulation class		: F	
Locked rotor torque	: 150 %	Service factor		: 1.00	
Breakdown torque	: 180 %	Temperature rise		: 105 K	
Rated speed	: 976 rpm	Design		: B	
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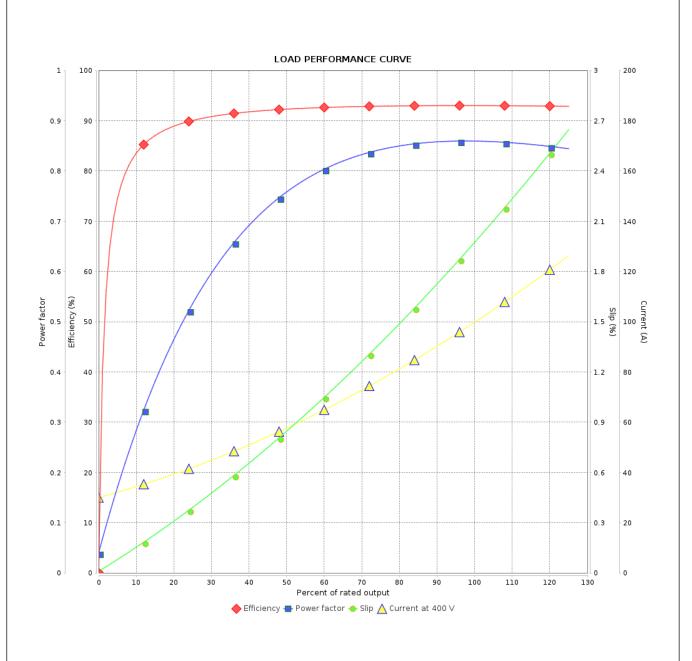


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943462



Performance	: 40	: 400 V 50 Hz 6P IE1				
Rated current	: 9:	9.3 A	Moment o	of inertia (J)	: 1.69 kgm²	
LRC	: 5.	6	Duty cycle	e ` ´	: Cont.(S1)	
Rated torque	: 5	5.5 kgfm	Insulation class		: F ` ´	
Locked rotor tord		70 %	Service factor		: 1.00	
Breakdown torqu	ue : 20	00 %	Temperature rise		: 105 K	
Rated speed		30 rpm	Design	Design		
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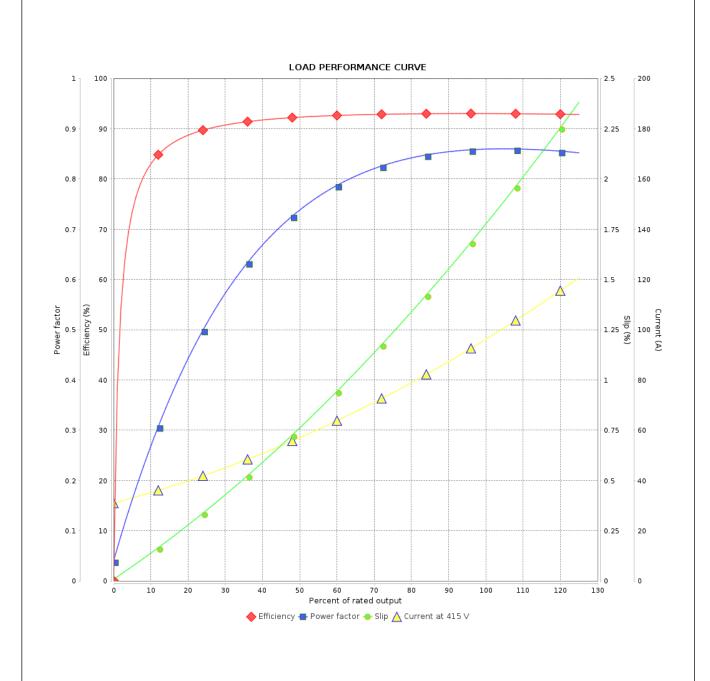
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Product line : W22 IEEE 841 NEMA Premium Product code :



Performance		: 415 V 50 Hz 6P	IE1				
LRC : 6.2 E Rated torque : 55.4 kgfm II Locked rotor torque : 190 % S Breakdown torque : 220 % T		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.69 kgm² : Cont.(S1) : F : 1.00 : 105 K : B			
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