

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase

Product code :

12070191

Catalog # :

04018OP3EFP324TC

Frame : 324TC
Output : 40 HP (30 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 98.8/49.4 A
L. R. Amperes : 573/287 A
LRC : 5.8x(Code G)
No load current : 42.0/21.0 A
Rated speed : 1775 rpm
Slip : 1.39 %
Rated torque : 118 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 220 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 5.40 sq.ft.lb
Design : B

Locked rotor time : 43s (cold) 24s (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 : 64.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 463 lb

Output	25%	50%	75%	100%				
Efficiency (%)	92.2	90.6	92.4	90.2	93.0	91.0	93.0	90.2
	90.6	90.8	90.2	91.0	91.0	91.0	90.2	91.0
Power Factor	0.41	0.52	0.67	0.74	0.77	0.81	0.82	0.82
	0.48	0.44	0.70	0.67	0.79	0.77	0.81	0.80

Foundation loads
Max. traction : 979 lb
Max. compression : 1442 lb

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