

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 13685097  
Catalog # : .2536ES1BW56C-S

Frame	: W56C	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 0.25 HP (0.18 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 4.20/2.32-2.10 A	Protection degree	: IP55
L. R. Amperes	: 27.7/15.3-13.8 A	Cooling method	: IC411 - TEFC
LRC	: 6.6x(Code P)	Mounting	: F-1
No load current	: 3.20/1.38-1.60 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3485 rpm	Noise level <sup>2</sup>	: 66.0 dB(A)
Slip	: 3.19 %	Starting method	: Direct On Line
Rated torque	: 0.377 ft.lb	Approx. weight <sup>3</sup>	: 16.7 lb
Locked rotor torque	: 290 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0147 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	31.7	35.0	44.0	50.0	Max. traction	: 2 lb
Power Factor	0.36	0.60	0.68	0.74	Max. compression	: 19 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	25/03/2024			
			Revision	