DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Cooling Tower High Efficiency Three-Phase	Product code :	12175289
		Catalog # :	05089EP3QCT365V2-W22

Frame	: 364/5T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-2
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[3]	: 2.2 lb
Protection degree	: IP55	Moment of inertia (J)	: 23.3 sq.ft.lb

Output [HP]		50	12.5
Poles		4	8
Frequency [Hz]		60	60
Rated voltage [V]		460	460
Rated current [A]		57.0	21.6
L. R. Amperes [A]		456	108
LRC [A]		8.0x(Code J)	5.0x(Code H)
No load current [A]		20.0	12.5
Rated speed [RPM]		1780	890
Slip [%]		1.11	1.11
Rated torque [ft.lb]		146	72.8
Locked rotor torque [%]		200	170
Breakdown torque [%]		260	180
Service factor		1.25	1.25
Temperature rise		80 K	80 K
Locked rotor time		14s (cold) 8s (hot)	19s (cold) 11s (hot)
Noise level[2]		70.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%	90.9	80.4
	50%	91.5	81.0
	75%	92.0	81.5
	100%	92.5	82.0
Power Factor	25%	0.48	0.25
	50%	0.74	0.44
	75%	0.83	0.56
	100%	0.88	0.65

		Drive end	Non drive end
Bearing type	:	6314 2RS C3	6314 2RS C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	POLYREA ESTER OIL (WT/ ENS)	

Foundation loads

Max. traction : 447 lb

Max. compression : 449 lb

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.

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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