

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 13823769  
Catalog # : .2518ES1BW56CFL-S

Frame : W56C  
Output : 0.25 HP (0.18 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 115/208-230 V  
Rated current : 4.60/2.54-2.30 A  
L. R. Amperes : 24.4/13.5-12.2 A  
LRC : 5.3x(Code N)  
No load current : 4.00/1.72-2.00 A  
Rated speed : 1735 rpm  
Slip : 3.61 %  
Rated torque : 0.757 ft.lb  
Locked rotor torque : 310 %  
Breakdown torque : 280 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.0318 sq.ft.lb  
Design : N

Locked rotor time : 27s (cold) 15s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 52.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 15.8 lb

Output	25%	50%	75%	100%
Efficiency (%)	39.8	43.0	52.0	57.0
Power Factor	0.25	0.43	0.52	0.60

Foundation loads  
Max. traction : 12 lb  
Max. compression : 28 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	25/03/2024			
		Revision		