## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Flameproof Motor NEMA

Premium Efficiency Three-Phase

Product code: 12408375

Catalog # : 10036XT3G405TS

Frame : 404/5TS

Insulation class : F

Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C

Altitude : 1000 m.a.s.l.
Protection degree : IP55
Design : B

Cooling method : IC411 - TEFC

Mounting : F-1

Rotation : Both (CW and CCW)

Starting method : Direct On Line Approx. weight<sup>3</sup> : 1190 lb Moment of inertia (J) : 13.2 sq.ft.lb

Output [HP] 100 75 75 75 2 Poles 2 2 2 50 50 50 Frequency [Hz] 60 Rated voltage [V] 415 460 380 400 Rated current [A] 110 98.3 94.4 91.0 L. R. Amperes [A] 715 649 699 728 6.5x(Code G) 6.6x(Code G) 8.0x(Code H) LRC [A] 7.4x(Code H) No load current [A] 25.0 26.0 27.0 28.0 Rated speed [RPM] 3550 2955 2960 2965 Slip [%] 1.39 1.50 1.33 1.17 Rated torque [ft.lb] 146 131 131 131 Locked rotor torque [%] 200 200 220 240 Breakdown torque [%] 260 280 310 330 Service factor 1.15 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K

Locked rotor time 37s (cold) 21s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Noise level<sup>2</sup> 85.0 dB(A) 82.0 dB(A) 82.0 dB(A) 82.0 dB(A) 25% 93.4 93.0 93.4 93.4 50% 93.6 93.6 93.6 93.6 Efficiency (%) 75% 94.5 95.0 94.0 94.5 100% 95.0 94.5 94.5 94.5 0.62 25% 0.59 0.57 0.55 50% 0.85 0.84 0.82 0.80 Power Factor 75% 0.89 0.88 0.87 0.87 0.89 100% 0.90 0.90 0.89

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

Bearing type : 6314 C3 6314 C3
Sealing : Oil Seal Lip Seal
Lubrication interval : 3604 h 3604 h
Lubricant amount : 27 g 27 g
Lubricant type : Mobil Polyrex EM

Max. traction : 719 lb Max. compression : 1909 lb

Notes

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

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

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