DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943602 Efficiency Three-Phase : 444/5TC Frame 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) : 3.68 kgm² Design : B 100 Output [HP] 100 75 75 75 100 100 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 380 Rated voltage [V] 460 380 400 415 400 415 145 Rated current [A] 121 107 104 102 139 135 725 L. R. Amperes [A] 725 716 767 809 763 812 LRC [A] 6.0x(Code 6.7x(Code | 7.4x(Code H) | 7.9x(Code J) | 5.0x(Code E) | 5.5x(Code F) | 6.0x(Code G) G) G) No load current [A] 38.0 37.0 41.0 43.0 38.0 41.0 43.0 992 Rated speed [RPM] 1189 991 993 985 987 988 Slip [%] 0.92 0.90 0.80 0.70 1.50 1.30 1.20 Rated torque [kgfm] 61.0 54.9 54.9 54.8 73.7 73.5 73.5 Locked rotor torque [%] 220 229 250 270 170 190 200 Breakdown torque [%] 229 250 280 310 180 200 220 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 27s (cold) Locked rotor time 36s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 20s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 69.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 25% 50% 94.5 93.8 93.8 93.7 94.5 94.5 94.5 Efficiency (%) 75% 95.0 94.3 94.6 94.6 94.0 94.5 94.5 100% 95.0 94.2 94.5 94.6 93.6 94.0 94.0 25% 50% 0.68 0.64 0.60 0.57 0.74 0.71 0.68 Power Factor 75% 0.78 0.77 0.74 0.71 0.82 0.80 0.78 100% 0.82 0.83 0.81 0.79 0.84 0.83 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.0 5.8 5.5 5.4 6.5 6.1 6.1 P2 (0,5;1,0) 3.8 4.4 4.1 4.1 4.9 4.6 4.6 P3 (0,25;1,0) 3.9 3.3 3.7 3.6 4.3 4.0 4.0 P4 (0,9;0,5) 2.5 2.9 2.7 2.7 3.2 3.0 3.0 Losses (%) P5 (0,5;0,5) 1.5 1.8 1.7 1.6 2.0 1.8 1.8 P6 (0,5;0,25) 1.0 1.2 1.1 1.2 1.2 1.1 1.3 P7 0.7 0.7 0.7 0.7 0.7 0.6 8.0 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6319 C3 6316 C3 : 1413 kgf Max. traction Taconite Taconite Sealing : 1413 kgf Max. compression Labyrinth Labyrinth Lubrication interval 13000 h 16000 h Lubricant amount 45 a 34 g Lubricant type Mobil Polyrex EM

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must be eliminat (1) Looking the r (2) Measured at	ed. notor from the sha 1m and with toler weight subject to rocess.	ance of +3dB(A).		re average values lupply, subject to the		
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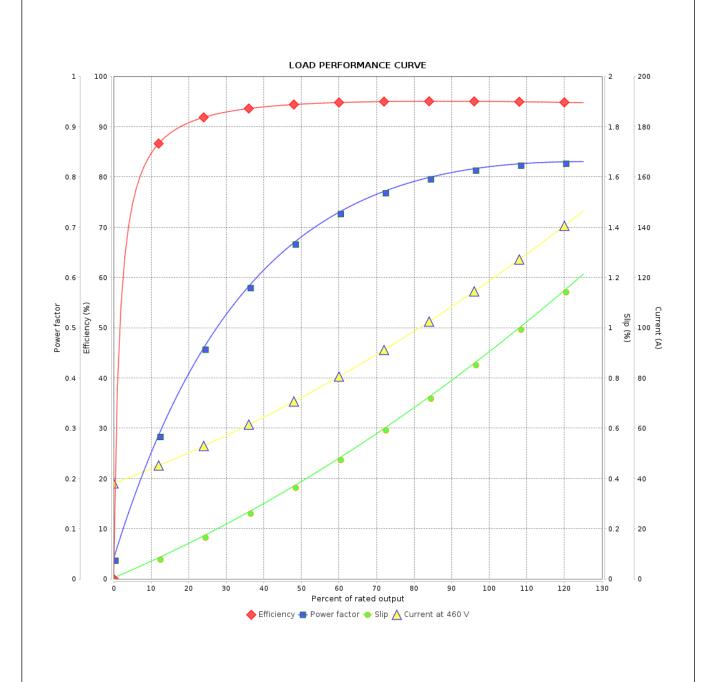


Customer :

Product line : W22 IEEE 841 NEMA Premium Product

Efficiency Three-Phase

Product code: 11943602



Performance		: 460 V 60 Hz 6P				
Rated current		: 121 A	Moment	of inertia (J)	: 3.68 kgm²	
LRC		: 6.0	Duty cyc	cle	: Cont.(S1)	
Rated torque		: 61.0 kgfm	Insulation	n class	:F	
Locked rotor tord	que	: 220 %	Service	factor	: 1.25	
Breakdown torqu	ıe	: 229 %	Tempera	ature rise	: 80 K	
Rated speed		: 1189 rpm	Design		: B	
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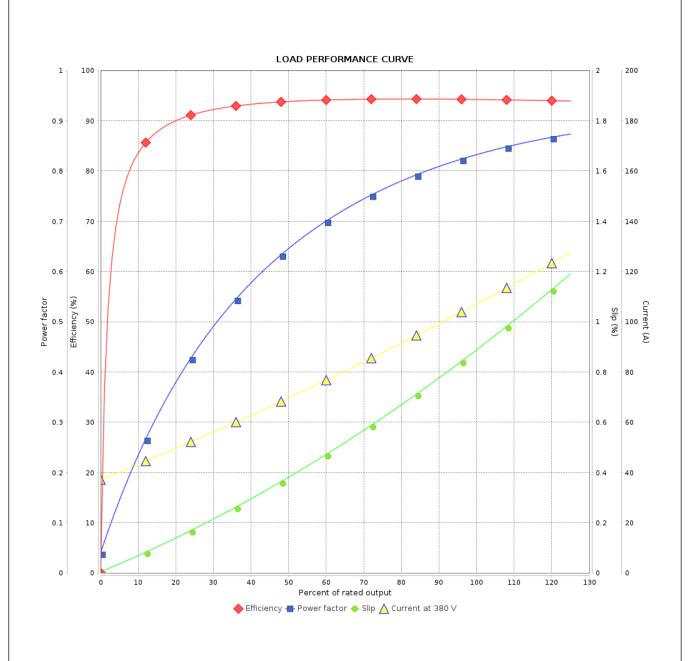


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943602



Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 107 A : 6.7 : 54.9 kgfm : 229 % : 250 % : 991 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.68 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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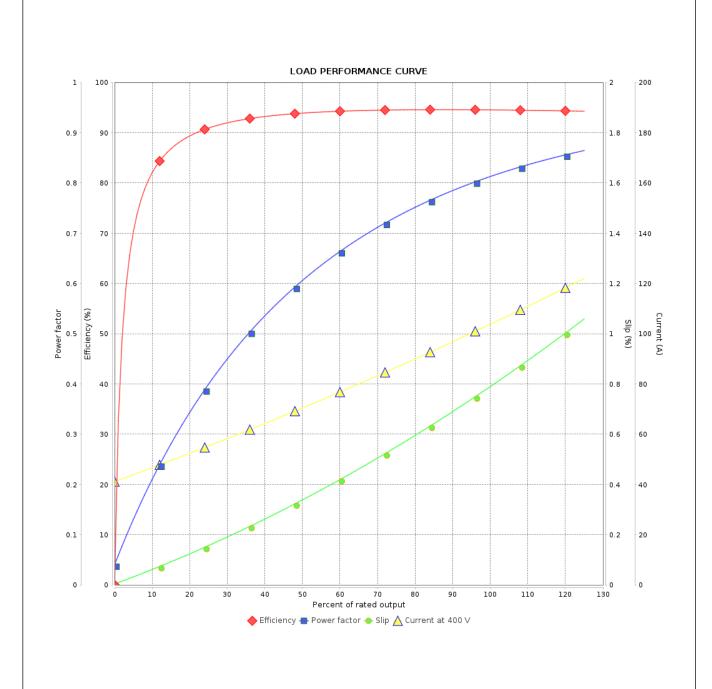
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943602

Efficiency Three-Phase



Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 104 A	Moment of	f inertia (J)	: 3.68 kgm²	
LRC		: 7.4	Duty cycle)	: Cont.(S1)	
Rated torque		: 54.9 kgfm	Insulation class		Insulation class : F	
Locked rotor tord	que	: 250 %	Service factor		: 1.00	
Breakdown torqu	ıe	: 280 %	Temperat	ure rise	: 80 K	
Rated speed		: 992 rpm	Design		: B	
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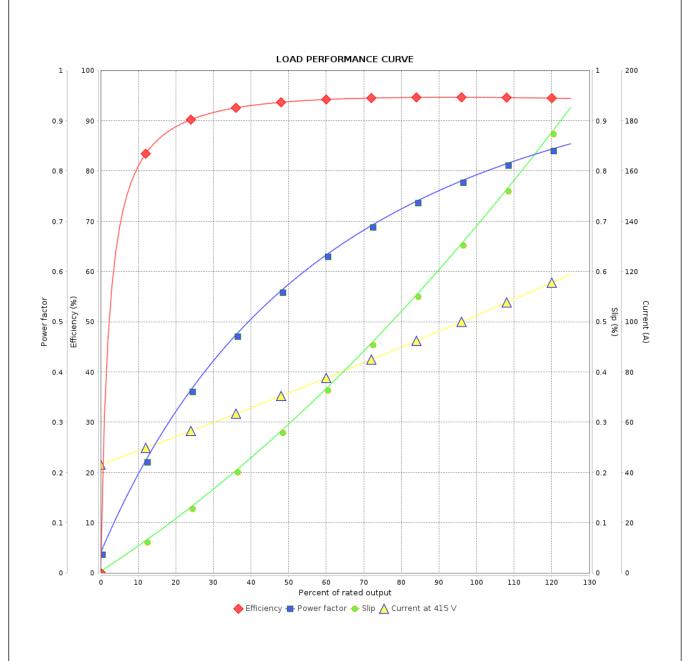


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943602



Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 7.9 : 54.8 kgfm : 270 % : 310 % : 993 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.68 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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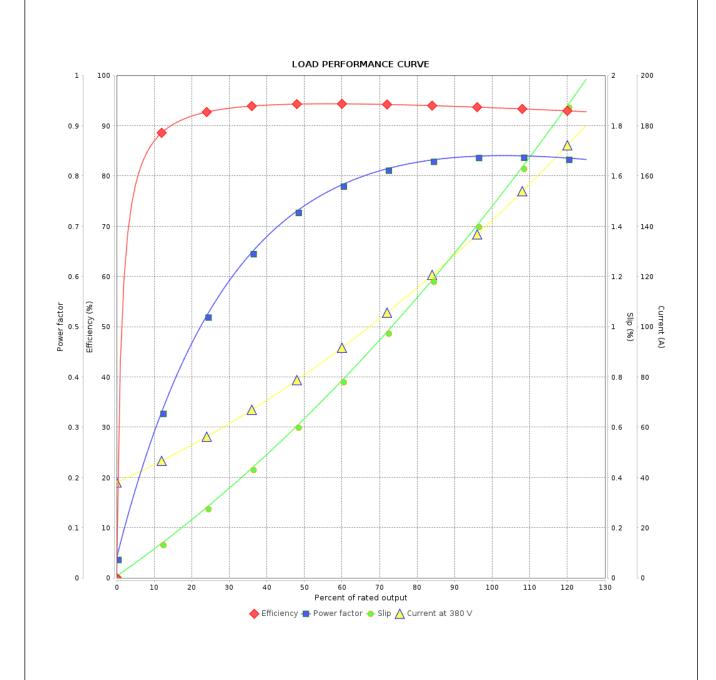


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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943602



	: 380 V 50 Hz 6P IE1				
	: 145 A	Moment of	of inertia (J)	: 3.68 kgm²	
	: 5.0	Duty cycle	9	: Cont.(S1)	
	: 73.7 kgfm	Insulation	class	: F	
que	: 170 %	Service fa	ictor	: 1.00	
ıe	: 180 %	Temperat	ure rise	: 105 K	
	: 985 rpm	Design		: B	
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		: 145 A : 5.0 : 73.7 kgfm que : 170 % ue : 180 % : 985 rpm	: 145 A	: 145 A Moment of inertia (J) : 5.0 Duty cycle : 73.7 kgfm Insulation class que : 170 % Service factor ue : 180 % Temperature rise : 985 rpm Design	: 145 A Moment of inertia (J) : 3.68 kgm² : 5.0 Duty cycle : Cont.(S1) : 73.7 kgfm Insulation class : F que : 170 % Service factor : 1.00 ue : 180 % Temperature rise : 105 K : 985 rpm Design : B

rated speed	. •	oo ipiii	Design		. Б	
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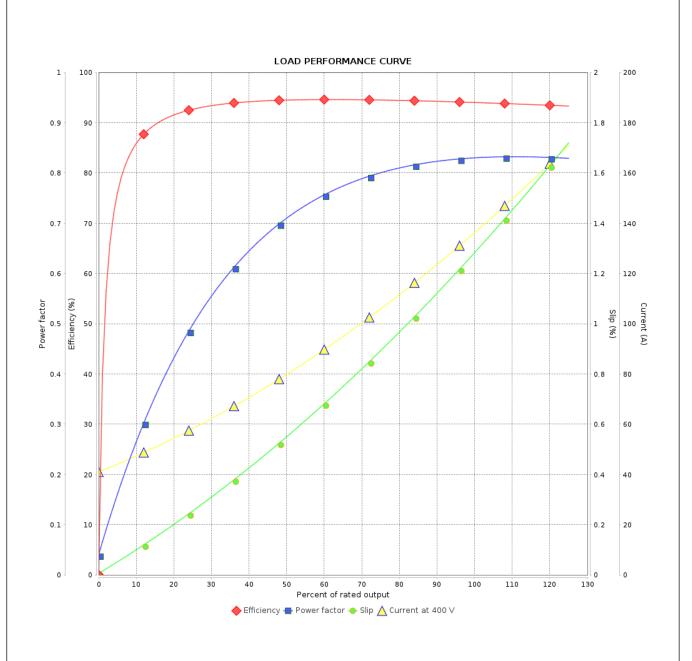


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943602



Performance	: 40	00 V 50 Hz 6P IE2				
Rated current	: 1:	39 A Moment of		of inertia (J)	: 3.68 kgm²	
LRC	: 5.	.5	Duty cycle	е	: Cont.(S1)	
Rated torque	: 73	3.5 kgfm	Insulation	class	: F	
Locked rotor tord	que : 19	90 %	Service fa	actor	: 1.00	
Breakdown torqu	•	00 %	6 Temperature rise		: 105 K	
Rated speed	: 98	87 rpm	Design		: B	
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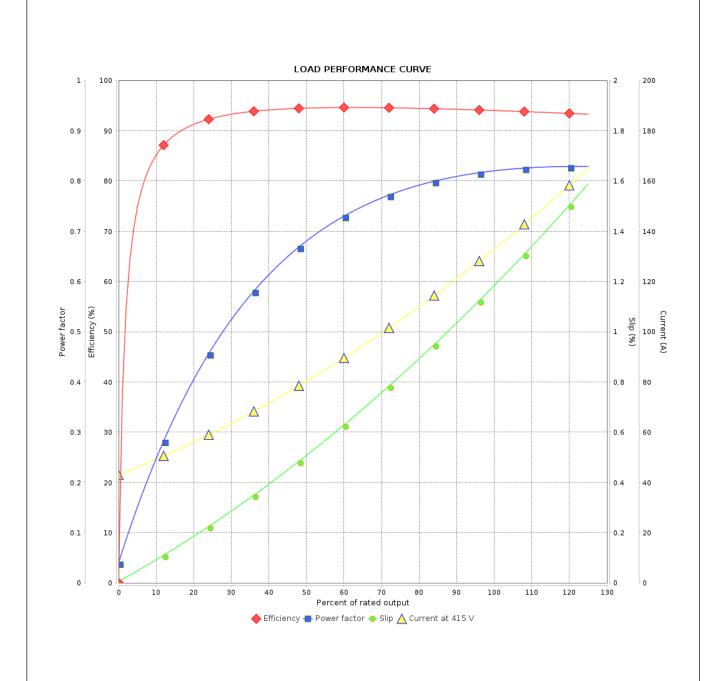
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 415 V 50 Hz 6P	IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 135 A : 6.0 : 73.5 kgfm : 200 % : 220 % : 988 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.68 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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