

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12677283

Catalog # : 00112ET3ER145TC-S

Frame : 143/5TC
Output : 1 HP (0.75 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 3.16/1.58 A
L. R. Amperes : 18.3/9.16 A
LRC : 5.8x(Code J)
No load current : 2.03/1.01 A
Rated speed : 1145 rpm
Slip : 4.58 %
Rated torque : 4.59 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 280 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1597 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 : 50.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 38.4 lb

Output	25%		50%		75%		100%	
Efficiency (%)	79.5	82.0	80.0	80.1	82.5	80.1	82.5	77.3
	78.9		78.6		80.3		79.3	
Power Factor	0.28	0.33	0.50	0.58	0.63	0.71	0.72	0.79
	0.29		0.51		0.65		0.74	

Foundation loads
Max. traction : 103 lb
Max. compression : 141 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		Page 1 / 1		
Checked by				
Date	26/03/2024			
			Revision	