

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase

Product code :

14282212

Catalog # :

10018OP3EFP404TC-W40

Frame : 404/5TC  
Output : 100 HP (75 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 232/116 A  
L. R. Amperes : 1438/719 A  
LRC : 6.2x(Code G)  
No load current : 77.0/38.5 A  
Rated speed : 1775 rpm  
Slip : 1.39 %  
Rated torque : 296 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 250 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 17.5 sq.ft.lb  
Design : B

Locked rotor time : 25s (cold) 14s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 922 lb

Output 25% 50% 75% 100%

Efficiency (%) 93.5 92.9 93.6 93.0 94.1 93.6 94.1 93.5  
Power Factor 0.50 0.48 0.76 0.74 0.84 0.82 0.86 0.86

Foundation loads

Max. traction : 1613 lb  
Max. compression : 2536 lb

	Drive end	Non drive end
Bearing type :	6316 C3	6212 Z C3
Sealing :	Without Bearing Seal	Without Bearing Seal
Lubrication interval :	20000 h	20000 h
Lubricant amount :	34 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	26/03/2024			