

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase      Product code : 12677345  
Catalog # : 00156EP3ER143TC-S

Frame	: 143/5TC	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 3.80/1.90 A	Protection degree	: IP55
L. R. Amperes	: 30.8/15.4 A	Cooling method	: IC411 - TEFC
LRC	: 8.1x(Code K)	Mounting	: W-6
No load current	: 1.80/0.900 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3480 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 2.26 ft.lb	Approx. weight <sup>3</sup>	: 30.3 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0358 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	75.7	81.4	77.0	80.1	81.5	80.7	82.5	78.7	Max. traction	: 52 lb
	79.2		79.1		81.1		80.4			
Power Factor	0.45	0.52	0.72	0.79	0.83	0.88	0.88	0.92	Max. compression	: 82 lb
	0.43		0.71		0.82		0.88			

					<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			
			Page	Revision
			1 / 1	