DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 High Efficiency Three-Phase Product code: 14491995 Catalog #: 04036OP3HFP286TSC-Frame : 284/6TSC Locked rotor time : 18s (cold) 10s (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 : 575 V : 1000 m.a.s.l. Altitude Rated current : 37.8 A Protection degree : IP23 L. R. Amperes : 230 A Cooling method : IC01 - ODP LRC : 6.1x(Code G) Mounting : F-1 No load current : 11.2 A Rotation¹ : Both (CW and CCW) Rated speed : 3535 rpm Starting method : Direct On Line Slip : 1.81 % Approx. weight³ : 341 lb Rated torque : 59.4 ft.lb Locked rotor torque : 170 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.91 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.7 Efficiency (%) 90.8 91.0 91.7 Max. traction

Max. compression

0.87

Lubricant amount : 18 g 11 g

0.86

Lubricant type : Mobil Polyrex EM

0.78

Notes

Power Factor

0.54

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

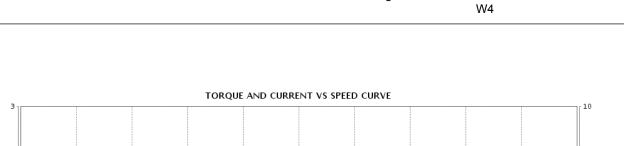
Three Phase Induction Motor - Squirrel Cage

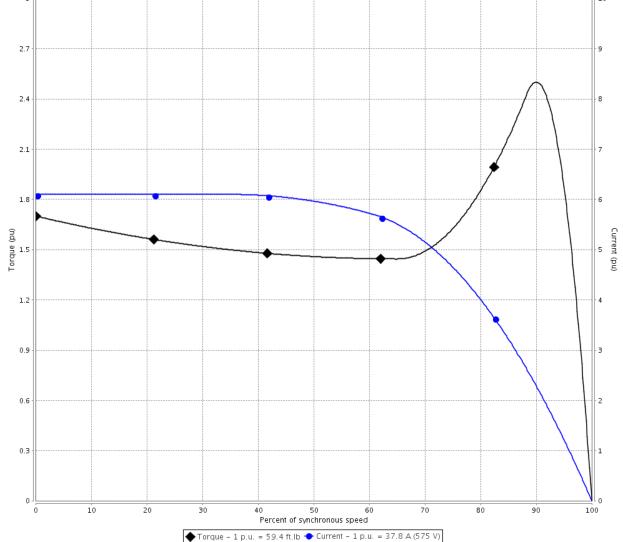


Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14491995

Catalog #: 04036OP3HFP286TSC-





Performance : 575 V 60 Hz 2P Rated current : 37.8 A Moment of inertia (J) : 1.91 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : F : 59.4 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 170 % : 1.15

Breakdown torque : 250 % Temperature rise : 80 K
Rated speed : 3535 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

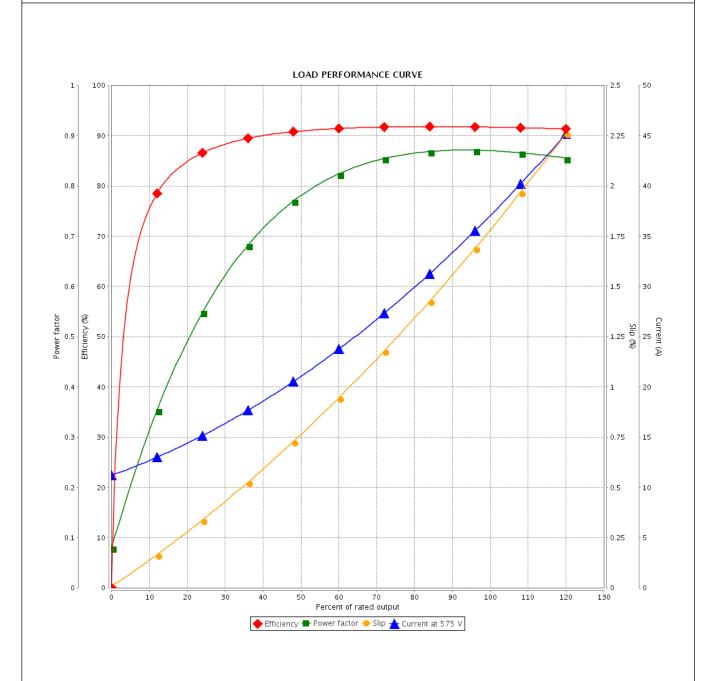


Customer

Product line : W40 High Efficiency Three-Phase Product code : 14491995

Catalog #: 04036OP3HFP286TSC-

W4



Performance		: 575 V 60 Hz 2P					
Rated current	: 3	7.8 A Moment of inertia (J)		: 1.91 sq.ft.lb			
LRC : 6		5.1	Duty cycle	Duty cycle			
Rated torque :		9.4 ft.lb	Insulation	Insulation class			
Locked rotor torque		70 %	Service fa	Service factor		: 1.15	
Breakdown torque	: 2	250 %	Temperati	Temperature rise			
Rated speed	: 3	3535 rpm Design			: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



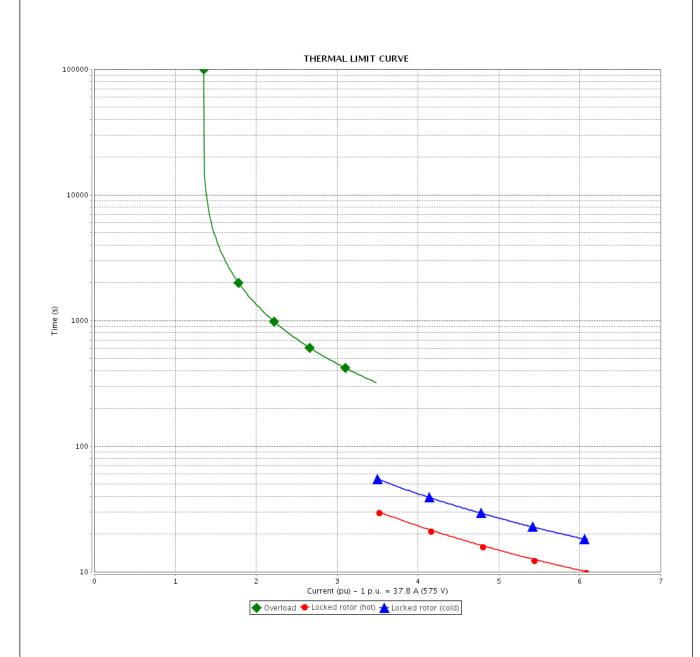
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Customer	:				
Product line	: W40 High Efficiency Tl	hree-Phase	Product code : Catalog # :	14491995 04036OP3F W4	IFP286TSC-
Performance	: 575 V 60 Hz 2P				
Rated current	: 37.8 A	Momen	t of inertia (J)	: 1.91 sq.ft.lb	
LRC	: 6.1	Duty cy	cle	: Cont.(S1)	
Rated torque Locked rotor torque	: 59.4 ft.lb : 170 %	Insulation Service		: F : 1.15	
Breakdown torque	: 250 %	Temper	ature rise	: 80 K	
Rated speed	: 3535 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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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 :

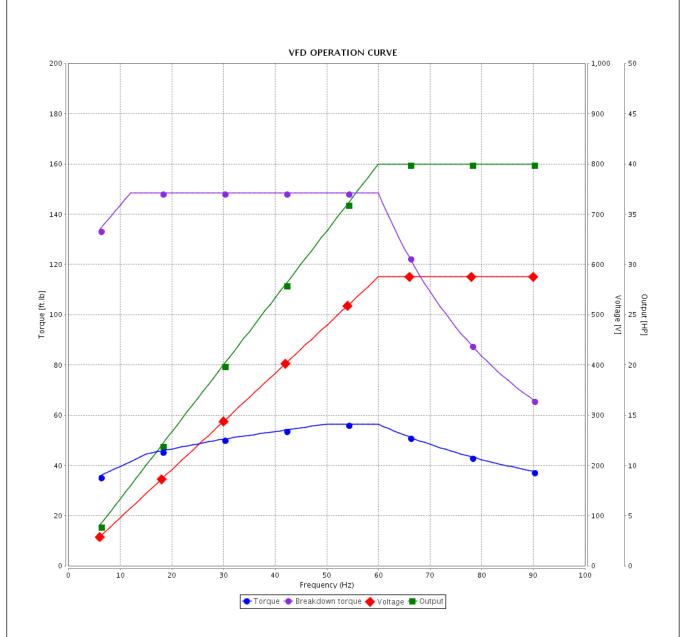
Product line : W40 High Efficiency Three-Phase Product code : 14491995

Catalog # : 0403

04036OP3HFP286TSC-

W4

6/6



Performance	: 575 V 60 Hz 2P				
Rated current	: 37.8 A	Moment of inertia (J)		: 1.91 sq.ft.lb	
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque	: 59.4 ft.lb	Insulation class		: F	
Locked rotor torque	: 170 %	Service factor		: 1.15	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 3535 rpm	Design	: B		
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Date

