

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 High Efficiency Three-Phase

Product code :

13124381

Catalog # :

25018EP3G447TS-W22

Frame : 445/7TS
Output : 250 HP (185 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 286 A
L. R. Amperes : 1830 A
LRC : 6.4x(Code G)
No load current : 80.0 A
Rated speed : 1781 rpm
Slip : 1.06 %
Rated torque : 737 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 220 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 89.6 sq.ft.lb
Design : B

Locked rotor time : 28s (cold) 16s (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 : 73.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 2240 lb

Output	25%		50%		75%		100%	
Efficiency (%)	94.9	95.2	95.0	95.0	95.4	95.4	95.4	95.0
	94.9	94.9	95.0	95.0	95.4	95.4	95.4	95.4
Power Factor	0.54	0.54	0.78	0.78	0.84	0.84	0.85	0.86
	0.51	0.48	0.75	0.73	0.83	0.81	0.85	0.85

Foundation loads
Max. traction : 3782 lb
Max. compression : 6022 lb

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

Losses (%)	P1 (0,9;1,0)	4.8	5.2	4.8	4.8
	P2 (0,5;1,0)	3.8	4.2	3.8	3.8
	P3 (0,25;1,0)	3.5	3.8	3.5	3.5
	P4 (0,9;0,5)	2.3	2.5	2.3	2.3
	P5 (0,5;0,5)	1.5	1.6	1.5	1.5
	P6 (0,5;0,25)	1.0	1.1	1.0	1.0
	P7 (0,25;0,25)	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	:	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				
Checked by				
Date	28/03/2024			
			Page	Revision
			1 / 1	