

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12445727

Catalog # : 00318ET3H182TC-W22

Frame : 182/4TC
 Output : 3 HP (2.2 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 3.13 A
 L. R. Amperes : 25.3 A
 LRC : 8.1x(Code K)
 No load current : 1.60 A
 Rated speed : 1760 rpm
 Slip : 2.22 %
 Rated torque : 8.95 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 330 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 0.3401 sq.ft.lb
 Design : B

Locked rotor time : 41s (cold) 23s (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 : 56.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 89.0 lb

Output	25%	50%	75%	100%
Efficiency (%)	86.4	87.5	88.5	89.5
Power Factor	0.36	0.61	0.71	0.79

Foundation loads
 Max. traction : 144 lb
 Max. compression : 233 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
11.0	8.9	8.8	6.1	4.0	3.0	2.1

		<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		Page 1 / 1		
Checked by				
Date	28/03/2024			
		Revision		