

# Three Phase Induction Motor - Squirrel Cage



Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13508877
		Catalog # :	00158ET3ESB145TCZ1-S

Frame	: 143/5TCZ				Locked rotor time	: 27s (cold) 15s (hot)											
Output	: 1.5 HP (1.1 kW)				Temperature rise	: 80 K											
Poles	: 4				Duty cycle	: Cont.(S1)											
Frequency	: 60 Hz				Ambient temperature	: -20°C to +65°C											
Rated voltage	: 208-230/460 V				Altitude	: 1000 m.a.s.l.											
Rated current	: 4.98-4.51/2.25 A				Protection degree	: IP55											
L. R. Amperes	: 40.8-37.0/18.5 A				Cooling method	: IC411 - TEFC											
LRC	: 8.2x(Code L)				Mounting	: F-1											
No load current	: 2.41-2.80/1.40 A				Rotation <sup>1</sup>	: Both (CW and CCW)											
Rated speed	: 1745 rpm				Noise level <sup>2</sup>	: 52.0 dB(A)											
Slip	: 3.06 %				Starting method	: Direct On Line											
Rated torque	: 4.51 ft.lb				Approx. weight <sup>3</sup>	: 43.2 lb											
Locked rotor torque	: 350 %																
Breakdown torque	: 400 %																
Insulation class	: H																
Service factor	: 1.15																
Design	: B																
Output	25%	50%	75%	100%	Foundation loads												
Efficiency (%)	0.000	85.5	84.4	86.5	85.0	87.5	85.5	Max. traction : 172 lb									
	0.000	82.2		84.7		85.3											
	0.000																
Power Factor	0.00	0.00	0.50	0.58	0.60	0.72	0.70	0.80	Max. compression : 215 lb								
	0.00		0.50		0.64		0.73										
														<u>Non drive end</u>			
Bearing type	:					<u>Drive end</u>				6203 ZZ							
Sealing	:					6205 ZZ				Without Bearing Seal							
Lubrication interval	:					V'Ring				0 h							
Lubricant amount	:					0 h				0 g							
Lubricant type	:					0 g				Mobil Polyrex EM							

Notes:

- (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	Revision
Checked by				1 / 1	
Date	26/03/2024				