

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase Product code : 12172470
Catalog # : 00289EP3PCT145VF1-W2

Frame	: 143/5T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 2.2 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1590 sq.ft.lb

Output [HP]		2	0.5
Poles		4	8
Frequency [Hz]		60	60
Rated voltage [V]		200	200
Rated current [A]		6.40	2.88
L. R. Amperes [A]		51.2	10.4
LRC [A]		8.0x(Code K)	3.6x(Code J)
No load current [A]		3.68	2.42
Rated speed [RPM]		1720	840
Slip [%]		4.44	6.67
Rated torque [ft.lb]		6.02	3.08
Locked rotor torque [%]		270	180
Breakdown torque [%]		300	229
Service factor		1.25	1.25
Temperature rise		80 K	80 K
Locked rotor time		10s (cold) 6s (hot)	50s (cold) 28s (hot)
Noise level ²		51.0 dB(A)	47.0 dB(A)
Efficiency (%)	25%	75.7	53.0
	50%	77.0	55.0
	75%	81.5	62.0
	100%	82.5	64.0
Power Factor	25%	0.35	0.21
	50%	0.60	0.37
	75%	0.73	0.48
	100%	0.82	0.58

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6205 2RS	6204 2RS	Max. traction	: 60 lb
Sealing	: V'Ring	V'Ring	Max. compression	: 62 lb
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	18/01/2018			

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Revision

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Space heater information

Voltage: 200 - 240 V

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