DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14285128 Three-Phase 06018OT3E364T-W40G Catalog #: Frame : 364/5T Locked rotor time : 34s (cold) 19s (hot) Output : 60 HP (45 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 : 140/69.9 A Protection degree : IP23 L. R. Amperes : 909/454 A Cooling method : IC01 - ODP : 6.5x(Code G) LRC Mounting : F-1 No load current : 49.4/24.7 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 177 ft.lb Approx. weight³ : 745 lb Locked rotor torque : 200 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 15.6 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.0 Efficiency (%) 94.4 94.5 95.0 Max. traction : 1264 lb Power Factor : 2008 lb 0.48 0.73 0.82 0.85 Max. compression

Drive end
Bearing typeNon drive end
6314 C3Non drive end
6212 Z C3SealingWithout Bearing Seal
Lubrication intervalWithout Bearing Seal
20000 hWithout Bearing Seal

Lubricant amount : 27 g 13 g

Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 155A SF 1.15 SFA 178A

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



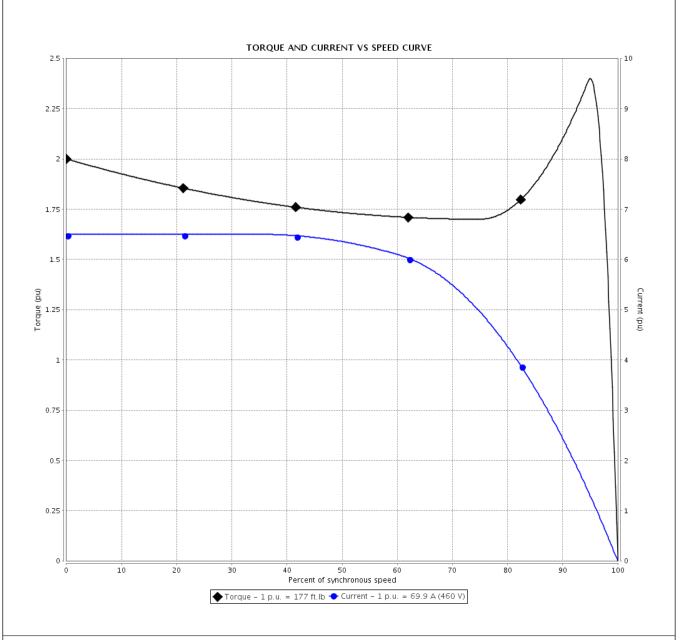
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285128

Catalog #: 06018OT3E364T-W40G



: 230/460 V 60 Hz 4P Performance Rated current : 140/69.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

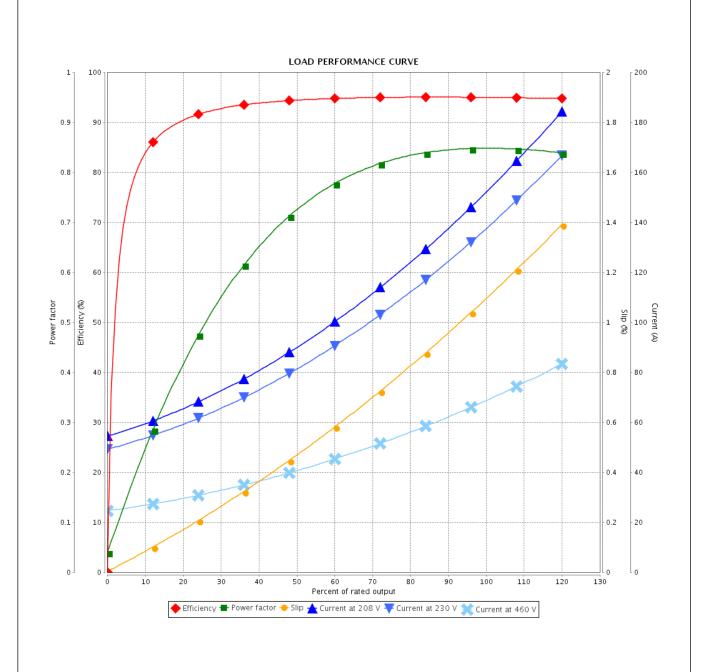


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14285128

Three-Phase

Catalog #: 06018OT3E364T-W40G



Performance		: 230/460 V 60 Hz 4P						
Rated current :		40/69.9 A	Moment o	Moment of inertia (J)				
LRC : 6.5		.5	Duty cycle	Duty cycle				
Rated torque :		77 ft.lb	Insulation	Insulation class				
Locked rotor torqu	ie : 20	00 %	Service fa	Service factor				
Breakdown torque	: 24	40 %	Temperati	Temperature rise				
Rated speed	: 1	780 rpm Design		: B				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



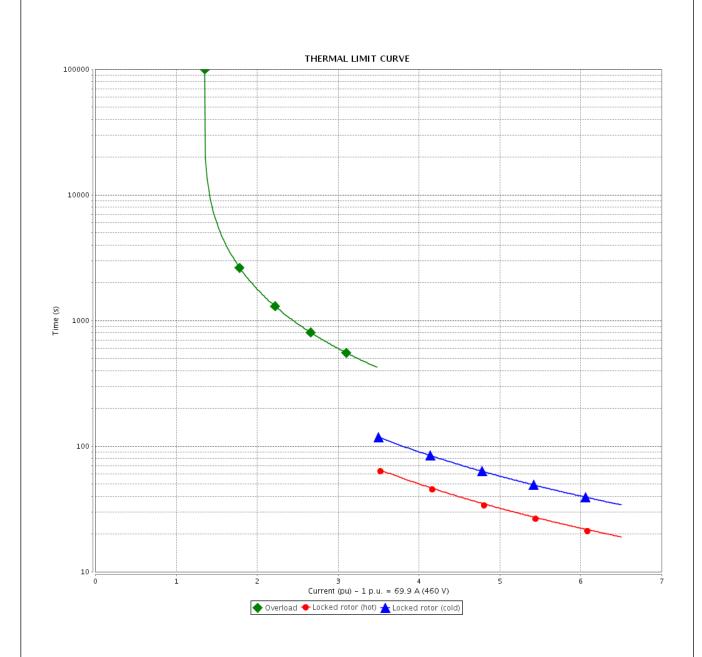
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Product line		: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14285128	
				Catalog # :	06018OT3E3	64T-W40G
Performance		230/460 V 60 Hz 4P				
Rated current		140/69.9 A	Moment o	of inertia (J)	: 15.6 sq.ft.lb	
LRC	:	6.5	Duty cycle	ภ เกษาแล (J <i>)</i> อ	: Cont.(S1)	
Rated torque	:	177 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		200 % 240 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		1780 rpm	Design	uic IISC	: 80 K	
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 :

Checked by

Date

10/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

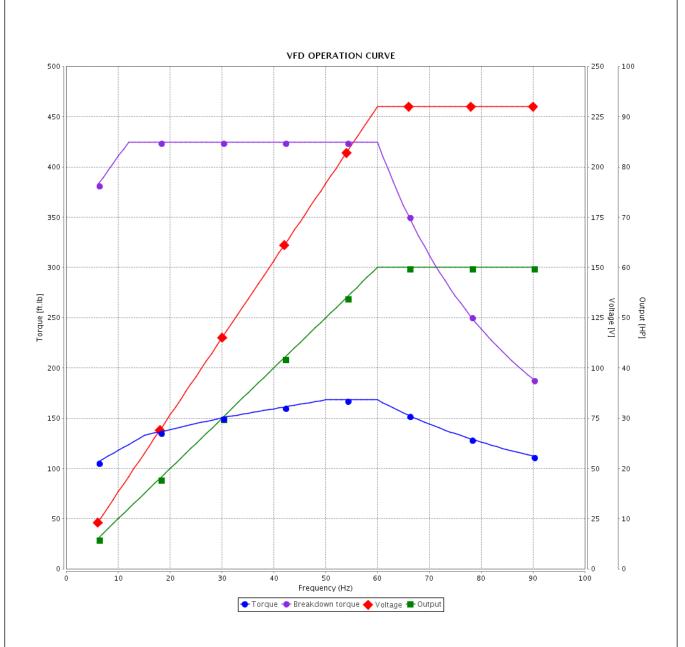
Product code: 14285128

Catalog #: 06018OT3E364T-W40G

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Revision



Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2	40/69.9 A .5 77 ft.lb 00 % 40 % 780 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 15.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		<u>'</u>	Performed	Checked	Date
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