

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11355727

Catalog # : 04009ET3E365T-W22

Frame : 364/5T
Output : 40 HP (30 kW)
Poles : 8
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 102/50.9 A
L. R. Amperes : 601/300 A
LRC : 5.9x(Code G)
No load current : 43.0/21.5 A
Rated speed : 882 rpm
Slip : 2.00 %
Rated torque : 238 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 210 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 29.0 sq.ft.lb
Design : B

Locked rotor time : 46s (cold) 26s (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 : 60.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 860 lb

Output	50%	75%	100%
Efficiency (%)	92.4 91.5 91.5 90.9 91.7 91.7 91.7	93.0 91.6 91.9 91.8 91.0 91.7 91.7	92.4 90.9 91.5 91.7 89.5 90.2 91.0
Power Factor	0.65 0.60 0.55 0.52 0.70 0.66 0.62	0.75 0.71 0.68 0.65 0.78 0.76 0.74	0.80 0.77 0.75 0.73 0.81 0.80 0.79

Foundation loads
Max. traction : 1639 lb

Max. compression : 2498 lb

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

Losses (%)	P1 (0,9;1,0)	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	P2 (0,5;1,0)	7.1	7.1	7.1	7.1	7.1	7.1	7.1
	P3 (0,25;1,0)	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	P4 (0,9;0,5)	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	P5 (0,5;0,5)	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	P6 (0,5;0,25)	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	P7 (0,25;0,25)	1.2	1.2	1.2	1.2	1.2	1.2	1.2

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6314 C3	6314 C3
Sealing :	WSeal	WSeal
Lubrication interval :	20000 h	20000 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 Revision		
Checked by				
Date	28/03/2024			