DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 13485038

Frame : 447/9TSD Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

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 : 939 kg

Protection degree : IP23 Moment of inertia (J) : 1.65 kgm²

Design : B 400 400 400 400 Output [HP] Poles 2 2 2 2 50 50 50 Frequency [Hz] 60 Rated voltage [V] 460 380 400 415 Rated current [A] 443 536 512 499 L. R. Amperes [A] 2658 2841 3021 3194 5.9x(Code F) 6.4x(Code G) LRC [A] 6.0x(Code F) 5.3x(Code E) No load current [A] 100 95.0 108 118 Rated speed [RPM] 3565 2955 2960 2965 Slip [%] 1.33 0.97 1.50 1.17 Rated torque [kgfm] 81.4 98.1 97.9 98.2 Locked rotor torque [%] 140 150 120 130 Breakdown torque [%] 229 200 220 190 Service factor 1.15 1.15 1.15 1.15 Temperature rise 80 K 105 K 105 K 80 K Locked rotor time 25s (cold) 14s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) Noise level² 85.0 dB(A) 25% 50% 95.0 95.0 95.0 95.0 Efficiency (%) 75% 95.4 95.0 95.0 95.0 95.4 95.0 100% 94.5 95.0 25% 0.83 0.85 0.83 0.82 50% Power Factor 75% 0.88 0.89 0.88 0.87

0.90

Drive end Non drive end Foundation loads

0.89

Bearing type : 6314 C3 6314 C3 | Max. traction : 1414 kgf Sealing : Without Without | Max. compression : 2354 kgf

Sealing : Without Without Max. compression : 2

Bearing Seal Bearing Seal

Lubrication interval : 14418 h
Lubricant amount : 27 g 27 g
Lubricant type : Mobil Polyrex EM

100%

Notes

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.

0.89

0.88

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Customer	
Customer	

Thermal protection

		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

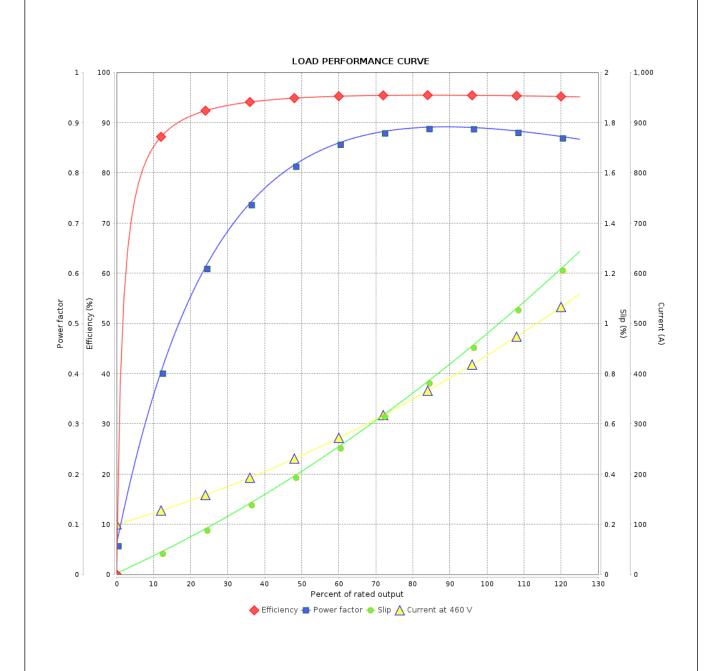
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 13485038



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Rated speed	: 3565 rpm	Design	: B	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Locked rotor torque	: 150 %	Service factor	: 1.15	
Rated torque	: 81.4 kgfm	Insulation class	: F	
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated current	: 443 A	Moment of inertia (J)	: 1.65 kgm²	
Performance	: 460 V 60 Hz 2P			
				

Raied speed	: 33	ooo rpm	Design		: В	
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Three Phase Induction Motor - Squirrel Cage



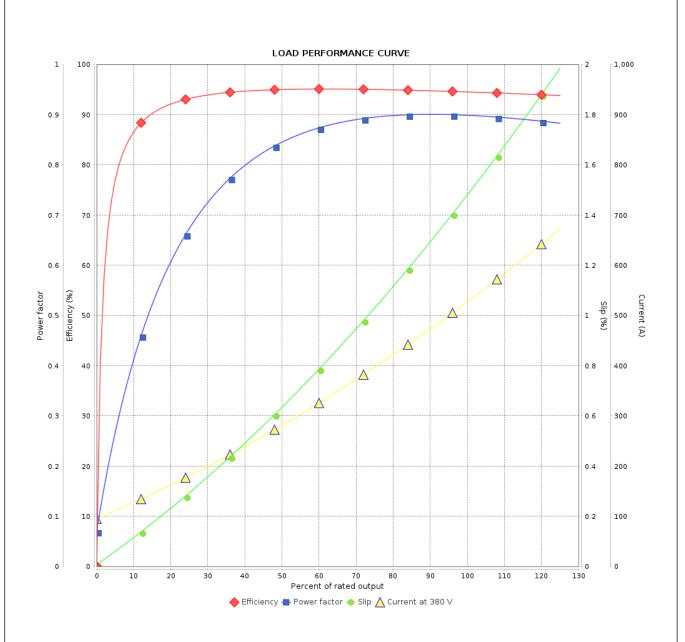
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Date

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Product line : W40 High Efficiency Three-Phase Product code : 13485038



Performance		: 380 V 50 Hz 2P IE1	1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 536 A : 5.3 : 98.2 kgfm : 120 % : 190 % : 2955 rpm	Moment Duty cycl Insulation Service f. Tempera Design	n class actor	: 1.65 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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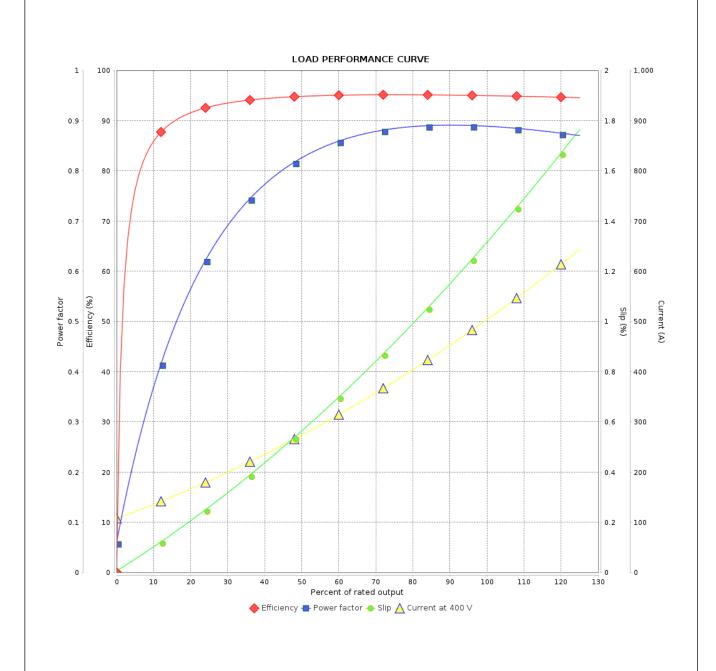
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 13485038



Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 512 A : 5.9 : 98.1 kgfm : 130 % : 200 % : 2960 rpm	Moment of Duty cycl Insulation Service fa Temperat Design	ı class actor	: 1.65 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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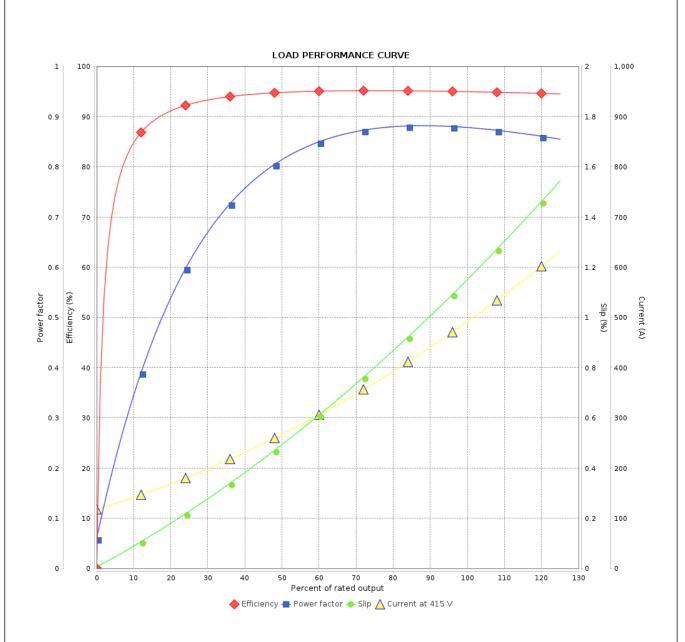
Rated speed	: 29	960 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 13485038



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 499 A : 6.4 : 97.9 kgfm : 140 % : 220 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.65 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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