

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14497311

Catalog # : 05018OT3H326TC-W40

Frame : 324/6TC
Output : 50 HP (37 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 46.8 A
L. R. Amperes : 295 A
LRC : 6.3x(Code G)
No load current : 18.6 A
Rated speed : 1775 rpm
Slip : 1.39 %
Rated torque : 148 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 7.08 sq.ft.lb
Design : B

Locked rotor time : 19s (cold) 11s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP23
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 66.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 522 lb

Output	25%	50%	75%	100%
Efficiency (%)	94.0	94.1	94.5	94.5
Power Factor	0.44	0.70	0.80	0.84

Foundation loads
Max. traction
Max. compression

	Drive end	Non drive end
Bearing type	6312 Z C3	6211 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	21 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 / 1 Revision		
Checked by				
Date	29/03/2024			