

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12197395

Catalog # : 07536ET3E365TSC-W22

Frame : 364/5TSC
 Output : 75 HP (55 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 164/81.9 A
 L. R. Amperes : 1097/549 A
 LRC : 6.7x(Code G)
 No load current : 40.0/20.0 A
 Rated speed : 3555 rpm
 Slip : 1.25 %
 Rated torque : 111 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 11.9 sq.ft.lb
 Design : B

Locked rotor time : 18s (cold) 10s (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 : 79.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 892 lb

Output	50%	75%	100%
Efficiency (%)	92.4 91.2 91.5 91.8 92.4 92.4 93.0	93.6 92.5 93.0 93.1 93.0 93.0 93.6	93.6 94.0 94.0 94.0 92.4 93.0 93.0
Power Factor	0.83 0.75 0.72 0.70 0.86 0.84 0.83	0.88 0.85 0.83 0.82 0.89 0.89 0.88	0.90 0.90 0.88 0.88 0.90 0.90 0.90

Foundation loads
 Max. traction : 650 lb
 Max. compression : 1543 lb

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

Losses (%)	P1 (0,9;1,0)	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	P2 (0,5;1,0)	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	P3 (0,25;1,0)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	P4 (0,9;0,5)	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	P5 (0,5;0,5)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6	0.6

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6314 C3	6314 C3
Sealing :	WSeal	WSeal
Lubrication interval :	4000 h	4000 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		