

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :					
Product line : Rolled Steel 00021 Single-Phase		Product code : 13769894			
		Catalog # : 00156OT1BRBO56-S			
Frame	: 56	Locked rotor time	: 18s (cold) 10s (hot)		
Output	: 1.5 HP (1.1 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	: 13.3/6.90-6.65 A	Cooling method	: IC01 - ODP		
L. R. Amperes	: 102/53.1-51.2 A	Mounting	: F-1		
LRC	: 7.7x(Code J)	Rotation <sup>1</sup>	: Both (CW and CCW)		
No load current	: 3.20/1.38-1.60 A	Noise level <sup>2</sup>	: 58.0 dB(A)		
Rated speed	: 3500 rpm	Starting method	: Direct On Line		
Slip	: 2.78 %	Approx. weight <sup>3</sup>	: 16.7 kg		
Rated torque	: 0.311 kgfm				
Locked rotor torque	: 260 %				
Breakdown torque	: 270 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0027 kgm <sup>2</sup>				
Design	: L				
Output	25%	50%	75%	100%	
Efficiency (%)	70.6	73.0	79.0	81.5	
Power Factor	0.66	0.88	0.89	0.89	
Foundation loads					
Max. traction : 18 kgf					
Max. compression : 35 kgf					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6204 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	24/04/2023			Page	Revision
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