DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272522 Three-Phase Catalog #: 07536OT3E364TSC-W40 Frame : 364/5TSC Locked rotor time : 34s (cold) 19s (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 : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 170/84.8 A Protection degree : IP23 L. R. Amperes : 1119/560 A Cooling method : IC01 - ODP LRC : 6.6x(Code G) Mounting : F-1 No load current : 43.0/21.5 A Rotation¹ : Both (CW and CCW) Rated speed : 3555 rpm Noise level² : 84.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 111 ft.lb Approx. weight³ : 741 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 6.40 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 93.0 : 649 lb Efficiency (%) 91.7 93.6 Max. traction Power Factor 0.84 : 1390 lb 0.77 0.87 Max. compression

Drive end
Bearing typeNon drive end
6314 C3Non drive end
6212 Z C3SealingWithout Bearing Seal
Lubrication intervalWithout Bearing Seal
14418 hWithout Bearing Seal

Lubricant amount : 27 g 13 g

Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 188A SF 1.15 SFA 216A

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



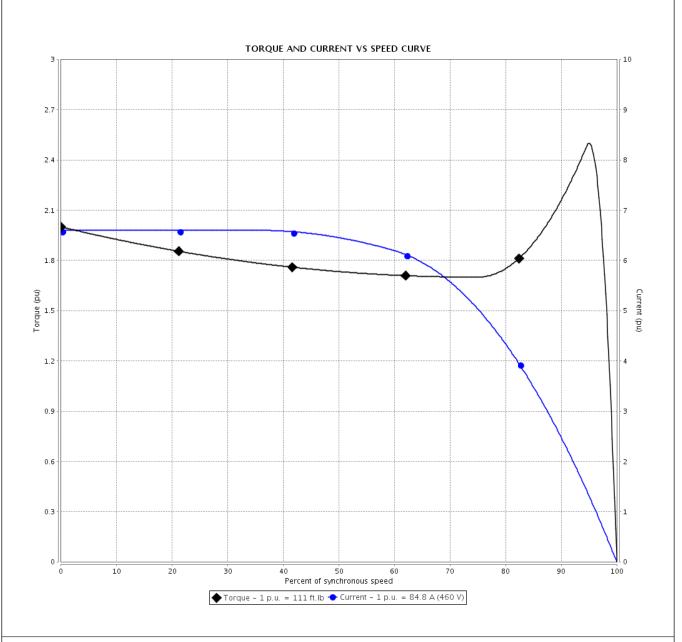
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272522

Catalog #: 07536OT3E364TSC-W40



: 230/460 V 60 Hz 2P Performance Rated current : 170/84.8 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

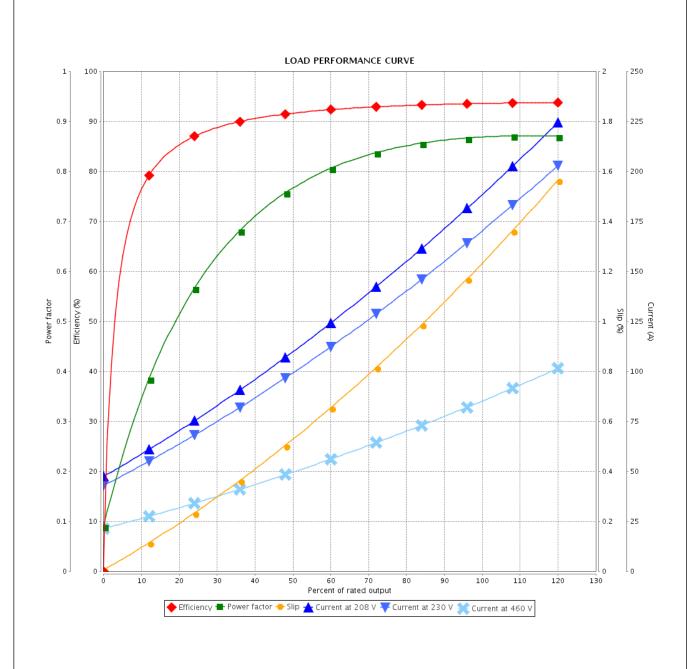


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272522

Three-Phase

Catalog #: 07536OT3E364TSC-W40



Performance	: 2:	: 230/460 V 60 Hz 2P						
Rated current	: 1	70/84.8 A	/84.8 A Moment of inertia (J)		: 6.40 sq.ft.lb			
LRC		.6	Duty cycle	Duty cycle				
Rated torque	: 1	11 ft.lb	Insulation	Insulation class		:F		
Locked rotor torque	e : 20	00 %	Service fa	Service factor		: 1.25		
Breakdown torque	: 2	: 250 % : 3555 rpm		ure rise	: 80 K			
Rated speed	: 3				: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



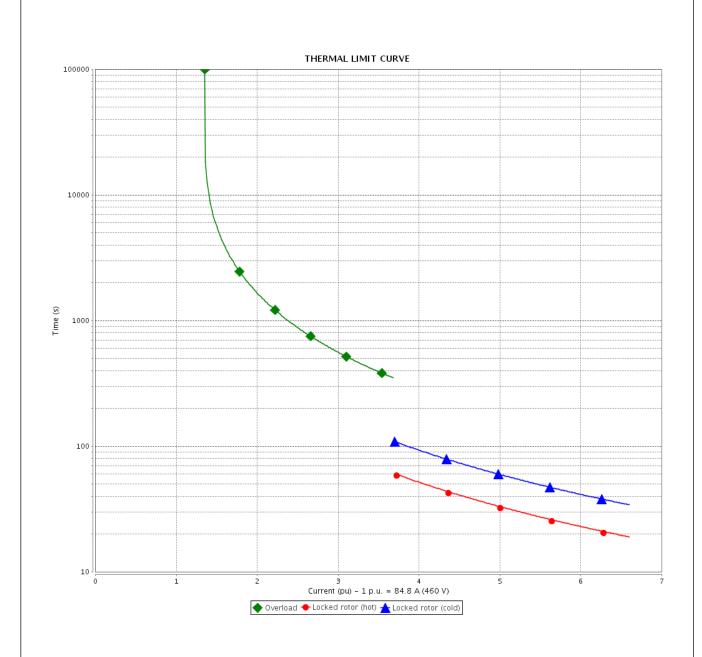
Customer	:				<u>, </u>	
Product line		W40 NEMA Premium Efficie	encv	Product code :	14272522	
		Three-Phase				
				Catalog # :	07536OT3E3	64TSC-W40
Performance	: 2	230/460 V 60 Hz 2P				
Rated current		170/84.8 A	Moment o	f inertia (J)	: 6.40 sq.ft.lb	
LRC	: 6	6.6	Duty cycle	•	: Cont.(S1)	
Rated torque Locked rotor tord		111 ft.lb 200 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		250 %	Temperati		: 80 K	
Rated speed		3555 rpm	Design		: 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 :

Checked by

Date

10/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

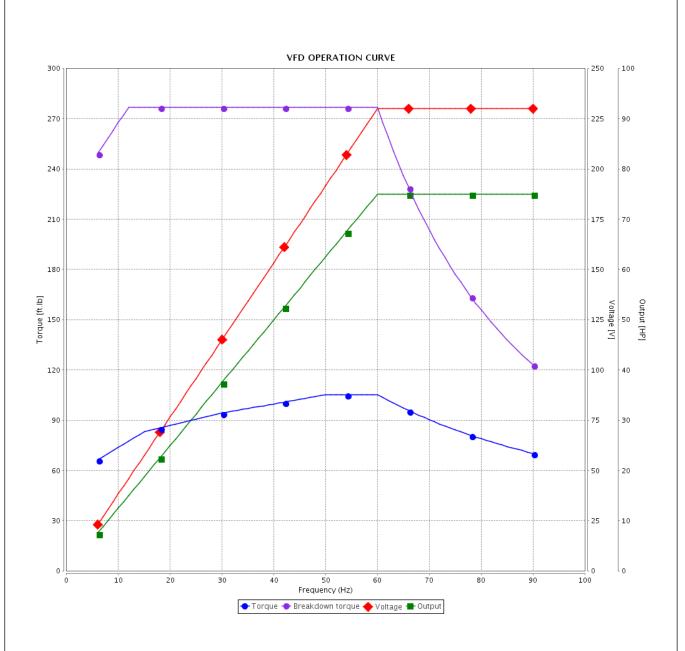
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Catalog #: 07536OT3E364TSC-W40

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Revision



Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2	70/84.8 A .6 11 ft.lb 00 % 50 % 555 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.40 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		·	Performed	Checked	Date
Performed by						

