

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12808928

Catalog # : .2512OT3E56C-S

Frame : 56C
 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
 Rotation¹ : Both (CW and CCW)
 Noise level² : 50.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 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				
Checked by				
Date	27/03/2024			

Page 1 / 1
 Revision