DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Premium

Product code: 14319266

Efficiency Three-Phase

: 143/5T Frame 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

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line Approx. weight³ : 33.3 kg Moment of inertia (J) : 0.0055 kgm²

Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 4 4 4 4 60 50 Frequency [Hz] 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 4.10/2.05 2.40 2.33 2.27 L. R. Amperes [A] 36.5/18.2 15.8 16.8 17.5 LRC [A] 8.9x(Code L) 6.6x(Code H) 7.2x(Code J) 7.7x(Code K) No load current [A] 2.40/1.20 1.20 1.30 1.40 Rated speed [RPM] 1755 1440 1445 1450 Slip [%] 2.50 4.00 3.67 3.33 Rated torque [kgfm] 0.620 0.756 0.753 0.751 Locked rotor torque [%] 270 200 229 250 Breakdown torque [%] 350 260 290 320 Service factor 1.00 1.00 1.00 1.15 80 K Temperature rise 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) Noise level² 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 80.2 83.7 83.7 80.9 50% 81.5 84.0 84.0 82.5 Efficiency (%) 75% 85.5 84.0 84.0 84.0 100% 86.5 84.0 84.0 85.5 25% 0.39 0.35 0.33 0.34 50% 0.58 0.66 0.62 0.58 Power Factor 75% 0.70 0.77 0.74 0.71 100% 0.83 0.81 0.79 0.78

> Drive end 6205 2RS

Non drive end

6204 2RS Lip Seal

Foundation loads

Max. traction : 52 kgf Max. compression : 85 kgf

Sealing Oil Seal Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

Bearing type

USABLE @208V 4.53A SF 1.15 SFA 5.21A

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	

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

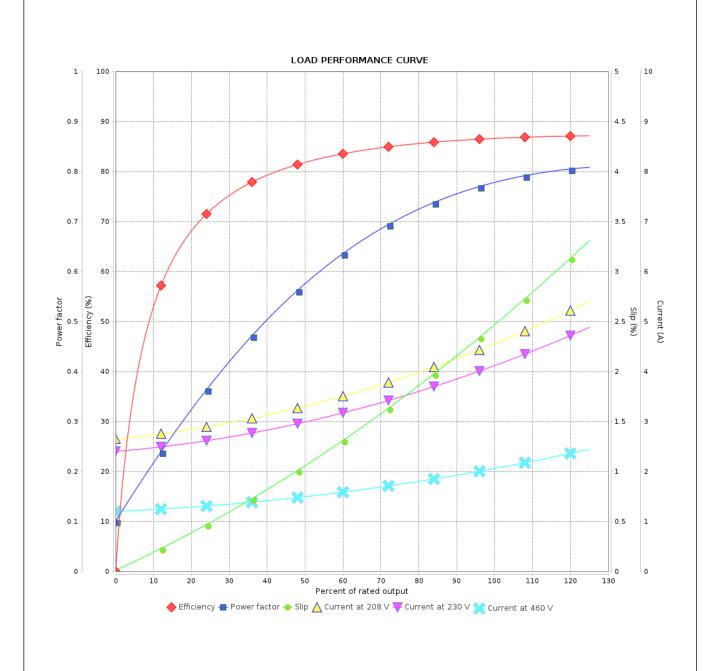


Customer :

Product line : W21 Explosion Proof NEMA Premium

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Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 8 : 0 ue : 2	.10/2.05 A .9 .620 kgfm 70 % 50 %	Duty cycle Insulation Service fa	Moment of inertia (J) : 0.0055 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K		2
Rated speed	: 1755 rpm		Design	Design		
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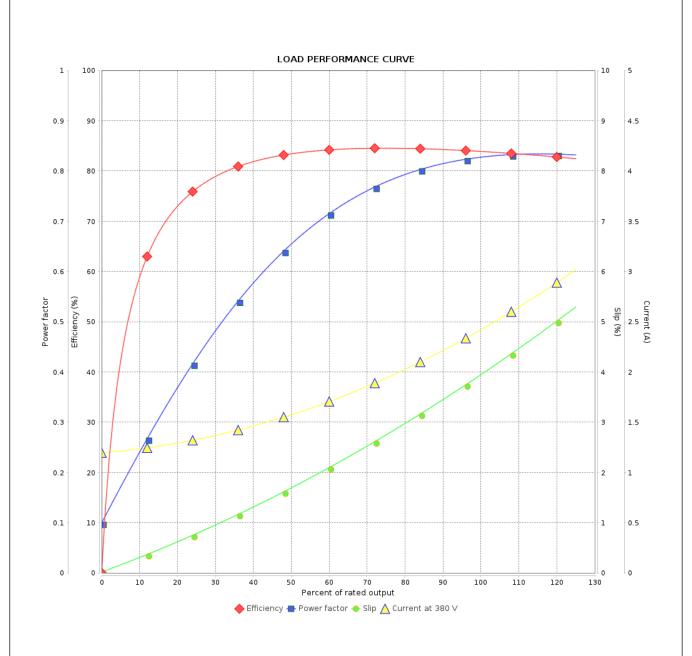


Customer :

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Efficiency Three-Phase

Product code: 14319266



Performance	: 380 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.40 A : 6.6 : 0.756 kgfm : 200 % : 260 % : 1440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	Outy cycle : Cont.(S1) nsulation class : F Service factor : 1.00 emperature rise : 80 K	
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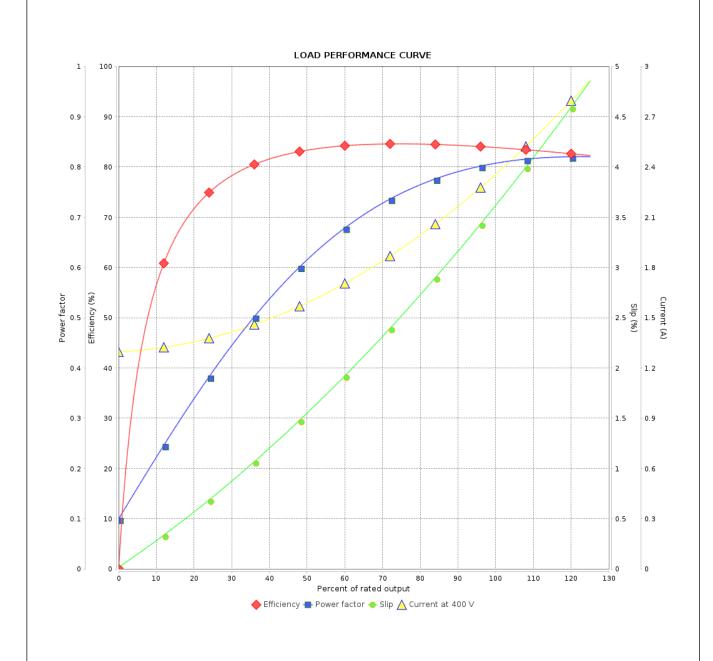


Customer :

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Efficiency Three-Phase

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Performance	: 40	00 V 50 Hz 4P IE2				
Rated current	: 2	.33 A	Moment of inertia (J)		: 0.0055 kgm²	
LRC	: 7.	2 Duty cycle 753 kgfm Insulation class		: Cont.(S1) : F		
Rated torque	: 0.					
Locked rotor torqu	ue : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 29	90 %	Temperature rise		: 80 K	
Rated speed	: 14	: 1445 rpm Design			: B	
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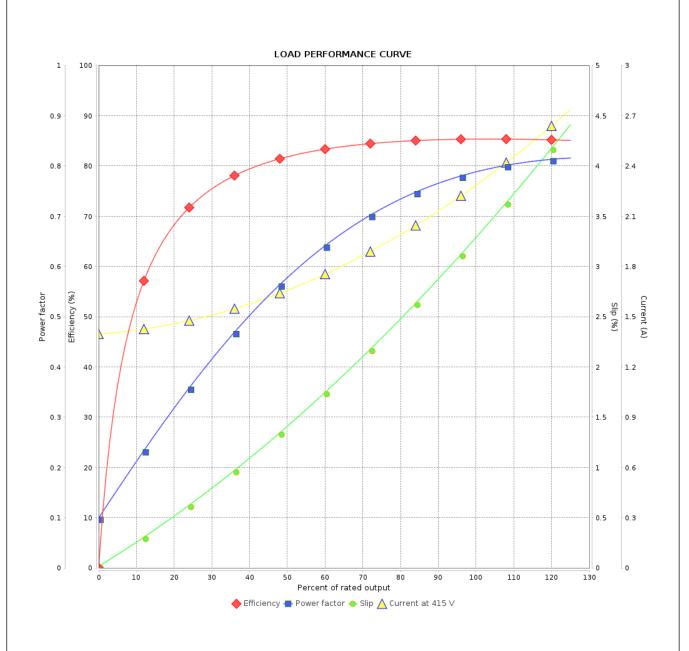


Customer :

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Efficiency Three-Phase

Product code: 14319266



Performance	: 415 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Duty cycle Insulation Service fa	Moment of inertia (J) : 0.009 Duty cycle : Cont Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		•	
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