

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Standard Efficiency Three-Phase

Product code : 12630184

Catalog # : .5018ES3E56-S

Frame : 56
Output : 0.5 HP (0.37 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 208-230/460 V
Rated current : 1.91-1.72/0.862 A
L. R. Amperes : 13.3-12.1/6.03 A
LRC : 7.0x(Code L)
No load current : 1.03-1.20/0.600 A
Rated speed : 1760 rpm
Slip : 2.22 %
Rated torque : 1.49 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.0584 sq.ft.lb

Locked rotor time : 36s (cold) 20s (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 : 52.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 20.9 lb

Output	25%		50%		75%		100%	
Efficiency (%)	65.4	69.5	68.0	70.7	74.0	75.0	77.0	75.9
	65.0		67.2		73.1		75.4	
Power Factor	0.28	0.32	0.48	0.56	0.61	0.69	0.70	0.78
	0.26		0.48		0.61		0.71	

Foundation loads
Max. traction : 44 lb
Max. compression : 65 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	