

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 14016910

Catalog # : .5012OT3E56-S

Frame : 56  
Output : 0.5 HP (0.37 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 208-230/460 V  
Rated current : 2.06-1.87/0.934 A  
L. R. Amperes : 10.5-9.53/4.76 A  
LRC : 5.1x(Code J)  
No load current : 1.29-1.50/0.750 A  
Rated speed : 1155 rpm  
Slip : 3.75 %  
Rated torque : 2.27 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 260 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 0.0888 sq.ft.lb

Locked rotor time : 50s (cold) 28s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 50.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 22.5 lb

Output	25%		50%		75%		100%	
Efficiency (%)	66.4	68.9	68.0	68.8	74.0	72.1	75.3	71.3
	63.4		64.9		70.4		71.7	
Power Factor	0.23	0.29	0.43	0.52	0.56	0.66	0.66	0.76
	0.25		0.45		0.59		0.69	

Foundation loads  
Max. traction : 54 lb  
Max. compression : 76 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	