DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14367636 Three-Phase Catalog #: 05018OT3E326T-W40 Frame : 324/6T Locked rotor time : 19s (cold) 11s (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 : 117/58.5 A Protection degree : IP23 L. R. Amperes : 737/369 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 46.4/23.2 A Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Noise level² : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight³ : 512 lb

Moment of inertia (J) : 7.08 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 94.0 Efficiency (%) 94.1 94.5 94.5 Max. traction Power Factor 0.80 0.44 0.70 0.84 Max. compression

Drive end
Bearing typeDrive end
6312 Z C3Non drive end
6211 Z C3Sealing: Without Bearing Seal
Lubrication interval
Lubricant amount: 20000 hWithout Bearing Seal
20000 h

Lubricant type : Mobil Polyrex EM

: 240 % : 240 %

: F

: 1.25

Notes

Locked rotor torque

Breakdown torque Insulation class

Service factor

USABLE @208V 129A SF 1.15 SFA 149A

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



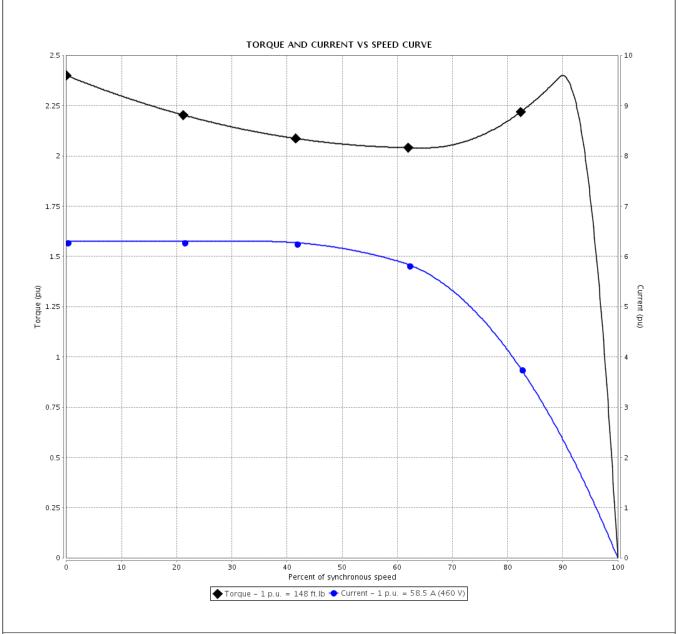
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14367636

Catalog #: 05018OT3E326T-W40



: 230/460 V 60 Hz 4P Performance Rated current : 117/58.5 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



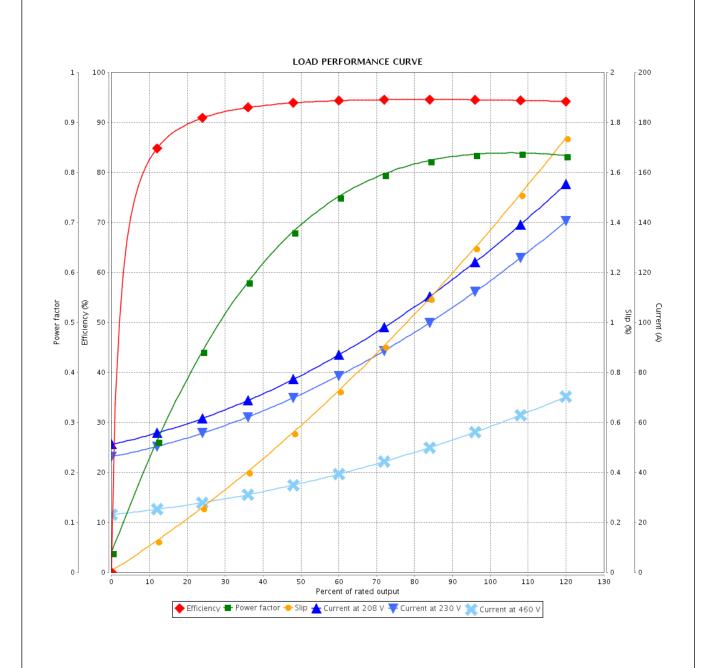
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 14367636

Catalog #: 05018OT3E326T-W40



Performance		: 230/460 V 60 Hz 4P						
Rated current		17/58.5 A	Moment o	Moment of inertia (J)				
LRC :		3	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque		48 ft.lb	Insulation class		: F			
Locked rotor torque		40 %	Service fa	Service factor				
Breakdown torqu	e : 24	: 240 % Te : 1775 rpm De		ıre rise	: 80 K			
Rated speed	: 13				: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



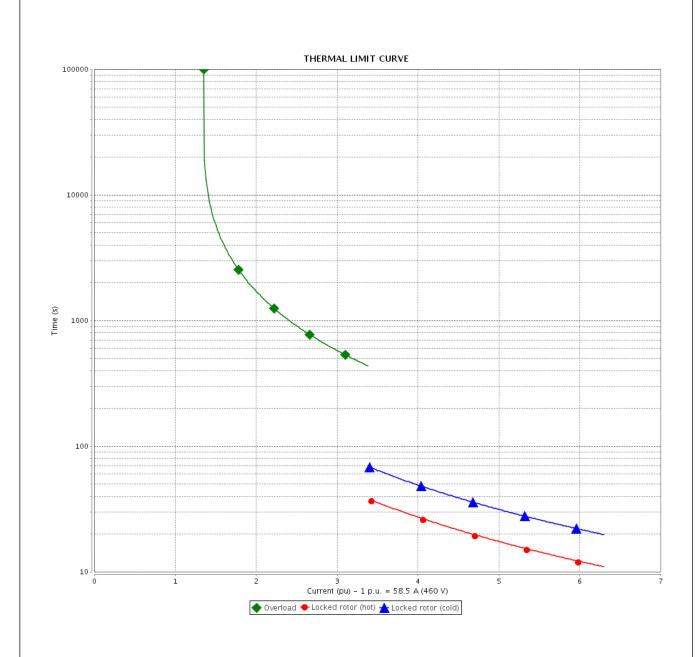
Customer	:				_	
Product line		N40 NEMA Premium Efficionree-Phase		Product code :	14367636	26T-W40
				Catalog # :	05018OT3E3:	201-VV4U
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torque Rated speed	: 11 : 6. : 14 ue : 24 e : 24 : 17	30/460 V 60 Hz 4P 17/58.5 A 3 48 ft.lb 40 % 40 % 775 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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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

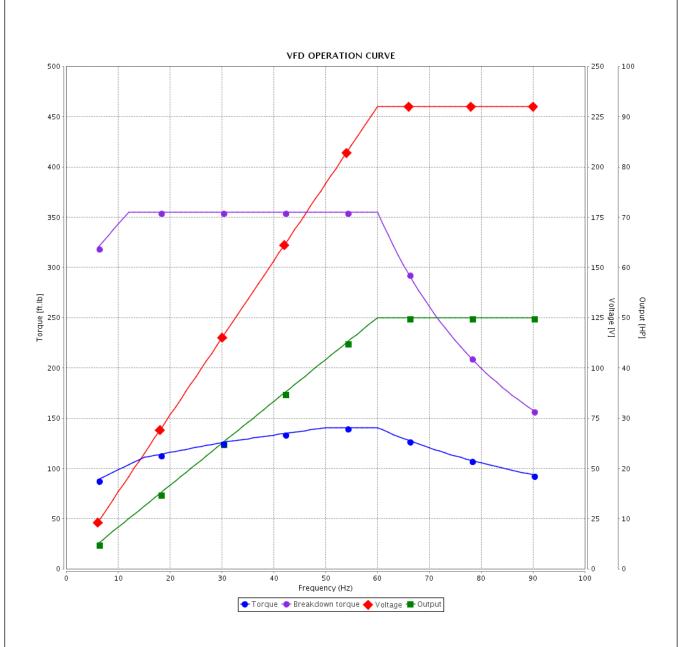
Product code: 14367636

Catalog #: 05018OT3E326T-W40

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Revision



Performance		: 230/460 V 60 Hz	: 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 117/58.5 A Moment of inertia (J) : 6.3 Duty cycle : 148 ft.lb Insulation class : 240 % Service factor : 240 % Temperature rise : 1775 rpm Design		class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Sum	mary	Performed	Checked	Date
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Performed by						

