

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14443172

Catalog # : 03036XT3E286TS

Frame	: 286TS	Locked rotor time	: 77s (cold) 43s (hot)
Output	: 30 HP (22 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	: 67.4/33.7 A	Protection degree	: IP55
L. R. Amperes	: 452/226 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 15.0/7.50 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3545 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 1.53 %	Starting method	: Direct On Line
Rated torque	: 44.4 ft.lb	Approx. weight ³	: 509 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.08 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	92.2	92.9	92.4	92.4	93.0	91.7	93.0	91.0	Max. traction	: 354 lb
	92.9	92.9	92.4	92.4	92.4	92.4	91.7	91.7		
Power Factor	0.58	0.65	0.78	0.82	0.86	0.88	0.88	0.89	Max. compression	: 861 lb
	0.60	0.58	0.80	0.78	0.87	0.86	0.89	0.88		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6311 C3	6211 C3
Sealing	:				Oil Seal	Lip Seal
Lubrication interval	:				11517 h	14226 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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