DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14495863 Three-Phase Catalog #: 03018OT3V286TC-W40 Frame : 284/6TC 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 : 404 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

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



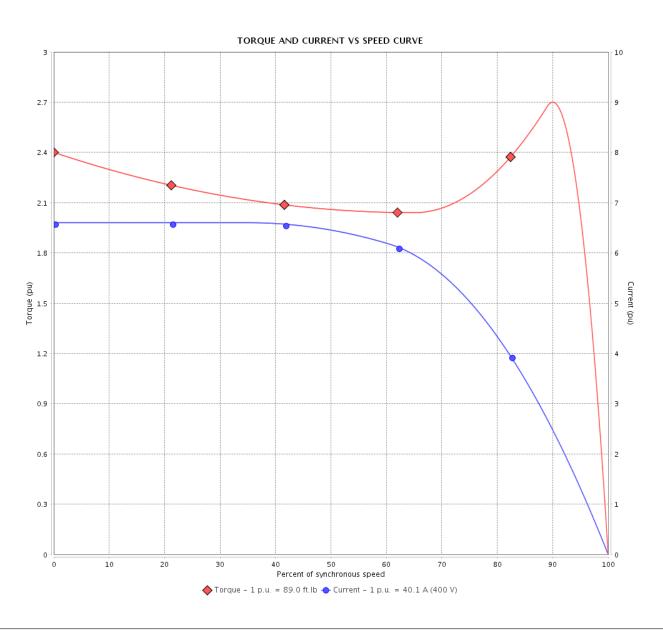
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495863

Catalog #: 03018OT3V286TC-W40



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
Looked reter time	· 22a (aald) 19a (bat)		

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

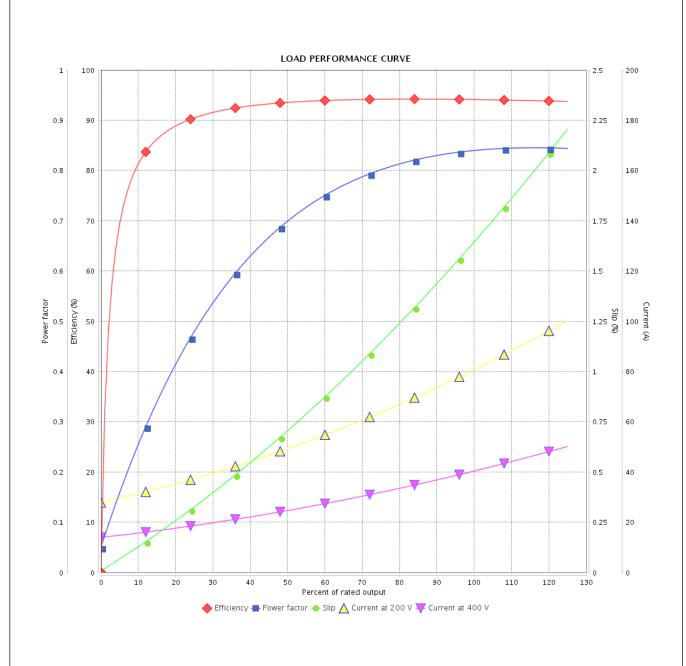


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14495863

Three-Phase

Catalog #: 03018OT3V286TC-W40



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	: 8	9.0 ft.lb	Insulation class		: F		
Locked rotor torque	e : 28	30 %	Service factor		: 1.25		
Breakdown torque	: 2	70 %	6 Temperature rise		: 80 K		
Rated speed	: 1765 rpm		Design		: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



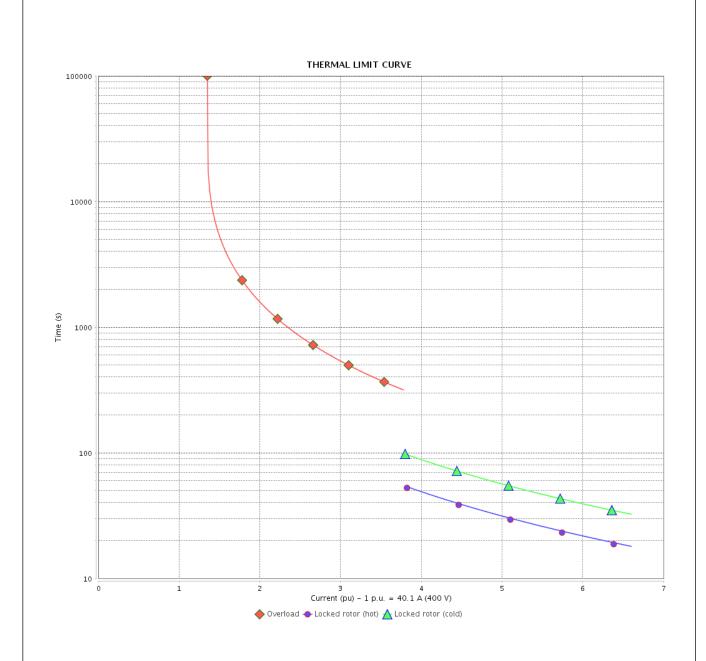
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Product line		N40 NEMA Premium Efficionree-Phase	ency	Product code :	14495863	
			(Catalog # :	03018OT3V2	86TC-W40
Performance	: 20	00/400 V 60 Hz 4P				
Rated current LRC		0.3/40.1 A	Moment or Duty cycle	f inertia (J)	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque	: 89	9.0 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		30 % 70 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		765 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Cumman		Dorformed	Chaakad	Data
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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

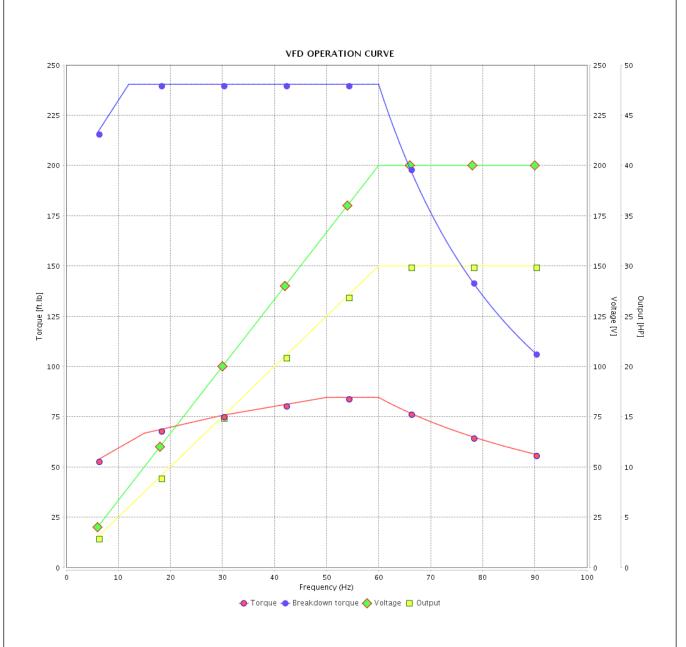
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495863

Catalog #: 03018OT3V286TC-W40

6/6



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 Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

