

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12783432

Catalog # : 00136ET3E143T-S

Frame : 143/5T
Output : 1 HP (0.75 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 2.88/1.44 A
L. R. Amperes : 22.5/11.2 A
LRC : 7.8x(Code K)
No load current : 1.40/0.700 A
Rated speed : 3510 rpm
Slip : 2.50 %
Rated torque : 1.50 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.0643 sq.ft.lb

Locked rotor time : 39s (cold) 22s (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
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 26.4 lb

Output	25%		50%		75%		100%	
Efficiency (%)	70.4	76.8	72.0	77.0	77.0	79.5	78.5	79.2
	73.2		74.5		78.6		79.7	
Power Factor	0.40	0.43	0.65	0.71	0.76	0.82	0.83	0.88
	0.35		0.61		0.75		0.83	

Foundation loads
Max. traction : 35 lb
Max. compression : 62 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6203 ZZ
Sealing	:	V'Ring	Without Bearing Seal
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