

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12674731		
		Catalog # :	00318OT3E182TC-S		
Frame	: 182/4TC	Locked rotor time	: 27s (cold) 15s (hot)		
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K		
Poles	: 4	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 7.72/3.86 A	Cooling method	: IC01 - ODP		
L. R. Amperes	: 64.8/32.4 A	Mounting	: F-1		
LRC	: 8.4x(Code K)	Rotation ¹	: Both (CW and CCW)		
No load current	: 4.14/2.07 A	Noise level ²	: 55.0 dB(A)		
Rated speed	: 1765 rpm	Starting method	: Direct On Line		
Slip	: 1.94 %	Approx. weight ³	: 75.0 lb		
Rated torque	: 8.93 ft.lb				
Locked rotor torque	: 220 %				
Breakdown torque	: 330 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.3092 sq.ft.lb				
Design	: B				
Output	50%	75%	100%		
Efficiency (%)	87.5 86.0	88.5 86.5	89.5 86.7		
	86.8	87.8	87.2		
Power Factor	0.60 0.68	0.73 0.79	0.80 0.85		
	0.60	0.73	0.81		
Bearing type		Drive end	Non drive end		
Sealing		6206 ZZ	6205 ZZ		
Lubrication interval		Without Bearing Seal	Without Bearing Seal		
Lubricant amount		-	-		
Lubricant type		Mobil Polyrex EM			
Notes:					
This revision replaces and cancel the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.			
(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.					
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/03/2024			1 / 1	