DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 14337972

Premium Efficiency Three-Phase

Frame : 213/5TC 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 Approx. weight³ Altitude : 1000 m.a.s.l. : 94.6 kg

Protection degree : IP55 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] 230/460 380 400 415 Rated current [A] 8.82/4.41 5.28 5.15 5.11 L. R. Amperes [A] 61.7/30.9 31.7 33.5 35.8 LRC [A] 7.0x(Code K) 6.0x(Code H) 6.5x(Code J) 7.0x(Code K) 2.40 No load current [A] 5.20/2.60 2.75 2.90 Rated speed [RPM] 1180 970 975 980 Slip [%] 1.67 3.00 2.50 2.00 Rated torque [kgfm] 1.85 2.24 2.23 2.23 Locked rotor torque [%] 180 140 180 210 Breakdown torque [%] 290 229 250 270 Service factor 1.00 1.00 1.00 1.15 80 K Temperature rise 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 84.0 84.0 84.0 Efficiency (%) 75% 88.5 84.0 84.0 84.0 100% 89.5 84.4 84.4 84.4 25% 50% 0.50 0.57 0.53 0.50 Power Factor 75% 0.62 0.70 0.66 0.64

0.75

0.70 Foundation loads Drive end Non drive end

6308 2RS 6207 2RS Bearing type Max. traction : 63 kgf Sealing Oil Seal Lip Seal Max. compression : 158 kgf

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 9.75A SF 1.15 SFA 11.2A

100%

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.

0.73

0.71

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Customer	
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Thermal protection

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

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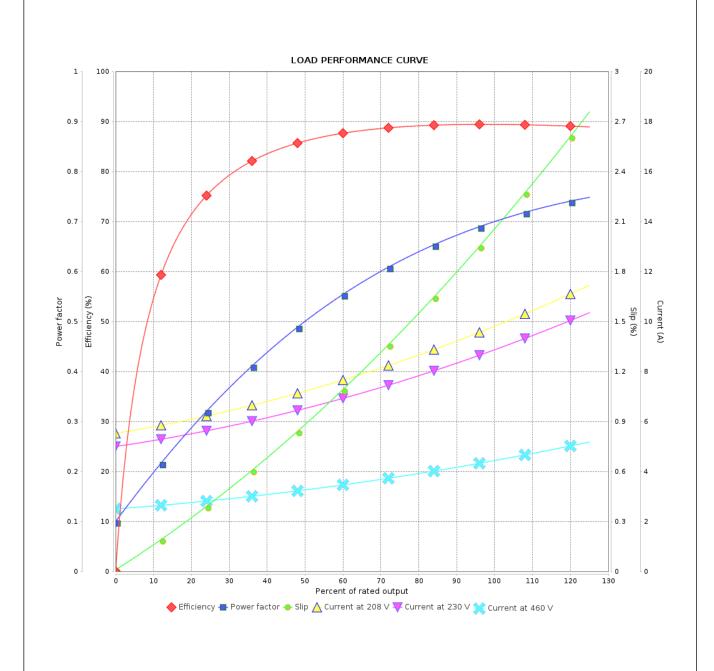


Customer :

Product line : W21 Explosion Proof NEMA

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Performance	: 230/460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 8.82/4.41 A : 7.0 : 1.85 kgfm : 180 % : 290 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0504 kgm² : Cont.(S1) : F : 1.15 : 80 K	
Rated speed	Rated speed : 1180 rpm		Design			
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Three Phase Induction Motor - Squirrel Cage



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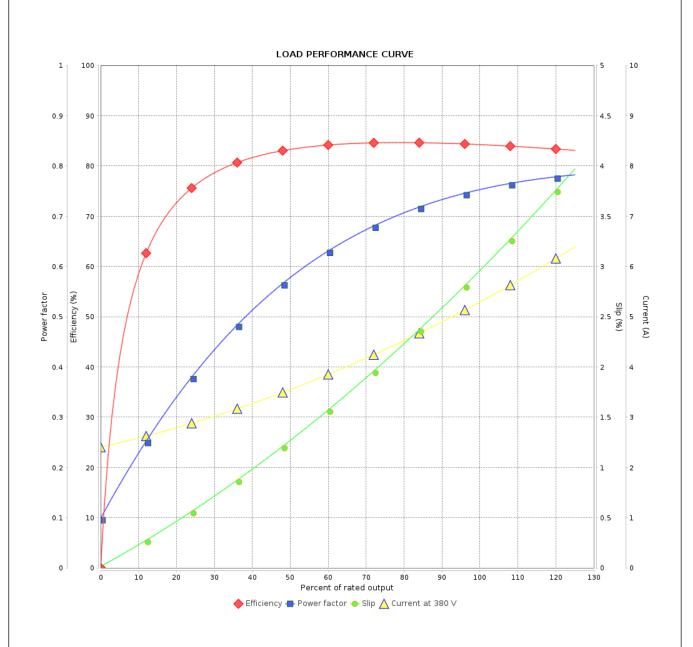
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14337972



Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC		: 5.28 A : 6.0	Moment of inertia (J) Duty cycle		: 0.0504 kgm² : Cont.(S1)	
Rated torque Locked rotor torque		: 2.24 kgfm : 140 %	Insulation class Service factor		: F : 1.00	
Breakdown torque Rated speed		: 229 % : 970 rpm	Temperature rise Design		: 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

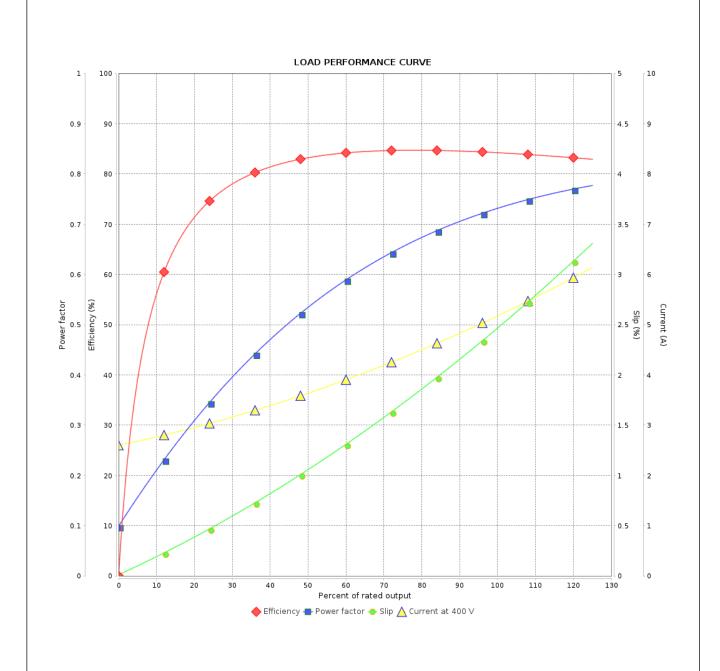


Customer :

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Premium Efficiency Three-Phase

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Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 5.15 A	Moment of	Moment of inertia (J)		2
LRC		: 6.5	Duty cycle	Duty cycle		
Rated torque		: 2.23 kgfm	Insulation	Insulation class		
Locked rotor tord	que	: 180 %	Service fa	Service factor		
Breakdown torqu	ıe	: 250 %	Temperat	Temperature rise		
Rated speed		: 975 rpm	Design	Design		
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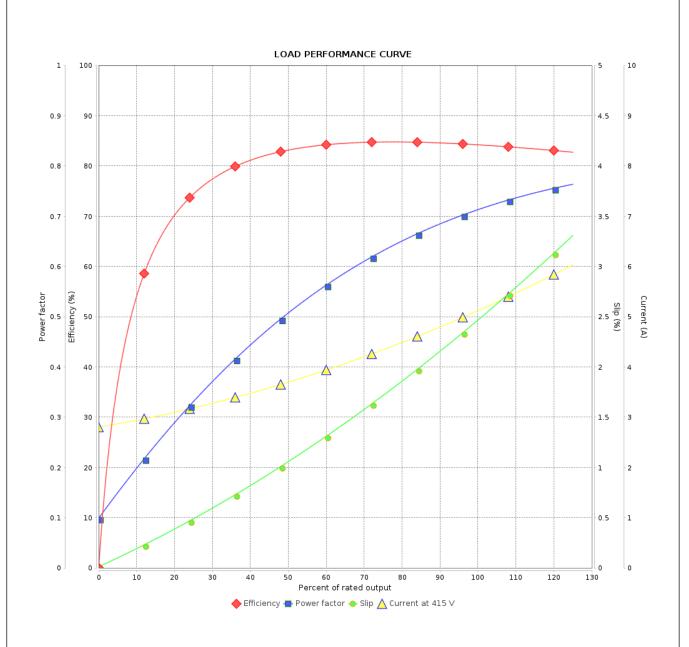


Customer :

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Premium Efficiency Three-Phase

Product code: 14337972



Performance		: 415 V 50 Hz 6F	P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 5.11 A : 7.0 : 2.23 kgfm : 210 % : 270 %	Ir S	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0504 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed		: 980 rpm	[Design		: B	
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