

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Standard Efficiency Three-Phase

Product code : 12894703

Catalog # : .5012ES3E56CFL-S

Frame : 56C
 Output : 0.5 HP (0.37 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 208-230/460 V
 Rated current : 2.19-1.98/0.992 A
 L. R. Amperes : 11.8-10.7/5.36 A
 LRC : 5.4x(Code K)
 No load current : 1.33-1.54/0.772 A
 Rated speed : 1160 rpm
 Slip : 3.33 %
 Rated torque : 2.26 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 300 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.1065 sq.ft.lb

Locked rotor time : 39s (cold) 22s (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 : 25.9 lb

Output	25%	50%	75%	100%				
Efficiency (%)	62.0	63.8	64.0	64.8	70.0	69.4	72.0	69.9
	59.1	61.2	67.6	69.8				
Power Factor	0.24	0.29	0.44	0.52	0.56	0.65	0.65	0.75
	0.25	0.46	0.59	0.69				

Foundation loads
 Max. traction : 57 lb
 Max. compression : 83 lb

	Drive end	Non drive end
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		