

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase

Product code :

12559834

Catalog # :

05036OP3JFP324TS

Frame : 324TS
Output : 50 HP (37 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 380 V
Rated current : 70.7 A
L. R. Amperes : 438 A
LRC : 6.2x(Code G)
No load current : 18.2 A
Rated speed : 3560 rpm
Slip : 1.11 %
Rated torque : 73.8 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 220 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 3.30 sq.ft.lb
Design : B

Locked rotor time : 50s (cold) 28s (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 : 74.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 450 lb

Output	25%	50%	75%	100%
Efficiency (%)	90.8	91.0	92.4	92.4
Power Factor	0.54	0.75	0.83	0.86

Foundation loads
Max. traction : 397 lb
Max. compression : 848 lb

	Drive end	Non drive end
Bearing type	6312 Z C3	6212 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	19658 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 1 / 1		
Checked by				
Date	30/03/2024			
		Revision		