

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12821685

Catalog # : 00152ET3ER182TC-W22

Frame : 182TC
Output : 1.5 HP (1.1 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 5.08/2.54 A
L. R. Amperes : 39.6/19.8 A
LRC : 7.8x(Code M)
No load current : 3.25/1.63 A
Rated speed : 1170 rpm
Slip : 2.50 %
Rated torque : 6.73 ft.lb
Locked rotor torque : 320 %
Breakdown torque : 400 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.4879 sq.ft.lb
Design : B

Locked rotor time : 28s (cold) 16s (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 : 52.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 97.0 lb

Output	25%		50%		75%		100%	
Efficiency (%)	82.8	86.0	84.0	85.5	86.5	86.5	87.5	85.5
	84.1	82.8	84.5	84.0	86.5	85.5	86.5	86.5
Power Factor	0.25	0.29	0.45	0.52	0.54	0.63	0.62	0.73
	0.27	0.25	0.48	0.45	0.60	0.57	0.70	0.67

Foundation loads
Max. traction : 144 lb
Max. compression : 241 lb

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

Losses (%)	P1 (0,9;1,0)	13.4	13.4	13.4	13.4
	P2 (0,5;1,0)	10.3	10.3	10.3	10.3
	P3 (0,25;1,0)	9.3	9.3	9.3	9.3
	P4 (0,9;0,5)	8.8	8.8	8.8	8.8
	P5 (0,5;0,5)	5.8	5.8	5.8	5.8
	P6 (0,5;0,25)	4.8	4.8	4.8	4.8
	P7 (0,25;0,25)	3.5	3.5	3.5	3.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
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			
			Page	Revision
			1 / 1	