DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14270885 Three-Phase Catalog #: 06018OT3E364TS-W40 Frame : 364/5TS 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 : 741 lb Locked rotor torque : 200 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 15.6 sq.ft.lb

Drive end
Bearing typeNon drive end
6314 C3Sealing: 6314 C36212 Z C3Ubrication interval: Without Bearing Seal
20000 hWithout Bearing Seal
20000 h

100%

95.0

0.85

Foundation loads

Max. compression

Max. traction

Lubricant amount : 27 g 13 g

75%

95.0

0.82

Lubricant type : Mobil Polyrex EM

: B

50%

94.5

0.73

Notes

Design

Output

Efficiency (%)

Power Factor

USABLE @208V 155A SF 1.15 SFA 178A

25%

94.4

0.48

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.

: 1266 lb

: 2006 lb

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



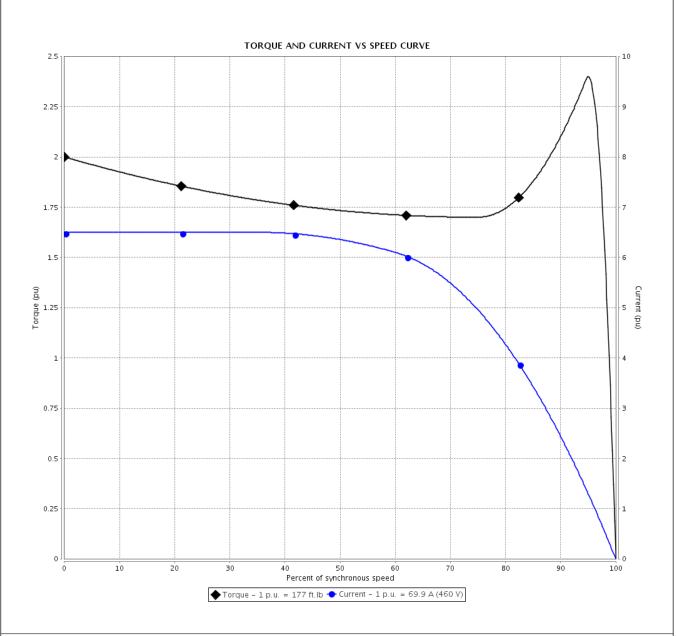
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270885

Catalog #: 06018OT3E364TS-W40



: 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

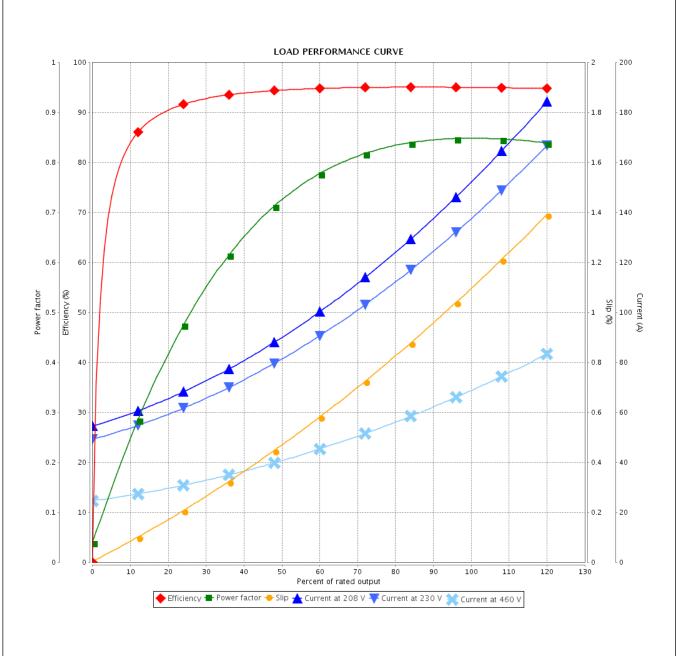


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14270885

Three-Phase

Catalog #: 06018OT3E364TS-W40



Performance	. 2	30/460 V 60 Hz 4P				
					. 45.0 6 -	
Rated current		40/69.9 A Moment of inertia (J)		: 15.6 sq.ft.lb		
LRC		S.5 Duty cycle		: Cont.(S1)		
Rated torque		77 ft.lb	ft.lb Insulation class		: F	
Locked rotor torque	e : 2	200 %	Service factor		: 1.25	
Breakdown torque		: 240 % Tem		ıre rise	: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



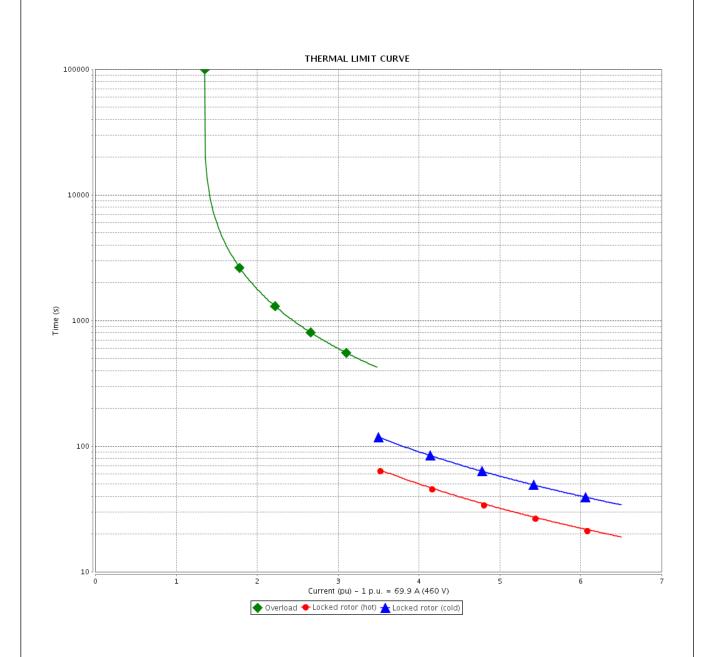
Customer	:	:					
Product line		: W40 NEMA Premium Efficie	anov.	Product code :	14270885		
Product line	=	. W40 NEWA FIEITIUM EMCR Three-Phase			14270000		
				Catalog # :	06018OT3E3	64TS-W40	
Performance	: 2	230/460 V 60 Hz 4P					
Rated current		140/69.9 A	Moment of	of inertia (J)	: 15.6 sq.ft.lb		
LRC Rated torque		6.5 177 ft.lb	Duty cycle Insulation		: Cont.(S1) : F		
Locked rotor tord	que : 2	200 %	Service fa	actor	: 1.25		
Breakdown torque Rated speed		240 % 1780 rpm	Temperat Design	ure rise	: 80 K : B		
			200911				
Heating constan Cooling constan							
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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 :

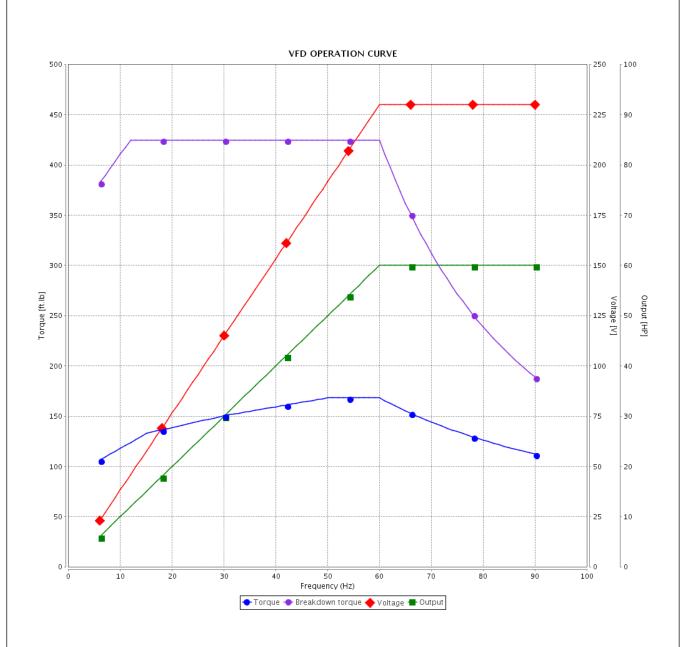
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270885

Catalog #: 06018OT3E364TS-W40

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

10/04/2020

Date

