DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 14192751

Premium Efficiency Three-Phase

: 182/4T Cooling method : IC411 - TEFC Frame

Insulation class Mounting : F : F-1

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. : 56.9 kg

: IP55 Moment of inertia (J)

Protection degree : 0.0062 kgm² Design : B Output [HP] 3 3 3 3 Poles 2 2 2 2 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 7.52/3.76 4.44 4.27 4.16 L. R. Amperes [A] 63.2/31.6 29.7 31.6 33.3 LRC [A] 8.4x(Code K) 6.7x(Code H) 7.4x(Code J) 8.0x(Code J) No load current [A] 2.80/1.40 1.30 1.40 1.48 Rated speed [RPM] 3510 2880 2890 2900 Slip [%] 2.50 4.00 3.67 3.33 Rated torque [kgfm] 0.620 0.756 0.753 0.751 Locked rotor torque [%] 250 210 240 260 Breakdown torque [%] 400 300 340 370 Service factor 1.00 1.00 1.00 1.15 80 K 80 K 80 K 80 K Temperature rise Locked rotor time 54s (cold) 30s (hot) 77s (cold) 43s (hot) 77s (cold) 43s (hot) 77s (cold) 43s (hot) Noise level² 69.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 25% 81.3 82.0 81.2 81.3 50% 82.5 82.5 82.5 82.5 Efficiency (%) 75% 85.5 85.5 85.5 85.5 100% 86.5 85.5 86.5 86.5 25% 0.48 0.55 0.51 0.48 50% 0.73 0.78 0.75 0.72 Power Factor 75% 0.81 0.85 0.83 0.81

0.88

0.85 Drive end Non drive end Foundation loads

6307 2RS 6206 2RS Bearing type Max. traction : 30 kgf Sealing Oil Seal Lip Seal Max. compression : 86 kgf

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 8.32A SF 1.15 SFA 9.56A

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.

0.86

0.85

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Customer	
Customer	

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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Three Phase Induction Motor - Squirrel Cage

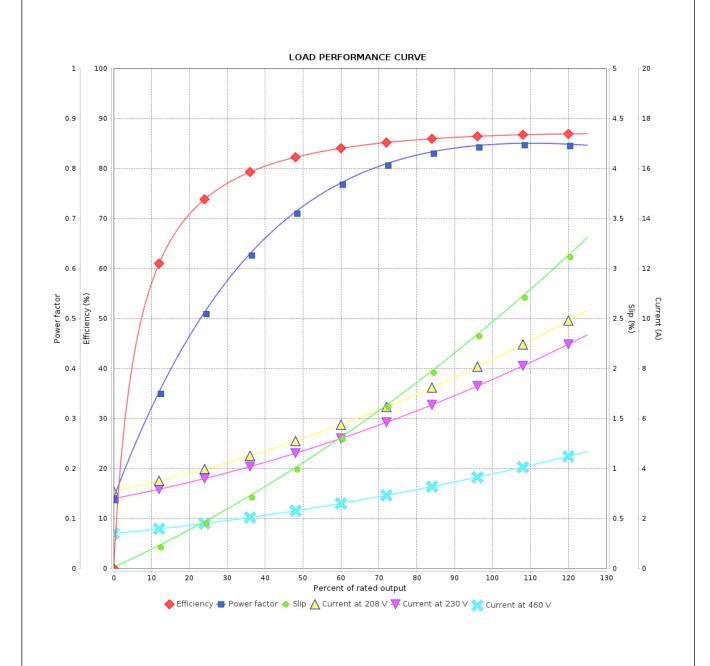


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		: 8.4 Duty cycle : 0.620 kgfm Insulation class : 250 % Service factor : 400 % Temperature rise		: 0.0062 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2
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Three Phase Induction Motor - Squirrel Cage



Customer :

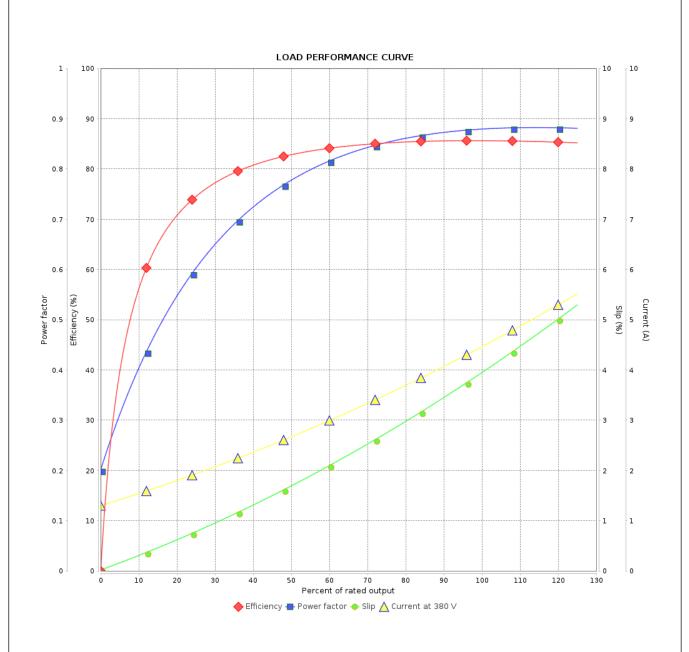
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance : 380 V 50 Hz 2P IE2 : 0.0062 kgm² Rated current : 4.44 A Moment of inertia (J) **LRC** : 6.7 Duty cycle : Cont.(S1) : 0.756 kgfm Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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Three Phase Induction Motor - Squirrel Cage



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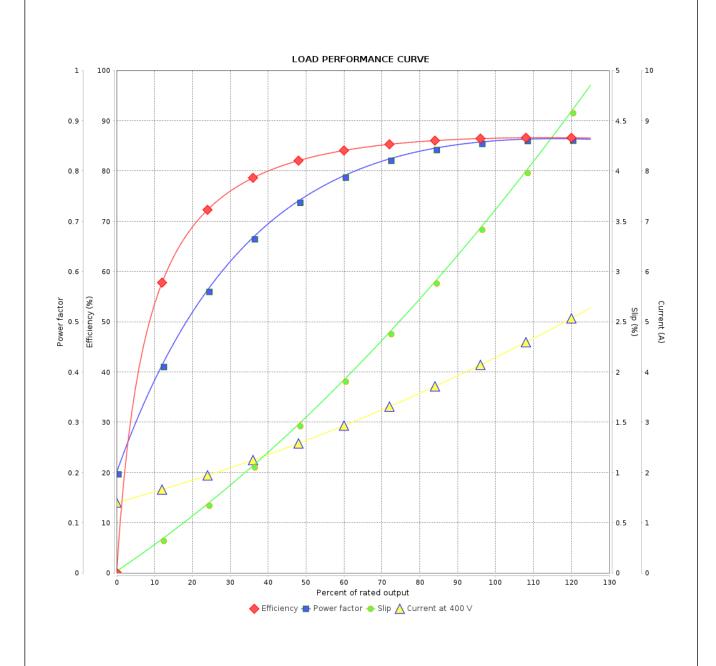
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Product line : W21 Explosion Proof NEMA

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.27 A : 7.4 : 0.753 kgfm : 240 % : 340 % : 2890 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0062 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	
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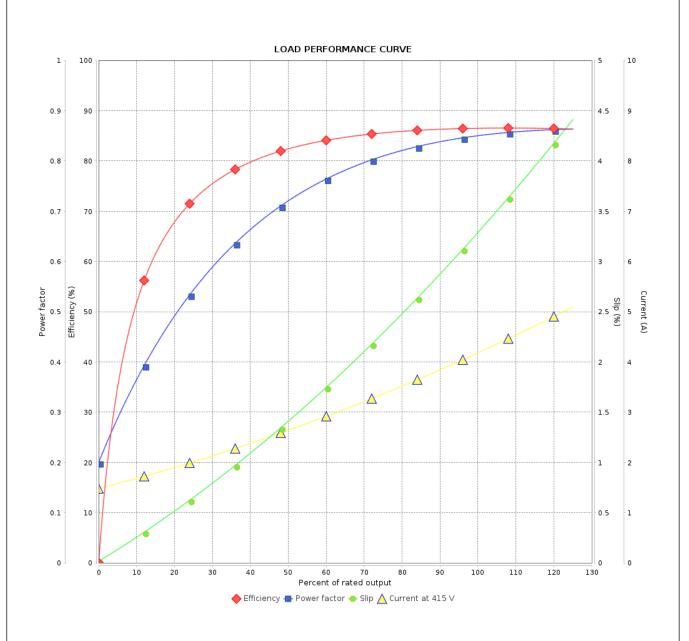
Date

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Premium Efficiency Three-Phase

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Performance : 415 V 50 Hz 2P IE3 : 0.0062 kgm² Rated current : 4.16 A Moment of inertia (J) **LRC** : 8.0 Duty cycle : Cont.(S1) : 0.751 kgfm Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

