### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14495935 Three-Phase Catalog #: 03036OT3H284TS-W40 Frame : 284TS Locked rotor time : 18s (cold) 10s (hot) Output : 30 HP (22 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 : 28.0 A Protection degree : IP23 L. R. Amperes : 176 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 10.3 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3550 rpm Noise level<sup>2</sup> : 73.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 44.4 ft.lb Approx. weight<sup>3</sup> : 302 lb Locked rotor torque : 180 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.59 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 90.0 91.7 Efficiency (%) 90.2 91.7 Max. traction Power Factor 0.47 0.73 0.82 0.86 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3 Sealing

Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 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



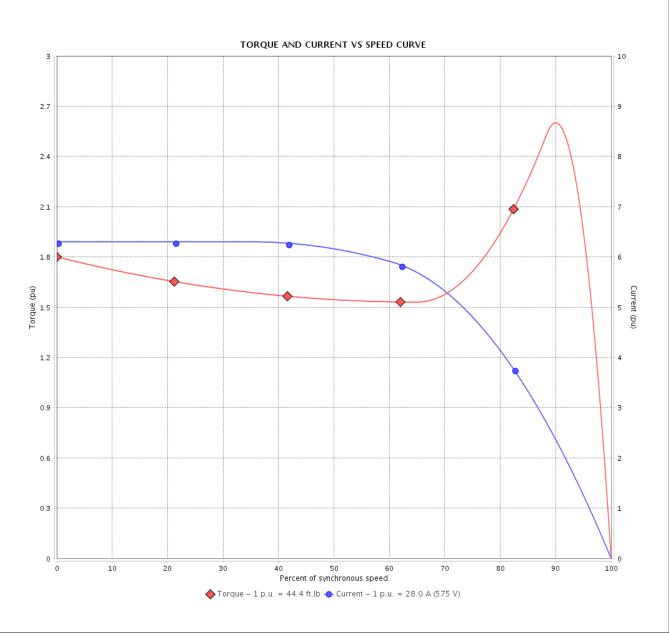
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495935

Catalog #: 03036OT3H284TS-W40



Performance : 575 V 60 Hz 2P Rated current : 28.0 A Moment of inertia (J) : 1.59 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 44.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B

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

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



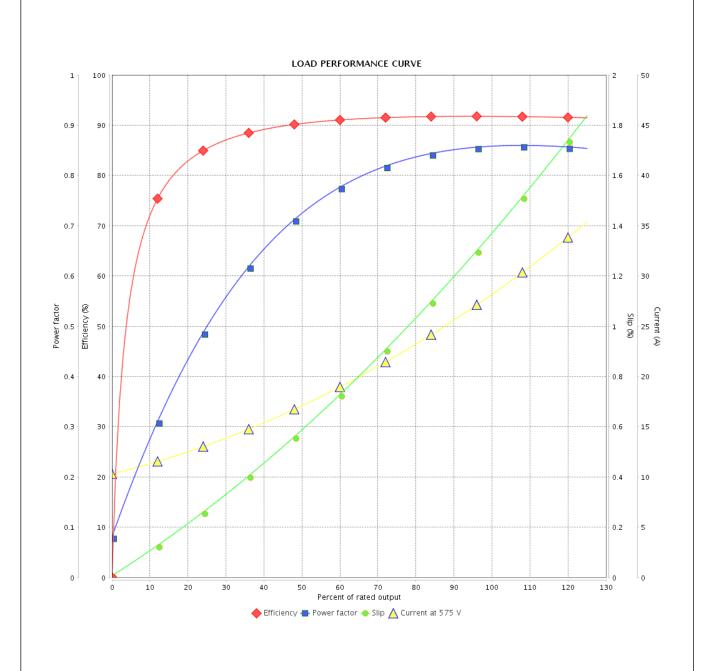
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14495935

Three-Phase

Catalog #: 03036OT3H284TS-W40

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Rated current LRC Rated torque	: 28.0 A : 6.3 : 44.4 ft.lb	Moment of ir	nertia (J)	: 1.59 sq.ft.lb : Cont.(S1)	
				: Cont.(S1)	
Rated torque	: 44.4 ft.lb	Inculation of		( )	
		Insulation class		: F	
Locked rotor torque	: 180 %	Service factor		: 1.25	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 3550 rpm Design			: B	
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



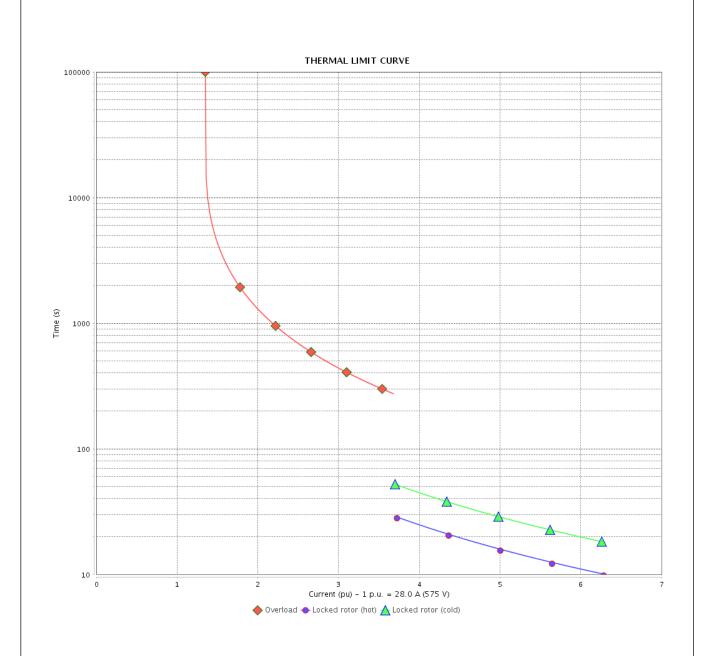
Customer	:				
Product line	: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14495935 03036OT3H2	84TS-W40
Performance	: 575 V 60 Hz 2P				
Rated current LRC	: 28.0 A : 6.3	Moment o	f inertia (J)	: 1.59 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 44.4 ft.lb : 180 %	Insulation Service fa	class	: F : 1.25	
Breakdown torque Rated speed	: 260 % : 3550 rpm	Temperatu Design		: 80 K : B	
Heating constant		= -0.3			
Cooling constant			1	T	
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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 :

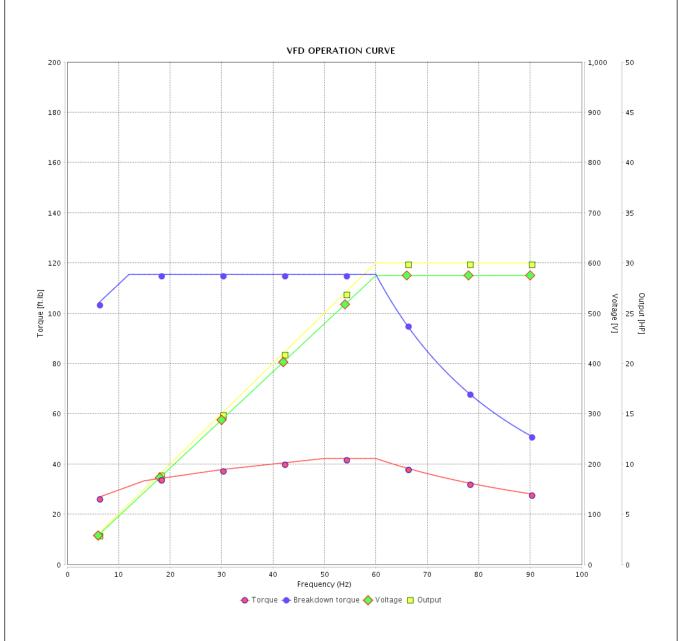
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495935

Catalog #: 03036OT3H284TS-W40

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Performance	: 575 V 60 Hz 2P				
Rated current	: 28.0 A	Moment of inertia (J)		: 1.59 sq.ft.lb	
LRC	: 6.3	Duty cycle		: Cont.(S1)	
Rated torque	: 44.4 ft.lb	Insulation class		: F	
Locked rotor torque	: 180 %	Service factor		: 1.25	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 3550 rpm	Design		: B	
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