

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14407172

Catalog # : 03018XT3H286T

Frame : 286T
Output : 30 HP (22 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 28.1 A
L. R. Amperes : 171 A
LRC : 6.1x(Code G)
No load current : 9.84 A
Rated speed : 1770 rpm
Slip : 1.67 %
Rated torque : 89.0 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 5.16 sq.ft.lb
Design : B

Locked rotor time : 30s (cold) 17s (hot)
Temperature rise : 105 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 496 lb

Output	25%	50%	75%	100%
Efficiency (%)	92.3	93.0	93.0	93.6
Power Factor	0.46	0.70	0.80	0.84

Foundation loads
Max. traction : 684 lb
Max. compression : 1178 lb

	Drive end	Non drive end
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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 2 Revision		
Checked by				
Date	28/03/2024			

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Customer :

Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by					
Date	28/03/2024			2 / 2	