

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12205951

Catalog # : 06018ET3E364TC-W22

Frame	: 364/5TC	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 60 HP (45 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 143/71.6 A	Protection degree	: IP55
L. R. Amperes	: 888/444 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 56.0/28.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 67.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 177 ft.lb	Approx. weight ³	: 901 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		

Output	50%	75%	100%	Foundation loads	
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	Max. traction	: 1229 lb
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	Max. compression	: 2130 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 Revision 1 / 1		
Checked by				
Date	29/03/2024			