

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11441852

Catalog # : 00112ET3E145T-W22

Frame : 143/5T  
Output : 1 HP (0.75 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 3.46/1.73 A  
L. R. Amperes : 21.5/10.7 A  
LRC : 6.2x(Code K)  
No load current : 2.20/1.10 A  
Rated speed : 1160 rpm  
Slip : 3.33 %  
Rated torque : 4.53 ft.lb  
Locked rotor torque : 260 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 0.1595 sq.ft.lb  
Design : B

Locked rotor time : 50s (cold) 28s (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 : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 50.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 51.4 lb

Output	50%	75%	100%
Efficiency (%)	77.0 74.8 73.2 70.7 77.0 75.5 74.0	82.0 78.4 77.5 75.8 80.0 80.0 78.5	82.5 79.3 78.9 77.9 78.5 78.5 78.5
Power Factor	0.45 0.44 0.41 0.38 0.53 0.49 0.46	0.57 0.57 0.53 0.50 0.66 0.62 0.59	0.66 0.66 0.62 0.59 0.74 0.71 0.68

Foundation loads  
Max. traction : 109 lb  
  
Max. compression : 160 lb

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

Losses (%)	P1 (0,9;1,0)	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	P2 (0,5;1,0)	16.7	16.7	16.7	16.7	16.7	16.7	16.7
	P3 (0,25;1,0)	16.9	16.9	16.9	16.9	16.9	16.9	16.9
	P4 (0,9;0,5)	12.6	12.6	12.6	12.6	12.6	12.6	12.6
	P5 (0,5;0,5)	9.2	9.2	9.2	9.2	9.2	9.2	9.2
	P6 (0,5;0,25)	7.6	7.6	7.6	7.6	7.6	7.6	7.6
	P7 (0,25;0,25)	5.8	5.8	5.8	5.8	5.8	5.8	5.8

	Drive end	Non drive end
Bearing type :	6205 ZZ	6204 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 1 / 1 Revision		
Checked by				
Date	26/03/2024			