DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14501153 Three-Phase Catalog #: 03018OT3P286T-W40 Frame : 284/6T Locked rotor time : 32s (cold) 18s (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 : 200 V : 1000 m.a.s.l. Altitude Rated current : 80.3 A Protection degree : IP23 L. R. Amperes : 530 A Cooling method : IC01 - ODP LRC : 6.6x(Code G) Mounting : F-1 No load current : 31.1 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 89.0 ft.lb Approx. weight³ : 397 lb Locked rotor torque : 280 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.52 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 93.4 93.6 94.1 94.1 Max. traction Power Factor 0.80 0.84 0.45 0.70 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 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



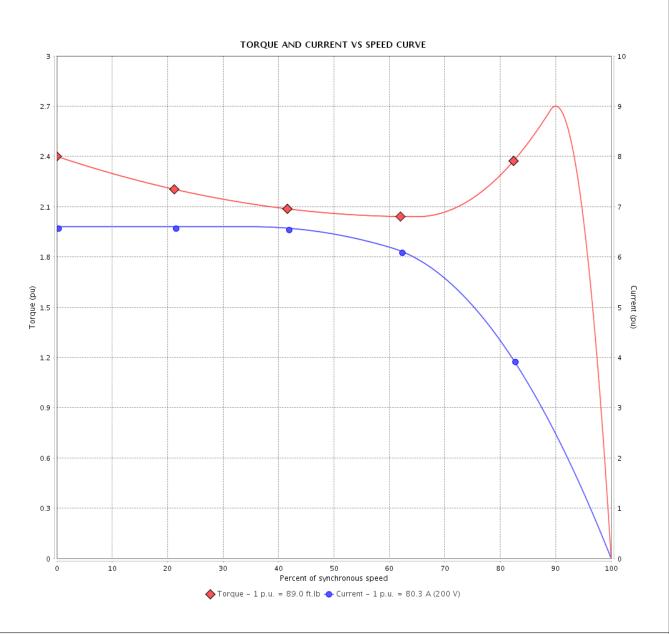
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501153

Catalog #: 03018OT3P286T-W40



Performance : 200 V 60 Hz 4P Rated current : 80.3 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.0 ft.lb : F Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

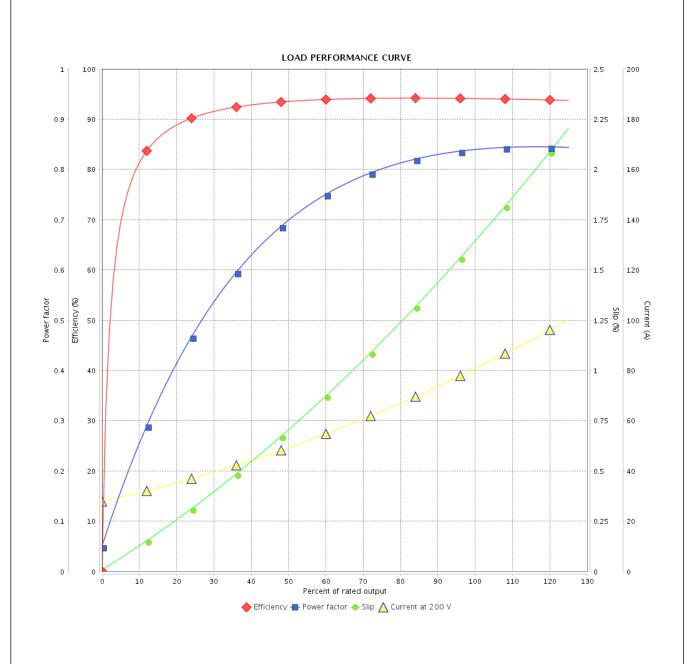


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14501153

Three-Phase

Catalog #: 03018OT3P286T-W40



Performance		: 200 V 60 Hz 4P						
Rated current		0.3 A Moment of inertia (J)		f inertia (J)	: 4.52 sq.ft.lb			
LRC	: 6	6.6	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque		39.0 ft.lb	Insulation class		:F			
Locked rotor torque		280 %	Service factor		: 1.25			
Breakdown torque	: 2	270 %	Temperati	Temperature rise				
Rated speed	: '	1765 rpm Design			: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



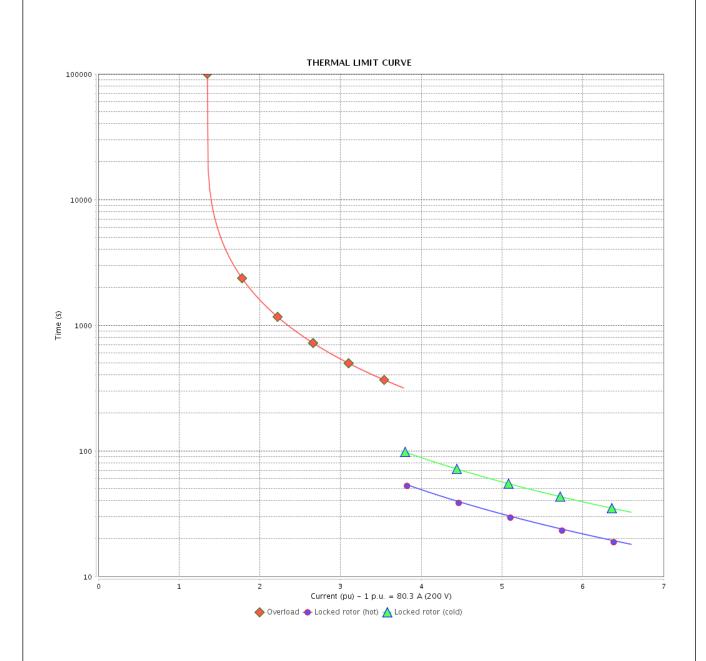
Customer	:	:				
Product line		: W40 NEMA Premium Efficie	nov.	Product code :	14501153	
Floduct line		. W40 NEWA FIEITIUM EMCR Three-Phase	ericy	Floduct code .	14501155	
				Catalog # :	03018OT3P28	36T-W40
Performance		200 V 60 Hz 4P				
Rated current LRC		80.3 A 6.6	Moment o Duty cycle	f inertia (J)	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque	: :	89.0 ft.lb	Insulation	class	: F	
		: 280 % Service fa : 270 % Temperat			: 1.25 : 80 K	
Rated speed		1765 rpm	Design	· - · · · · ·	: B	
Heating constant	t					
Cooling constant	<u>t</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 :

Date

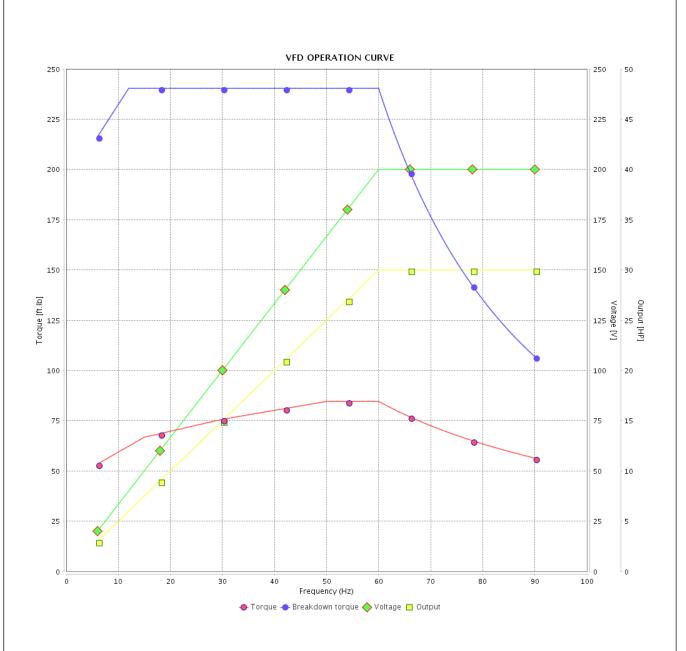
14/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501153

Catalog #: 03018OT3P286T-W40



Performance : 200 V 60 Hz 4P Rated current : 80.3 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 89.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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