

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12898080

Catalog # : 02018ET3ER256TC-S

Frame : 254/6TC
Output : 20 HP (15 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 49.4/24.7 A
L. R. Amperes : 331/165 A
LRC : 6.7x(Code H)
No load current : 22.2/11.1 A
Rated speed : 1765 rpm
Slip : 1.94 %
Rated torque : 59.5 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 2.64 sq.ft.lb
Design : B

Locked rotor time : 28s (cold) 16s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : W-6
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 258 lb

Output	25%	50%	75%	100%
Efficiency (%)	91.0	91.7	92.4	93.0
Power Factor	0.40	0.66	0.77	0.82

Foundation loads
Max. traction : 727 lb
Max. compression : 985 lb

	Drive end	Non drive end
Bearing type	6309 Z C3	6208 Z C3
Sealing	V'Ring	Without Bearing Seal
Lubrication interval	14395 h	16660 h
Lubricant amount	13 g	8 g
Lubricant type	Mobil Polyrex EM	

Notes:
USABLE @208V 54.6A SF 1.00 SFA 54.6A

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	27/03/2024			
		Revision		