DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 04036OT3E286TSC-W40

14496989

Frame : 284/6TSC Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Starting method Ambient temperature : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight3 : 356 lb

Attitude . 1000 III.a.s.i. Approx. weight . 330 ib			ID			
Protection degre						
Design		: B				
Output [HP]		40	30	30	30	
Poles		2	2	2	2	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		93.6/46.8	41.9	40.7	40.2	
L. R. Amperes [A]		608/304	302	309	310	
LRC [A]		6.5x(Code G)	7.2x(Code H)	7.6x(Code J)	7.7x(Code J)	
No load current [A]	29.8/14.9	14.3	15.8	17.0	
Rated speed [RPM]		3545	2950	2960	2960	
Slip [%]		1.53	1.67	1.33	1.33	
Rated torque [ft.lb]		59.3	53.4	53.2	53.2	
Locked rotor torqu	Locked rotor torque [%]		210	229	250	
Breakdown torque	[%]	260	280	300	330	
Service factor		1.25	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		14s (cold) 8s (hot)	250s (cold) 139s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	
Noise level ²		73.0 dB(A)				
	25%	91.5	88.6	88.7	88.9	
Efficiency (%)	50%	91.7	90.0	90.1	90.2	
Efficiency (70)	75%	92.4	91.4	91.4	91.5	
	100%	92.4	92.8	92.8	92.8	
	25%	0.51	0.49	0.45	0.41	
Power Factor	50%	0.76	0.73	0.70	0.65	
I OWELL ACIOI	75%	0.84	0.82	0.79	0.76	
	100%	0.87	0.86	0.84	0.82	

Drive end Non drive end 6311 Z C3 6211 Z C3

Without Sealing Without Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval 11 g 18 g Lubricant amount Mobil Polyrex EM Lubricant type

Foundation loads Max. traction Max. compression

Notes

Bearing type

USABLE @208V 104A SF 1.15 SFA 119A

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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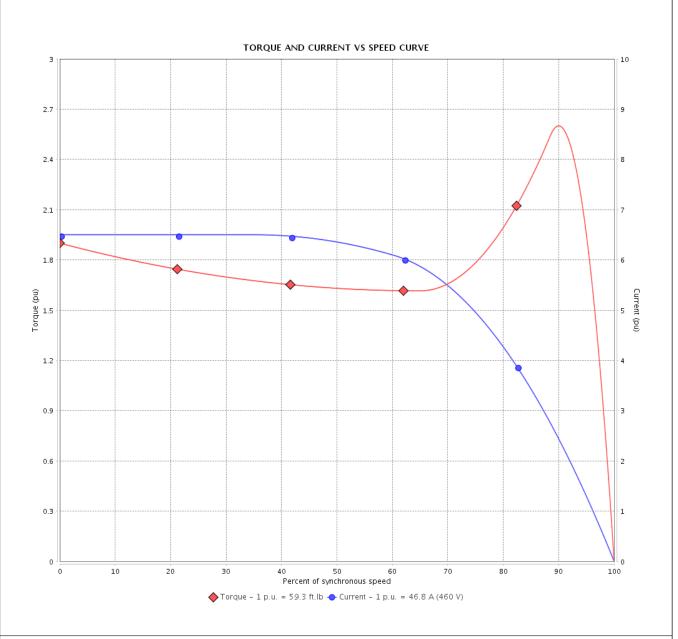
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496989

Catalog #: 04036OT3E286TSC-W40



Performance : 230/460 V 60 Hz 2P Rated current : 93.6/46.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B

Locked rotor time : 14s (cold) 8s (hot)

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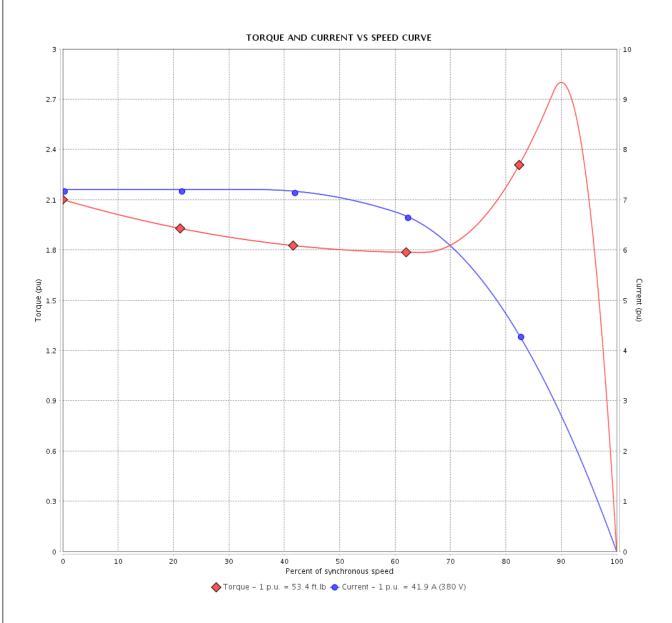
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496989

Catalog #: 04036OT3E286TSC-W40



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 41.9 A	Moment of inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 53.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2950 rpm	Design	: B	
Locked rotor time	: 250s (cold) 139s (hot)			

Locked rotor time : 250s (cold) 139s (hot)

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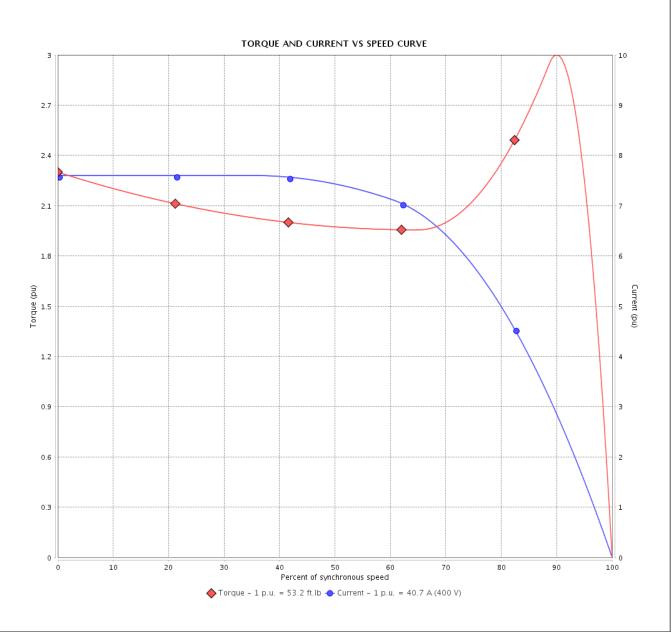
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496989

Catalog #: 04036OT3E286TSC-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 40.7 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 53.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

Locked rotor time : 14s (cold) 8s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 14496989 Three-Phase Catalog #: 04036OT3E286TSC-W40 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 53.2 ft.lb ◆ Current - 1 p.u. = 40.2 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 40.2 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 53.2 ft.lb Insulation class Rated torque : F : 250 % Locked rotor torque Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B Locked rotor time : 14s (cold) 8s (hot) Date Rev. **Changes Summary** Performed Checked

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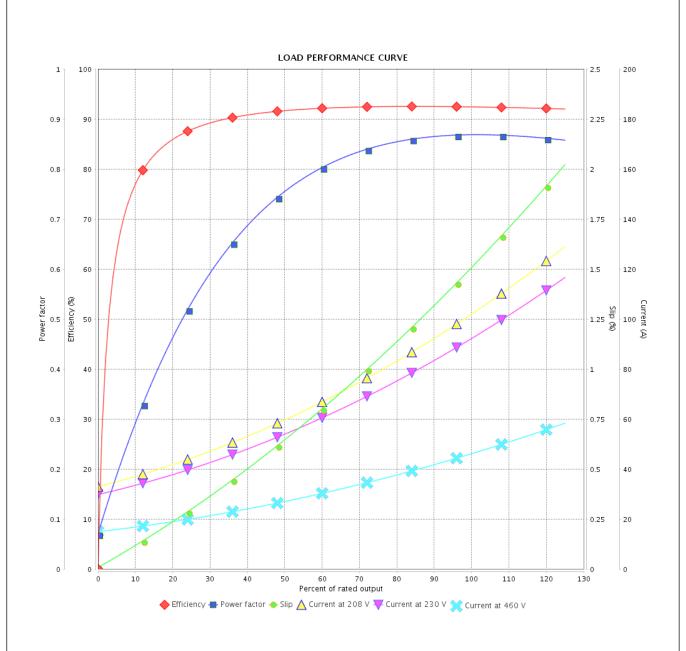
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496989

Catalog #: 04036OT3E286TSC-W40



Performance : 230/460 V 60 Hz 2P Rated current : 93.6/46.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



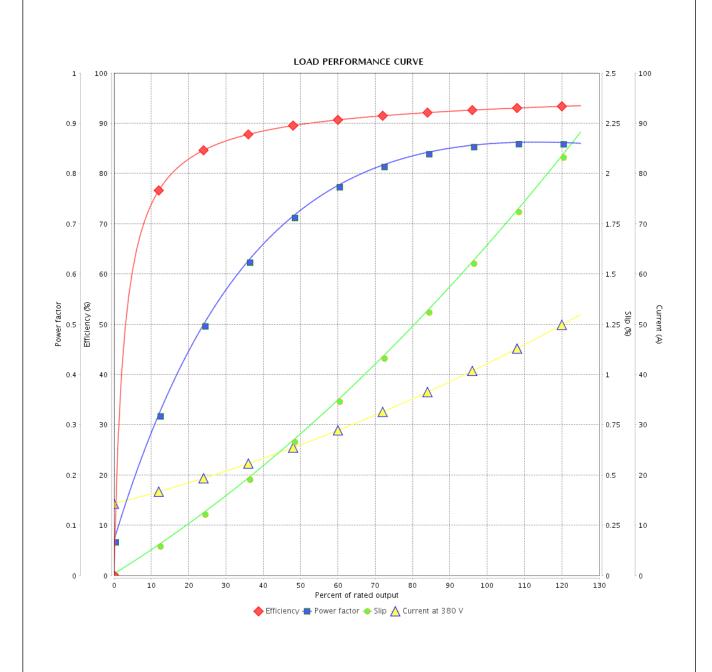
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 14496989

Catalog #: 04036OT3E286TSC-W40



Performance	: 38	80 V 50 Hz 2P IE3				
Rated current	: 4	41.9 A Moment of inertia		f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7.	2	Duty cycle)	: Cont.(S1)	
Rated torque	: 53	3.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque :		80 %	Temperati	Temperature rise		
Rated speed	: 29	950 rpm	Design		: B	
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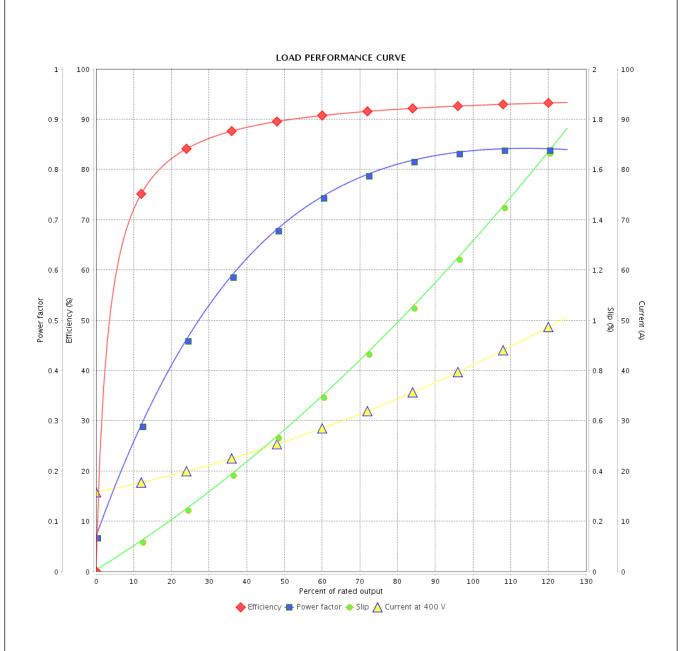
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Three-Phase

Product code: 14496989

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Performance	: 400 V 50 Hz 2P IE3					
Rated current LRC	: 40.7 A : 7.6	Moment of inertia (J) Duty cycle		: 2.02 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torque	: 53.2 ft.lb : 229 %	Insulation class Service factor		Service factor : 1.00		
Breakdown torque Rated speed	: 300 % : 2960 rpm	Temperature rise Design		: 80 K : B		
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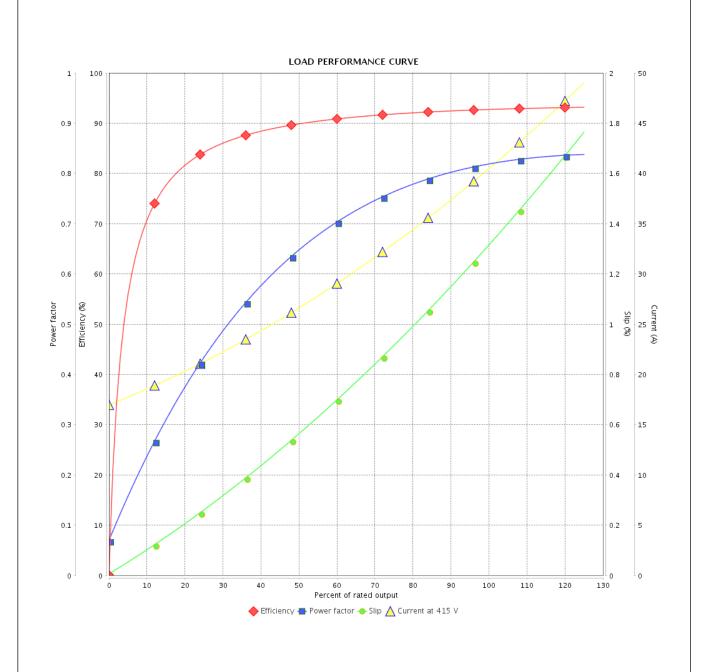
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 04036OT3E286TSC-W40

14496989



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 4	: 40.2 A Moment of iner		f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	3.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque		30 %	Temperat	Temperature rise		
Rated speed	: 2	960 rpm	Design		: B	
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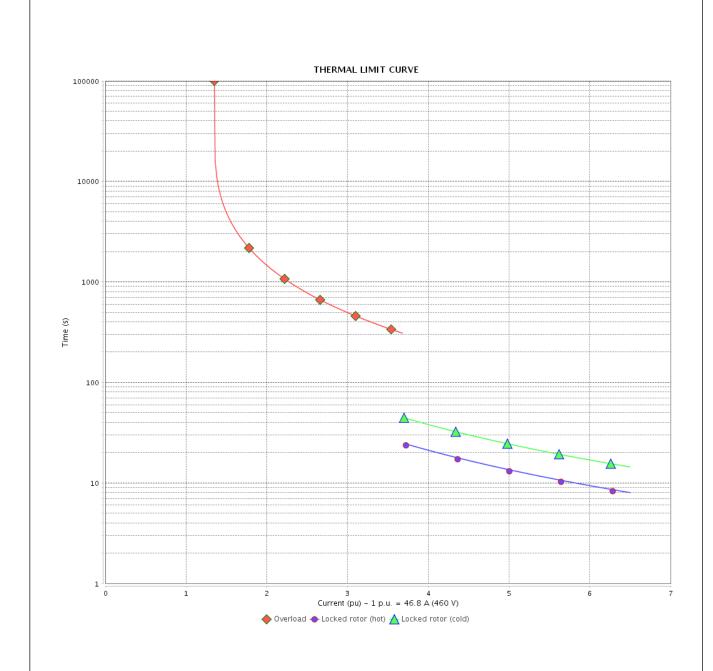


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Product line		: W40 NEMA Premium Efficion Three-Phase		Product code :	14496989 04036OT3E2	86TSC-W40
Performance		230/460 V 60 Hz 2P				
Rated current LRC Rated torque	:	93.6/46.8 A 6.5 59.3 ft.lb	Moment on Duty cycle Insulation		: 2.02 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que :	190 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		260 % 3545 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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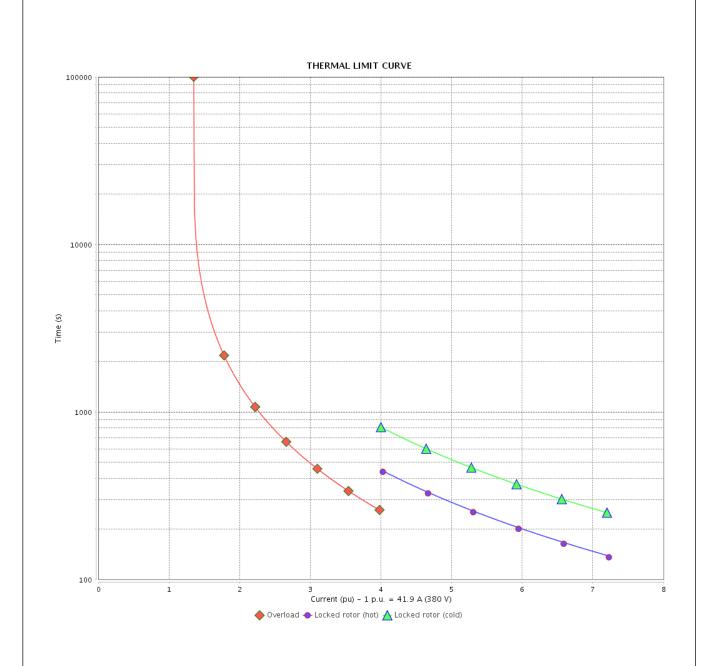


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Customer	:					
Product line	: \ TI	W40 NEMA Premium Efficie nree-Phase		Product code :	14496989	
			(Catalog # :	04036OT3E2	86TSC-W40
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 7. : 50 se : 20	1.9 A 2 3.4 ft.lb 10 % 30 % 950 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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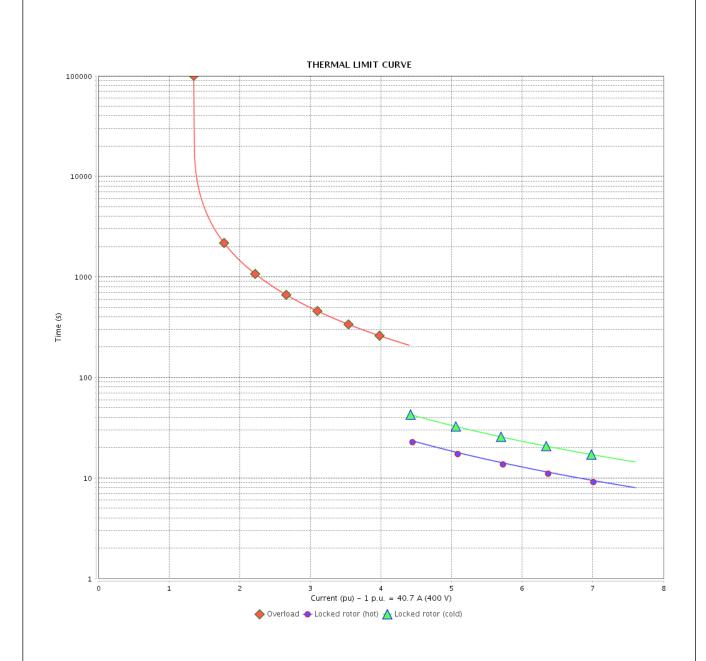


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Product line		N40 NEMA Premium Efficiente Pree-Phase	ency i	Product code :	14496989	
			(Catalog # :	04036OT3E28	86TSC-W40
Performance		00 V 50 Hz 2P IE3	Mamont of	Finantia (I)	: 2.02 og ft lb	
Rated current LRC	: 7.		Moment of Duty cycle		: 2.02 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		3.2 ft.lb 29 %	Insulation Service fac	class	: F : 1.00	
Breakdown torqu	e : 30	00 %	Temperatu		: 80 K	
Rated speed		960 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Commercial	Г	Dorform	Charles	Data
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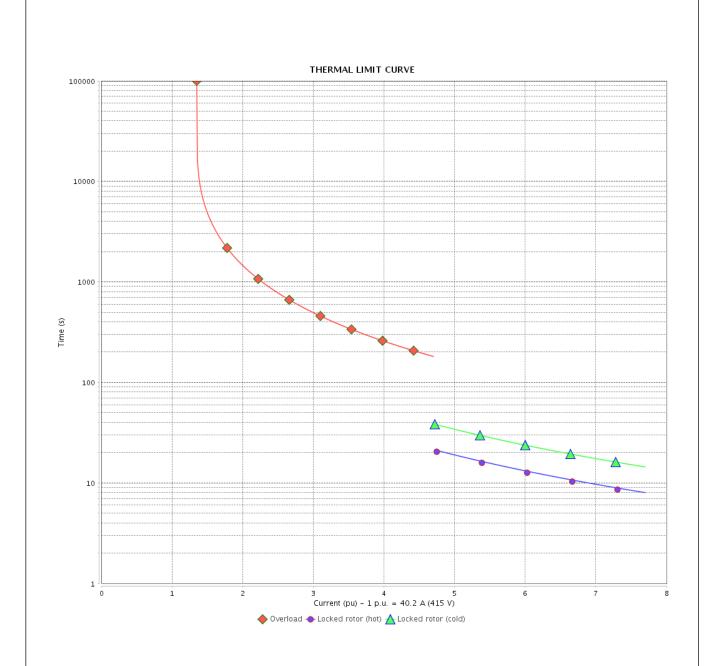


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Customer	:			
Product line	: W40 NEMA Premium Efficie Three-Phase		14496989	
		Catalog # :	04036OT3E2	86TSC-W40
Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 40.2 A	Moment of inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7.7	Duty cycle	: Cont.(S1)	
Rated torque Locked rotor torque	: 53.2 ft.lb : 250 %	Insulation class Service factor	: F : 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 2960 rpm	Design	: B	
Heating constant				
Cooling constant				
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Three Phase Induction Motor - Squirrel Cage



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Product line : W40 NEMA Premium Efficiency

Three-Phase

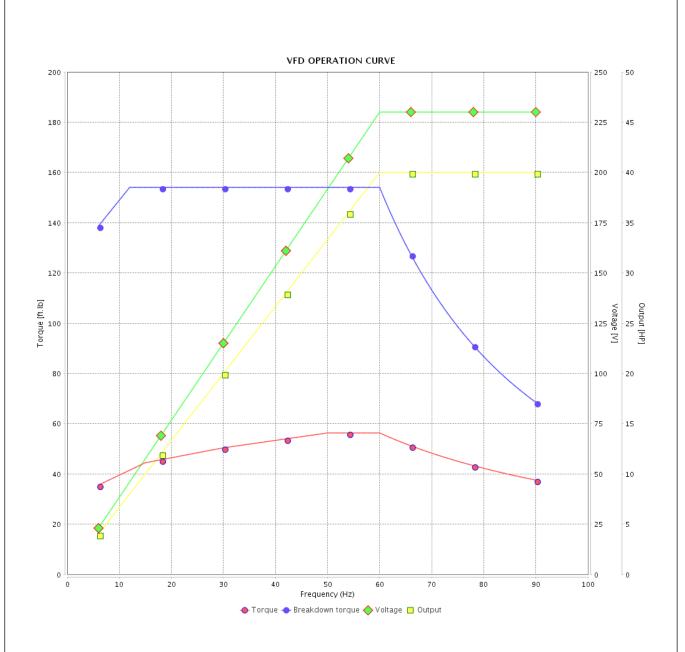
Product code: 14496989

Catalog #: 04036OT3E286TSC-W40

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Performance	:	: 230/460 V 60 Hz 2	P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue le	: 93.6/46.8 A : 6.5 : 59.3 ft.lb : 190 % : 260 % : 3545 rpm	Duty of Insula Service	tion clas e factor erature r	SS	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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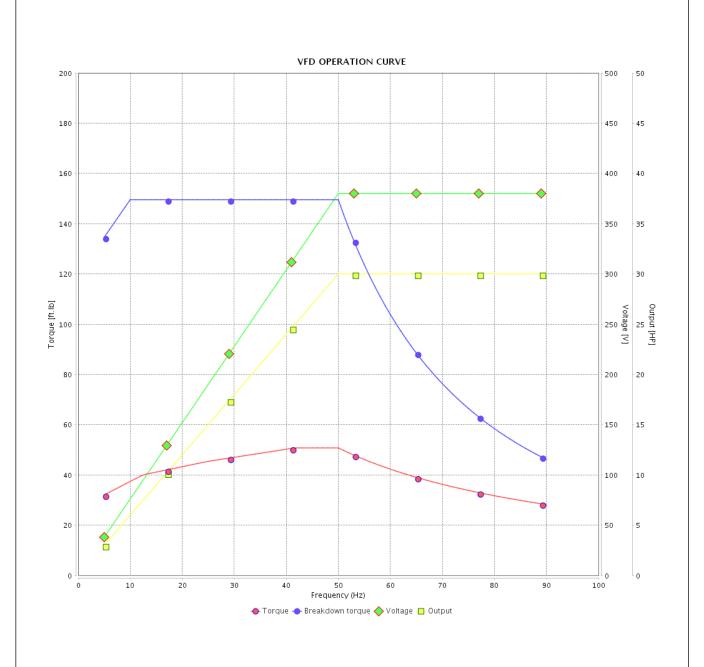
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 04036OT3E286TSC-W40

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14496989



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.9 A : 7.2 : 53.4 ft.lb : 210 % : 280 % : 2950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Customer :

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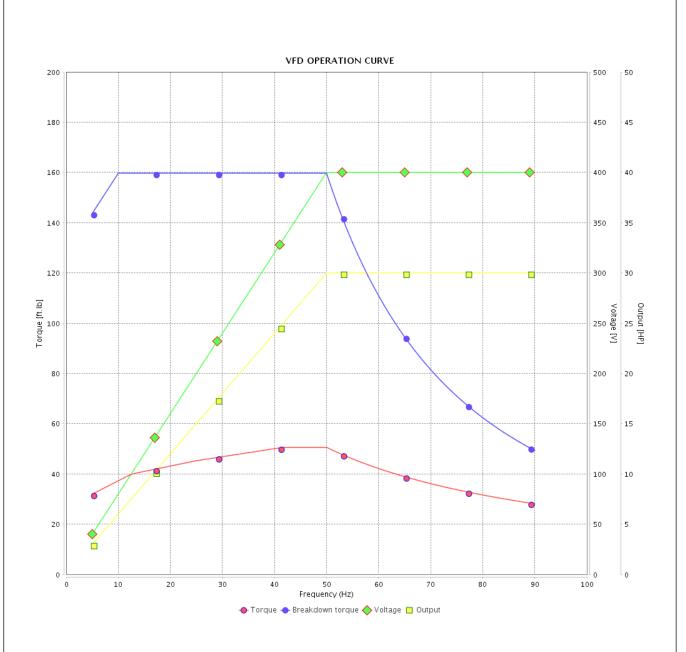
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496989

Catalog #: 04036OT3E286TSC-W40

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Performance : 400 V 50 Hz 2P IE3 Rated current : 40.7 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class : 53.2 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



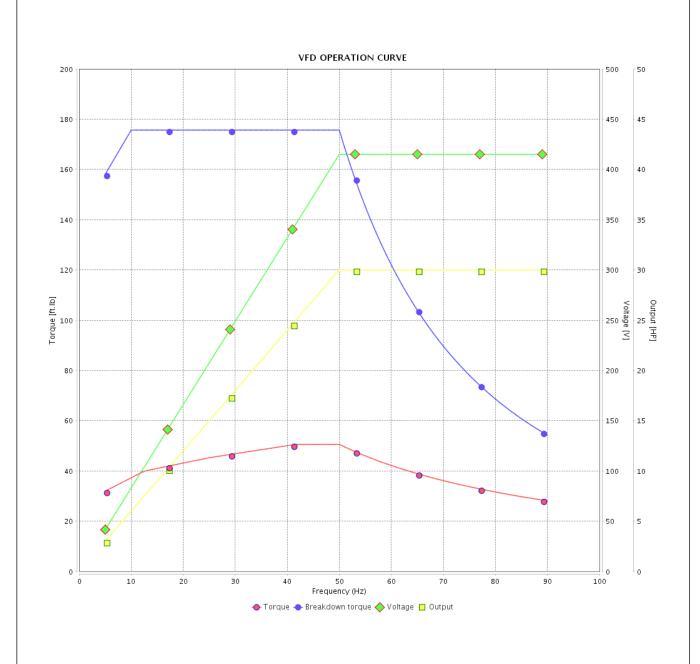
Customer :

Product line : W40 NEMA Premium Efficiency F

Three-Phase

Product code: 14496989

Catalog #: 04036OT3E286TSC-W40



Performance	: 4	115 V 50 Hz 2P IE3				
Rated current		10.2 A	Moment o	Moment of inertia (J)		
LRC	: 7	' .7	Duty cycle	}	: Cont.(S1)	
Rated torque	: 5	53.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	330 %	Temperature rise		: 80 K	
Rated speed	: 2	2960 rpm	Design		: B	
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