

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Flameproof Motor NEMA Premium Efficiency Three-Phase  
Product code : 11359919  
Catalog # : 00312XT3H213T

Frame	: 213T	Locked rotor time	: 104s (cold) 58s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.53 A	Protection degree	: IP55
L. R. Amperes	: 24.7 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code K)	Mounting	: F-1
No load current	: 2.08 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1175 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 13.2 ft.lb	Approx. weight <sup>3</sup>	: 178 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.20 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	85.4	86.5	88.5	89.5	Max. traction	: 100 lb
Power Factor	0.29	0.50	0.62	0.70	Max. compression	: 278 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 2RS	6207 2RS
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

### 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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### Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C
2	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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