

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 14419276
Catalog # : .2536OT1BW56C-S

Frame	: W56C	Locked rotor time	: 32s (cold) 18s (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	: 2.50/1.38-1.25 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 22.0/12.1-11.0 A	Mounting	: F-1
LRC	: 8.8x(Code M)	Rotation ¹	: Both (CW and CCW)
No load current	: 1.00/0.431-0.500 A	Noise level ²	: 56.0 dB(A)
Rated speed	: 3510 rpm	Starting method	: Direct On Line
Slip	: 2.50 %	Approx. weight ³	: 17.2 lb
Rated torque	: 0.374 ft.lb		
Locked rotor torque	: 280 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.35		
Moment of inertia (J)	: 0.0211 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	45.4	50.0	59.0	66.6	Max. traction	: 2 lb
Power Factor	0.64	0.91	0.93	0.94	Max. compression	: 20 lb

		Drive end	Non drive end
Bearing type	:	6203 ZZ	6202 ZZ
Sealing	:	Without Bearing Seal	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 Revision		
Checked by				
Date	25/03/2024			