DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14503868 Three-Phase Catalog #: 03018OT3V286T-W40G 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 : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 80.3/40.1 A Protection degree : IP23 L. R. Amperes : 530/265 A Cooling method : IC01 - ODP LRC : 6.6x(Code G) Mounting : F-1 No load current : 31.1/15.5 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 : 398 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 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 18 g 11 g

Mobil Polyrex EM

Notes

Lubricant type

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



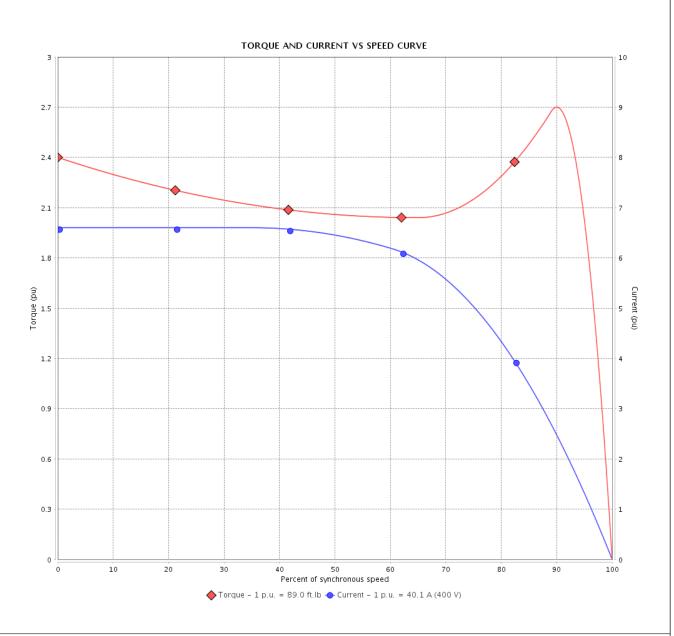
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503868

Catalog #: 03018OT3V286T-W40G



Performance : 200/400 V 60 Hz 4P Rated current : 80.3/40.1 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 89.0 ft.lb Insulation class Rated torque : 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

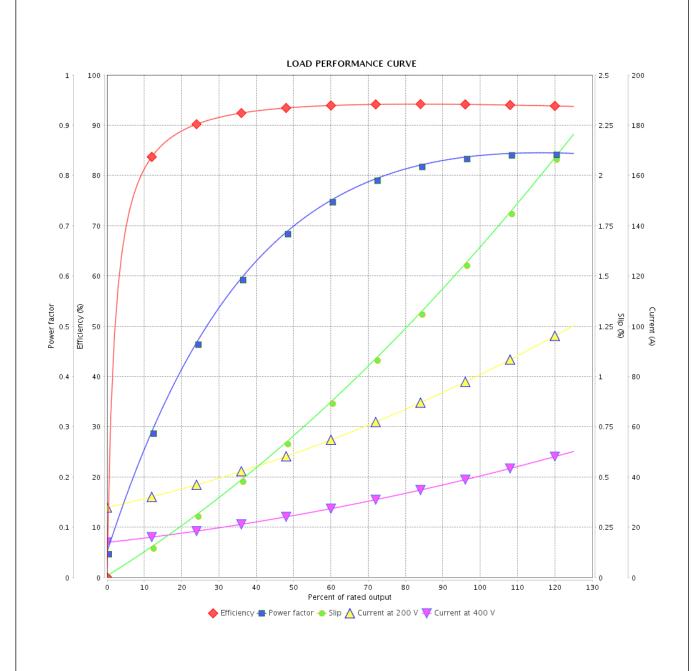


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14503868

Three-Phase

Catalog #: 03018OT3V286T-W40G



Performance	: 20	: 200/400 V 60 Hz 4P						
Rated current	: 80	0.3/40.1 A Moment of inertia (J)		f inertia (J)	: 4.52 sq.ft.lb			
LRC	: 6	6	Duty cycle		: Cont.(S1)			
Rated torque	: 89	9.0 ft.lb	Insulation class		: F			
Locked rotor torque	e : 28	30 %	Service factor		: 1.25			
Breakdown torque	: 2	: 270 % : 1765 rpm		ıre rise	: 80 K			
Rated speed	: 1				: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



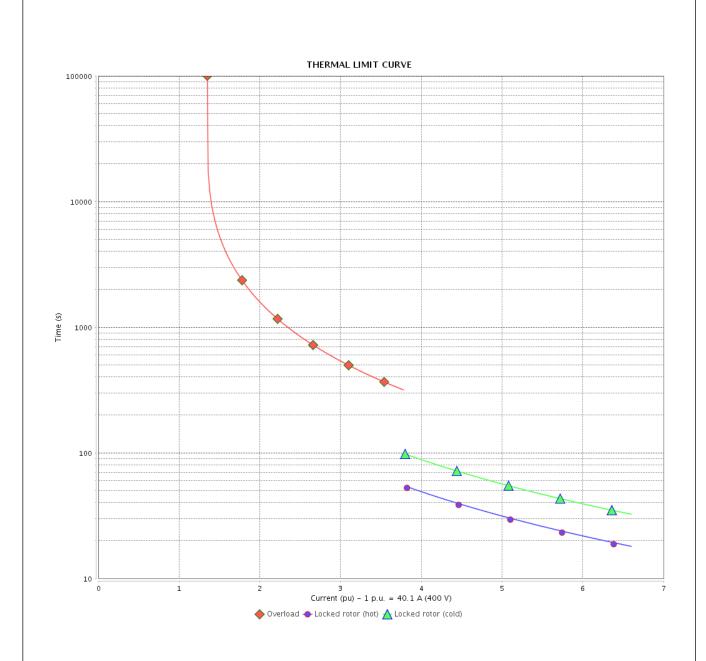
Customer	:					
Product line		W40 NEMA Premium Effici	ency I	Product code :	14503868	
	11	nree-Phase	(Catalog # :	03018OT3V28	36T-W40G
Performance		00/400 V 60 Hz 4P				
Rated current LRC	: 80 : 6.	0.3/40.1 A 6	Moment of Duty cycle	f inertia (J)	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque	: 89	9.0 ft.lb	Insulation	class	: F	
Locked rotor torqu		30 % 70 %	Service fac		: 1.25	
Breakdown torque Rated speed		70 % 765 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant						
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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 :

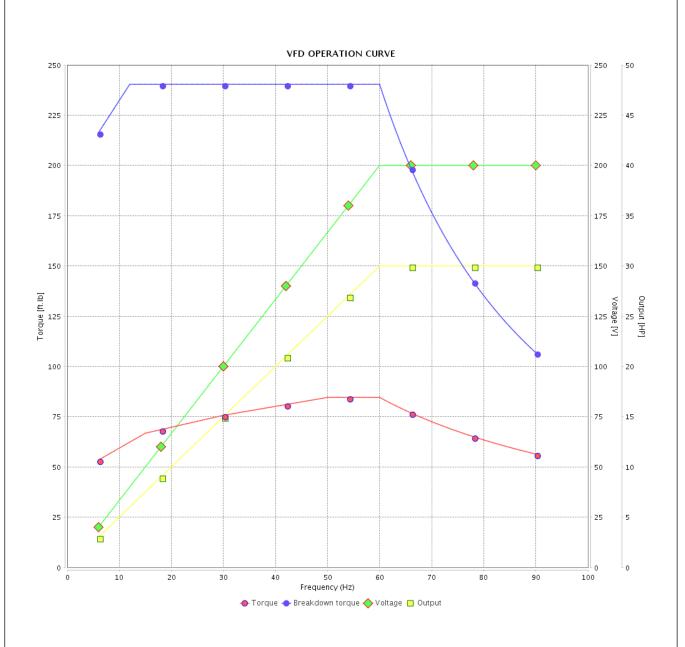
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503868

Catalog #: 03018OT3V286T-W40G

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Performance	: 200/400 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 80.3/40.1 A : 6.6 : 89.0 ft.lb : 280 % : 270 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.52 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
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14/04/2022

Date

