## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer : Dealers Industrial Equipment 800-469-3110

Customer reference : 10018OP3HFP404TC-W40

Product line : W40 High Efficiency Three-Phase Product code : 14282265

Catalog #: 10018OP3HFP404TC-

W40

Frame : 404/5TC Locked rotor time : 25s (cold) 14s (hot)

Output: 100 HP (75 kW)Temperature rise: 80 KPoles: 4Duty cycle: Cont.(S1)Frequency: 60 HzAmbient temperature: -20°C to +40°CRated voltage: 575 VAltitude: 1000 m.a.s.l.

Rated current : 92.8 A Protection degree : IP23
L. R. Amperes : 575 A Cooling method : IC01 - ODP
LRC : 6.2x(Code G) Mounting : F-1

No load current : 30.8 A Rotation<sup>1</sup> : Both (CW and CCW)
Rated speed : 1775 rpm Starting method : Direct On Line

Slip : 1.39 % Approx. weight<sup>3</sup> : 858 lb

Rated torque : 292 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.15

Moment of inertia (J) : 17.5 sq.ft.lb
Design : B

 Output
 25%
 50%
 75%
 100%
 Foundation loads

 Efficiency (%)
 93.5
 93.6
 94.1
 94.1
 Max. traction
 : 1789 lb

Power Factor 0.50 0.76 0.84 0.86 Max. compression : 2647 lb

Lubrication interval : 20000 h 20000 h Lubricant amount : 34 g 13 g

Lubricant type : Mobil Polyrex EM

#### Notes

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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				Page	Revision
Date	14/04/2019			1/2	

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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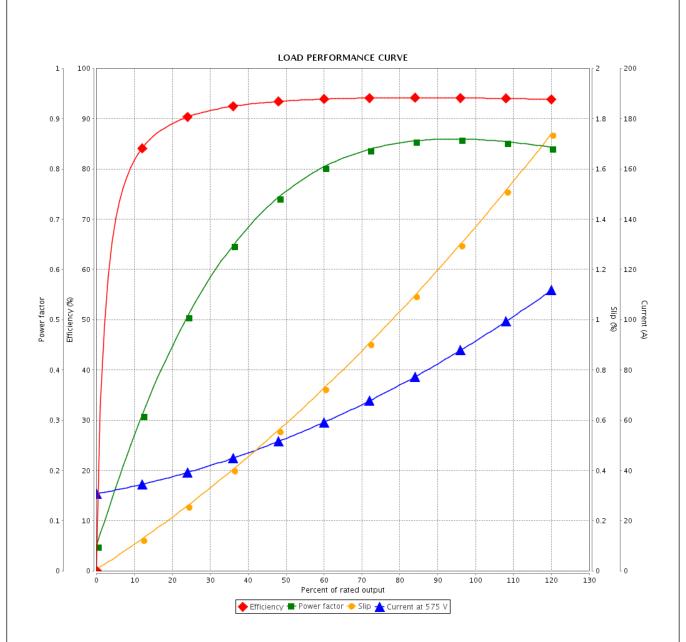
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W40

2/2



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 92.8 A : 6.2 : 292 ft.lb : 220 % : 250 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 17.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rated speed	: 1775 rpm				
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

14/04/2019

Date

