

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12445718

Catalog # : 00156ET3H143T-W22

Frame : 143/5T  
 Output : 1.5 HP (1.1 kW)  
 Poles : 2  
 Frequency : 60 Hz  
 Rated voltage : 575 V  
 Rated current : 1.57 A  
 L. R. Amperes : 14.0 A  
 LRC : 8.9x(Code L)  
 No load current : 0.664 A  
 Rated speed : 3480 rpm  
 Slip : 3.33 %  
 Rated torque : 2.26 ft.lb  
 Locked rotor torque : 310 %  
 Breakdown torque : 370 %  
 Insulation class : F  
 Service factor : 1.25  
 Moment of inertia (J) : 0.0470 sq.ft.lb  
 Design : B

Locked rotor time : 37s (cold) 21s (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> : 68.0 dB(A)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 44.2 lb

Output 25% 50% 75% 100%

Efficiency (%) 81.1 81.5 84.0 84.0  
 Power Factor 0.43 0.68 0.78 0.84

Foundation loads

Max. traction : 50 lb  
 Max. compression : 95 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
17.7	13.3	12.1	9.8	5.6	3.8	2.4

		<u>Drive end</u>	<u>Non drive end</u>
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				
Checked by				
Date	26/03/2024			

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 Revision