

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12809205

Catalog # : .5018OT3E56C-S

Frame : 56C
Output : 0.5 HP (0.37 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 208-230/460 V
Rated current : 1.90-1.72/0.861 A
L. R. Amperes : 13.7-12.4/6.20 A
LRC : 7.2x(Code L)
No load current : 1.12-1.30/0.650 A
Rated speed : 1765 rpm
Slip : 1.94 %
Rated torque : 1.49 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 330 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.0584 sq.ft.lb

Locked rotor time : 48s (cold) 27s (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 : 52.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 20.9 lb

Output	25%		50%		75%		100%	
Efficiency (%)	67.5	71.5	70.0	72.6	75.5	76.6	78.2	77.4
	66.8		68.9		74.6		76.7	
Power Factor	0.26	0.31	0.47	0.55	0.60	0.68	0.69	0.77
	0.26		0.47		0.60		0.70	

Foundation loads
Max. traction : 46 lb
Max. compression : 67 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	