

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Standard Efficiency Three-Phase

Product code : 12805241

Catalog # : .5036ES3E56C-S

Frame	: 56C	Locked rotor time	: 63s (cold) 35s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 1.86-1.69/0.843 A	Protection degree	: IP55
L. R. Amperes	: 13.0-11.8/5.90 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code L)	Mounting	: F-1
No load current	: 0.776-0.900/0.450 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3500 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 0.750 ft.lb	Approx. weight <sup>3</sup>	: 19.4 lb
Locked rotor torque	: 260 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0453 sq.ft.lb		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	55.0 64.8	62.0 70.1	68.0 71.8	Max. traction	: 18 lb
	61.9	68.6	71.5		
Power Factor	0.67 0.73	0.75 0.83	0.81 0.88	Max. compression	: 38 lb
	0.63	0.74	0.82		

		<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 Revision 1 / 1		
Checked by				
Date	27/03/2024			