DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Close Coupled Pump NEMA Premium

Product code: 11185449

Efficiency Three-Phase

: 286JM Frame Insulation class : F

Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l.

Protection degree : IP23 Cooling method : IC01 - ODP Mounting : F-1

Rotation¹ : Both (CW and CCW) Starting method : Direct On Line

Approx. weight³ : 173 kg Moment of inertia (J) : 0.0993 kgm²

Design : B 40 30 40 30 30 2 2 2 2 2

Output [HP] 40 40 Poles 2 2 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 94.2/47.1 41.9 41.3 41.2 56.3 54.1 53.4 L. R. Amperes [A] 603/301 285 314 334 293 319 342 6.8x(Code LRC [A] 6.4x(Code 7.6x(Code J) 8.1x(Code J) 5.2x(Code E) 5.9x(Code F) 6.4x(Code G) G) G) No load current [A] 32.0/16.0 15.0 18.0 20.0 15.0 17.5 20.0 Rated speed [RPM] 3550 2955 2960 2965 2930 2935 2940 Slip [%] 1.39 1.50 1.33 1.17 2.33 2.17 2.00 Rated torque [kgfm] 8.18 7.37 7.36 7.34 9.91 9.89 9.87 Locked rotor torque [%] 250 270 280 320 190 210 229 Breakdown torque [%] 260 250 280 300 200 200 200 Service factor 1.15 1.15 1.15 1.15 1.15 1.15 1.15 Temperature rise 80 K 27s (cold) Locked rotor time 41s (cold) 46s (cold) 41s (cold) 36s (cold) 30s (cold) 28s (cold) 23s (hot) 26s (hot) 23s (hot) 20s (hot) 17s (hot) 16s (hot) 15s (hot) Noise level² 73.0 dB(A) 25% 86.5 87.6 91.5 86.7 89.1 89.1 90.5 50% 91.7 88.88 88.6 89.2 90.2 90.2 91.0 Efficiency (%) 75% 93.0 90.4 90.4 91.2 91.0 91.0 91.7 100% 93.0 92.7 92.7 92.8 92.0 92.0 92.0 25% 0.49 0.49 0.43 0.39 0.57 0.46 0.51 50% 0.74 0.73 0.68 0.80 0.76 0.72 0.64 Power Factor 75% 0.82 0.78 0.75 0.86 0.81 0.83 0.84 100% 0.86 0.83 0.80 0.88 0.87 0.85 0.86

Drive end Non drive end Bearing type 6311 Z C3 6211 Z C3 Sealing

Without Without Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM

Foundation loads

Max. traction : 196 kgf Max. compression : 369 kgf

USABLE @208V 104A SF 1.15 SFA 120A

This revision replaces and cancel the previous one, which must be eliminated.

- (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.

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Three Phase Induction Motor - Squirrel Cage

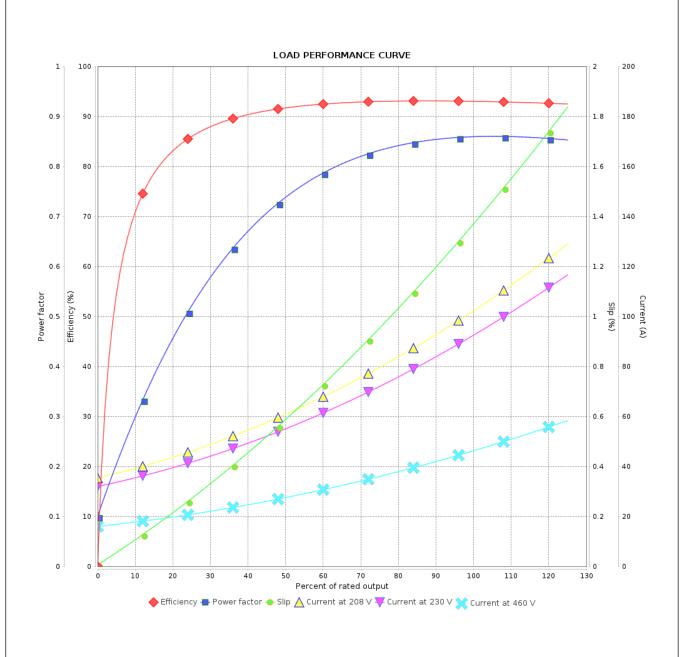


Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11185449



Performance	: 230/460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 94.2/47.1 A : 6.4 : 8.18 kgfm : 250 % : 260 % : 3550 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0993 kgm ² : Cont.(S1) : F : 1.15 : 80 K : B	2
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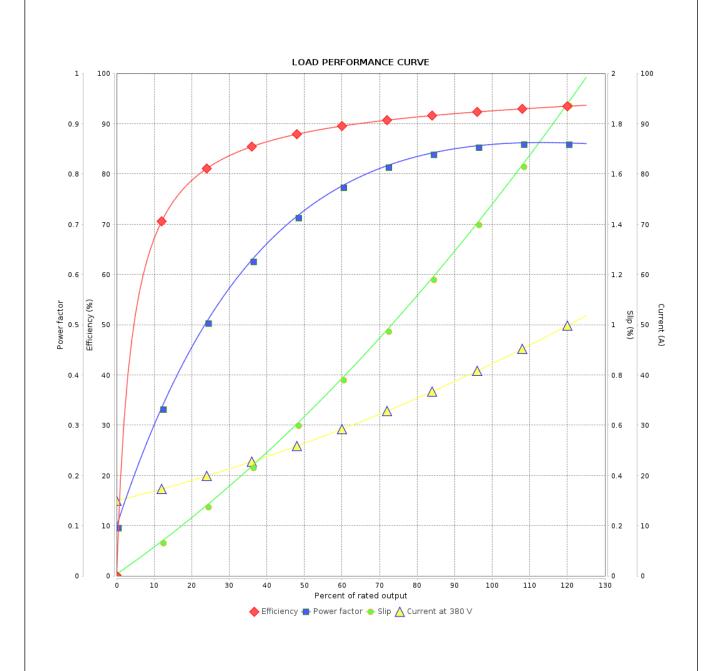


Customer :

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Efficiency Three-Phase

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Performance	: 380 V 50 Hz 2P IE3				
Rated current	: 41.9 A	Moment of inertia (J)		: 0.0993 kgm²	
LRC	: 6.8	Duty cycle		: Cont.(S1)	
Rated torque	: 7.37 kgfm	Insulation class		:F	
Locked rotor torque	: 270 %	Service factor		: 1.15	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 2955 rpm	Design		: B	
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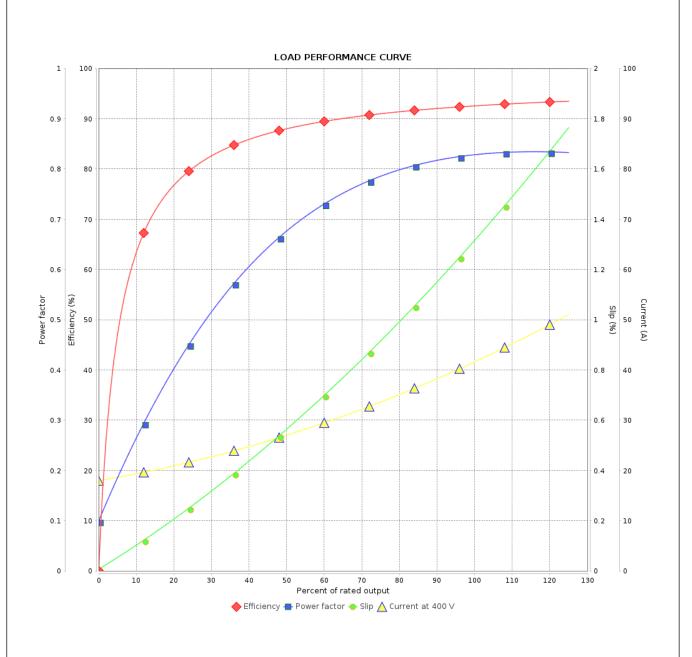
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase



Performance	: 4	: 400 V 50 Hz 2P IE3				
Rated current : 41		1.3 A	Moment of	Moment of inertia (J)		2
LRC : 7.		7.6	Duty cycle	Duty cycle		
Rated torque : 7		'.36 kgfm	Insulation	Insulation class		
Locked rotor tord	Locked rotor torque : 2		Service fa	actor	: 1.15	
Breakdown torque		80 %	Temperat	Temperature rise		
Rated speed		960 rpm	Design	Design		
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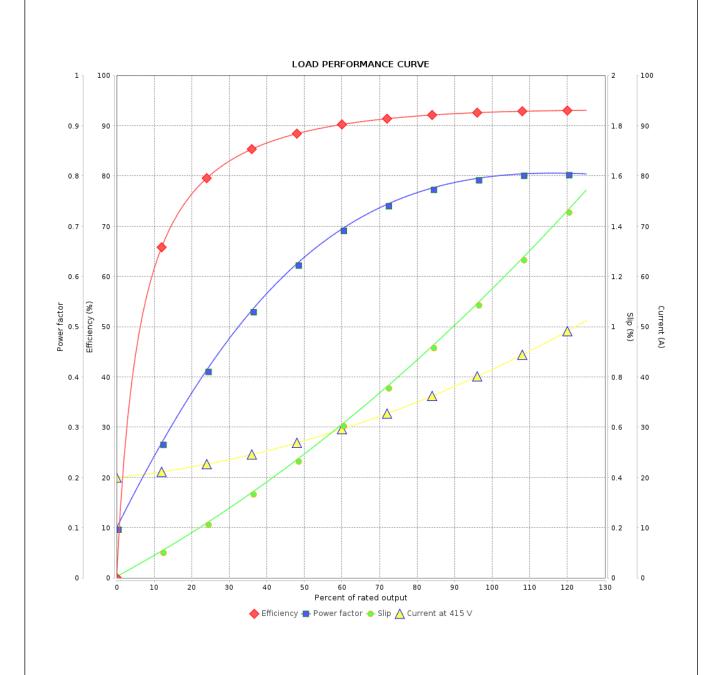
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase



Performance	: 4	: 415 V 50 Hz 2P IE3					
Rated current :		11.2 A	Moment o	Moment of inertia (J)		2	
LRC : 8.		3.1	Duty cycle	Duty cycle			
Rated torque : 7		7.34 kgfm	Insulation class		:F		
Locked rotor torque :		320 %	Service fa	ctor	: 1.15		
Breakdown torque		800 %	Temperati	Temperature rise			
Rated speed	: 2	2965 rpm	Design	Design			
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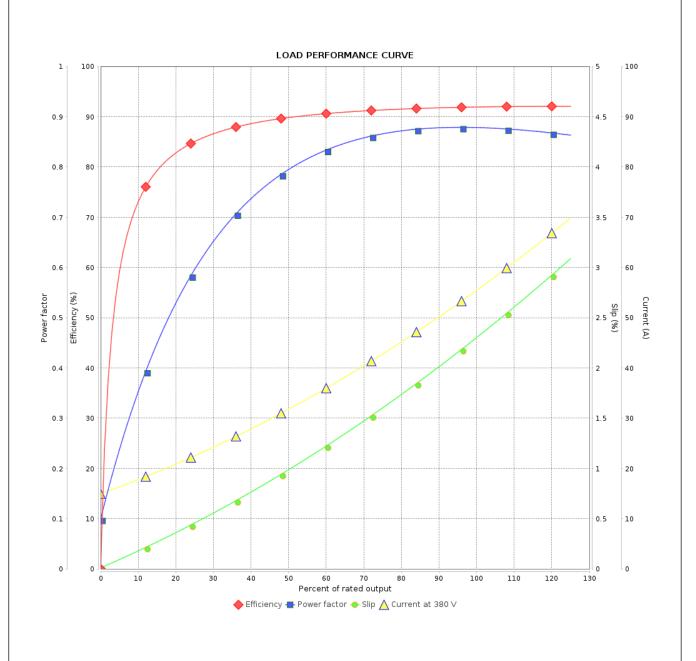
Three Phase Induction Motor - Squirrel Cage



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Performance	rmance : 380 V 50 Hz 2P IE2					
Rated current :		6.3 A	Moment of inertia (J)		: 0.0993 kgm²	
LRC	: 5	.2	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 9	.91 kgfm	Insulation	class	: F	
Locked rotor torque : 1		90 %	Service fa	actor	: 1.15	
Breakdown torqu	e :2	00 %	Temperat	Temperature rise		
Rated speed	: 2	: 2930 rpm		Design		
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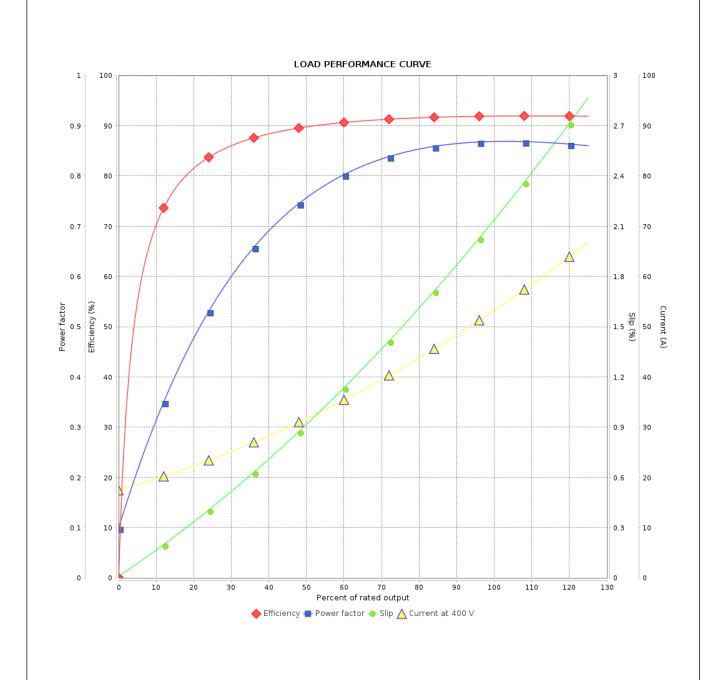
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Efficiency Three-Phase



Performance	: 4	00 V 50 Hz 2P IE2				
Rated current : 54.1 A LRC : 5.9		Duty cycle	Moment of inertia (J) Duty cycle		2	
Rated torque Locked rotor torq Breakdown torqu	ue : 2	: 9.89 kgfm Insulation class : 210 % Service factor : 200 % Temperature rise		: F : 1.15 : 80 K		
•		935 rpm	Design	are rise	: B	
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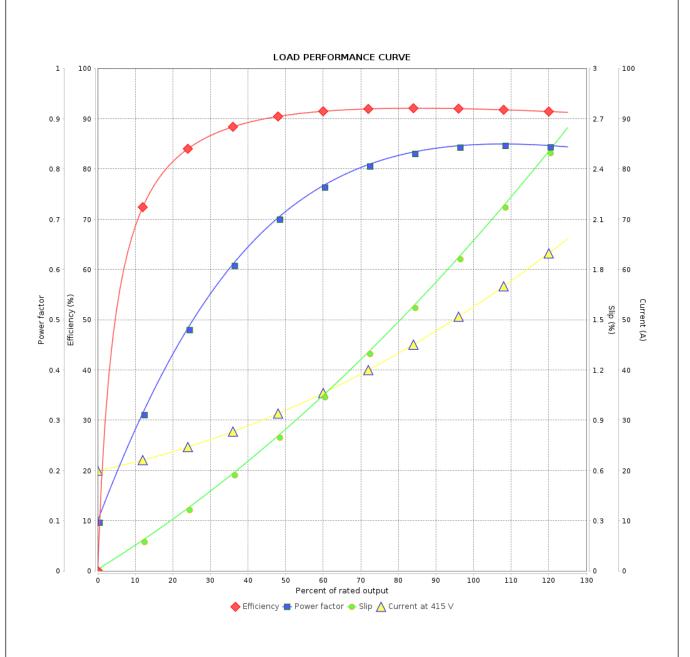
Three Phase Induction Motor - Squirrel Cage



Customer

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Efficiency Three-Phase



Performance	: 4	: 415 V 50 Hz 2P IE2				
Rated current : 53.4		53.4 A	Moment of	Moment of inertia (J)		2
LRC : 6		6.4	Duty cycle	Duty cycle		
Rated torque : 9		9.87 kgfm	Insulation	Insulation class		
Locked rotor tord	Locked rotor torque : 2		Service fa	actor	: 1.15	
Breakdown torque		200 %	Temperat	Temperature rise		
Rated speed	: 2	2940 rpm	Design	Design		
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