

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12821972

Catalog # : 00212ET3ER184TC-W22

Frame : 184TC
 Output : 2 HP (1.5 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 6.44/3.22 A
 L. R. Amperes : 48.3/24.2 A
 LRC : 7.5x(Code L)
 No load current : 3.80/1.90 A
 Rated speed : 1170 rpm
 Slip : 2.50 %
 Rated torque : 8.98 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 350 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 0.6210 sq.ft.lb
 Design : B

Locked rotor time : 55s (cold) 31s (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 : W-6
 Rotation¹ : Both (CW and CCW)
 Noise level² : 52.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 102 lb

Output	25%		50%		75%		100%	
Efficiency (%)	85.4	84.8	86.5	85.5	87.5	86.0	88.5	86.5
	84.8	84.2	85.5	85.0	86.5	86.5	87.0	87.0
Power Factor	0.26	0.31	0.46	0.53	0.58	0.65	0.66	0.72
	0.28	0.26	0.49	0.46	0.62	0.59	0.69	0.67

Foundation loads
 Max. traction : 185 lb
 Max. compression : 287 lb

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

Losses (%)	P1 (0,9;1,0)	12.3	12.3	12.3	12.3
	P2 (0,5;1,0)	9.8	9.8	9.8	9.8
	P3 (0,25;1,0)	9.2	9.2	9.2	9.2
	P4 (0,9;0,5)	7.4	7.4	7.4	7.4
	P5 (0,5;0,5)	5.0	5.0	5.0	5.0
	P6 (0,5;0,25)	3.9	3.9	3.9	3.9
	P7 (0,25;0,25)	2.9	2.9	2.9	2.9

		<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				
Checked by				
Date	28/03/2024			

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 Revision