

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 High Efficiency Three-Phase

Product code :

11354952

Catalog # :

03009EP3E364T-W22

Frame : 364/5T
Output : 30 HP (22 kW)
Poles : 8
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 74.0/37.0 A
L. R. Amperes : 444/222 A
LRC : 6.0x(Code G)
No load current : 32.0/16.0 A
Rated speed : 880 rpm
Slip : 2.22 %
Rated torque : 179 ft.lb
Locked rotor torque : 160 %
Breakdown torque : 220 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 23.5 sq.ft.lb
Design : B

Locked rotor time : 30s (cold) 17s (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 : 778 lb

Output	50%	75%	100%
Efficiency (%)	91.0 91.0	91.7 90.2	91.0 89.5
	91.0 91.0	91.0 91.0	89.5 90.2
Power Factor	0.67 0.73	0.77 0.81	0.82 0.84
	0.70 0.67	0.79 0.78	0.83 0.82

Foundation loads
Max. traction : 1162 lb
Max. compression : 1940 lb

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

Losses (%)	P1 (0,9;1,0)	9.6	11.4	11.4	10.6
	P2 (0,5;1,0)	8.3	9.8	9.8	9.1
	P3 (0,25;1,0)	7.6	9.0	9.0	8.3
	P4 (0,9;0,5)	4.4	5.2	5.2	4.8
	P5 (0,5;0,5)	3.1	3.7	3.7	3.4
	P6 (0,5;0,25)	2.0	2.4	2.4	2.2
	P7 (0,25;0,25)	1.5	1.7	1.7	1.6

		<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		
Checked by				
Date	28/03/2024			
			Revision	