DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943070 Efficiency Three-Phase Frame : 364/5T 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) : 1.22 kgm² Design : B 40 40 Output [HP] 30 30 30 40 40 Poles 8 8 8 8 8 8 8 Frequency [Hz] 60 50 50 50 50 50 50 380 Rated voltage [V] 460 380 400 415 400 415 62.9 Rated current [A] 50.9 47.8 46.3 45.7 60.0 58.1 L. R. Amperes [A] 300 292 310 324 283 300 320 LRC [A] 5.9x(Code | 6.1x(Code H) | 6.7x(Code J) | 7.1x(Code J) | 4.5x(Code E) | 5.0x(Code F) | 5.5x(Code G) G) 20.7 No load current [A] 21.5 20.7 22.2 23.4 22.2 23.4 Rated speed [RPM] 882 735 736 737 725 727 730 Slip [%] 2.00 2.00 1.87 1.73 3.33 3.07 2.67 Rated torque [kgfm] 32.9 29.6 29.6 29.5 40.0 39.9 39.8 Locked rotor torque [%] 170 600 210 229 140 160 170 Breakdown torque [%] 210 240 270 300 180 200 210 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 32s (cold) Locked rotor time 46s (cold) 81s (cold) 52s (cold) 52s (cold) 32s (cold) 32s (cold) 26s (hot) 45s (hot) 29s (hot) 29s (hot) 18s (hot) 18s (hot) 18s (hot) Noise level² 60.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 92.4 91.5 91.5 90.9 91.7 91.7 91.7 Efficiency (%) 75% 93.0 91.6 91.9 91.8 91.0 91.7 91.7 100% 92.4 90.9 91.5 91.7 89.5 90.2 91.0 25% 50% 0.65 0.60 0.55 0.52 0.70 0.66 0.62 Power Factor 75% 0.75 0.71 0.68 0.65 0.78 0.76 0.74 100% 0.80 0.77 0.75 0.73 0.81 0.80 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.1 8.1 8.1 8.1 8.1 8.1 8.1 P2 (0,5;1,0) 7.1 7.1 7.1 7.1 7.1 7.1 7.1 P3 (0,25;1,0) 6.5 6.5 6.5 6.5 6.5 6.5 6.5 P4 (0,9;0,5) 3.6 3.6 3.6 3.6 3.6 3.6 3.6 Losses (%) P5 (0,5;0,5) 2.6 2.6 2.6 2.6 2.6 2.6 2.6 P6 (0,5;0,25) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 P7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 938 kgf Max. traction Taconite Taconite Sealing : 938 kgf Max. compression Labyrinth Labyrinth Lubrication interval 20000 h 20000 h Lubricant amount 27 a 27 g Lubricant type Mobil Polyrex EM

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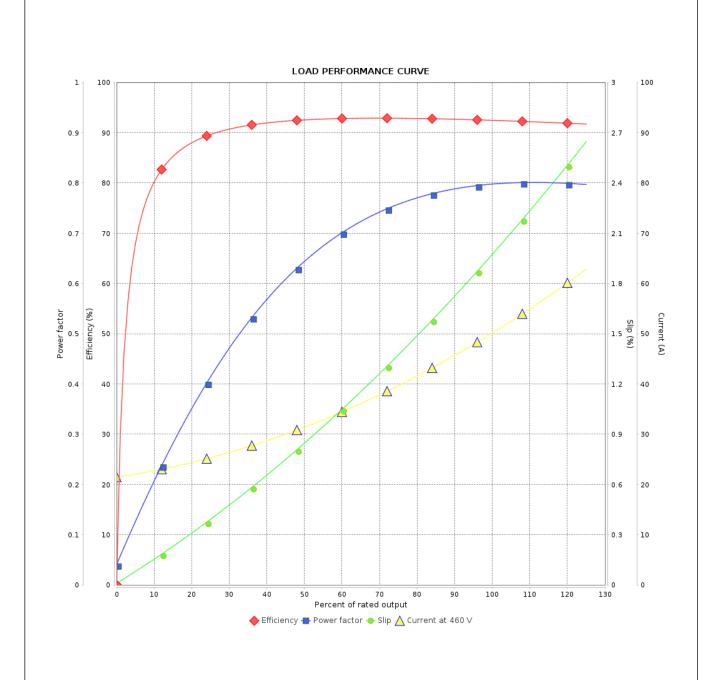
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943070



Performance	: 460 V 60 Hz 8P			
Rated current	: 50.9 A	Moment of inertia (J)	: 1.22 kgm²	
LRC	: 5.9	Duty cycle	: Cont.(S1)	
Rated torque	: 32.9 kgfm	Insulation class	:F	
Locked rotor torque	: 170 %	Service factor	: 1.25	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 882 rpm	Design	: B	

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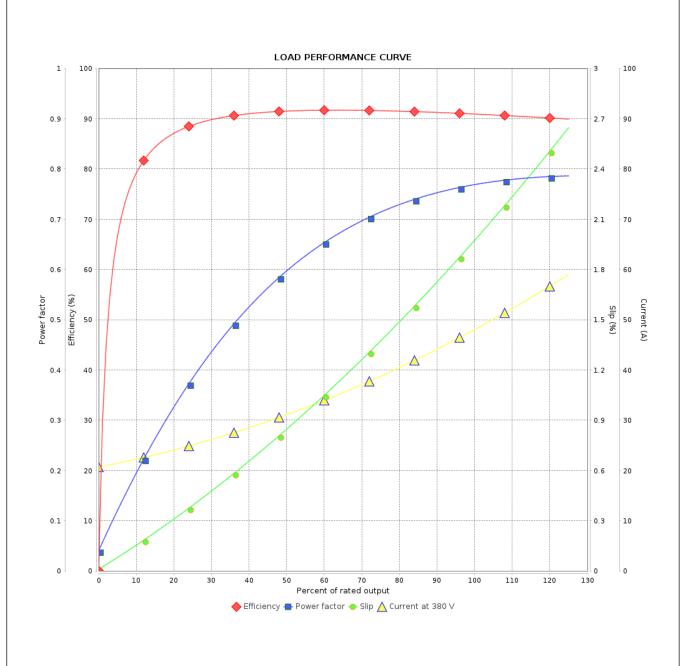


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943070



Performance	Performance : 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed			: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B		
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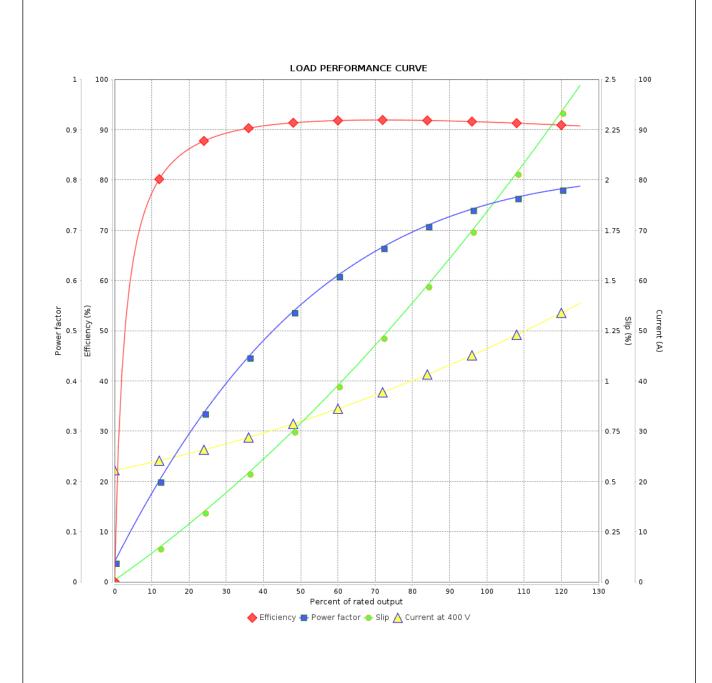
Three Phase Induction Motor - Squirrel Cage



11943070

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :



Performance	: 400 V 50 Hz 8P IE3				
Rated current	: 46.3 A	Moment of	f inertia (J)	: 1.22 kgm²	
LRC : 6.7 Duty cycle		:	: Cont.(S1)		
Rated torque	: 29.6 kgfm	Insulation class		:F	
Locked rotor torque	: 210 %	Service factor		: 1.00	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 736 rpm	Design		: B	
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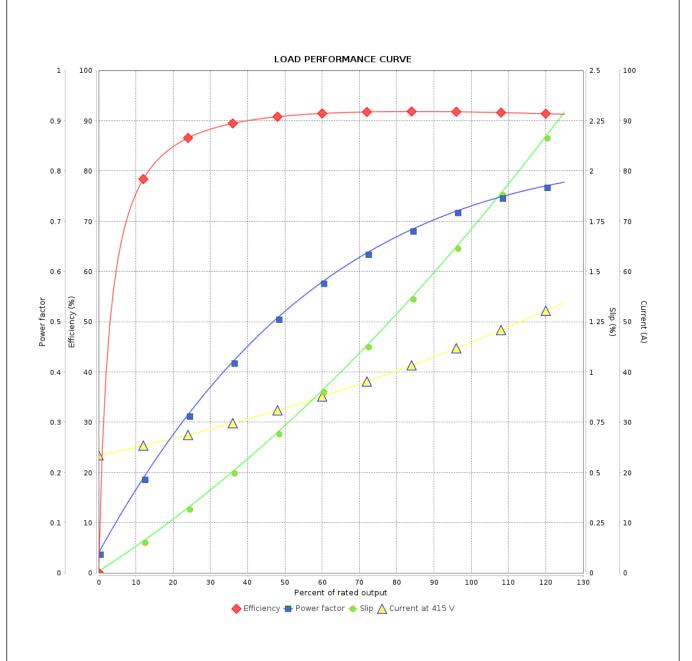


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943070



Performance	: 415 V 50 Hz 8P IE3				
Rated current : 45.7 A Moment of iner LRC : 7.1 Duty cycle Rated torque : 29.5 kgfm Insulation class Locked rotor torque : 229 % Service factor Breakdown torque : 300 % Temperature ris Rated speed : 737 rpm Design		iss r	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B		
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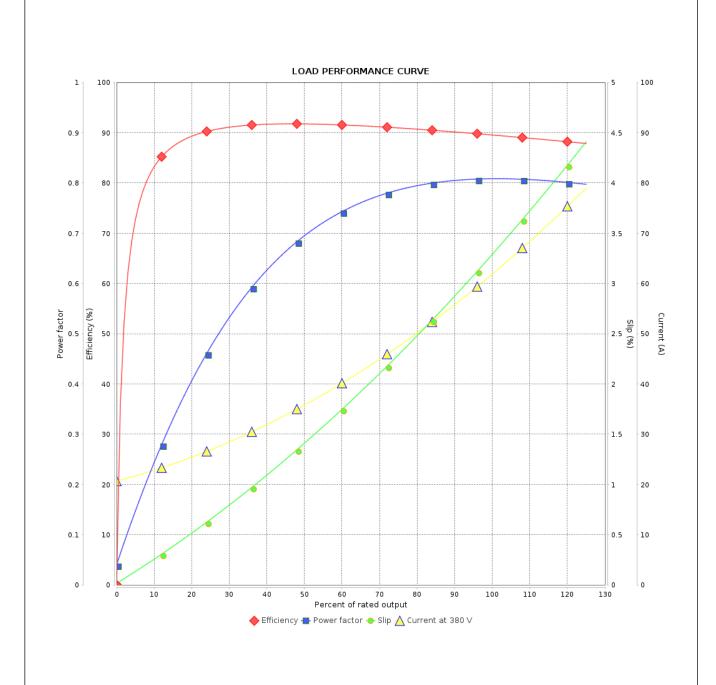
Three Phase Induction Motor - Squirrel Cage



11943070

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :



Performance	: 380 V 50 Hz 8P IE1				
Rated current LRC Rated torque Locked rotor torque	: 62.9 A : 4.5 : 40.0 kgfm : 140 %	Duty cycle Insulation Service fa	class ctor	: 1.22 kgm² : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 180 % : 725 rpm	Temperatu Design	ure rise	: 105 K : B	
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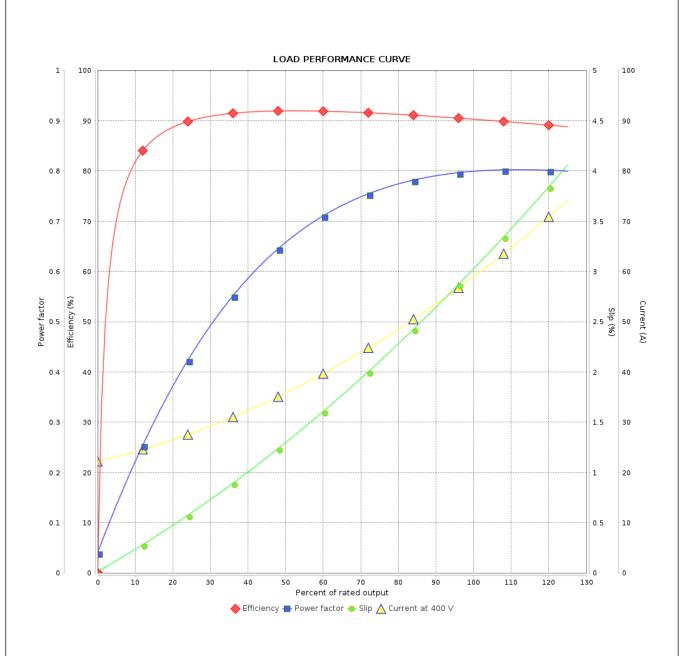


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943070



Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 60.0 A : 5.0 : 39.9 kgfm : 160 % : 200 % : 727 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.22 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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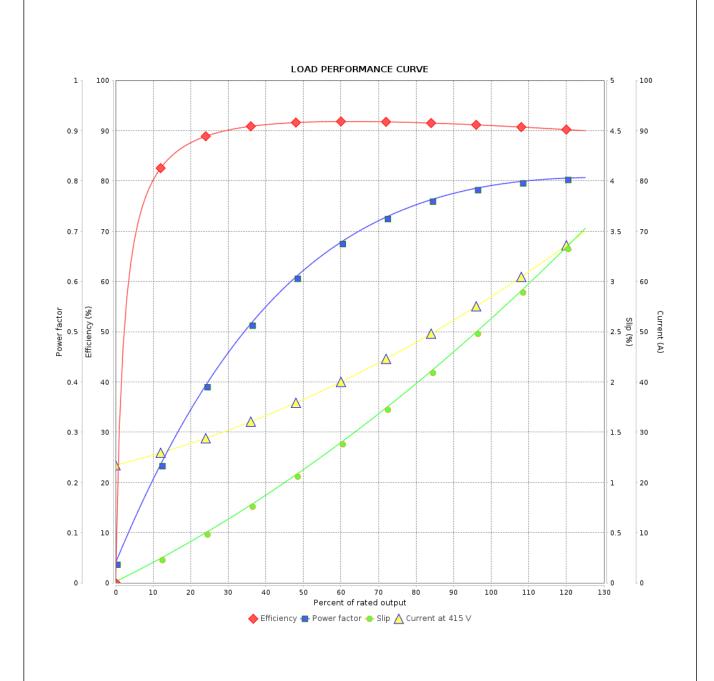
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943070



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Rated speed	: 730 rpm	Design		: B	
Breakdown torque	: 210 %	Temperatu	ıre rise	: 105 K	
Locked rotor torque	: 170 %	Service fa	ctor	: 1.00	
Rated torque	: 39.8 kgfm	Insulation	class	: F	
LRC	: 5.5	Duty cycle		: Cont.(S1)	
Rated current	: 58.1 A	Moment of	f inertia (J)	: 1.22 kgm²	
Performance	: 415 V 50 Hz 8P IE2				

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