

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 14459505

Catalog # : 02018OT3ER256TC-S

Frame : 254/6TC
Output : 20 HP (15 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 50.0/25.0 A
L. R. Amperes : 315/158 A
LRC : 6.3x(Code G)
No load current : 22.9/11.4 A
Rated speed : 1770 rpm
Slip : 1.67 %
Rated torque : 59.3 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 2.23 sq.ft.lb
Design : B

Locked rotor time : 27s (cold) 15s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Cooling method : IC01 - ODP
Mounting : W-6
Rotation¹ : Both (CW and CCW)
Noise level² : 64.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 225 lb

Output	25%		50%		75%		100%	
Efficiency (%)	91.7	93.0	92.4	91.8	92.4	91.2	93.0	89.7
	91.4		90.9		91.3		90.5	
Power Factor	0.38	0.46	0.63	0.72	0.74	0.82	0.81	0.85
	0.38		0.64		0.76		0.82	

Foundation loads
Max. traction : 816 lb
Max. compression : 1041 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	8 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	27/03/2024			

Page 1 / 1
Revision