

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166654

Catalog # : 06018ET3E364T-W22

Frame : 364/5T
 Output : 60 HP (45 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 143/71.6 A
 L. R. Amperes : 888/444 A
 LRC : 6.2x(Code G)
 No load current : 56.0/28.0 A
 Rated speed : 1780 rpm
 Slip : 1.11 %
 Rated torque : 177 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 22.4 sq.ft.lb
 Design : B

Locked rotor time : 27s (cold) 15s (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 : 67.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 875 lb

Output	50%	75%	100%
Efficiency (%)	94.1 93.7 93.3 93.4 94.1 94.1 94.1	94.5 93.9 93.9 94.2 93.6 93.6 94.1	95.0 94.2 94.2 94.3 93.0 93.6 94.1
Power Factor	0.71 0.71 0.68 0.65 0.76 0.73 0.70	0.80 0.80 0.78 0.76 0.82 0.81 0.80	0.83 0.84 0.82 0.81 0.85 0.84 0.83

Foundation loads
 Max. traction : 1242 lb
 Max. compression : 2117 lb

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

Losses (%)	P1 (0,9;1,0)	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	P2 (0,5;1,0)	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	P3 (0,25;1,0)	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	P4 (0,9;0,5)	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	P5 (0,5;0,5)	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	P6 (0,5;0,25)	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	P7 (0,25;0,25)	0.8	0.8	0.8	0.8	0.8	0.8	0.8

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6314 C3	6314 C3
Sealing :	WSeal	WSeal
Lubrication interval :	12000 h	12000 h
Lubricant amount :	27 g	27 g
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		