

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 13528749
Catalog # : 00518OT3ER184TC-S

Frame	: 182/4TC	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 5 HP (3.7 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	: 12.7/6.33 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 91.2/45.6 A	Mounting	: W-6
LRC	: 7.2x(Code J)	Rotation ¹	: Both (CW and CCW)
No load current	: 6.29/3.15 A	Noise level ²	: 55.0 dB(A)
Rated speed	: 1760 rpm	Starting method	: Direct On Line
Slip	: 2.22 %	Approx. weight ³	: 85.7 lb
Rated torque	: 14.9 ft.lb		
Locked rotor torque	: 200 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.4003 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	88.5 88.2	88.5 87.3	89.5 84.8	Max. traction	: 268 lb
	87.5	87.7	86.4		
Power Factor	0.63 0.71	0.76 0.82	0.82 0.86	Max. compression	: 354 lb
	0.64	0.76	0.83		

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6205 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 Revision 1 / 1		
Checked by				
Date	22/10/2025			