DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 Cooling Tower NEMA

Premium Efficiency Three-Phase

Product code: 11972911

05018ET3ECT326T-W22 Catalog #:

: F-2

: Both (CW and CCW)

: Direct On Line

Frame : 324/6T Cooling method : IC411 - TEFC Mounting

Insulation class Duty cycle : Cont.(S1)

: -20°C to +40°C Ambient temperature : 1000 m.a.s.l. Altitude

Starting method Approx. weight³

Rotation¹

: 604 lb

: IP55 Protection degree Moment of inertia (J) : 9.16 sq.ft.lb

Design Design	е	: IP55 : B		Momer	it of inertia (J)		.16 sq.π.lb	
Output [HP]		50	40	40	40	50	50	50
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		208-230/460	380	400	415	380	400	415
Rated current [A]		131-118/59.2	58.7	57.1	56.4	71.1	68.4	66.3
L. R. Amperes [A]			376	400	417	370	397	411
LRC [A]		6.2x(Code G)	6.4x(Code G)	7.0x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code G)
No load current [A]	40.5-47.0/23.5	25.7	28.1	30.2	25.7	28.1	30.2
Rated speed [RPN	/ []	1775	1470	1475	1475	1465	1470	1470
Slip [%]		1.39	2.00	1.67	1.67	2.33	2.00	2.00
Rated torque [ft.lb]		146	141	140	140	177	176	176
Locked rotor torque [%]		229	229	250	260	180	200	210
Breakdown torque [%]		270	260	300	330	210	240	260
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	Temperature rise		80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	Locked rotor time		19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)
		15s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)
Noise level ²		66.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%	92.5	91.9	90.6	90.7	92.8	92.2	91.8
Efficiency (%)	50%	93.0	92.5	91.5	91.5	93.0	92.4	92.4
	75%	94.1	93.1	92.8	93.0	93.0	93.0	93.0
	100%	94.5	93.6	93.6	93.6	93.0	93.0	93.5
Power Factor	25%	0.42	0.40	0.36	0.33	0.47	0.43	0.40
	50%	0.66	0.64	0.60	0.57	0.72	0.68	0.65
	75%	0.77	0.77	0.73	0.70	0.81	0.79	0.76
	100%	0.83	0.83	0.81	0.79	0.85	0.84	0.83

Drive end Bearing type

Non drive end 6212

Foundation loads Max. traction

Sealing

6312 2RS C3 2RS C3 V'Ring V'Ring

Max. compression : 2084 lb

Lubrication interval

Lubricant amount Mobil Polyrex EM Lubricant type

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.

: 1480 lb

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Three Phase Induction Motor - Squirrel Cage				<u> </u>		
Customer	:					
		Space heater inf	ormation			
Voltage: 110-127	7/200-240 V	Space neater init	omation			
Rev.		Changes Summary	Performed	Checked	Date	
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23/01/2018

Date