DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Product code : 11808167

Premium Efficiency Three-Phase

Frame : 504/5T Cooling method : IC411 - TEFC

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 : 1082 kg

Protection degree : IP55 Moment of inertia (J) : 3.21 kgm²

Design : A Output [HP] 200 150 150 150 Poles 4 4 4 4 50 50 Frequency [Hz] 60 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 460/230 208 202 197 L. R. Amperes [A] 3128/1564 1518 1535 1576 LRC [A] 6.8x(Code G) 7.3x(Code H) 7.6x(Code H) 8.0x(Code J) No load current [A] 148/74.0 73.0 77.0 81.0 Rated speed [RPM] 1782 1485 1487 1488 Slip [%] 1.00 1.00 0.87 0.80 Rated torque [kgfm] 81.5 73.3 73.2 73.2 Locked rotor torque [%] 210 220 250 280 Breakdown torque [%] 229 250 280 310 Service factor 1.15 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 70s (cold) 39s (hot) Locked rotor time 52s (cold) 29s (hot) 66s (cold) 37s (hot) 63s (cold) 35s (hot) Noise level² 82.0 dB(A) 82.0 dB(A) 82.0 dB(A) 82.0 dB(A) 25% 50% 95.8 95.4 95.4 95.4 Efficiency (%) 75% 96.2 95.4 95.8 95.8 100% 96.2 95.8 95.8 95.8 25% 50% 0.72 0.70 0.65 0.61 Power Factor 75% 0.80 0.78 0.75 0.73 100% 0.85 0.84 0.82 0.81

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : NU-319 C3 6316 C3 Max. traction : 1244 kgf
Sealing : Viton Viton Seal Max. compression : 2326 kgf

Oil Seal

Lubrication interval:4706 h8569 hLubricant amount:45 g34 gLubricant type:Mobil Polyrex EM

Notes

USABLE @208V 509A SF 1.00 SFA 509A

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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Customer	
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Thermal protection

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

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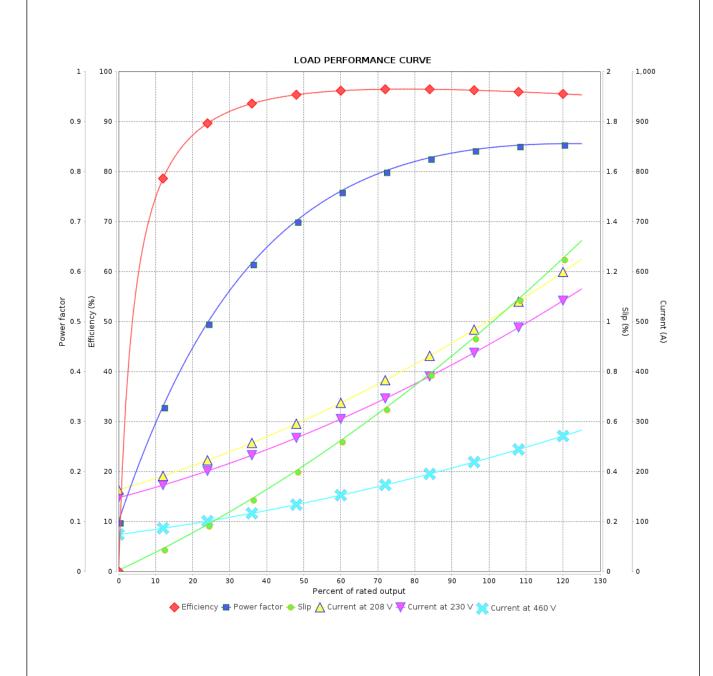


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 11808167



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 4	160/230 A	Moment of	Moment of inertia (J)		
LRC	: 6	3.8	Duty cycle)	: 3.21 kgm² : Cont.(S1)	
Rated torque	: 8	31.5 kgfm	Insulation	Insulation class Service factor Temperature rise		
Locked rotor torq	ue : 2	210 %	Service fa			
Breakdown torqu	e : 2	229 %	Temperati			
Rated speed	: 1	1782 rpm	82 rpm Design		: A	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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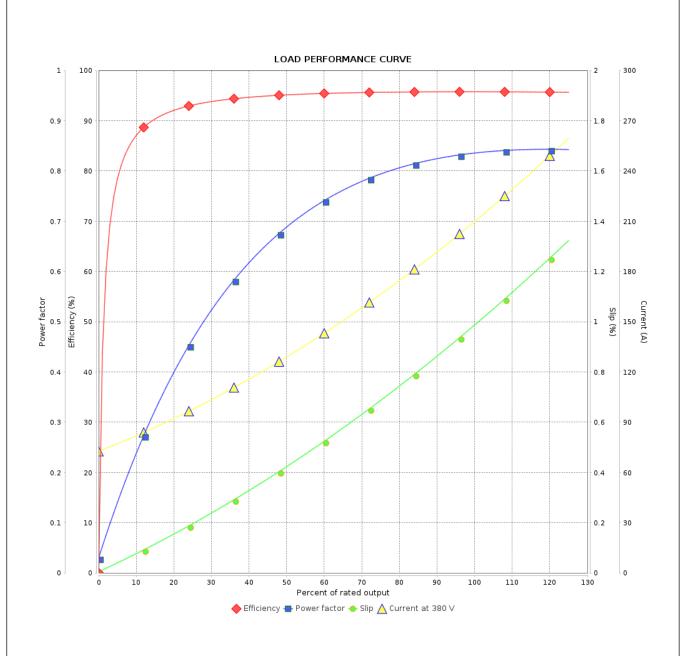
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 11808167



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.21 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
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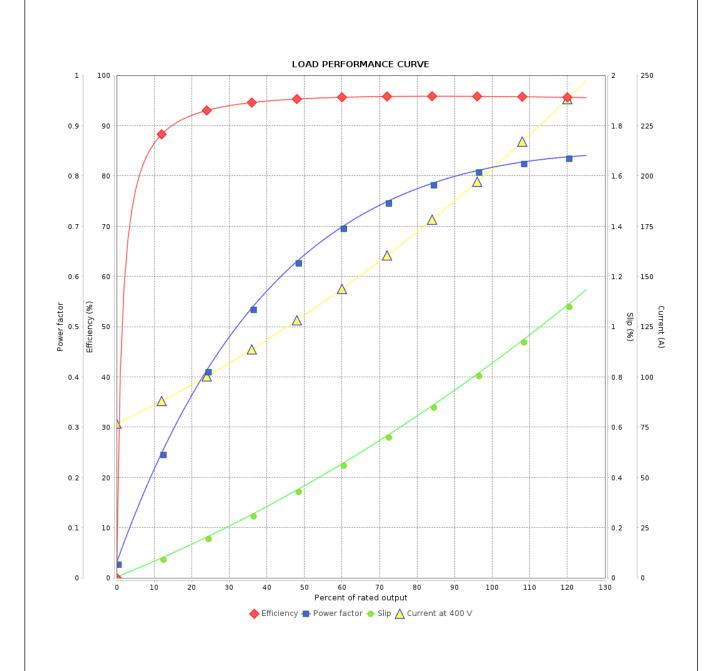


Customer :

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Premium Efficiency Three-Phase

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Performance : 400 V 50 Hz 4P IE3 : 202 A Rated current Moment of inertia (J) : 3.21 kgm² **LRC** : 7.6 Duty cycle : Cont.(S1) : 73.2 kgfm : F Rated torque Insulation class Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Datad speed

Rated speed	: 12	487 rpm	Design		: A	
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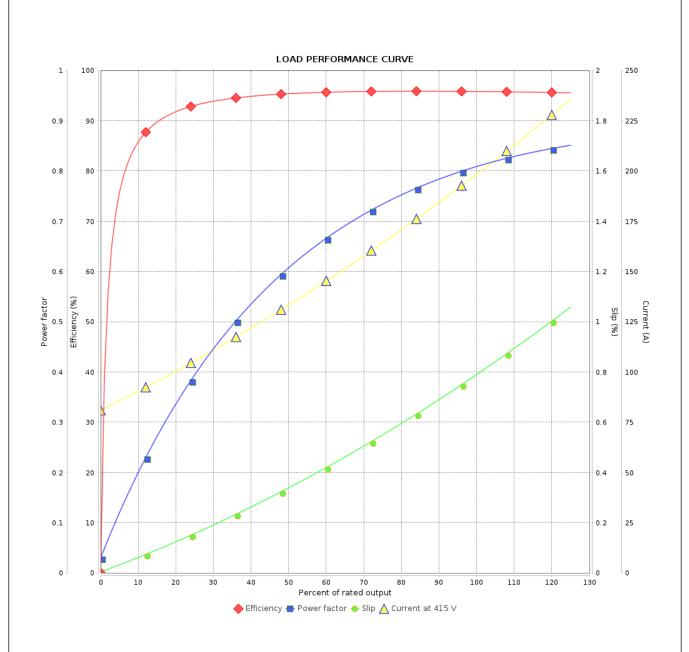
Date

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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 11808167



Performance		415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 7 uue : 2 e : 3	197 A 3.0 73.2 kgfm 280 % 310 % 1488 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.21 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
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