

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 14201788
Catalog # : 002180T1BO56Z-S

Frame	: 56HZ	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 17.7/9.50-8.87 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 115/61.7-57.7 A	Mounting	: F-1
LRC	: 6.5x(Code H)	Rotation ¹	: CCW
No load current	: 6.20/2.67-3.10 A	Noise level ²	: 52.0 dB(A)
Rated speed	: 1730 rpm	Starting method	: Direct On Line
Slip	: 3.89 %	Approx. weight ³	: 52.1 lb
Rated torque	: 6.07 ft.lb		
Locked rotor torque	: 290 %		
Breakdown torque	: 225 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1614 sq.ft.lb		
Design	: L		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	82.2	83.0	84.0	84.5	Max. traction	: 108 lb
Power Factor	0.49	0.75	0.83	0.87	Max. compression	: 160 lb

	Drive end	Non drive end
Bearing type	: 6205 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				
Checked by				
Date	26/03/2024			

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Revision