

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 14271680

Catalog # : 00736ET3V184TC-S

Frame : 182/4TC
Output : 7.5 HP (5.5 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 200/400 V
Rated current : 20.1/10.1 A
L. R. Amperes : 155/77.6 A
LRC : 7.7x(Code J)
No load current : 6.99/3.49 A
Rated speed : 3475 rpm
Slip : 3.47 %
Rated torque : 11.3 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 360 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1913 sq.ft.lb
Design : B

Locked rotor time : 37s (cold) 21s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 91.8 lb

Output	25%	50%	75%	100%
Efficiency (%)	88.2	88.5	89.5	89.5
Power Factor	0.49	0.74	0.83	0.88

Foundation loads
Max. traction : 215 lb
Max. compression : 306 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6205 ZZ
Sealing	:	V'Ring	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		
Checked by				
Date	27/03/2024			
		Revision		