

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : ODP NEMA Premium Efficiency Three-Phase		Product code : 11591698			
		Catalog # : 02018OT3ECD256T			
Frame	: 256T	Locked rotor time	: 21s (cold) 12s (hot)		
Output	: 20 HP (15 kW)	Temperature rise	: 80 K		
Poles	: 4	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 49.4/24.7 A	Protection degree	: IP23		
L. R. Amperes	: 311/156 A	Cooling method	: IC01 - ODP		
LRC	: 6.3x(Code G)	Mounting	: F-1		
No load current	: 24.0/12.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1770 rpm	Noise level <sup>2</sup>	: 60.0 dB(A)		
Slip	: 1.67 %	Starting method	: Direct On Line		
Rated torque	: 59.3 ft.lb	Approx. weight <sup>3</sup>	: 281 lb		
Locked rotor torque	: 260 %				
Breakdown torque	: 280 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 2.62 sq.ft.lb				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	91.5	86.4	91.7	87.6	
	93.0	90.4	93.0	91.4	
	85.8	85.3	87.1	86.7	
	90.4	90.4	91.5	91.6	
	89.4	89.4	90.2	90.2	
	91.0	91.0	91.7	91.7	
	89.4	90.2	91.0	91.7	
Power Factor	0.37	0.35	0.63	0.59	
	0.72	0.72	0.82	0.80	
	0.31	0.28	0.54	0.49	
	0.67	0.62	0.76	0.71	
	0.43	0.39	0.68	0.63	
	0.80	0.76	0.84	0.81	
	0.34	0.58	0.72	0.78	
Foundation loads		Max. traction : 956 lb			
		Max. compression : 1237 lb			
Bearing type	:	<u>Drive end</u> 6309 Z C3	<u>Non drive end</u> 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					
Checked by					
Date	26/03/2024			Page 1 / 1	Revision