

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12809250

Catalog # : .5036OT3E56-S

Frame : 56
 Output : 0.5 HP (0.37 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 208-230/460 V
 Rated current : 1.79-1.62/0.811 A
 L. R. Amperes : 11.1-10.1/5.03 A
 LRC : 6.2x(Code K)
 No load current : 0.776-0.900/0.450 A
 Rated speed : 3490 rpm
 Slip : 3.06 %
 Rated torque : 0.752 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 0.0389 sq.ft.lb

Locked rotor time : 70s (cold) 39s (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 : 62.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 16.6 lb

Output	25%		50%		75%		100%	
Efficiency (%)	61.1	66.3	64.0	67.0	70.0	71.3	73.4	71.5
	59.9		62.1		68.5		70.8	
Power Factor	0.35	0.41	0.57	0.65	0.69	0.78	0.78	0.85
	0.30		0.55		0.68		0.78	

Foundation loads
 Max. traction : 15 lb
 Max. compression : 31 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6203 ZZ	6202 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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	27/03/2024			
			Revision	