

# 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 <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>	: 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%	Foundation loads					
Efficiency (%)	0.000	88.5	87.5	89.5	88.2	89.5	87.7	Max. traction	: 265 lb	
	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	Max. compression	: 362 lb
			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			

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

Losses (%)	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

		<u>Drive end</u>	<u>Non drive end</u>
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		Page Revision 1 / 1		
Checked by				
Date	28/03/2024			