

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12705542

Catalog # : 010120T3E256TC-S

Frame : 254/6TC
Output : 10 HP (7.5 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 27.8/13.9 A
L. R. Amperes : 147/73.7 A
LRC : 5.3x(Code G)
No load current : 14.7/7.33 A
Rated speed : 1180 rpm
Slip : 1.67 %
Rated torque : 44.5 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 2.50 sq.ft.lb
Design : B

Locked rotor time : 61s (cold) 34s (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 : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 59.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 230 lb

Output	25%		50%		75%		100%	
Efficiency (%)	90.8	91.5	91.0	90.1	91.7	89.7	91.7	88.0
	89.7		89.2		89.8		89.0	
Power Factor	0.32	0.38	0.56	0.63	0.68	0.74	0.74	0.78
	0.32		0.56		0.68		0.75	

Foundation loads
Max. traction : 453 lb
Max. compression : 683 lb

	Drive end	Non drive end
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		Page 1 / 1		
Checked by				
Date	26/03/2024			
			Revision	