## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 Cooling Tower NEMA

: B

51.7-60.0/30.0

0.74

0.83

0.86

Premium Efficiency Three-Phase

29.7

Product code: 11976619

Catalog #: 07512ET3ECT405T-W22

Frame : 404/5T Cooling method : IC411 - TEFC

Insulation class Duty cycle : Cont.(S1)

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

: IP55

Mounting : F-2

Rotation<sup>1</sup> : Both (CW and CCW) Starting method : Direct On Line

29.7

0.79

0.86

0.87

31.8

0.76

0.84

0.87

: 2059 lb

33.5

0.74

0.83

0.86

Approx. weight3 : 1218 lb : 40.2 sq.ft.lb Moment of inertia (J)

Output [HP] 75 50 50 50 75 75 Poles 6 6 6 6 6 6 6 50 50 50 50 50 Frequency [Hz] 60 50 Rated voltage [V] 208-230/460 400 380 400 415 380 415 Rated current [A] 188-170/84.9 104 70.9 69.0 68.1 98.1 95.7 L. R. Amperes [A] 202-1087/543 510 510 545 579 540 574 6.4x(Code | 7.2x(Code H) | 7.9x(Code J) | 8.5x(Code K) | 4.9x(Code D) | 5.5x(Code E) | 6.0x(Code F) LRC [A] G)

31.8

33.5

Rated speed [RPM] 1180 980 985 970 975 985 975 3.00 Slip [%] 1.67 2.00 1.50 1.50 2.50 2.50 Rated torque [ft.lb] 329 264 263 263 401 399 399 Locked rotor torque [%] 200 229 260 290 150 170 190 Breakdown torque [%] 229 270 300 330 180 200 220 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 105 K Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 25s (cold) Locked rotor time 30s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 17s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) Noise level<sup>2</sup> 68.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 25% 93.9 89.0 90.0 89.9 91.4 92.0 92.0 50% 94.1 90.6 91.1 91.0 91.8 92.4 92.4 Efficiency (%) 75% 94.5 91.7 92.3 92.3 92.2 92.8 92.8 100% 94.5 93.3 93.3 93.3 92.4 93.0 93.0 25% 0.49 0.42 0.38 0.36 0.55 0.51 0.49

0.62

0.75

0.83

100% Drive end Bearing type 6316

50%

75%

Non drive end 6314

0.66

0.79

0.85

Foundation loads Max. traction

Sealing

Power Factor

Design

No load current [A]

2RS C3 2RS C3 **WSeal** WSeal

Max. compression

0.60

0.74

0.81

Lubrication interval Lubricant amount Lubricant type

POLYREA ESTER OIL (WT/ENS)

: 3277 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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## DATA SHEET

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Three Pha	se Induction	<u> </u>			
Customer	:				
		Space heater inf	ormation		
Voltage: 110-127	7/200-240 V	Space neater init	omation		
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23/01/2018

Date