

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14406886		
		Catalog # : 02036XT3E256T		
Frame	: 256T	Locked rotor time	: 46s (cold) 26s (hot)	
Output	: 20 HP (15 kW)	Temperature rise	: 80 K	
Poles	: 2	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	: 46.4/23.2 A	Protection degree	: IP55	
L. R. Amperes	: 288/144 A	Cooling method	: IC411 - TEFC	
LRC	: 6.2x(Code G)	Mounting	: F-1	
No load current	: 13.4/6.70 A	Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 3530 rpm	Noise level <sup>2</sup>	: 75.0 dB(A)	
Slip	: 1.94 %	Starting method	: Direct On Line	
Rated torque	: 29.8 ft.lb	Approx. weight <sup>3</sup>	: 363 lb	
Locked rotor torque	: 200 %			
Breakdown torque	: 250 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 1.45 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	90.0	89.9	90.2	90.2
	91.0	91.0	91.0	91.0
	89.9	89.9	90.2	90.2
	91.0	91.0	91.0	91.0
Power Factor	0.55	0.61	0.79	0.83
	0.86	0.88	0.89	0.90
	0.58	0.55	0.81	0.79
	0.87	0.86	0.90	0.89
Foundation loads		Max. traction : 217 lb		
		Max. compression : 576 lb		
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	:	6309 C3	6209 C3	
Sealing	:	Oil Seal	Lip Seal	
Lubrication interval	:	15797 h	18447 h	
Lubricant amount	:	13 g	9 g	
Lubricant type	:	Mobil Polyrex EM		
Notes:				
This revision replaces and cancel the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
(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.				
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### Thermal protection

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

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