

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12808930

Catalog # : .2512OT3E56-S

Frame : 56  
 Output : 0.25 HP (0.18 kW)  
 Poles : 6  
 Frequency : 60 Hz  
 Rated voltage : 208-230/460 V  
 Rated current : 1.21-1.10/0.549 A  
 L. R. Amperes : 5.83-5.27/2.64 A  
 LRC : 4.8x(Code K)  
 No load current : 0.862-1.00/0.500 A  
 Rated speed : 1160 rpm  
 Slip : 3.33 %  
 Rated torque : 1.13 ft.lb  
 Locked rotor torque : 210 %  
 Breakdown torque : 280 %  
 Insulation class : F  
 Service factor : 1.35  
 Moment of inertia (J) : 0.0622 sq.ft.lb

Locked rotor time : 72s (cold) 40s (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> : 17.1 lb

Output	25%		50%		75%		100%	
Efficiency (%)	52.2	55.9	55.0	57.9	64.0	64.3	67.5	66.4
	50.3		53.2		61.3		65.1	
Power Factor	0.22	0.27	0.41	0.48	0.52	0.60	0.61	0.70
	0.24		0.43		0.54		0.63	

Foundation loads  
 Max. traction : 27 lb  
 Max. compression : 44 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	