

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium  
Efficiency Three-Phase

Product code : 14406916

Catalog # : 02518XT3E284TC

Frame	: 284TC	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 25 HP (18.5 kW)	Temperature rise	: 105 K
Poles	: 4	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	: 59.0/29.5 A	Protection degree	: IP55
L. R. Amperes	: 366/183 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 22.0/11.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 74.2 ft.lb	Approx. weight <sup>3</sup>	: 451 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 4.54 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	91.7	92.9	92.4	92.4	93.0	91.7	93.6	91.0	Max. traction	: 791 lb
	92.8	92.2	92.4	92.4	92.4	92.4	91.7	92.4		
Power Factor	0.45	0.52	0.70	0.76	0.80	0.84	0.84	0.86	Max. compression	: 1241 lb
	0.48	0.45	0.73	0.70	0.82	0.80	0.85	0.84		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6311 C3	6211 C3
Sealing	:				Oil Seal	Lip Seal
Lubrication interval	:				20000 h	20000 h
Lubricant amount	:				18 g	11 g
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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Customer :

Thermal protection

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

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