## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Premium

Product code: 14217588

Efficiency Three-Phase

Frame : 213/5TC Insulation class : F

Duty cycle : Cont.(S1)

Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l.

Protection degree : IP55 Cooling method : IC411 - TEFC

Mounting : F-1

Rotation<sup>1</sup> : Both (CW and CCW)

Starting method : Direct On Line Approx. weight<sup>3</sup> : 95.0 kg Moment of inertia (J) : 0.0198 kgm<sup>2</sup>

Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 2 2 2 2 60 50 50 Frequency [Hz] 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 17.3/8.67 10.4 10.0 9.61 L. R. Amperes [A] 125/62.4 64.5 68.0 71.1 LRC [A] 7.2x(Code H) 6.2x(Code G) 6.8x(Code G) 7.4x(Code H) No load current [A] 5.50/2.75 2.65 2.85 2.95 Rated speed [RPM] 3535 2910 2920 2925 Slip [%] 1.81 3.00 2.67 2.50 1.87 Rated torque [kgfm] 1.54 1.86 1.86 Locked rotor torque [%] 229 180 200 210 Breakdown torque [%] 300 229 260 290 Service factor 1.00 1.00 1.00 1.15 80 K Temperature rise 80 K 80 K 80 K Locked rotor time 41s (cold) 23s (hot) 46s (cold) 26s (hot) 46s (cold) 26s (hot) 46s (cold) 26s (hot) Noise level<sup>2</sup> 72.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 50% 85.5 86.5 86.5 86.5 Efficiency (%) 75% 88.5 87.5 88.5 88.5 100% 89.5 89.0 89.2 89.5 25% 50% 0.78 0.83 0.80 0.79 Power Factor 75% 0.86 0.88 0.87 0.86 100% 0.89 0.90 0.89 0.89

> Drive end 6308 2RS

Non drive end

6207 2RS

Foundation loads

Sealing Lubrication interval

Lubricant amount

Lubricant type

Bearing type

Oil Seal Lip Seal

Mobil Polyrex EM

Max. traction : 52 kgf Max. compression : 147 kgf

Notes

USABLE @208V 19.8A SF 1.15 SFA 22.8A

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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# DATA SHEET

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Customer	

#### Thermal protection

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

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## Three Phase Induction Motor - Squirrel Cage

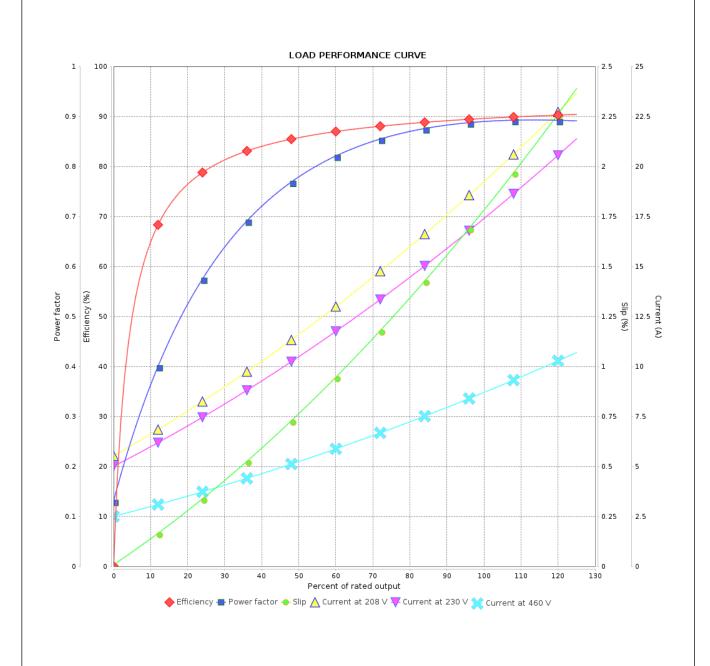


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Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7 : 1 jue : 2 ie : 3	7.3/8.67 A .2 .54 kgfm 29 % 00 % 535 rpm	Moment of Duty cycle Insulation Service fa Temperation	class actor	: 0.0198 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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## Three Phase Induction Motor - Squirrel Cage

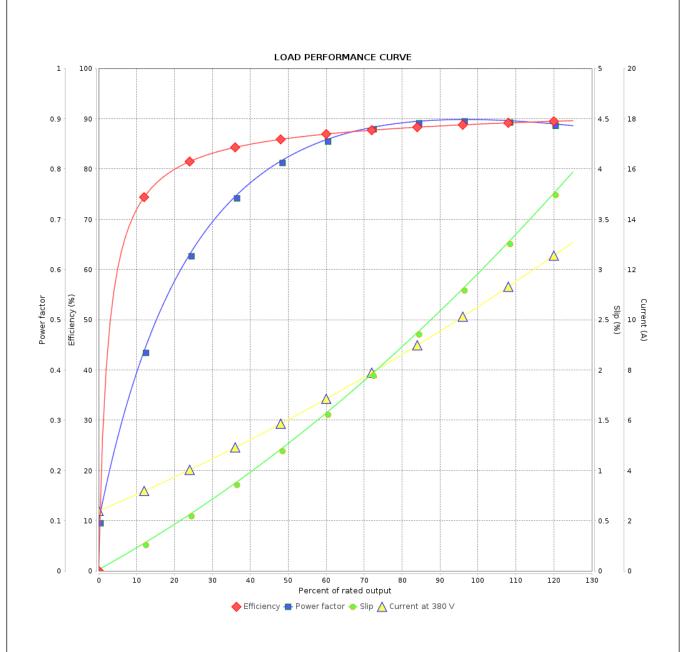


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14217588



				·	
Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 6.2 : 1.87 kgfm : 180 % : 229 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0198 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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## Three Phase Induction Motor - Squirrel Cage

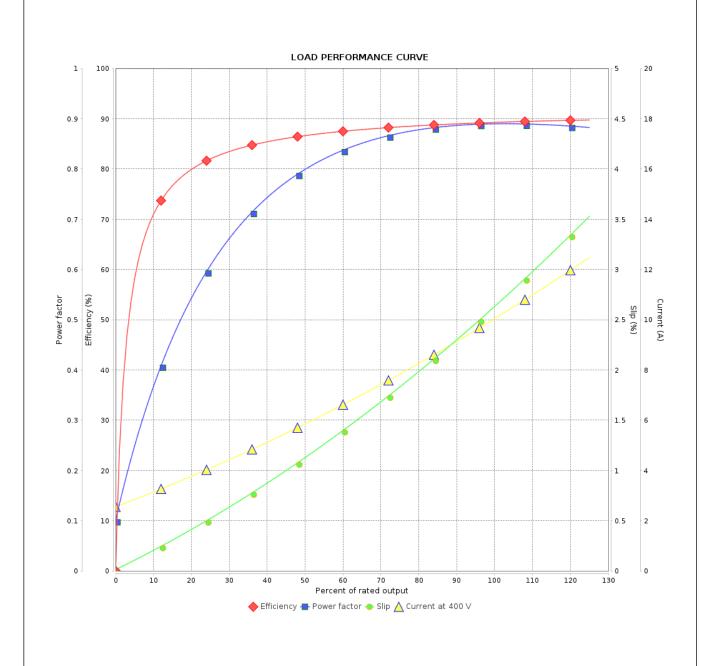


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14217588



Performance	: 4	00 V 50 Hz 2P IE3				
Rated current	: 1	0.0 A	Moment o	Moment of inertia (J)		2
LRC	: 6	.8	Duty cycle	Duty cycle		
Rated torque	: 1	.86 kgfm	Insulation	Insulation class Service factor Temperature rise		
Locked rotor torqu	ie : 2	00 %	Service fa			
Breakdown torque	: 2	60 %	Temperati			
Rated speed	ated speed : 29		20 rpm Design		: B	
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## Three Phase Induction Motor - Squirrel Cage

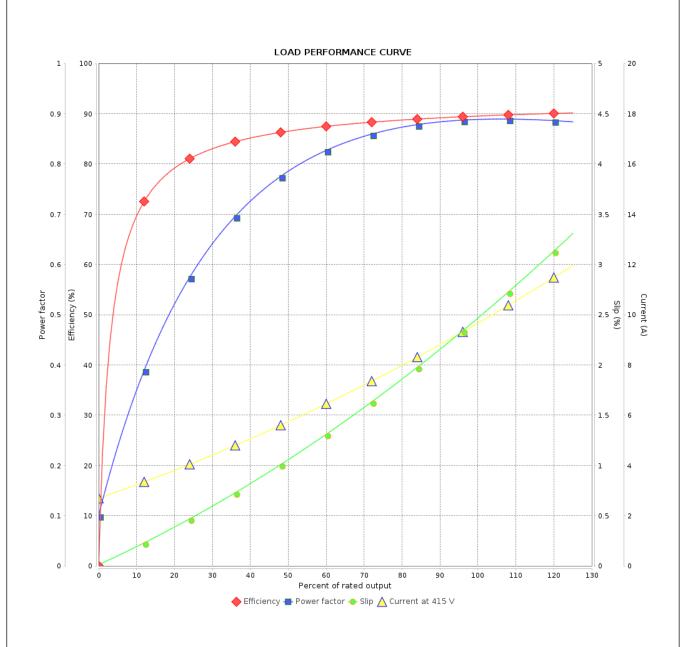


Customer :

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Efficiency Three-Phase

Product code: 14217588



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.61 A : 7.4 : 1.86 kgfm : 210 % : 290 % : 2925 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r Design	ss	: 0.0198 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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