DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12376409 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 : 76.7 kg Altitude Protection degree : IP56 Moment of inertia (J) : 0.0504 kgm² Design : B Output [HP] 3 3 3 3 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 4.41 5.09 4.92 4.87 L. R. Amperes [A] 30.9 29.5 31.5 33.1 LRC [A] 7.0x(Code K) 5.8x(Code H) 6.4x(Code J) 6.8x(Code J) No load current [A] 2.75 2.72 2.91 3.05 Rated speed [RPM] 1175 965 970 970 Slip [%] 2.08 3.50 3.00 3.00 Rated torque [kgfm] 1.85 2.26 2.24 2.24 Locked rotor torque [%] 200 170 200 220 Breakdown torque [%] 280 210 240 270 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 72s (cold) 40s (hot) Locked rotor time 104s (cold) 58s (hot) 72s (cold) 40s (hot) 72s (cold) 40s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 50% 86.5 87.5 86.5 86.5 Efficiency (%) 75% 88.5 88.5 88.5 88.5 100% 89.5 87.5 88.5 88.5 25% 50% 0.50 0.57 0.53 0.50 Power Factor 75% 0.63 0.70 0.66 0.64 0.70 0.75 0.73 0.71 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.0 11.0 11.0 P2 (0,5;1,0) 8.5 8.5 8.5 8.5 P3 (0,25;1,0) 7.7 7.7 7.7 7.7 P4 (0,9;0,5) Losses (%) 6.7 6.7 6.7 6.7 4.4 P5 (0,5;0,5) 4.4 4.4 4.4 P6 (0,5;0,25) 3.4 3.4 3.4 3.4 P7 (0,25;0,25) 2.5 2.5 2.5 2.5 Drive end Non drive end Foundation loads Bearing type 6308 C3 6207 C3 Max. traction : 73 kaf Sealing Inpro/Seal Inpro/Seal Max. compression : 150 kgf 20000 h 20000 h Lubrication interval Lubricant amount 11 g 7 q Mobil Polyrex EM Lubricant type 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.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

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Three Phase Induction Motor - Squirrel Cage



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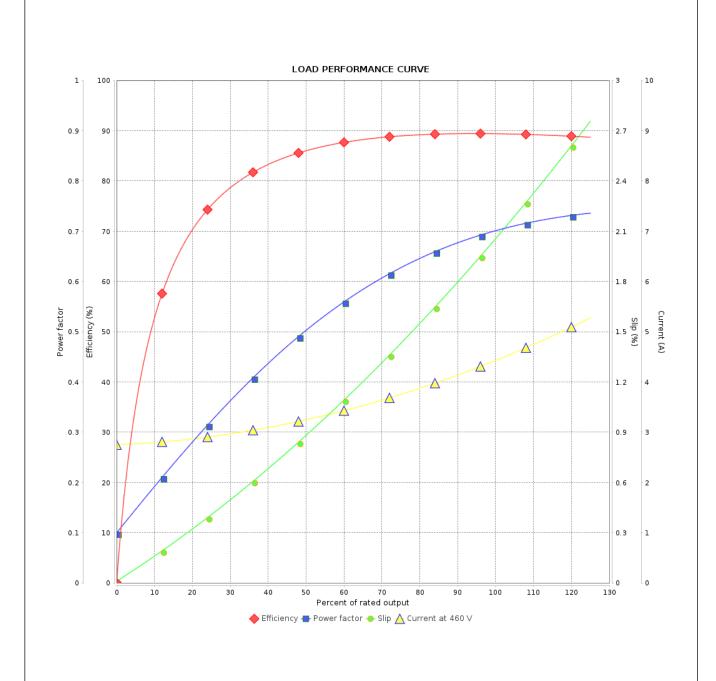
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12376409

Three-Phase



Performance	: 460 V 60 Hz 6P				
Rated current	: 4.41 A	Moment of inertia (J)		: 0.0504 kgm²	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 1.85 kgfm	Insulation class		: F	
Locked rotor torque	: 200 %	Service factor		: 1.25	
Breakdown torque	kdown torque : 280 % Temperature rise		ure rise	: 80 K	
Rated speed	: 1175 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : W22 IEEE 841 NEMA Premium Efficiency

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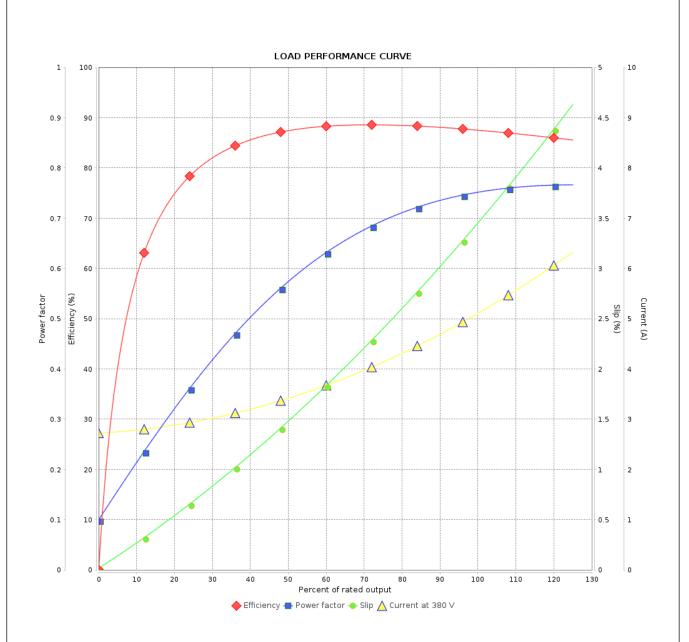
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Revision





Performance	: 380 V 50 Hz 6P IE4	50 Hz 6P IE4					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.8 Duty of Insular Service : 210 % Temp		class	: 0.0504 kgm² : Cont.(S1) : F : 1.00 : 80 K			
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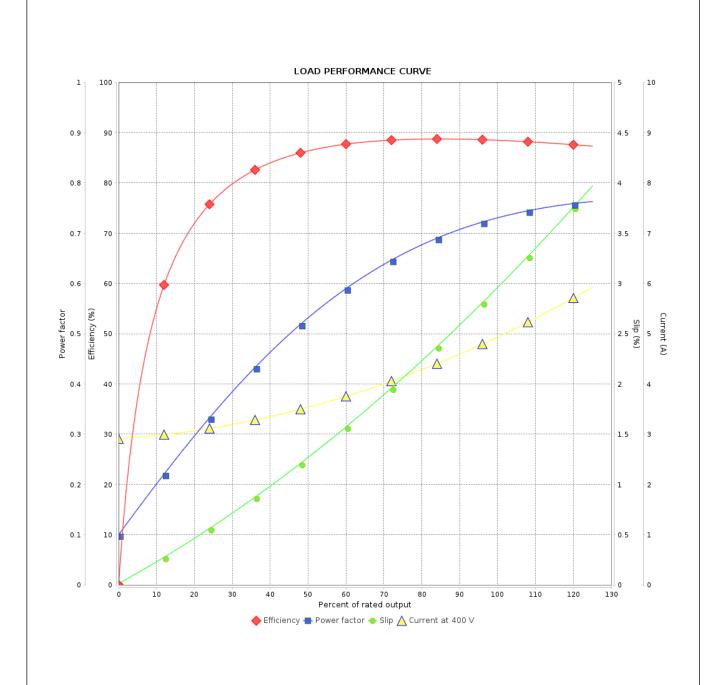
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12376409

Three-Phase



Performance : 400 V 50 Hz 6P IE4					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.92 A : 6.4 : 2.24 kgfm : 200 % : 240 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0504 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

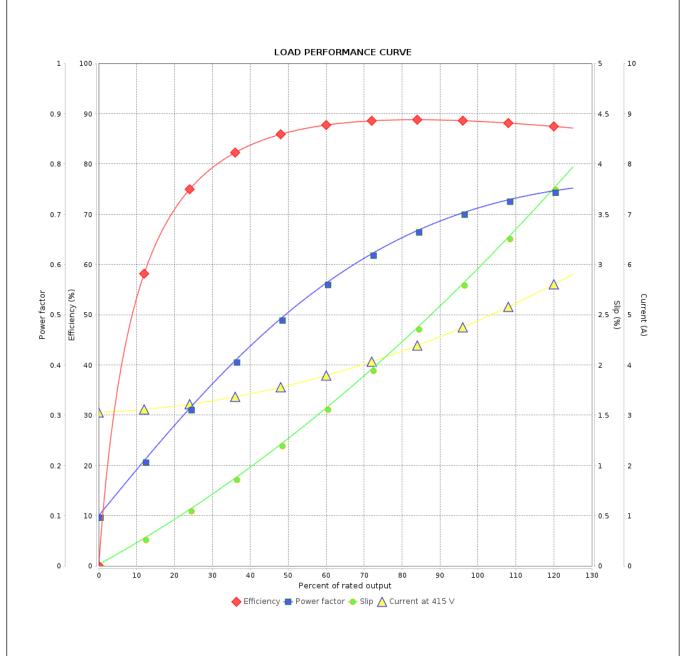


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 12376409



: 415 V 50 Hz 6	: 415 V 50 Hz 6P IE4						
	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0504 kgm² : Cont.(S1) : F : 1.00 : 80 K : B			
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	: 4.87 A : 6.8 : 2.24 kgfm : 220 % :e : 270 % : 970 rpm	: 4.87 A	: 4.87 A : 6.8 : 2.24 kgfm : 220 % : 270 % : 970 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 4.87 A			

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Date