

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 12792146

Catalog # : 00318EG3E182T-W22

Frame : 182/4T
Output : 3 HP (2.2 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 7.88/3.94 A
L. R. Amperes : 74.9/37.4 A
LRC : 9.5x(Code L)
No load current : 4.60/2.30 A
Rated speed : 1770 rpm
Slip : 1.67 %
Rated torque : 8.90 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 360 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.3961 sq.ft.lb
Design : A

Locked rotor time : 64s (cold) 36s (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 : 99.0 lb

Output	50%	75%	100%
Efficiency (%)	87.5 88.5	88.5 89.5	91.0 89.5
	88.5 89.5	89.5 90.2	89.5 90.2
Power Factor	0.59 0.65	0.70 0.76	0.77 0.81
	0.62 0.59	0.73 0.70	0.79 0.77

Foundation loads
Max. traction : 191 lb
Max. compression : 290 lb

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

Losses (%)	P1 (0,9;1,0)	9.4	11.1	11.1	10.3
	P2 (0,5;1,0)	7.3	8.6	8.6	8.0
	P3 (0,25;1,0)	6.6	7.8	7.8	7.2
	P4 (0,9;0,5)	5.6	6.7	6.7	6.2
	P5 (0,5;0,5)	3.7	4.4	4.4	4.1
	P6 (0,5;0,25)	2.9	3.4	3.4	3.2
	P7 (0,25;0,25)	2.0	2.4	2.4	2.2

		<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	29/03/2024			
		Revision		