

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase  
Product code : 14406980  
Catalog # : 00712XT3E254T

Frame	: 254T	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 19.5/9.73 A	Protection degree	: IP55
L. R. Amperes	: 136/68.1 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code J)	Mounting	: F-1
No load current	: 10.4/5.20 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1175 rpm	Noise level <sup>2</sup>	: 59.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 33.5 ft.lb	Approx. weight <sup>3</sup>	: 325 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.32 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	88.5	90.2	91.0	Max. traction	: 386 lb
Power Factor	0.58	0.71	0.78	Max. compression	: 710 lb

	Drive end	Non drive end
Bearing type	: 6309 C3	6209 C3
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 13 g	9 g
Lubricant type	Mobil Polyrex EM	

Notes  
USABLE @208V 21.5A SF 1.15 SFA 24.7A

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

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