

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 13187814

Catalog # : 00152ET3E182TC-S

Frame : 182/4TC
Output : 1.5 HP (1.1 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 4.44/2.22 A
L. R. Amperes : 30.6/15.3 A
LRC : 6.9x(Code K)
No load current : 2.73/1.36 A
Rated speed : 1170 rpm
Slip : 2.50 %
Rated torque : 6.73 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 340 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.2800 sq.ft.lb
Design : B

Locked rotor time : 99s (cold) 55s (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 : 52.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 78.0 lb

Output	25%		50%		75%		100%	
Efficiency (%)	82.8	84.4	84.0	84.2	86.5	85.6	87.5	84.9
	82.3		82.9		85.3		85.5	
Power Factor	0.29	0.34	0.50	0.58	0.63	0.70	0.71	0.76
	0.29		0.51		0.63		0.72	

Foundation loads
Max. traction : 133 lb
Max. compression : 211 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				
Checked by				
Date	26/03/2024			

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Revision