

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12677333

Catalog # : 00336ET3ER182TC-S

Frame : 182/4TC
Output : 3 HP (2.2 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 7.52/3.76 A
L. R. Amperes : 66.2/33.1 A
LRC : 8.8x(Code K)
No load current : 3.40/1.70 A
Rated speed : 3515 rpm
Slip : 2.36 %
Rated torque : 4.48 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 350 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1564 sq.ft.lb
Design : B

Locked rotor time : 45s (cold) 25s (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 : W-6
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 70.1 lb

Output	25%		50%		75%		100%	
Efficiency (%)	83.6	82.5	84.0	83.0	86.5	83.0	86.5	83.2
	83.6		83.9		84.0		84.0	
Power Factor	0.43	0.48	0.70	0.74	0.80	0.84	0.85	0.88
	0.41		0.67		0.80		0.85	

Foundation loads
Max. traction : 76 lb
Max. compression : 146 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	14.2	18.3	17.3
	P2 (0,5;1,0)	10.4	13.5	12.8
	P3 (0,25;1,0)	10.2	13.2	12.5
	P4 (0,9;0,5)	8.6	11.1	10.5
	P5 (0,5;0,5)	4.8	6.2	5.9
	P6 (0,5;0,25)	3.5	4.6	4.3
	P7 (0,25;0,25)	2.2	2.9	2.7

		<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	