

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12809665

Catalog # : 00158OT3E56CFL-S

Frame : 56C  
 Output : 1.5 HP (1.1 kW)  
 Poles : 4  
 Frequency : 60 Hz  
 Rated voltage : 230/460 V  
 Rated current : 4.20/2.10 A  
 L. R. Amperes : 37.0/18.5 A  
 LRC : 8.8x(Code L)  
 No load current : 2.60/1.30 A  
 Rated speed : 1760 rpm  
 Slip : 2.22 %  
 Rated torque : 4.48 ft.lb  
 Locked rotor torque : 290 %  
 Breakdown torque : 350 %  
 Insulation class : F  
 Service factor : 1.15  
 Moment of inertia (J) : 0.1296 sq.ft.lb  
 Design : A

Locked rotor time : 25s (cold) 14s (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> : 52.0 dB(A)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 36.9 lb

Output	25%		50%		75%		100%	
Efficiency (%)	82.9	84.3	84.0	83.7	85.5	84.7	86.5	83.6
	81.0		81.6		84.0		84.2	
Power Factor	0.30	0.36	0.53	0.61	0.66	0.74	0.76	0.81
	0.30		0.53		0.67		0.76	

Foundation loads  
 Max. traction : 162 lb  
 Max. compression : 199 lb

	Drive end	Non drive end
Bearing type :	6204 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		