

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12898024

Catalog # : 00712ET3ER254TC-S

Frame : 254/6TC
Output : 7.5 HP (5.5 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 20.0/9.98 A
L. R. Amperes : 108/53.9 A
LRC : 5.4x(Code G)
No load current : 10.1/5.03 A
Rated speed : 1175 rpm
Slip : 2.08 %
Rated torque : 33.5 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 2.34 sq.ft.lb
Design : B

Locked rotor time : 75s (cold) 42s (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 : 59.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 227 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.1	91.0	89.5	89.9	89.5	89.5	91.0	88.0
	89.9		89.4		89.8		89.0	
Power Factor	0.35	0.40	0.58	0.65	0.70	0.75	0.76	0.79
	0.34		0.58		0.70		0.76	

Foundation loads
Max. traction : 313 lb
Max. compression : 539 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	19702 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