DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14496678 Three-Phase Catalog #: 03036OT3H284TSC-W40 Frame : 284TSC 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 Rotation¹ : Both (CW and CCW) Rated speed : 3550 rpm Noise level² : 73.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 44.4 ft.lb Approx. weight³ : 310 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
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



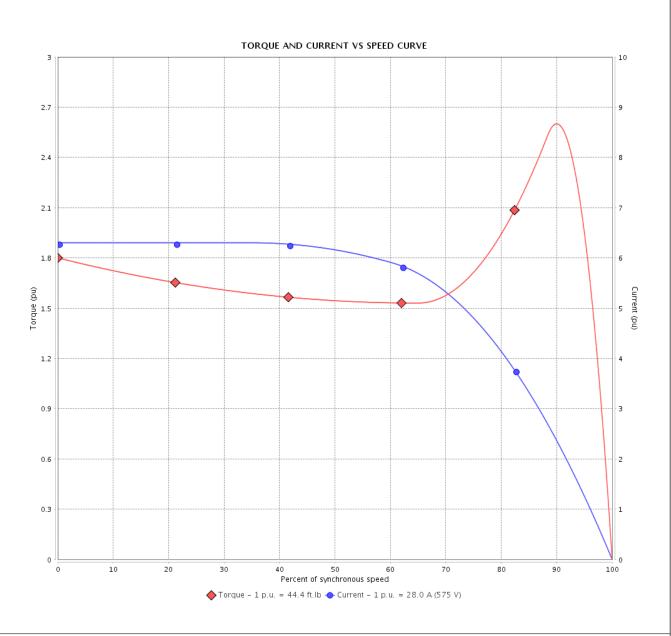
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496678

Catalog #: 03036OT3H284TSC-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 Service factor Locked rotor torque : 180 % : 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



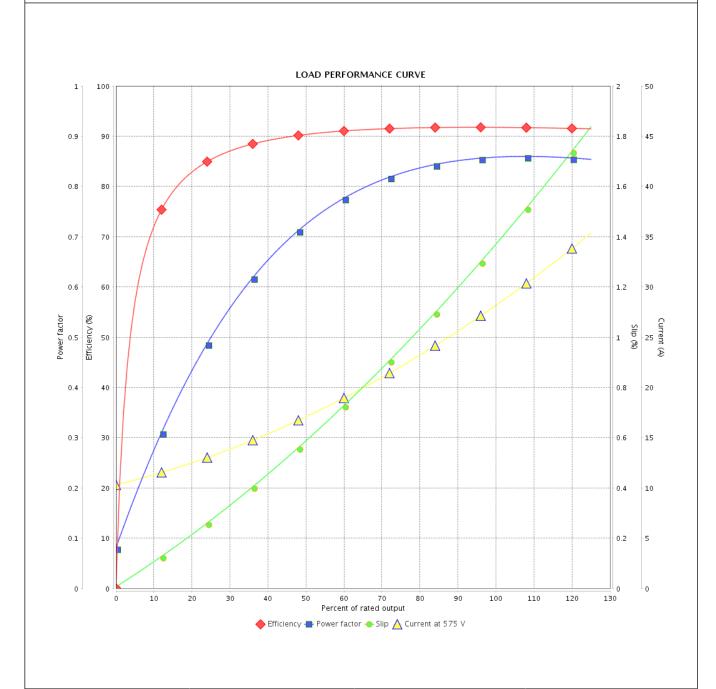
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog # : 03036OT3H284TSC-W40

14496678



Performance	: 5	75 V 60 Hz 2P			•		
Rated current		3.0 A	Moment o	Moment of inertia (J)			
LRC		3		Duty cycle			
_		4.4 ft.lb	Insulation class		: Cont.(S1) : F		
Locked rotor torque		30 %	Service fa	Service factor		: 1.25	
Breakdown torqu		60 %	Temperati	Temperature rise			
Rated speed	: 38	550 rpm	Design	Design			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



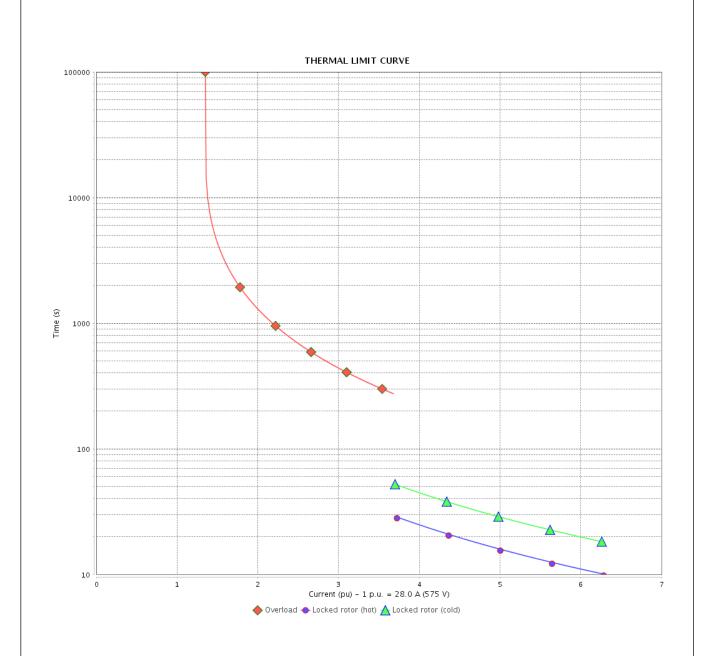
Customer	:						
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code :	14496678		
	11	nree-Pnase	Catalog # :		03036OT3H284TSC-W40		
Performance	: 57	75 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 6. : 44 que : 18 ue : 26	4.4 ft.lb 80 % 60 %	Moment of Duty cycle Insulation Service fac Temperatu	class ctor	: 1.59 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K		
Rated speed	: 38	550 rpm	Design		: B		
Heating constan							
Cooling constant	<u>t</u>	Oh	Г	David 1	Ol- I	D :	
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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

14/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

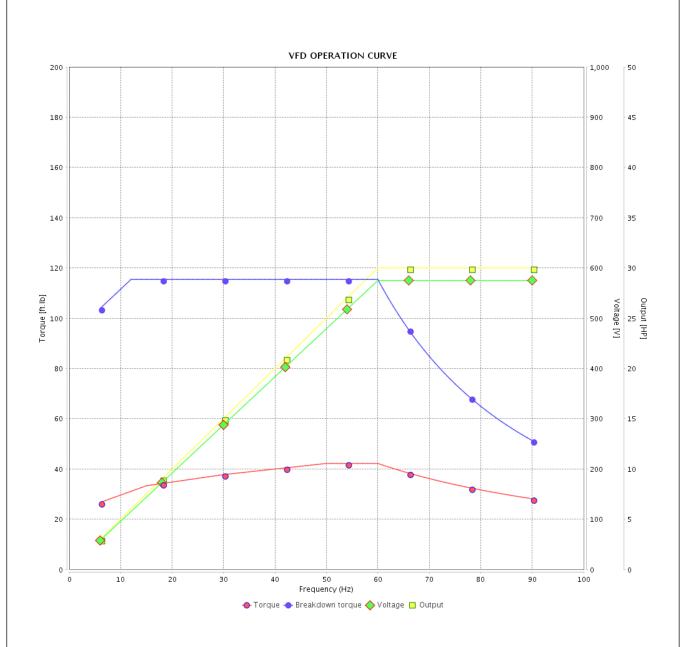
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Revision



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Performance		: 575 V 60 Hz 2I	7				
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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