### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272520 Three-Phase Catalog #: 07518OT3H365TC-W40 Frame : 364/5TC Locked rotor time : 25s (cold) 14s (hot) Output : 75 HP (55 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 68.4 A Protection degree : IP23 L. R. Amperes : 465 A Cooling method : IC01 - ODP LRC : 6.8x(Code G) Mounting : F-1 No load current : 24.4 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1780 rpm Noise level<sup>2</sup> : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 221 ft.lb Approx. weight<sup>3</sup> : 795 lb Locked rotor torque : 220 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 16.8 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.0 Efficiency (%) 94.4 94.5 95.0 Max. traction : 1574 lb Power Factor 0.48 0.85 0.73 0.82 Max. compression : 2369 lb Non drive end Drive end

Bearing type : 6314 C3 6212 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h
Lubricant amount : 27 g 13 g

Lubricant amount : 27 g 13

Lubricant type : Mobil Polyrex EM

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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### TORQUE AND CURRENT VS SPEED CURVE

### Three Phase Induction Motor - Squirrel Cage

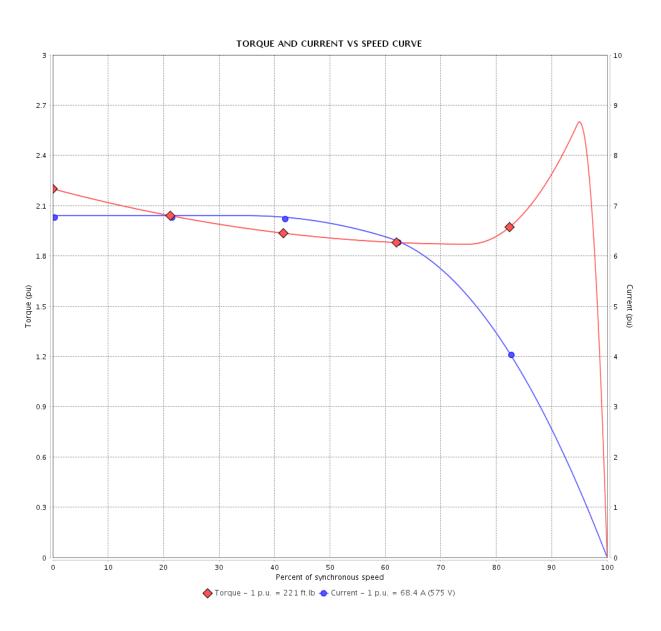


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272520

Three-Phase

Catalog #: 07518OT3H365TC-W40



Performance	: 575 V 60 Hz 4P		
Rated current	: 68.4 A	Moment of inertia (J)	: 16.8 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 221 ft.lb	Insulation class	: F ` ´
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B
Locked rotor time	· 25s (cold) 14s (hot)		

Locked rotor time : 25s (cold) 14s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

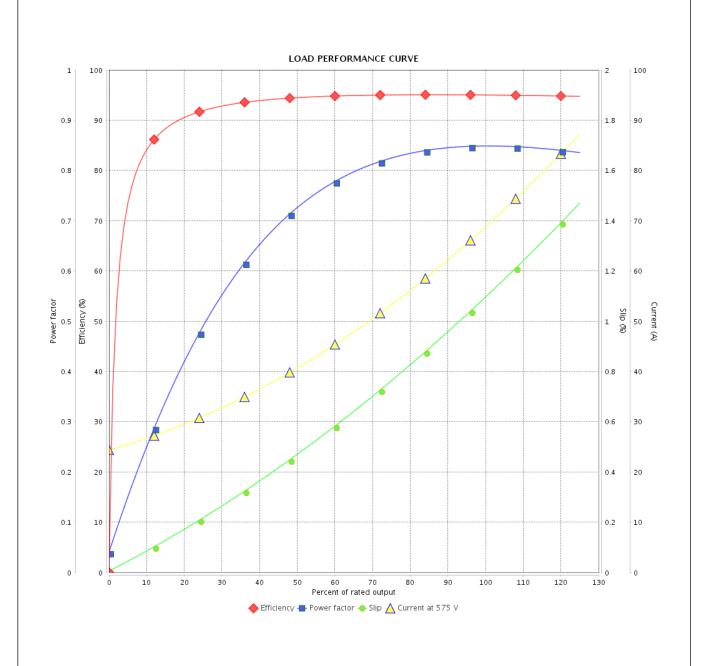


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14272520

Three-Phase

Catalog #: 07518OT3H365TC-W40



Performance	: 5	575 V 60 Hz 4P				
LRC : 6.		88.4 A	Moment o	Moment of inertia (J)		
		.8 Duty cycle 21 ft.lb Insulation clas		)	: Cont.(S1)	
				class : F		
Locked rotor torque :		220 %	Service fa	Service factor		
Breakdown torque		: 260 % Tempera		ıre rise	: 80 K	
Rated speed	: 1	1780 rpm Design			: B	
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Checked by					Page	Revision
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



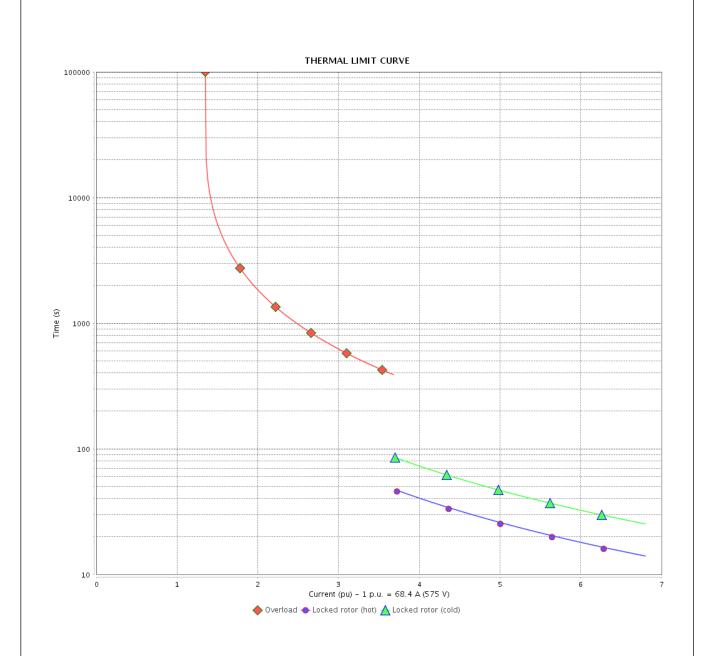
Customer	:				
Product line	: W40 NEMA Premium Efficio	ency	Product code :	14272520	
	Three-Phase	(	Catalog # :	07518OT3H3	865TC-W40
Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 68.4 A : 6.8 : 221 ft.lb : 220 % : 260 % : 1780 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 16.8 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	•				
Cooling constant					
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

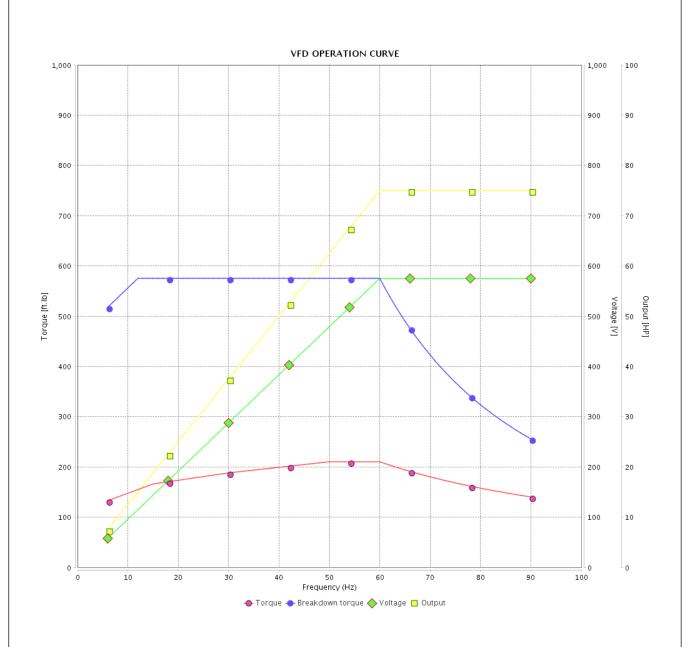
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272520

Catalog #: 07518OT3H365TC-W40

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: 575 V 60 Hz 4P : 68.4 A	Moment of inertia (J)	40.0 6.11	
: 6.8 : 221 ft.lb : 220 % : 260 % : 1780 rpm	Duty cycle Insulation class Service factor Temperature rise Design	: 16.8 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Changes Summary	Performed	Checked	Date
			Revision
	: 221 ft.lb : 220 % : 260 % : 1780 rpm	: 221 ft.lb Insulation class : 220 % Service factor : 260 % Temperature rise : 1780 rpm Design	: 221 ft.lb       Insulation class       : F         : 220 %       Service factor       : 1.25         : 260 %       Temperature rise       : 80 K         : 1780 rpm       Design       : B

13/04/2022

Date

