

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Standard Efficiency Three-Phase

Product code : 12676261

Catalog # : .2518ES3E56-S

Frame : 56
Output : 0.25 HP (0.18 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 208-230/460 V
Rated current : 1.15-1.04/0.521 A
L. R. Amperes : 7.26-6.56/3.28 A
LRC : 6.3x(Code M)
No load current : 0.776-0.900/0.450 A
Rated speed : 1765 rpm
Slip : 1.94 %
Rated torque : 0.744 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.0453 sq.ft.lb

Locked rotor time : 68s (cold) 38s (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 : 18.0 lb

Output	50%	75%	100%
Efficiency (%)	57.5 59.3	66.0 66.2	70.0 69.3
	55.7	63.7	67.9
Power Factor	0.43 0.50	0.54 0.61	0.62 0.70
	0.44	0.54	0.63

Foundation loads
Max. traction : 20 lb
Max. compression : 39 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		