

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13864389

Catalog # : 00518ET3E184T-W22G

Frame	: 182/4T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 5 HP (3.7 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	: 13.0/6.49 A	Protection degree	: IP55
L. R. Amperes	: 97.4/48.7 A	Cooling method	: IC411 - TEFC
LRC	: 7.5x(Code J)	Mounting	: F-1
No load current	: 5.80/2.90 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 15.0 ft.lb	Approx. weight ³	: 97.0 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.4003 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	88.5	87.5	89.5 88.2 89.5 87.7
	0.000	86.7	86.5	88.2 88.2 88.2 88.2
		88.5	87.5	87.5 88.5 86.5 87.5
		87.5	88.5	87.5
Power Factor	0.00 0.00	0.62	0.61	0.74 0.75 0.80 0.81
		0.57	0.53	0.71 0.67 0.79 0.76
		0.69	0.65	0.80 0.77 0.84 0.82
		0.61	0.74	0.80

Foundation loads

Max. traction : 265 lb

Max. compression : 362 lb

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

P1 (0,9;1,0)	11.2	13.4	12.8	12.8	14.9	13.6	13.6
P2 (0,5;1,0)	9.4	11.2	10.7	10.7	12.5	11.4	11.4
P3 (0,25;1,0)	8.7	10.3	9.9	9.9	11.5	10.5	10.5
P4 (0,9;0,5)	5.3	6.4	6.1	6.1	7.1	6.5	6.5
P5 (0,5;0,5)	3.7	4.4	4.2	4.2	4.9	4.4	4.4
P6 (0,5;0,25)	2.4	2.9	2.7	2.7	3.2	2.9	2.9
P7 (0,25;0,25)	1.7	2.1	2.0	2.0	2.3	2.1	2.1

Drive end

Non drive end

Bearing type	:	6207 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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
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