### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14367176

Three-Phase

Catalog #: 04036OT3E286TS-W40

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

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 345 lb
Protection degree : IP23 Moment of inertia (J) : 2.02 sq.ft.lb

Protection degree		: IP23	Moment of ine	ertia (J) : 2.02	sq.ft.lb
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	1]	3540	2950	2955	2960
Slip [%]		1.67	1.67	1.50	1.33
Rated torque [ft.lb]		59.3	53.4	53.3	53.2
Locked rotor torque [%]		190	210	229	250
Breakdown torque [%]		260	300	330	360
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)	12s (cold) 7s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)
Noise level <sup>2</sup>		73.0 dB(A)			
	25%	91.5	88.6	88.7	88.9
Efficiency (%)	50%	91.7	90.0	90.1	90.2
Liliciency (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
1 OWELL ACIO	75%	0.84	0.82	0.79	0.76
	100%	0.87	0.86	0.84	0.82

Drive end 6311 Z C3 Non drive end 6211 Z C3 Foundation loads

Sealing : Without Without Max. compression Bearing Seal Bearing Seal

Lubrication interval:20000 h20000 hLubricant amount:18 g11 gLubricant type:Mobil Polyrex EM

Notes 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.

Bearing type

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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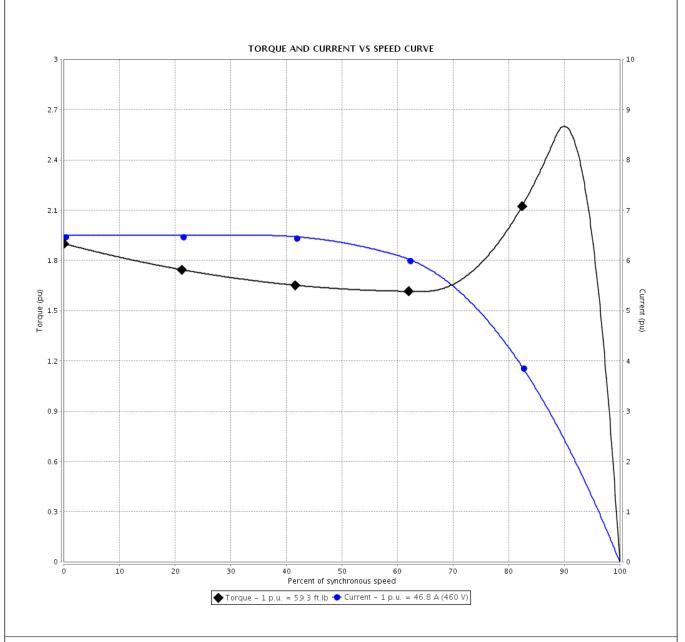
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14367176

Catalog #: 04036OT3E286TS-W40



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

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

: 3540 rpm

Rated speed

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Design

: B

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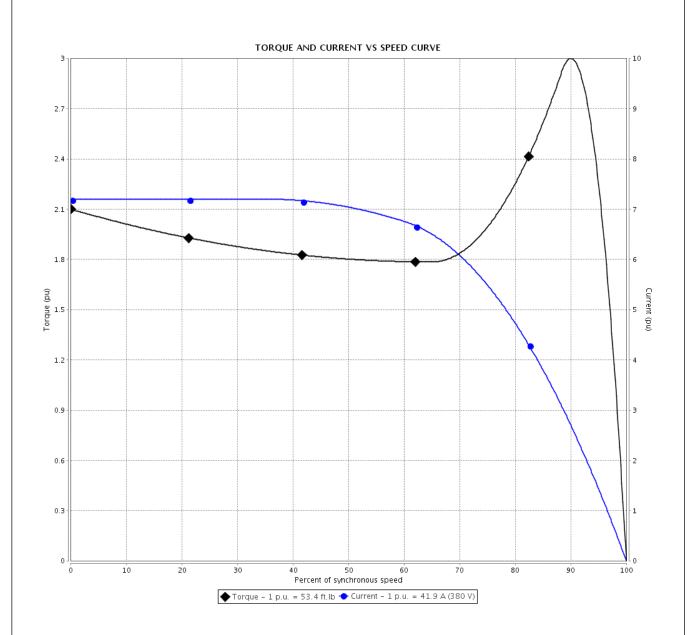


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14367176

Three-Phase

Catalog #: 04036OT3E286TS-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) Insulation class Rated torque : 53.4 ft.lb : F : 210 % Locked rotor torque Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K : B Rated speed : 2950 rpm Design

Locked rotor time : 12s (cold) 7s (hot)

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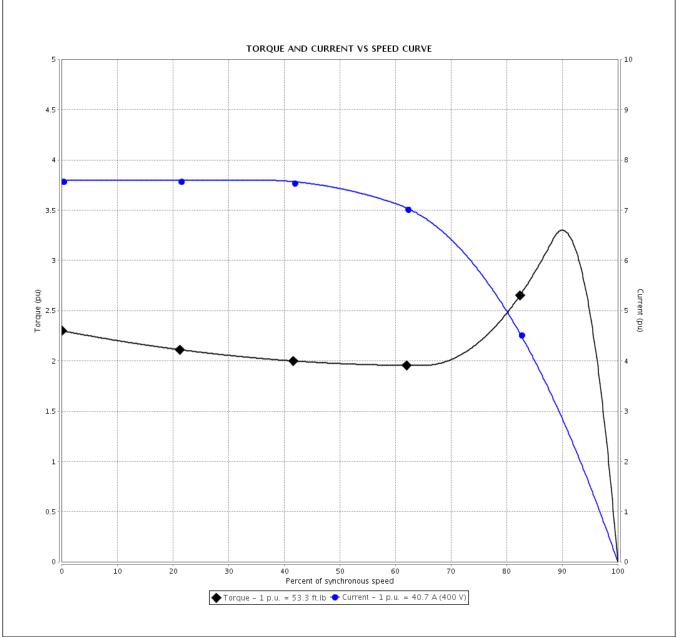
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14367176

Catalog #: 04036OT3E286TS-W40



: 400 V 50 Hz 2P IE3 Performance Rated current : 40.7 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 53.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B

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

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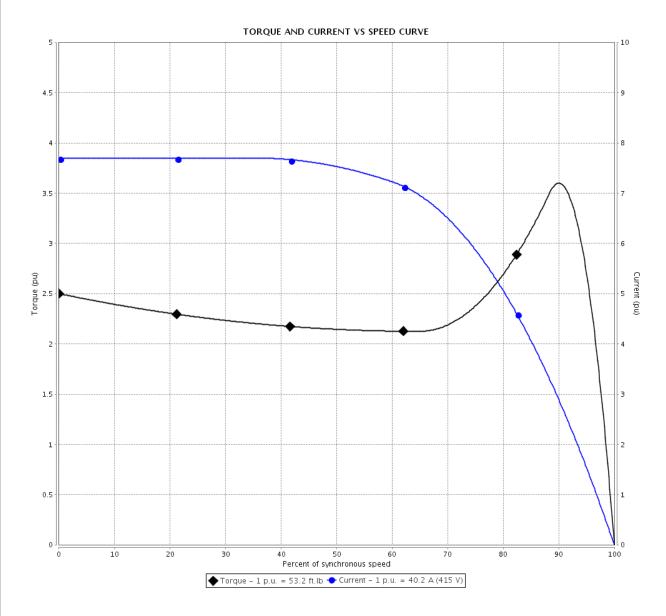


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14367176

Catalog #: 04036OT3E286TS-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	: 53.2 ft.lb	Insulation class	:F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B
Locked rotor time	: 14s (cold) 8s (hot)		

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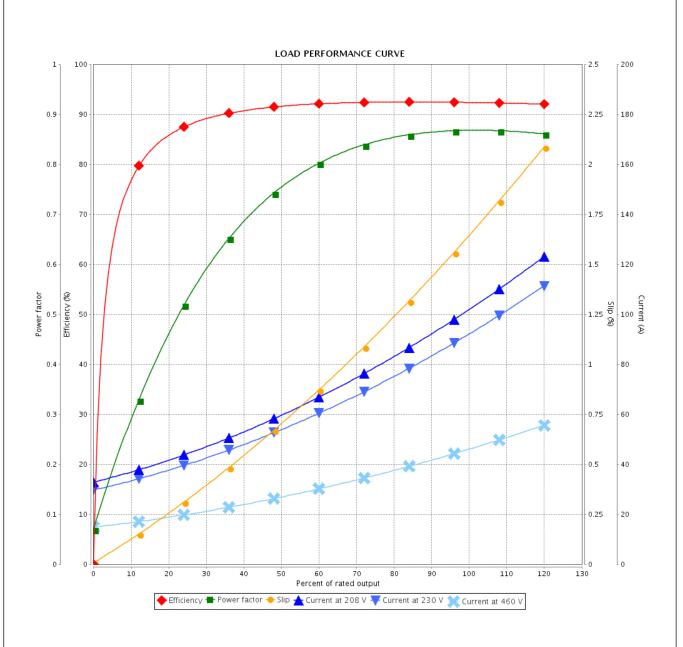
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14367176

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Performance	. 9	230/460 V 60 Hz 2P				
. 250/400 V 00 112 21						
Rated current	: 9	: 93.6/46.8 A Moment of		f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 6	6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 5	59.3 ft.lb	Insulation	class	: F	
Locked rotor torque		190 %	Service fa	Service factor		
Breakdown torqu		260 %	Temperati	Temperature rise		
Rated speed		3540 rpm	Design		: B	
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Product line : W40 NEMA Premium Efficiency Product code : 14367176

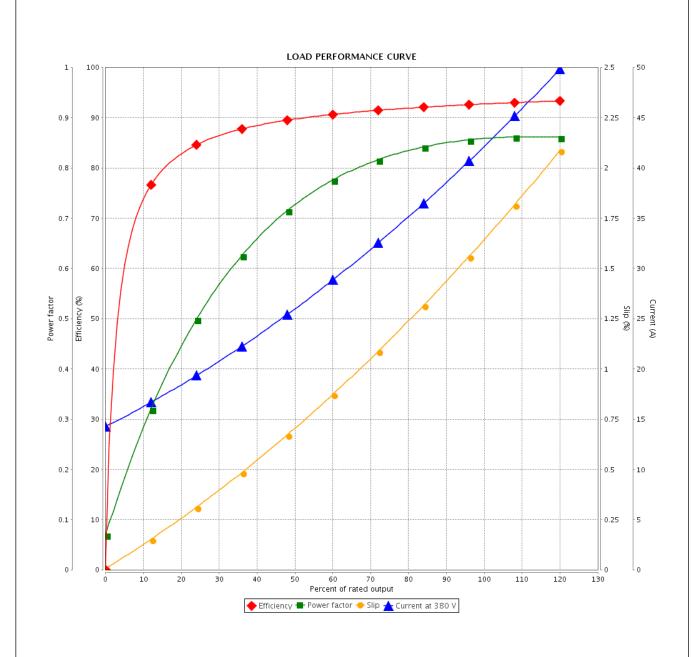
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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.9 A : 7.2 : 53.4 ft.lb : 210 % : 300 % : 2950 rpm	Moment of inertia (J) : 2.02 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.00  Temperature rise : 80 K  Design : B		: Cont.(S1) : F : 1.00 : 80 K	
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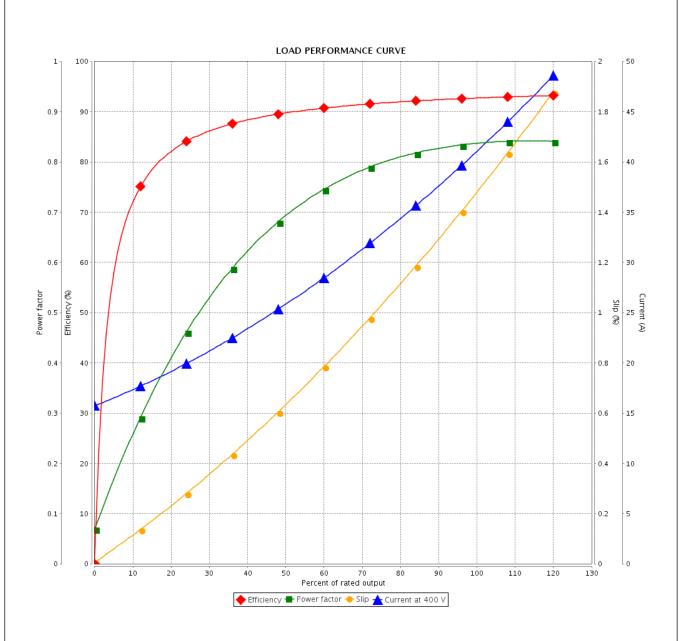
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Three-Phase

Product code: 14367176

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Performance	nce : 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)	
Rated torque	: 53.3 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 330 %	Temperature rise		: 80 K	
Rated speed	: 2955 rpm	Design		: B	
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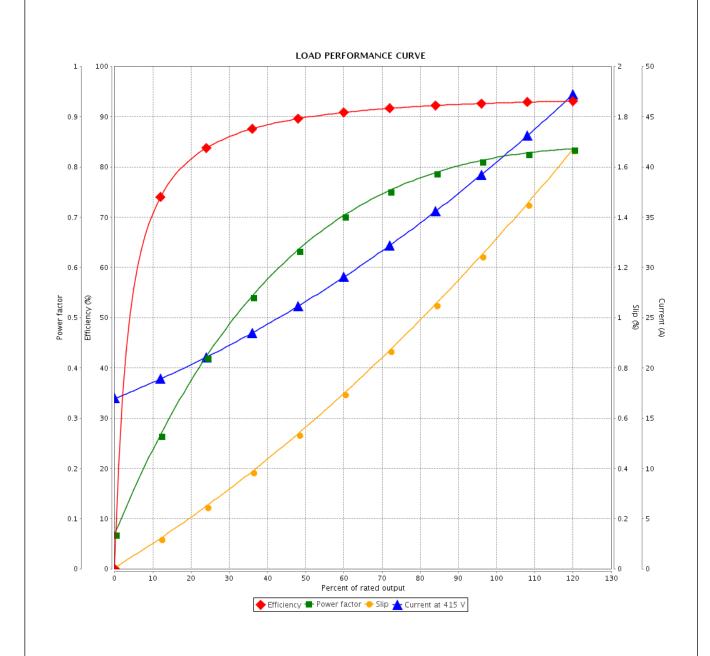
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 14367176

Catalog #: 04036OT3E286TS-W40



Performance	: 41	: 415 V 50 Hz 2P IE3				
Rated current	nt : 40.2 A		Moment of	f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7.	7	Duty cycle	)	: Cont.(S1)	
Rated torque	: 53	3.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 25	50 %	Service fa	ctor	: 1.00	
Breakdown torque		80 %	Temperat	Temperature rise		
Rated speed	: 29	960 rpm	Design		: B	
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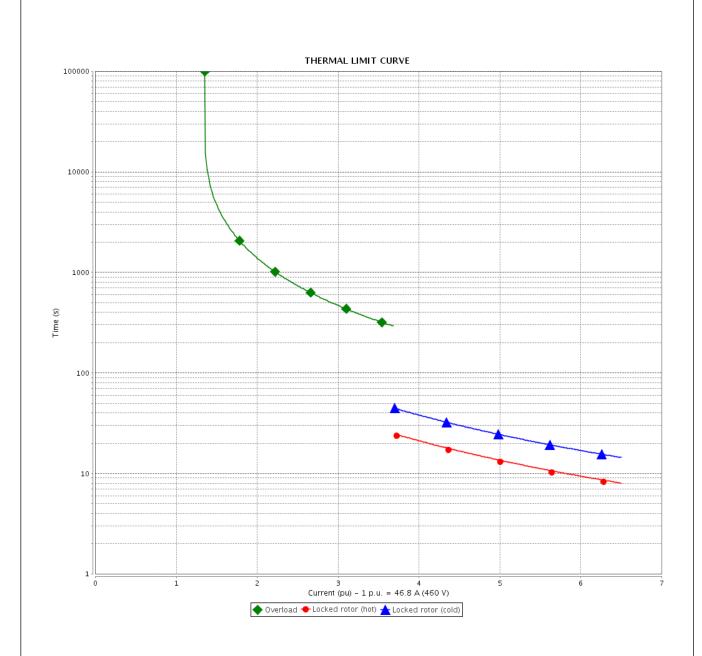


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14367176 040360T3E28	86TS-W40
Performance	:	230/460 V 60 Hz 2P				
Rated current LRC Rated torque	:	93.6/46.8 A 6.5 59.3 ft.lb	Duty cycle Insulation	class	: 2.02 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie :	190 % 260 % 3540 rpm	Service fa Temperatu Design		: 1.25 : 80 K : B	
Heating constant	t					
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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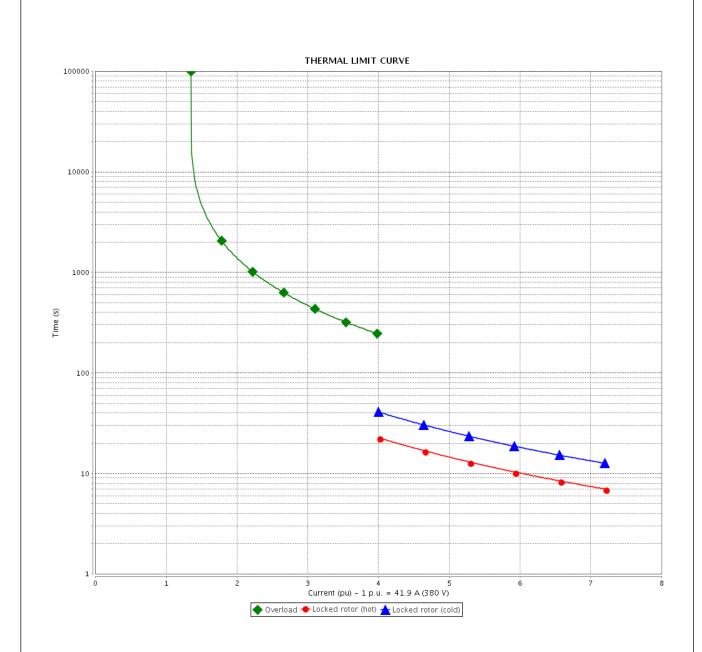


Customer	:			
Product line	: W40 NEMA Premium Effic Three-Phase	eiency Product code :	14367176	
	Tillee i flase	Catalog #:	04036OT3E28	6TS-W40
Performance	: 380 V 50 Hz 2P IE3	T		
Rated current LRC	: 41.9 A : 7.2	Moment of inertia (J)  Duty cycle	: 2.02 sq.ft.lb : Cont.(S1)	
Rated torque	: 53.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 300 % : 2950 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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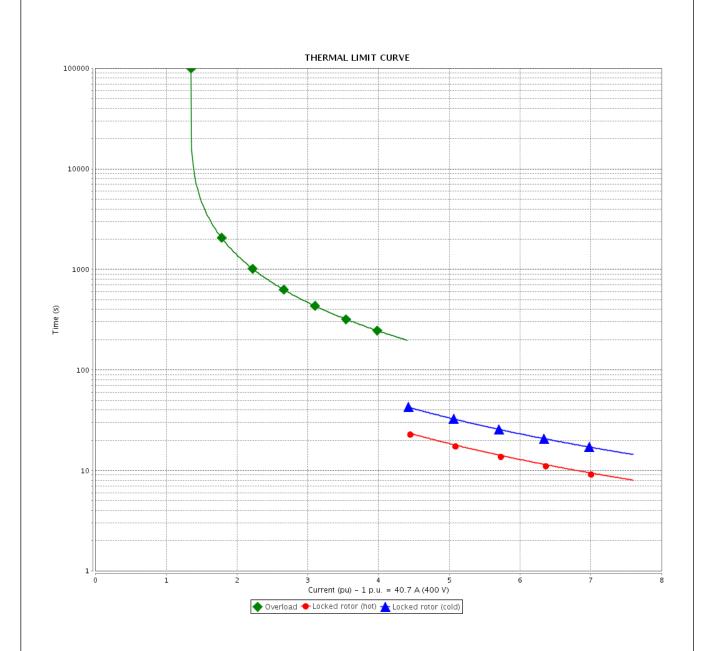


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Product line	: W40 NEMA Premium Effici Three-Phase	iency Product code :	14367176	
	The That	Catalog # :	04036OT3E28	6TS-W40
Performance	: 400 V 50 Hz 2P IE3	1		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.7 A : 7.6 : 53.3 ft.lb : 229 % : 330 % : 2955 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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Cooling constant  Rev.	Changes Summary	Performed	Checked	Date
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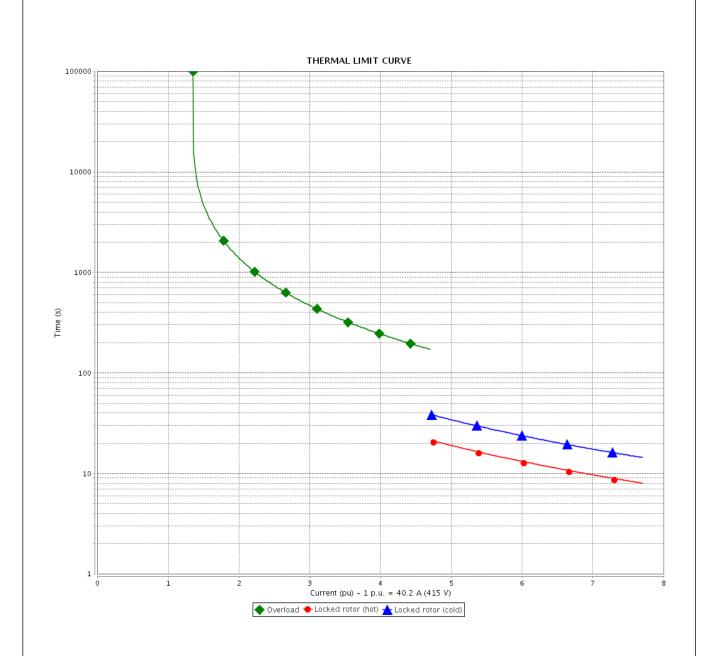


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Product line		W40 NEMA Premium Effici	ency I	Product code :	14367176	
	TI	hree-Phase	(	Catalog # :	04036OT3E28	36TS-W40
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Performance		15 V 50 Hz 2P IE3	Mamanta	finantia (I)	. 2.02 az filb	
Rated current LRC	: 40 : 7.	0.2 A 7	Duty cycle	f inertia (J)	: 2.02 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	3.2 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		50 % 60 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		960 rpm	Design		: B	
Heating constant						
Cooling constant						
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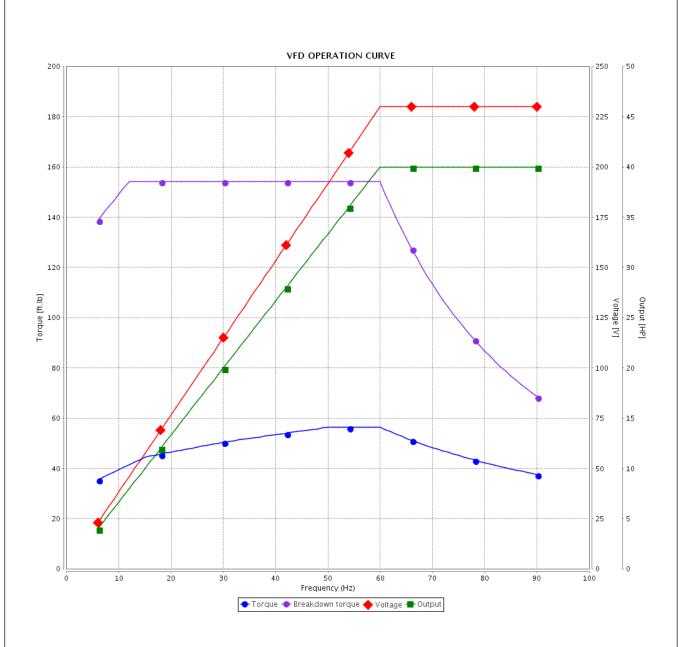
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14367176

Catalog #: 04036OT3E286TS-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 : 59.3 ft.lb : F Rated torque Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3540 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

#### Three Phase Induction Motor - Squirrel Cage



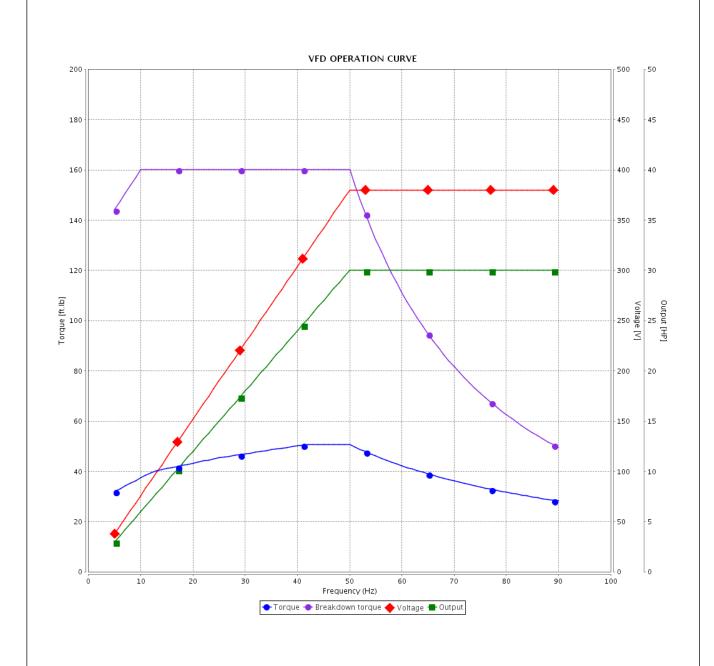
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14367176

Catalog #: 04036OT3E286TS-W40



Performance	: 38	80 V 50 Hz 2P IE3				
Rated current	ated current : 41.9 A Moment of 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 torq	ue : 2 <sup>-</sup>	10 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 30	00 %	Temperature rise		: 80 K	
Rated speed	: 29	950 rpm Design		: B		
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Customer :

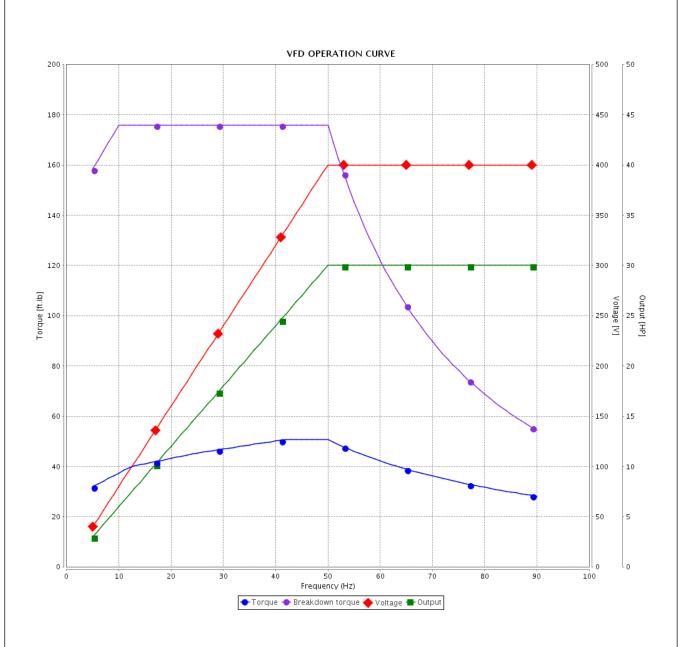
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14367176

Catalog #: 04036OT3E286TS-W40

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Performance	: 400 V 50 Hz 2P IE3	·		·	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.7 A : 7.6 : 53.3 ft.lb : 229 % : 330 % : 2955 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

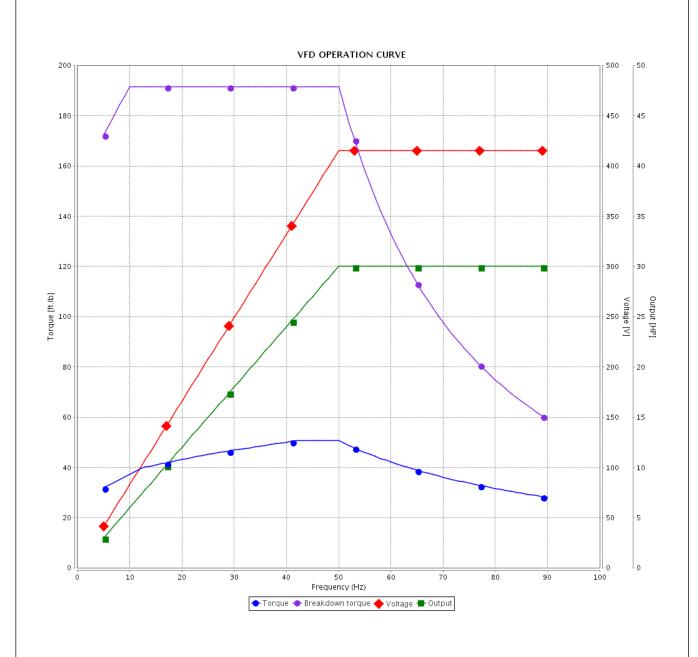
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Three-Phase

Product code: 14367176

Catalog #: 04036OT3E286TS-W40

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.2 A : 7.7 : 53.2 ft.lb : 250 % : 360 % : 2960 rpm	Moment o 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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