

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Standard Efficiency Three-Phase

Product code : 12894837

Catalog # : .7512ES3E56CFL-S

Frame : 56C
 Output : 0.75 HP (0.55 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 208-230/460 V
 Rated current : 2.96-2.68/1.34 A
 L. R. Amperes : 17.2-15.5/7.77 A
 LRC : 5.8x(Code K)
 No load current : 1.67-1.94/0.971 A
 Rated speed : 1155 rpm
 Slip : 3.75 %
 Rated torque : 3.41 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.1331 sq.ft.lb
 Design : A

Locked rotor time : 37s (cold) 21s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Noise level² : 50.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 30.8 lb

Output	25%		50%		75%		100%	
Efficiency (%)	68.4	70.3	70.0	70.3	74.0	73.3	75.5	72.6
	65.9		67.3		72.2		73.3	
Power Factor	0.26	0.31	0.46	0.55	0.59	0.68	0.68	0.77
	0.27		0.48		0.61		0.71	

Foundation loads
 Max. traction : 87 lb
 Max. compression : 117 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6203 ZZ	6202 ZZ
Sealing	:	V'Ring	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	