DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272899 Three-Phase Catalog #: 05012OT3E365T-W40G Frame : 364/5T Locked rotor time : 27s (cold) 15s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 116/58.1 A Protection degree : IP23 L. R. Amperes : 779/389 A Cooling method : IC01 - ODP LRC : 6.7x(Code G) Mounting : F-1 No load current : 40.8/20.4 A Rotation¹ : Both (CW and CCW) Rated speed : 1185 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 222 ft.lb Approx. weight³ : 820 lb Locked rotor torque : 220 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 23.9 sq.ft.lb Design : B

Foundation loads

Max. compression

Max. traction

Drive end
Bearing typeDrive end
6314 C3Non drive end
6212 Z C3Sealing: Without Bearing Seal
Lubrication interval
Lubricant amount: 20000 hWithout Bearing Seal
20000 h

100%

94.1

0.85

Lubricant amount : 27 g
Lubricant type : Mobil Polyrex EM

75%

94.1

0.82

Notes

Output

Efficiency (%)

Power Factor

USABLE @208V 128A SF 1.15 SFA 148A

25%

93.5

0.48

50%

93.6

0.74

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.

: 1709 lb

: 2529 lb

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



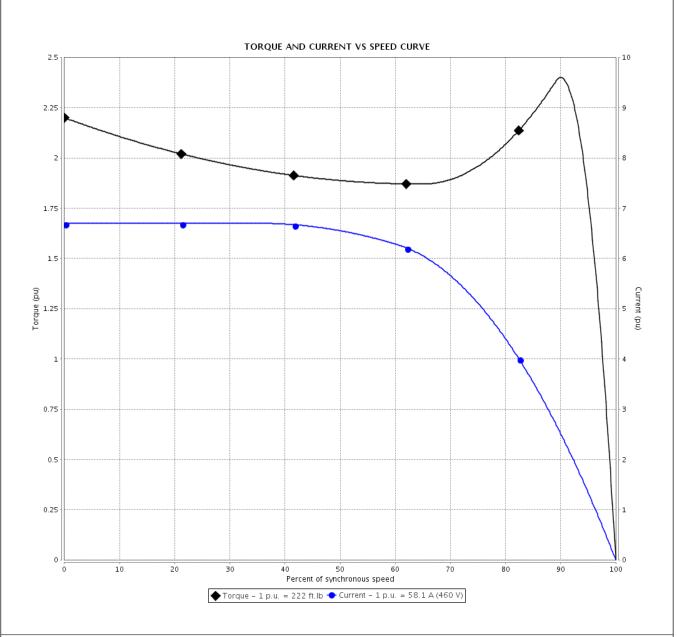
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272899

Catalog #: 05012OT3E365T-W40G



: 230/460 V 60 Hz 6P Performance Rated current : 116/58.1 A Moment of inertia (J) : 23.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 222 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

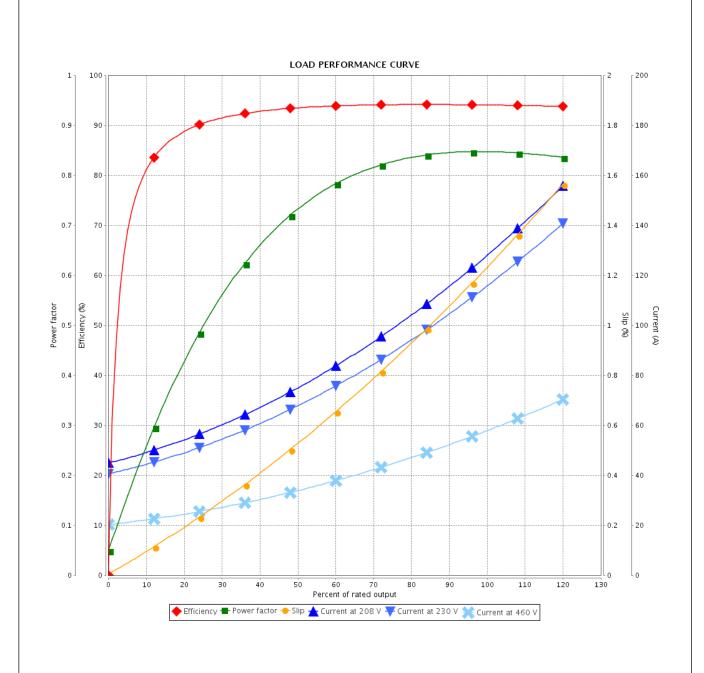


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272899

Three-Phase

Catalog #: 05012OT3E365T-W40G



Performance	: 2	: 230/460 V 60 Hz 6P						
Rated current	: .	116/58.1 A Moment of inertia (J)		f inertia (J)	: 23.9 sq.ft.lb			
LRC		6.7	Duty cycle	Duty cycle				
Rated torque		222 ft.lb	Insulation class		:F			
Locked rotor torque	e : 2	220 %	Service factor		: 1.25			
Breakdown torque	: 2	240 %	Temperature rise		: 80 K			
Rated speed	: '	: 1185 rpm			: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



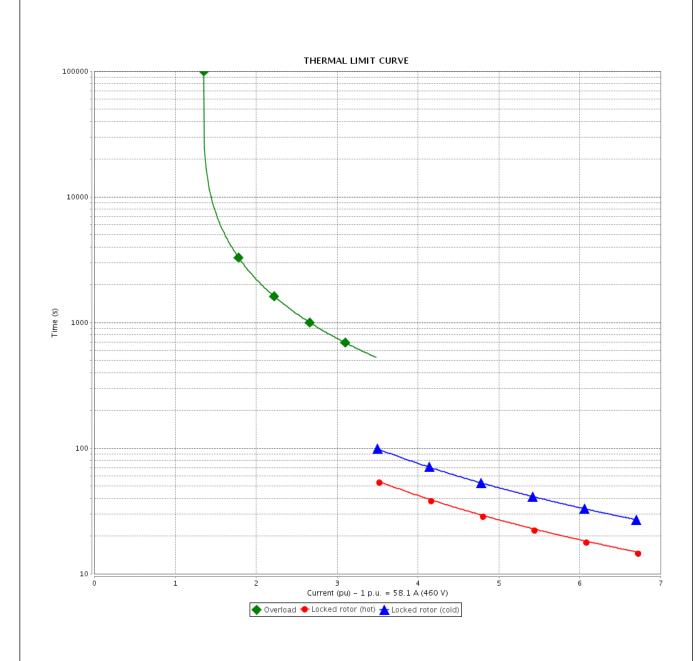
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Product line		N40 NEMA Premium Efficionree-Phase	ency I	Product code :	14272899	
			(Catalog # :	05012OT3E3	65T-W40G
Performance	: 23	30/460 V 60 Hz 6P				
Rated current LRC	: 6.		Moment of Duty cycle		: 23.9 sq.ft.lb : Cont.(S1)	
Rated torque		22 ft.lb	Insulation	class	: F	
Locked rotor torque		20 % 40 %	Service factoring factoring Service factoring Se		: 1.25 : 80 K	
Breakdown torque Rated speed		85 rpm	Design	ile IISE	: 80 K : B	
Heating constant						
Cooling constant		Changes Cummani		Dorformad	Chaakad	Data
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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 :

Checked by

Date

10/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

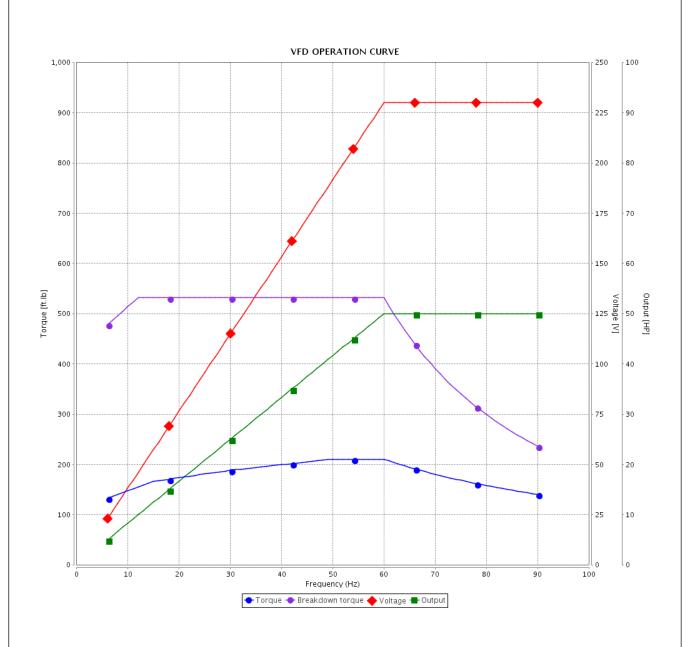
Product code: 14272899

Catalog #: 05012OT3E365T-W40G

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Revision



Performance	: 230/460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 116/58.1 A : 6.7 : 222 ft.lb : 220 % : 240 % : 1185 rpm	: 6.7 Duty cycle : 222 ft.lb Insulation cl : 220 % Service fact : 240 % Temperature		: Cont.(S1) class : F actor : 1.25		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						

