

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase
Product code : 12176480
Catalog # : 02589EP3HCT286VF1-W2

Frame	: 284/6T	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 24.1 A	Protection degree	: IP55
L. R. Amperes	: 205 A	Cooling method	: IC411 - TEFC
LRC	: 8.5x(Code K)	Mounting	: F-1
No load current	: 10.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 64.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 73.8 ft.lb	Approx. weight ³	: 468 lb
Locked rotor torque	: 300 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 5.85 sq.ft.lb		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	88.2	81.3	88.5	82.5	91.7	85.5	91.7	86.5	Max. traction	: 89 lb
Power Factor	0.43	0.23	0.68	0.40	0.80	0.52	0.84	0.60	Max. compression	: 557 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			

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Customer :

Space heater information

Voltage: 110-127/200-240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date	28/03/2024				