

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12448086

Catalog # : 04018ET3H324TC-W22

Frame : 324/6TC
Output : 40 HP (30 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 37.7 A
L. R. Amperes : 230 A
LRC : 6.1x(Code G)
No load current : 13.6 A
Rated speed : 1775 rpm
Slip : 1.39 %
Rated torque : 118 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 9.16 sq.ft.lb
Design : B

Locked rotor time : 36s (cold) 20s (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 : 66.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 576 lb

Output 25% 50% 75% 100%

Efficiency (%) 0.000 93.6 94.1 94.1
Power Factor 0.00 0.72 0.80 0.85

Foundation loads

Max. traction : 802 lb
Max. compression : 1378 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)
6.1	5.1	5.0	2.8	1.9	1.2	0.8

	Drive end	Non drive end
Bearing type	6312 C3	6212 C3
Sealing	V'Ring	V'Ring
Lubrication interval	20000 h	20000 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			