DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272481 Three-Phase Catalog #: 10036OT3V365TS-W40 Frame : 364/5TS Locked rotor time : 23s (cold) 13s (hot) Output : 100 HP (75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 267/133 A Protection degree : IP23 L. R. Amperes : 1761/880 A Cooling method : IC01 - ODP LRC : 6.6x(Code G) Mounting : F-1 No load current : 67.8/33.9 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 : 148 ft.lb Approx. weight³ : 774 lb Locked rotor torque : 180 % Breakdown torque : 229 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 7.20 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads : 777 lb Efficiency (%) 92.2 92.4 93.6 93.6 Max. traction Power Factor 0.55 0.87 : 1551 lb 0.77 0.84 Max. compression

Drive end
Bearing typeNon drive end
6314 C3Non drive end
6212 Z C3Sealing:Without Bearing Seal
14418 hWithout Bearing Seal
20000 h

Lubricant amount : 27 g 13 g

Lubricant type : Mobil Polyrex EM

Notes

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



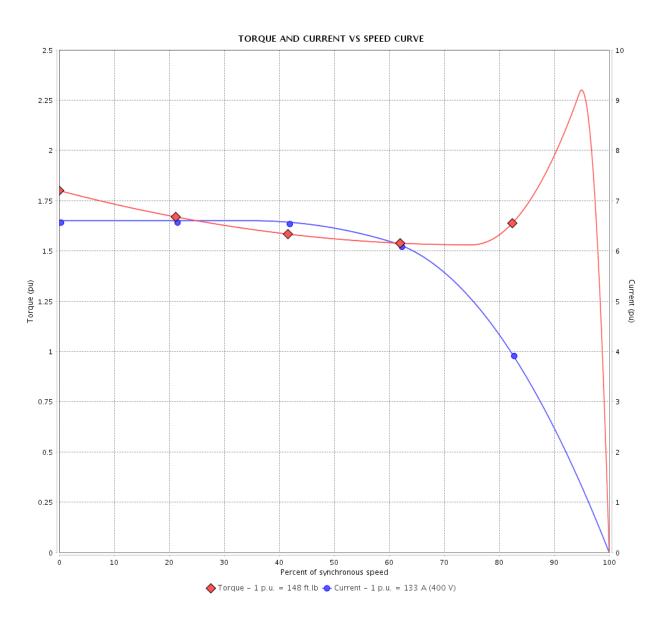
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272481

Catalog #: 10036OT3V365TS-W40



Performance : 200/400 V 60 Hz 2P Rated current : 267/133 A Moment of inertia (J) : 7.20 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Service factor Locked rotor torque : 180 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

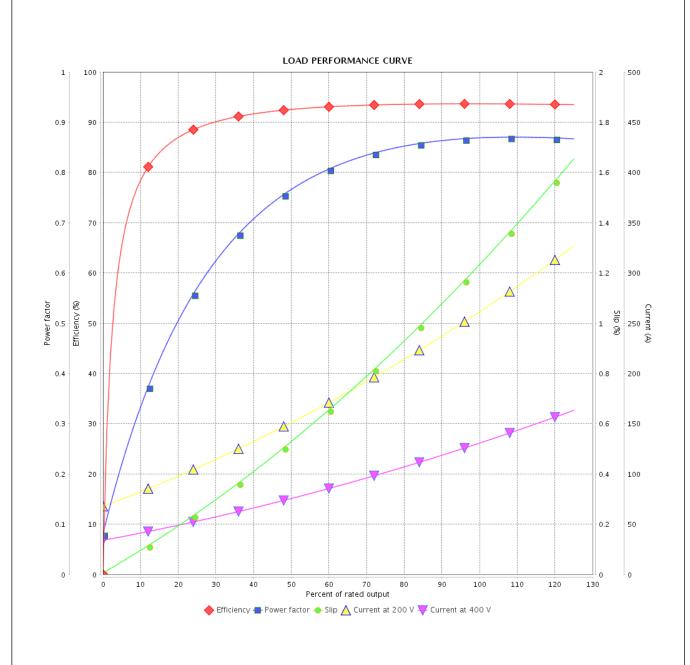


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272481

Three-Phase

Catalog #: 10036OT3V365TS-W40



Performance	: 2	200/400 V 60 Hz 2P					
Rated current		Moment of inertia (J)		: 7.20 sq.ft.lb			
LRC	: 6	3.6	Duty cycle		: Cont.(S1)		
Rated torque	:1	148 ft.lb	Insulation class		: F		
Locked rotor torque :		180 %	Service fa	Service factor		: 1.25	
Breakdown torque	: 2	229 %	Temperati	Temperature rise			
Rated speed	: 3	3555 rpm Design			: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



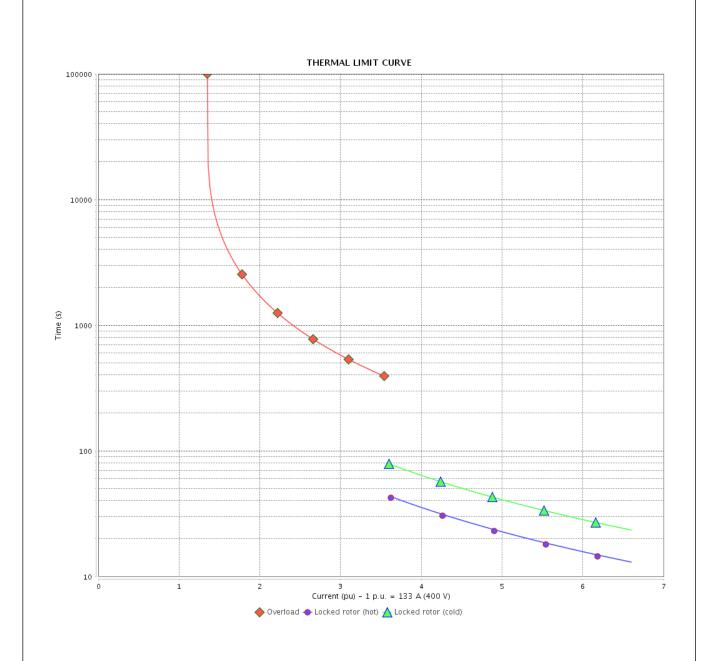
Customer	:					
Product line		W40 NEMA Premium Efficie	encv	Product code :	14272481	
	٦	Three-Phase	•			2570 1440
				Catalog # :	10036OT3V3	551S-W40
Performance	: 2	200/400 V 60 Hz 2P				
Rated current		267/133 A	Moment o	f inertia (J)	: 7.20 sq.ft.lb	
LRC Rated torque		6.6 148 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		180 %	Service fa		: 1.25	
Breakdown torqu	ie : 2	229 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 3 	3555 rpm	Design		: B	
Heating constant						
Cooling constant	<u> </u>					
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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 :

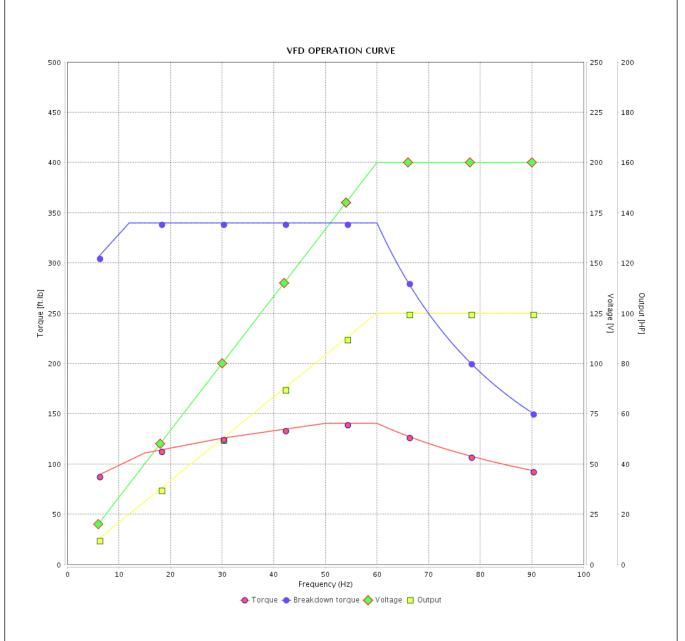
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272481

Catalog #: 10036OT3V365TS-W40

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Performance	: 200/400 V 60 Hz 2P					
Rated current	: 267/133 A	Moment of inertia (J)		: 7.20 sq.ft.lb		
LRC	: 6.6	Duty cycle		: Cont.(S1)		
Rated torque	: 148 ft.lb	Insulation class		: F		
Locked rotor torque	: 180 %	Service factor		: 1.25		
Breakdown torque	: 229 %	Temperature rise		: 80 K		
Rated speed	: 3555 rpm	Design		: B		
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Performed by						
Checked by				Page	Revision	

12/04/2022

Date

