DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14501284 Three-Phase Catalog #: 04036OT3P286TS-W40 Frame : 284/6TS Locked rotor time : 14s (cold) 8s (hot) Output : 40 HP (30 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200 V : 1000 m.a.s.l. Altitude : 108 A Rated current Protection degree : IP23 L. R. Amperes : 700 A Cooling method : IC01 - ODP : 6.5x(Code G) LRC Mounting : F-1 No load current : 34.3 A Rotation¹ : Both (CW and CCW) Rated speed : 3545 rpm Noise level² : 73.0 dB(A) Starting method Slip : 1.53 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight³ : 393 lb Locked rotor torque : 190 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 2.02 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 91.5 91.7 92.4 92.4 Max. traction Power Factor 0.87 0.51 0.76 0.84 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3

Bearing type : 6311 Z C3 6211 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h
Lubricant amount : 18 g 11 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



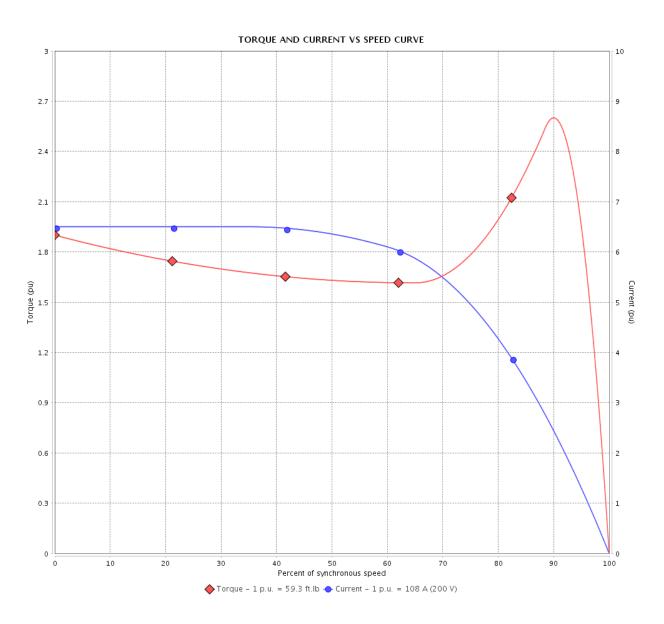
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501284

Catalog #: 04036OT3P286TS-W40



Performance : 200 V 60 Hz 2P Rated current : 108 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 59.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B

Locked rotor time : 14s (cold) 8s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



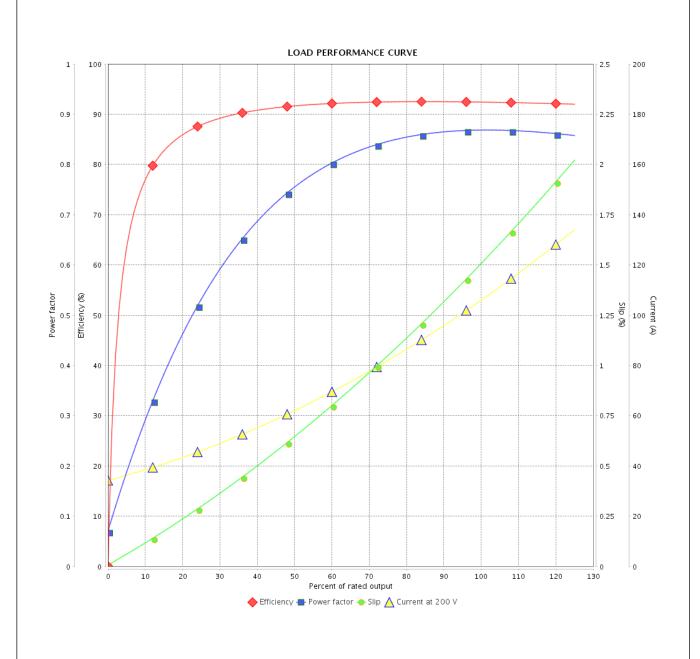
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 04036OT3P286TS-W40

14501284



Performance	: 2	200 V 60 Hz 2P					
Rated current	: ′	08 A Moment of inertia (J)		: 2.02 sq.ft.lb			
LRC		3.5	Duty cycle	Duty cycle			
Rated torque		59.3 ft.lb	Insulation class		: F		
Locked rotor torque		190 %	Service fa	Service factor		: 1.25	
Breakdown torque	: 2	260 %	Temperature rise		: 80 K		
Rated speed	: 3	B545 rpm Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



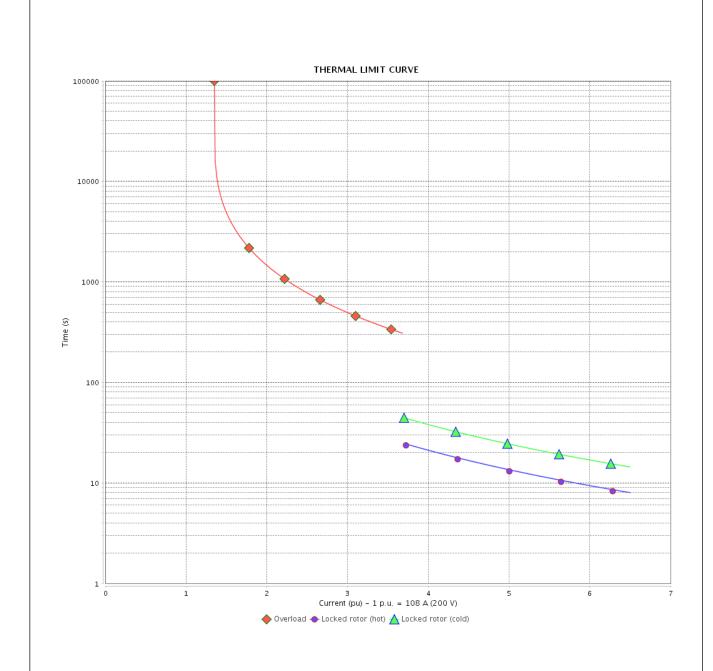
Customer	:					
Product line	.,	: W40 NEMA Premium Efficie		Product code :	14501284	
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				Catalog # :	04036OT3P2	86TS-W40
Performance		00 V 60 Hz 2P	Moment -	f inartia (I)	. 2 02 0~ # 15	
Rated current LRC	: 6		Duty cycle		: 2.02 sq.ft.lb : Cont.(S1)	
Rated torque		9.3 ft.lb	Insulation Service fa	class	: F	
Breakdown torque		: 260 % Temper			: 1.25 : 80 K	
Rated speed	: 3	545 rpm	Design		: B	
Heating constant						
Cooling constant						
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Checked by Date	12/04/2022	_			Page 4 / 6	Revision

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

12/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

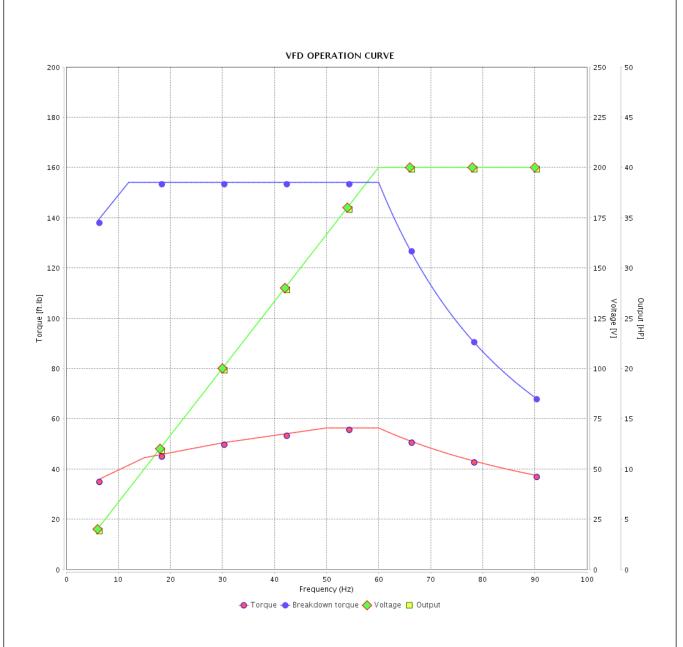
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Revision



Performance	:	200 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: ue : ue :	108 A 6.5 59.3 ft.lb 190 % 260 % 3545 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ector	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

