DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 14380971 : L100L : IC411 - TEFC Frame Cooling method Insulation class Mounting : F : B35L(E) Duty cycle : 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 : 42.9 kg Protection degree : IP55 Moment of inertia (J) : 0.0120 kgm² Design : N Output [HP] 4 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 6.42 6.07 10.8/5.39 L. R. Amperes [A] 48.1 49.8 102/51.2 LRC [A] 7.5 8.2 9.5 6.60/3.30 No load current [A] 3.20 3.80 Rated speed [RPM] 1445 1740 1430 Slip [%] 4.67 3.67 3.33 Rated torque [kgfm] 2.03 2.01 1.67 Locked rotor torque [%] 440 310 390 Breakdown torque [%] 370 409 300 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 23s (cold) 13s (hot) 27s (cold) 15s (hot) 32s (cold) 18s (hot) Noise level² 53.0 dB(A) 53.0 dB(A) 54.0 dB(A) 25% 50% 87.7 86.3 84.0 Efficiency (%) 75% 87.7 88.0 86.5 100% 87.7 88.1 89.5 25% 0.65 0.56 0.59 50% Power Factor 75% 0.77 0.70 0.71 100% 0.81 0.78 0.78 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.3 12.8 11.1 P2 (0,5;1,0) 10.9 10.5 9.1 P3 (0,25;1,0) 10.5 10.1 8.7 Losses (%) P4 (0,9;0,5) 7.3 7.0 6.1 P5 (0,5;0,5) 5.0 4.8 4.2 3.7 P6 (0,5;0,25) 3.5 3.1 P7 (0,25;0,25) 2.6 2.5 2.2 Drive end Non drive end Foundation loads Bearing type 6206 ZZ 6205 ZZ Max. traction : 149 kgf Sealing Oil Seal Lip Seal : 192 kaf Max. compression Lubrication interval Lubricant amount 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. MG-1. (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. Rev. Changes Summary Performed Checked Date

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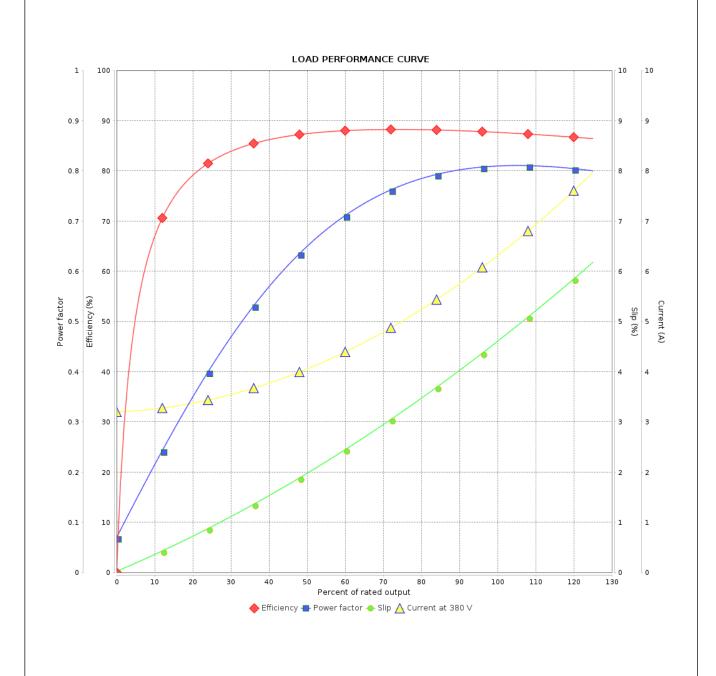
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14380971



Performance	: 380 V 50 Hz 4P				
Rated current	: 6.42 A	Moment of inertia (J)	: 0.0120 kgm²	: 0.0120 kgm²	
LRC	: 7.5	Duty cycle	: S1	: S1	
Rated torque	: 2.03 kgfm	Insulation class	: F		
Locked rotor torque	: 310 %	Service factor	: 1.25		
Breakdown torque	: 300 %	Temperature rise	: 80 K		
Rated speed	: 1430 rpm	Design	: N		
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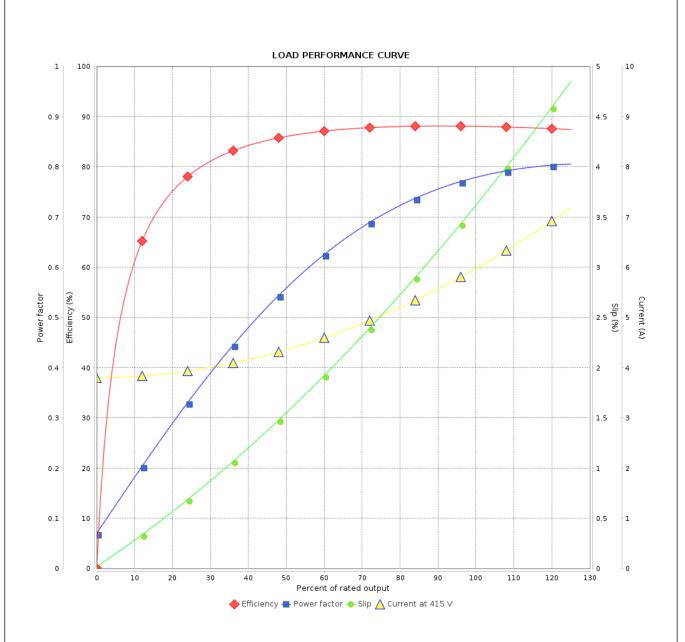
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14380971



Performance	: 415 V 50 Hz 4P			
Rated current	: 6.07 A	Moment of inertia (J)	: 0.0120 kgm²	
LRC Rated torque	: 8.2 : 2.01 kgfm	Duty cycle Insulation class	: S1 : F : 1.25	
Locked rotor torque	: 390 %	Service factor		
Breakdown torque	: 370 %	Temperature rise	: 80 K	
Rated speed	: 1445 rpm	Design	: N	
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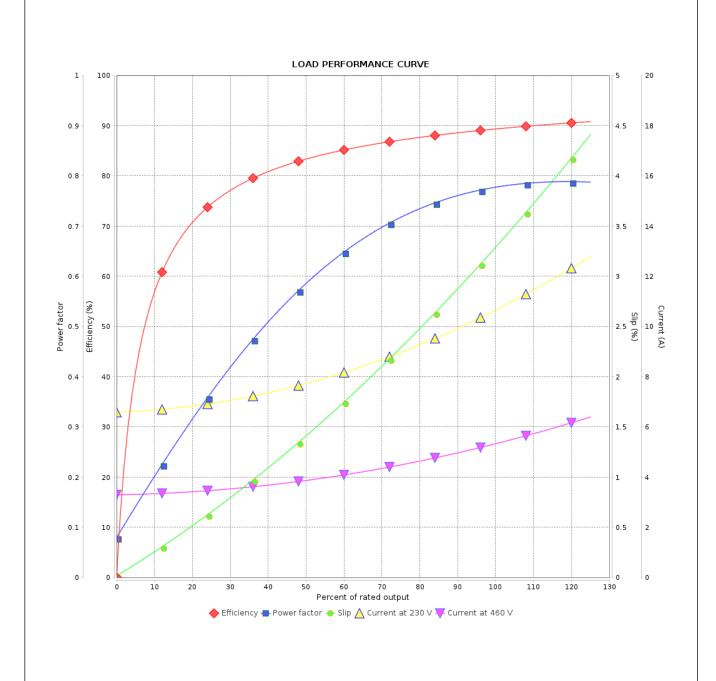
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14380971



Performance	: 230/460 V 60 Hz 4P				
Rated current	: 10.8/5.39 A	Moment of inertia (J)		: 0.0120 kgm² : S1	
LRC	: 9.5 Duty cycle				
Rated torque		Insulation		: F	
Locked rotor torque	: 440 %	% Temperature rise		: 1.25 : 80 K	
Breakdown torque	: 409 %				
Rated speed	: 1740 rpm	Design		: N	
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