

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower NEMA  
Premium Efficiency Three-Phase

Product code : 12469156

Catalog # : 07518AT3ECT365T-W22

Frame	: 364/5T	Cooling method	: IC410 - TEAO
Insulation class	: F	Mounting	: F-2
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 906 lb
Protection degree	: IP55	Moment of inertia (J)	: 23.3 sq.ft.lb
Design	: B		

Output [HP]	75	60	60	60	75	75	75
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]	186-168/84.1	86.4	82.9	80.7	103	97.0	94.2
L. R. Amperes [A]	1190-1076/538	605	622	646	525	543	575
LRC [A]	6.4x(Code G)	7.0x(Code H)	7.5x(Code J)	8.0x(Code J)	5.1x(Code E)	5.6x(Code F)	6.1x(Code F)
No load current [A]	51.7-60.0/30.0	29.5	31.5	33.4	29.5	31.5	33.4
Rated speed [RPM]	1775	1475	1480	1480	1465	1470	1475
Slip [%]	1.39	1.67	1.33	1.33	2.33	2.00	1.67
Rated torque [ft.lb]	219	211	210	210	265	264	263
Locked rotor torque [%]	240	240	270	300	190	210	229
Breakdown torque [%]	260	250	280	310	200	229	250
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	25s (cold) 14s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level <sup>2</sup>	67.0 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)
Efficiency (%)	25%	94.0	93.5	93.3	93.0	94.8	94.7
	50%	94.5	93.7	93.6	93.5	94.5	94.5
	75%	95.0	94.2	94.2	94.2	94.1	94.5
	100%	95.4	94.2	94.4	94.6	93.6	94.1
Power Factor	25%	0.48	0.43	0.41	0.39	0.54	0.50
	50%	0.73	0.65	0.64	0.62	0.78	0.75
	75%	0.82	0.78	0.77	0.76	0.85	0.83
	100%	0.86	0.84	0.83	0.82	0.87	0.87

Bearing type	Drive end	Non drive end	Foundation loads
	6314	6314	
Sealing	2RS C3	2RS C3	Max. traction : 1832 lb
	WSeal	WSeal	
Lubrication interval	-	-	Max. compression : 2738 lb
Lubricant amount	-	-	
Lubricant type	POLYREA ESTER OIL (WT/ ENS)		

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	23/01/2018			

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Revision

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Customer :

### Space heater information

Voltage: 110-127/200-240 V

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Performed by			Page 2 / 2		Revision
Checked by					
Date	23/01/2018				