DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14496680 Three-Phase Catalog #: 03036OT3V284TS-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 : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 80.5/40.2 A Protection degree : IP23 L. R. Amperes : 507/254 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 29.7/14.8 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 : 303 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 91.7 Efficiency (%) 90.0 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

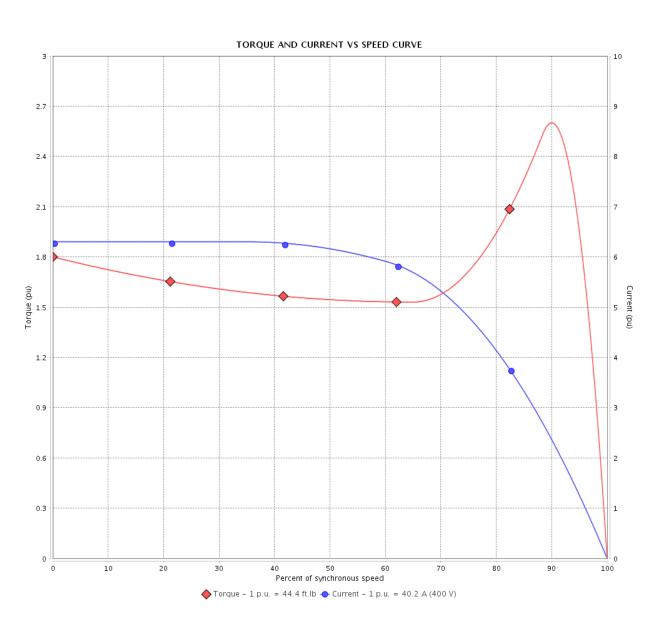


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14496680

Three-Phase

Catalog #: 03036OT3V284TS-W40



Performance : 200/400 V 60 Hz 2P Rated current : 80.5/40.2 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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

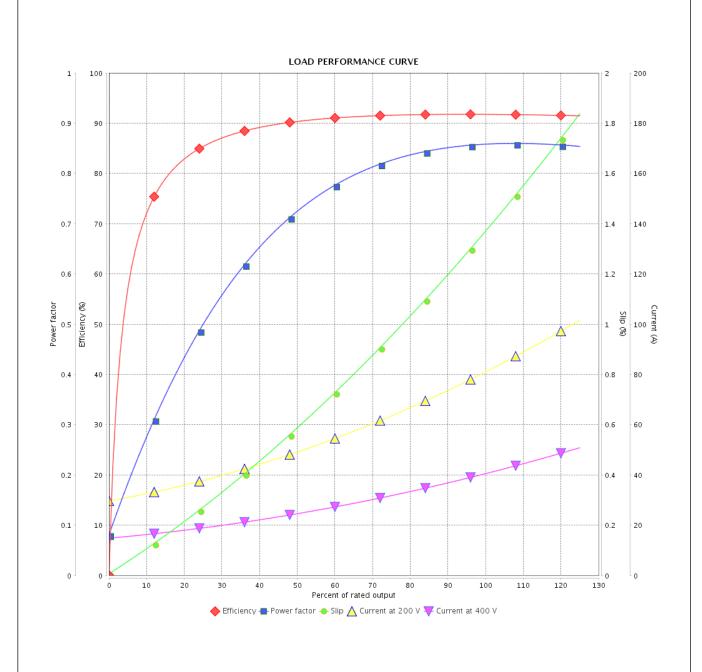


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14496680

Three-Phase

Catalog #: 03036OT3V284TS-W40



5 (00/400 \ / 00 00				
Performance :		00/400 V 60 Hz 2P	ľ			
Rated current : 80		0.5/40.2 A	Moment of	Moment of inertia (J)		
LRC : 6.3		.3	Duty cycle	Duty cycle		
Rated torque : 4		4.4 ft.lb	Insulation	Insulation class		
Locked rotor torque : 1		80 %	Service fa	Service factor		
Breakdown torque		60 %	Temperat	Temperature rise		
Rated speed	: 3	550 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



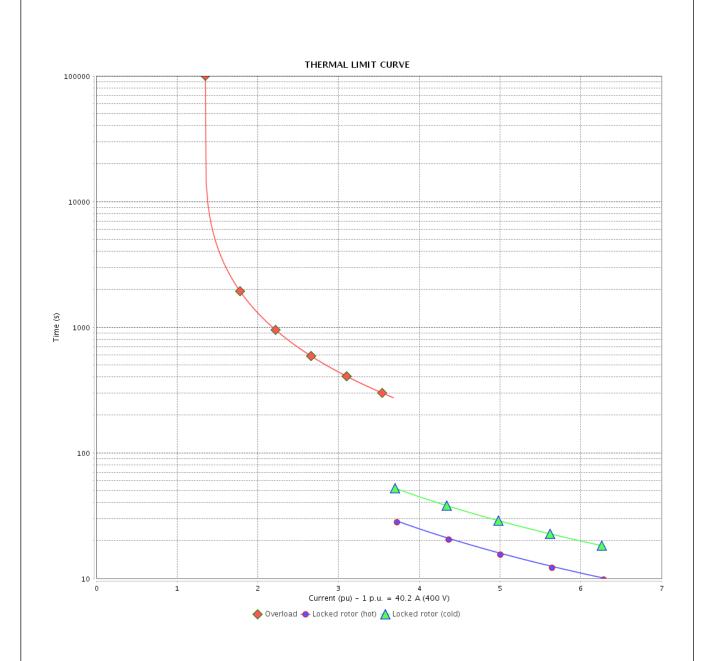
Customer	:					
Product line		N40 NEMA Premium Efficionree-Phase	ency I	Product code :	14496680	
	- 11	ilee-Filase	(Catalog # :	03036OT3V28	84TS-W40
Performance		00/400 V 60 Hz 2P				
Rated current LRC	: 80 : 6.).5/40.2 A	Moment of Duty cycle	finertia (J)	: 1.59 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	1.4 ft.lb	Insulation	class	: F	
Locked rotor torqu		30 %	Service fac	ctor	: 1.25	
Breakdown torque Rated speed		60 % 550 rpm	Temperatu Design	re rise	: 80 K : B	
Heating constant			-			
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Dowforms and but						
Performed by					Paga	Revision
Checked by	4.4/0.4/0.000				Page	Kevision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

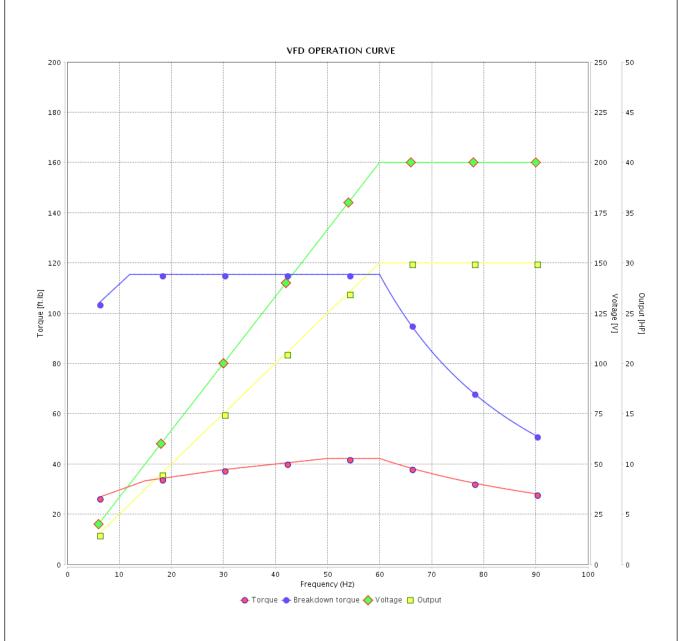
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496680

Catalog #: 03036OT3V284TS-W40

6/6



Performance	: 20	00/400 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		0.5/40.2 A 3 4.4 ft.lb 30 % 60 % 550 rpm	Duty cyc Insulatio Service t	n class	: 1.59 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		,	Performed	Checked	Date
Performed by						
Checked by					Page	Revision

14/04/2022

Date

