

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11610620

Catalog # : 00518ET3E184TC-W22

Frame	: 182/4TC	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 <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level <sup>2</sup>	: 56.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 15.0 ft.lb	Approx. weight <sup>3</sup>	: 99.4 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 (%)	88.2	87.7	88.5	87.5
	86.4	86.2	86.7	86.5
	89.1	88.0	88.5	87.5
	88.0	87.5	88.5	87.5
Power Factor	0.38	0.38	0.62	0.61
	0.34	0.31	0.57	0.53
	0.45	0.41	0.69	0.65
	0.38	0.61	0.74	0.80
				0.80

### Foundation loads

Max. traction : 264 lb

Max. compression : 363 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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