

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase

Product code :

11585197

Catalog # :

02536OP3EFP256TC

Frame : 256TC  
Output : 25 HP (18.5 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 58.6/29.3 A  
L. R. Amperes : 352/176 A  
LRC : 6.0x(Code G)  
No load current : 18.8/9.40 A  
Rated speed : 3530 rpm  
Slip : 1.94 %  
Rated torque : 37.2 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 250 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.9774 sq.ft.lb  
Design : B

Locked rotor time : 18s (cold) 10s (hot)  
Temperature rise : 105 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)  
Noise level<sup>2</sup> : 67.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 231 lb

Output	25%	50%	75%	100%				
Efficiency (%)	90.0	88.0	90.2	87.5	91.0	88.5	91.0	87.5
	88.1	88.3	87.5	88.5	88.5	88.5	87.5	88.5
Power Factor	0.51	0.60	0.76	0.82	0.84	0.87	0.87	0.89
	0.55	0.51	0.78	0.75	0.85	0.83	0.88	0.87

Foundation loads  
Max. traction : 403 lb  
Max. compression : 634 lb

	Drive end	Non drive end
Bearing type	6309 Z C3	6209 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	9 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		