DATA SHEET

Checked by

Date

13/01/2024



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12846716 Three-Phase Frame : 213/5T 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 : 1000 m.a.s.l. Approx. weight³ : 79.7 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0566 kgm² Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 9.18 11.0 10.6 10.3 L. R. Amperes [A] 65.2 61.6 65.7 69.0 LRC [A] 7.1x(Code H) 5.6x(Code F) 6.2x(Code G) 6.7x(Code H) No load current [A] 4.20 4.10 4.40 4.70 Rated speed [RPM] 1765 1455 1460 1465 Slip [%] 1.94 3.00 2.67 2.33 Rated torque [kgfm] 3.08 3.74 3.73 3.72 Locked rotor torque [%] 220 170 190 210 Breakdown torque [%] 310 240 270 290 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 36s (cold) 20s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) Noise level² 58.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 89.5 89.5 89.5 89.5 Efficiency (%) 75% 91.0 89.5 90.2 90.2 100% 91.7 89.6 90.2 90.2 25% 50% 0.66 0.72 0.69 0.66 Power Factor 75% 0.76 0.81 0.78 0.76 0.82 0.83 0.82 100% 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.8 8.8 8.8 8.8 P2 (0,5;1,0) 7.0 7.0 7.0 7.0 P3 (0,25;1,0) 6.5 6.5 6.5 6.5 P4 (0,9;0,5) 4.9 4.9 Losses (%) 4.9 4.9 P5 (0,5;0,5) 3.3 3.3 3.3 3.3 P6 (0,5;0,25) 2.4 2.4 2.4 2.4 P7 (0,25;0,25) 1.6 1.6 1.6 1.6 Drive end Non drive end Foundation loads 6308 C3 6207 C3 Bearing type : 159 kgf Max. traction Sealing **Taconite** Taconite Max. compression : 239 kgf Labyrinth Labyrinth 20000 h 20000 h Lubrication interval Lubricant amount 11 g 7 g Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). **Changes Summary** Performed Checked Rev. Date Performed by

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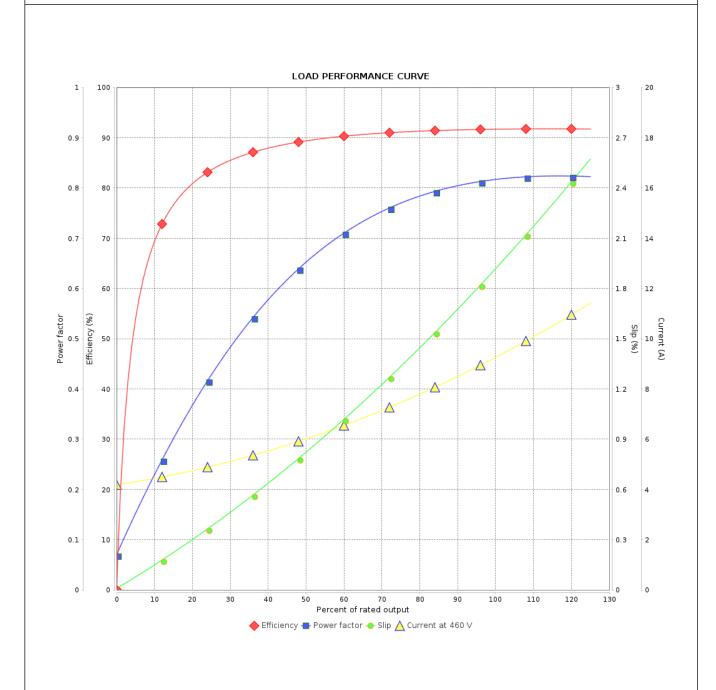
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12846716

Three-Phase



Performance		: 460 V 60 Hz 4P					
Rated current		.18 A Moment of inertia (J)		: 0.0566 kgm²			
LRC		 : 7.1 : 3.08 kgfm : 220 % : 310 % : 1765 rpm Duty cycle Insulation class Service factor Temperature rise Design 			: Cont.(S1)		
Rated torque Locked rotor torque					: F : 1.25		
Breakdown torque	: 31			ure rise	: 80 K		
Rated speed	: 17				: B		
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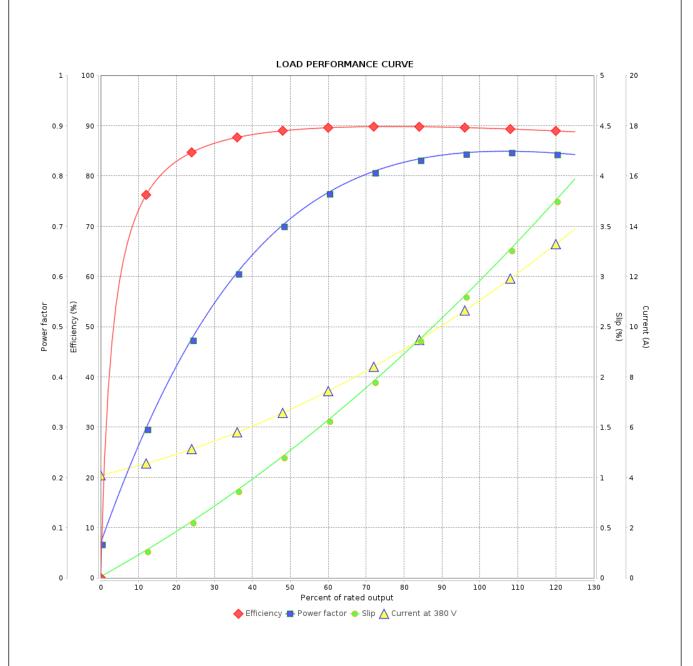


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product

Three-Phase

Product code: 12846716



Performance	: 380 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.0 A : 5.6 : 3.74 kgfm : 170 % : 240 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0566 kgm² : Cont.(S1) : F : 1.25 : 80 K : B		
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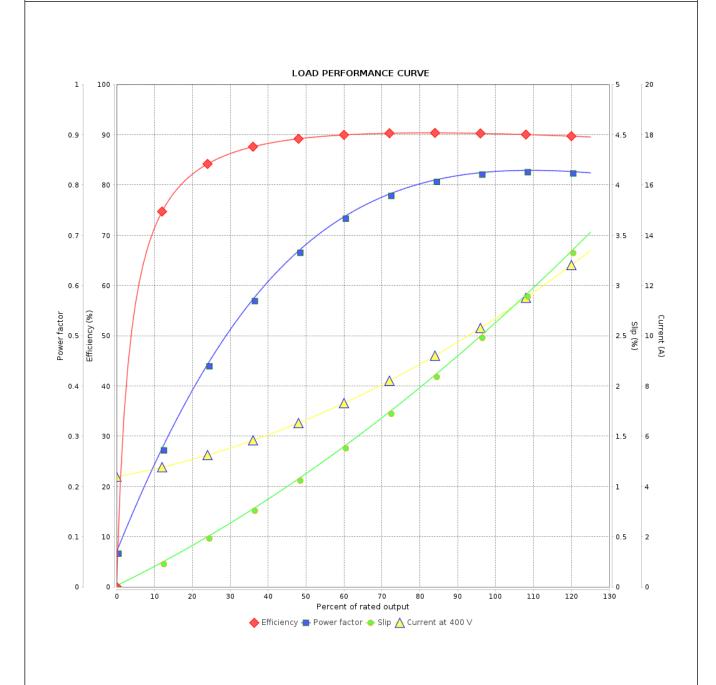
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12846716

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.6 A : 6.2 : 3.73 kgfm : 190 % : 270 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0566 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



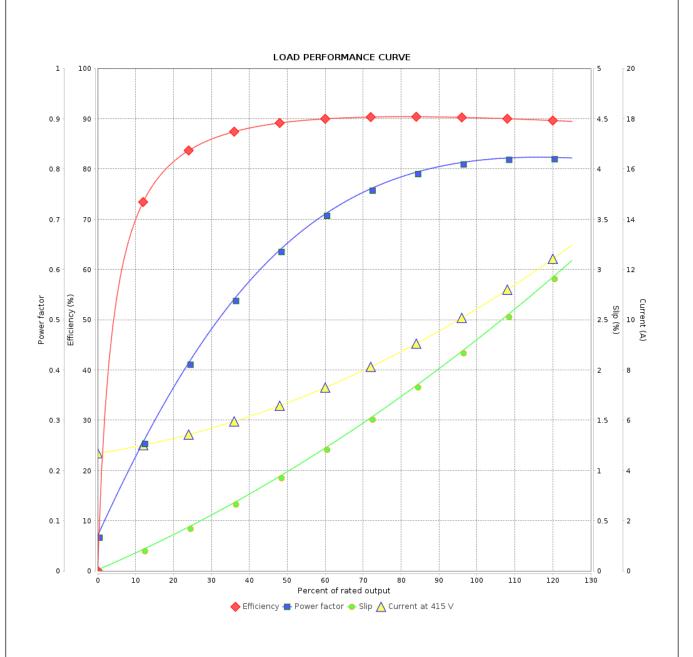
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

12846716



Performance	erformance : 415 V 50 Hz 4P IE3					
Rated current		: 10.3 A	Moment of inertia (J)		: 0.0566 kgm²	
LRC		: 6.7	Duty cycle	Duty cycle		
Rated torque Locked rotor torque Breakdown torque Rated speed		: 3.72 kgfm Insulation class : 210 % Service factor : 290 % Temperature rise : 1465 rpm Design		class	: F	
				actor	: 1.25	
				ure rise	: 80 K	
				: B		
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