

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12809251

Catalog # : .7512OT3E56C-S

Frame : 56HC
 Output : 0.75 HP (0.55 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 208-230/460 V
 Rated current : 2.78-2.52/1.26 A
 L. R. Amperes : 16.4-14.9/7.43 A
 LRC : 5.9x(Code J)
 No load current : 1.55-1.79/0.896 A
 Rated speed : 1160 rpm
 Slip : 3.33 %
 Rated torque : 3.40 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 280 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.1685 sq.ft.lb
 Design : A

Locked rotor time : 59s (cold) 33s (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 : 36.3 lb

Output	25%		50%		75%		100%	
Efficiency (%)	73.7	77.6	75.5	77.2	80.0	79.0	81.7	78.0
	74.4		75.2		78.6		78.9	
Power Factor	0.25	0.30	0.45	0.53	0.58	0.66	0.67	0.75
	0.26		0.47		0.60		0.70	

Foundation loads
 Max. traction : 95 lb
 Max. compression : 131 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		