

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12448182

Catalog # : 04036ET3H324TSC-W22

Frame : 324/6TSC
 Output : 40 HP (30 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 37.0 A
 L. R. Amperes : 233 A
 LRC : 6.3x(Code G)
 No load current : 10.0 A
 Rated speed : 3555 rpm
 Slip : 1.25 %
 Rated torque : 59.1 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 240 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 4.90 sq.ft.lb
 Design : B

Locked rotor time : 39s (cold) 22s (hot)
 Temperature rise : 80 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 : 76.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 501 lb

Output 25% 50% 75% 100%

Efficiency (%) 0.000 91.7 92.4 92.4
 Power Factor 0.00 0.80 0.86 0.88

Foundation loads

Max. traction : 294 lb
 Max. compression : 794 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
7.4	4.7	3.8	4.6	2.2	1.7	0.8

	Drive end	Non drive end
Bearing type :	6312 C3	6212 C3
Sealing :	V'Ring	V'Ring
Lubrication interval :	12000 h	15000 h
Lubricant amount :	21 g	13 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 Revision 1 / 1		
Checked by				
Date	28/03/2024			