

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase  
Product code : 12173193  
Catalog # : 01589EP3QCT284V2F1-W

Frame	: 284T	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 18.2 A	Protection degree	: IP55
L. R. Amperes	: 146 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code J)	Mounting	: F-1
No load current	: 7.75 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1781 rpm	Noise level <sup>2</sup>	: 64.0 dB(A)
Slip	: 1.06 %	Starting method	: Direct On Line
Rated torque	: 44.2 ft.lb	Approx. weight <sup>3</sup>	: 405 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 4.68 sq.ft.lb		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	85.9	69.0	87.5	71.0	88.5	77.0	90.2	79.0	Max. traction	: 57 lb
Power Factor	0.44	0.18	0.71	0.35	0.80	0.42	0.84	0.52	Max. compression	: 462 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 2RS C3	6211 2RS C3
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		Page 1 / 2 Revision		
Checked by				
Date	28/03/2024			

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

### Space heater information

Voltage: 110-127/200-240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page		Revision
Checked by					
Date	28/03/2024				