DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 03036OT3E284TS-W40G

14503875

Frame : 284TS Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 304 lb

Protection degree : IP23 Moment of inertia (J) : 1.59 sq.ft.lb

Protection degree		: IP23	Moment of ine	Moment of inertia (J) : 1.59 sq.ft.lb		
Design		: B				
Output [HP]		30	25	25	25	
Poles		2	2	2	2	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		70.0/35.0	35.0	34.0	33.6	
L. R. Amperes [A]		441/221	231	238	225	
LRC [A]		6.3x(Code G)	6.6x(Code G)	7.0x(Code H)	6.7x(Code H)	
No load current [A]	25.8/12.9	11.0	13.0	14.0	
Rated speed [RPN	/ 1]	3550	2940	2950	2955	
Slip [%]		1.39	2.00	1.67	1.50	
Rated torque [ft.lb]		44.4	44.7	44.5	44.4	
Locked rotor torque [%]		180	170	190	200	
Breakdown torque	Breakdown torque [%]		240	260	270	
Service factor		1.25	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		18s (cold) 10s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	16s (cold) 9s (hot)	
Noise level ²		73.0 dB(A)				
	25%	90.0	88.0	88.2	88.3	
Efficiency (%)	50%	90.2	89.7	89.8	89.8	
Linciency (70)	75%	91.7	90.7	90.8	90.8	
100%		91.7	92.4	92.4	92.4	
	25%	0.47	0.51	0.45	0.42	
Power Factor	50%	0.73	0.75	0.70	0.66	
1 OWELL ACTOR	75%	0.82	0.83	0.80	0.77	
	100%	0.86	0.87	0.85	0.83	

Bearing type : 6311 Z C3 6211 Z C3
Sealing : Without Without Max. com

Sealing : Without Without Bearing Seal Bearing Seal

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

Foundation loads Max. traction Max. compression

Notes

USABLE @208V 77.4A SF 1.15 SFA 89.0A

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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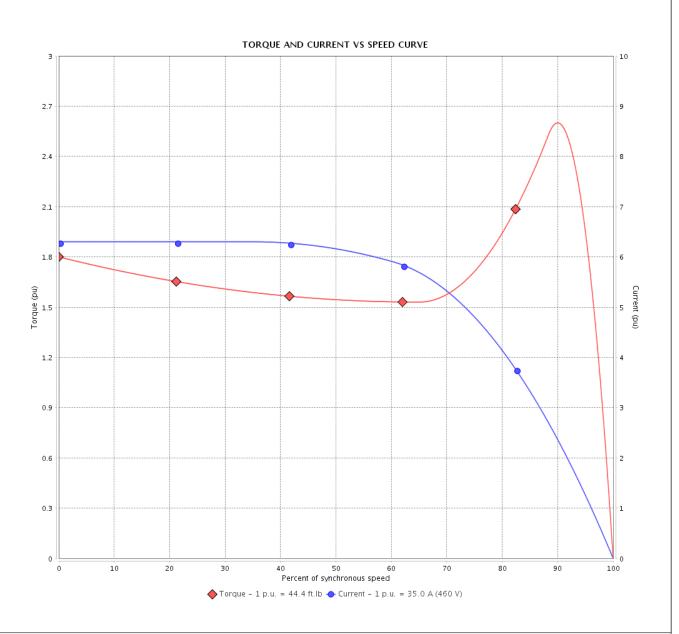


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14503875

Three-Phase

Catalog #: 03036OT3E284TS-W40G



Performance : 230/460 V 60 Hz 2P Rated current : 70.0/35.0 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)

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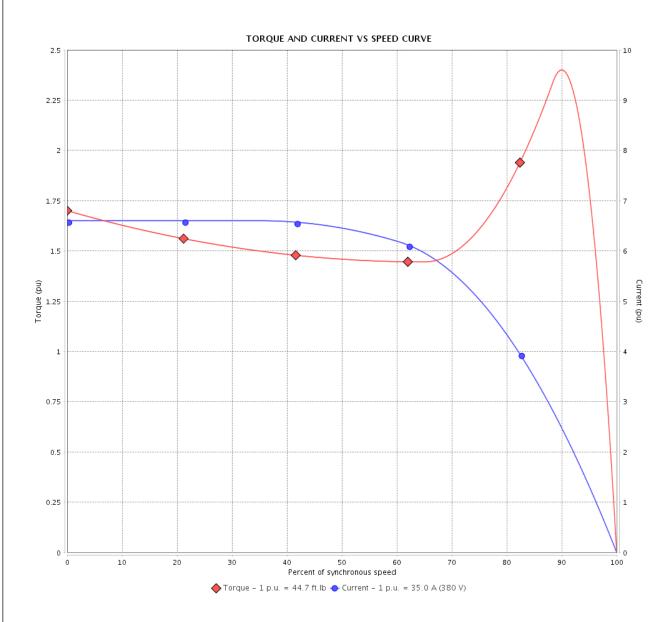


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14503875

Three-Phase

Catalog #: 03036OT3E284TS-W40G



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 35.0 A	Moment of inertia (J)	: 1.59 sq.ft.lb	
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque	: 44.7 ft.lb	Insulation class	: F	
Locked rotor torque	: 170 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 2940 rpm	Design	: B	

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

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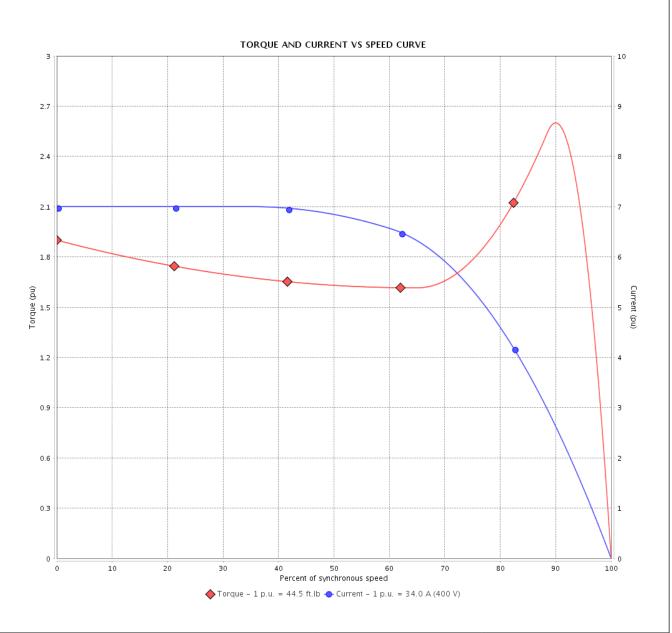
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503875

Catalog #: 03036OT3E284TS-W40G



Performance : 400 V 50 Hz 2P IE3 Rated current : 34.0 A Moment of inertia (J) : 1.59 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B

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

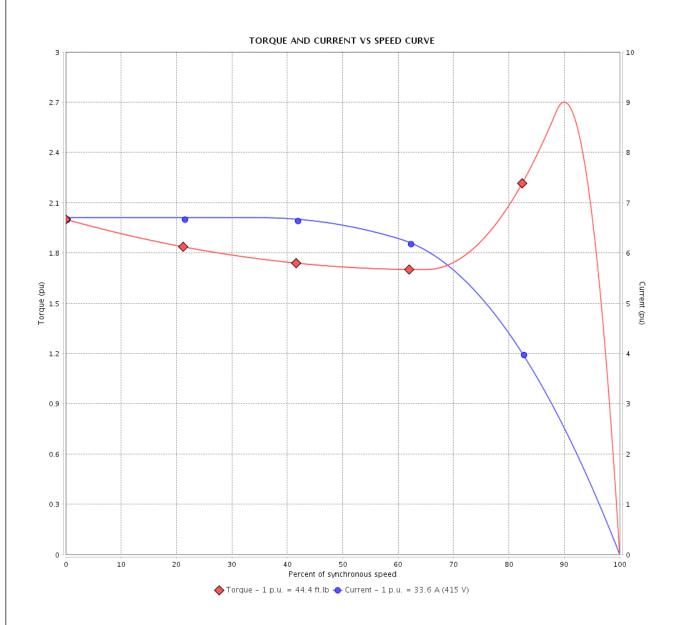
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Customer Product line : W40 NEMA Premium Efficiency Product code: 14503875 Three-Phase

> Catalog #: 03036OT3E284TS-W40G



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 33.6 A	Moment of inertia (J)	: 1.59 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 44.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 2955 rpm	Design	: B	
Locked rotor time	: 16s (cold) 9s (hot)			

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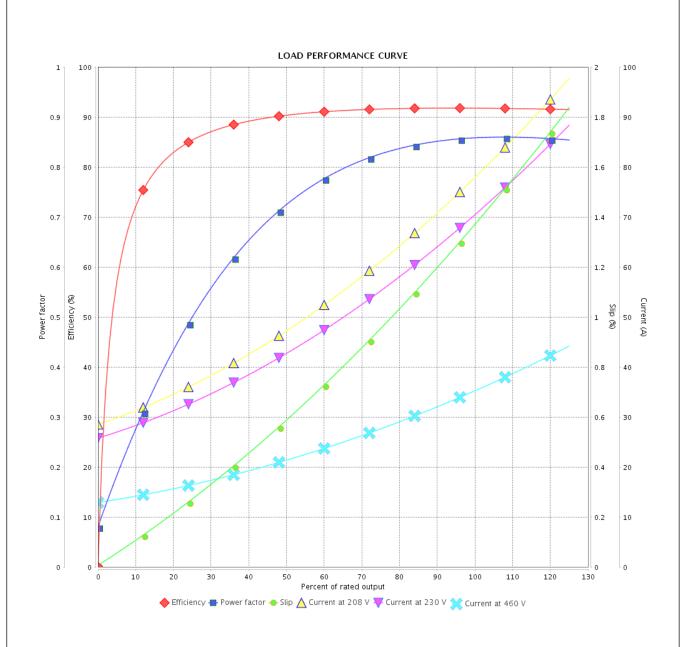
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503875

Catalog #: 03036OT3E284TS-W40G



Performance : 230/460 V 60 Hz 2P : 70.0/35.0 A Rated current Moment of inertia (J) : 1.59 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 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 Rev. Performed Checked Date **Changes Summary** Performed by

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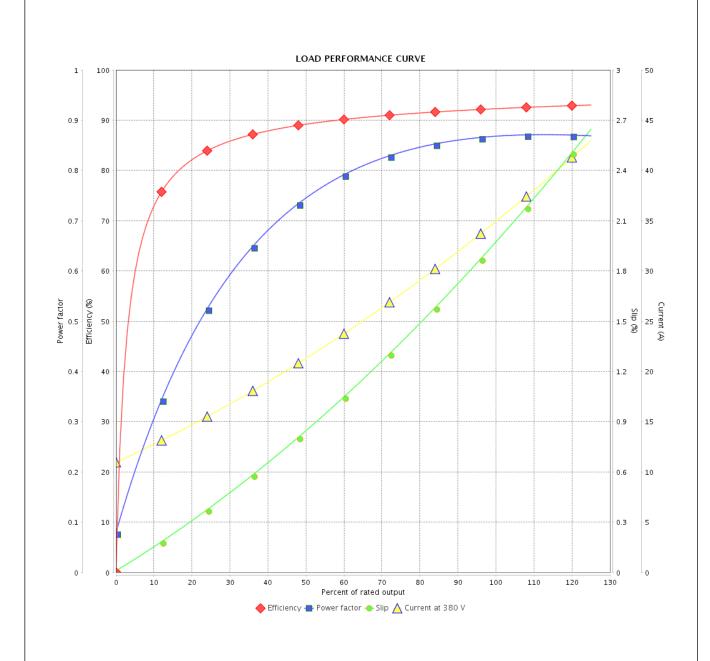
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 14503875

Catalog #: 03036OT3E284TS-W40G



Performance	nance : 380 V 50 Hz 2P IE3					
Rated current	: 3	5.0 A	Moment o	f inertia (J)	: 1.59 sq.ft.lb	
LRC	: 6	6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	4.7 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 1'	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	Temperati	Temperature rise		
Rated speed	: 2	: 2940 rpm			: B	
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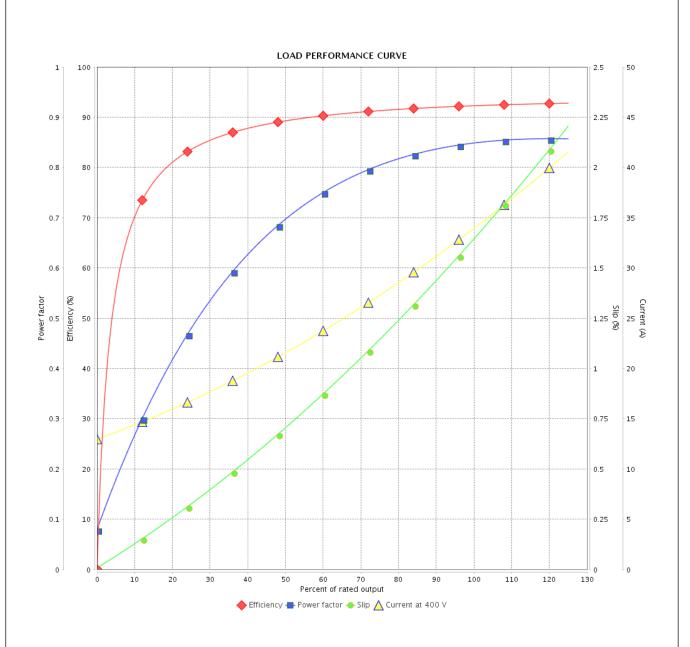
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503875

Catalog #: 03036OT3E284TS-W40G



Performance : 400 V 50 Hz 2P IE3 : 34.0 A Rated current Moment of inertia (J) : 1.59 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



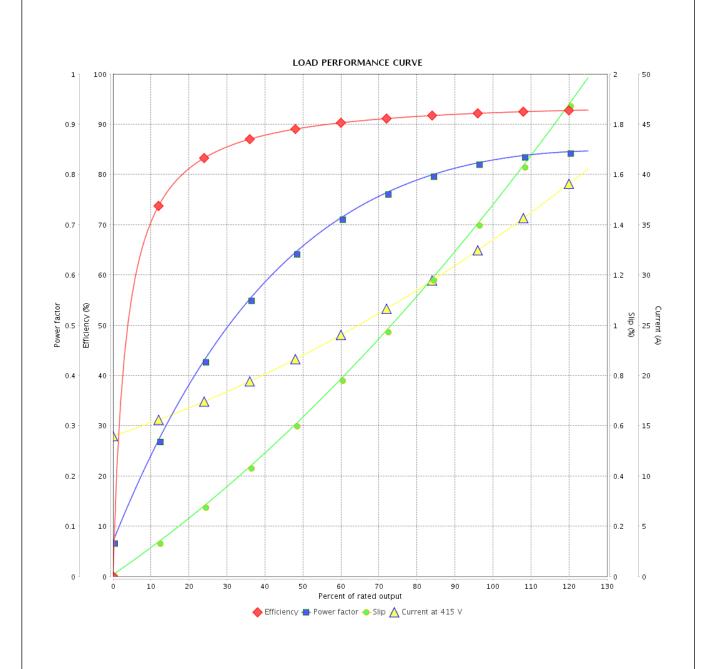
Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 03036OT3E284TS-W40G

14503875



Performance	: 4	415 V 50 Hz 2P IE3				
Rated current		33.6 A		f inertia (J)	: 1.59 sq.ft.lb	
LRC		6.7	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 4	14.4 ft.lb	Insulation		: F	
Locked rotor torqu	e : 2	200 %	Service fa	ctor	: 1.00	
Breakdown torque		270 %	Temperati	Temperature rise		
Rated speed	: 2	955 rpm Design		: B		
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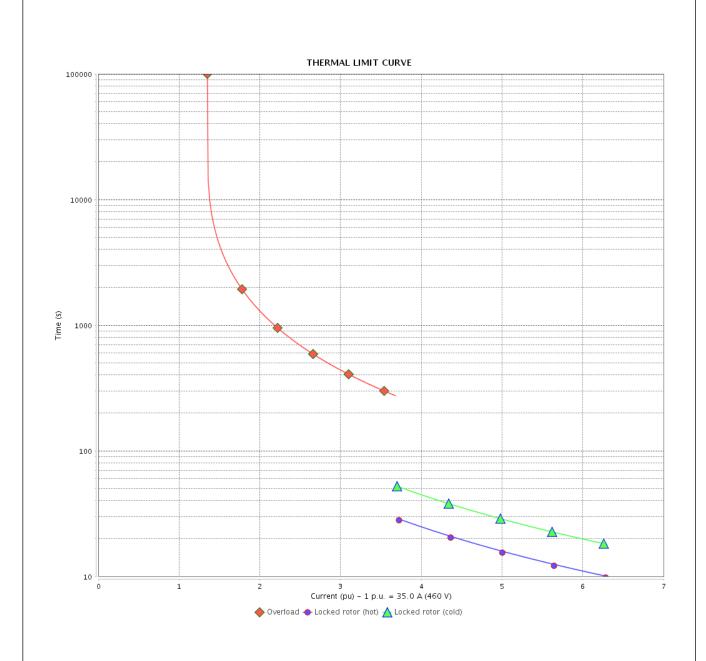


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14503875 03036OT3E2	84TS-W40G
Performance		: 230/460 V 60 Hz 2P	I			
Rated current LRC		: 70.0/35.0 A : 6.3	Moment of Duty cycle	of inertia (J) e	: 1.59 sq.ft.lb : Cont.(S1)	
Rated torque		: 44.4 ft.lb : 180 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		: 260 %	Temperati		: 80 K	
Rated speed		: 3550 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ	Changes Summers		Performed	Checked	Date
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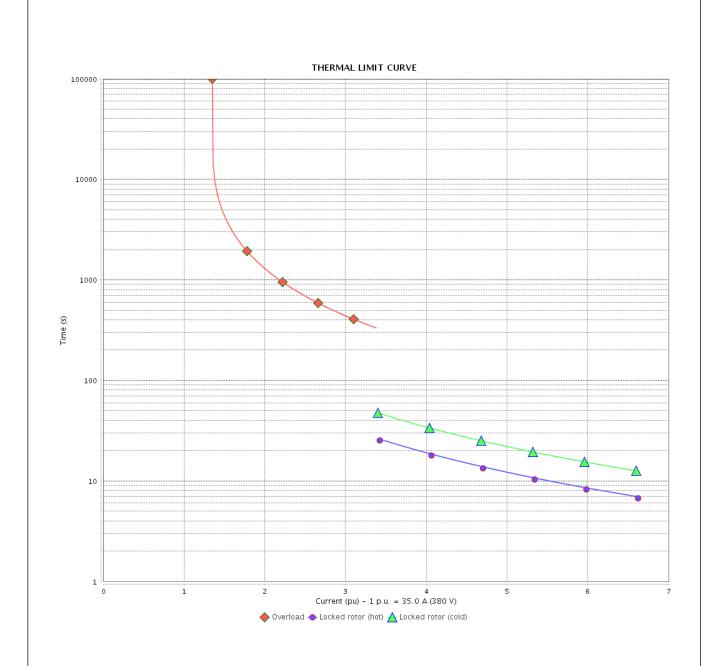


Customer	:			
Product line	: W40 NEMA Premium Effic Three-Phase		14503875	
		Catalog # :	03036OT3E28	34TS-W40G
Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.0 A : 6.6 : 44.7 ft.lb : 170 % : 240 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.59 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	·	-		
Cooling constant				
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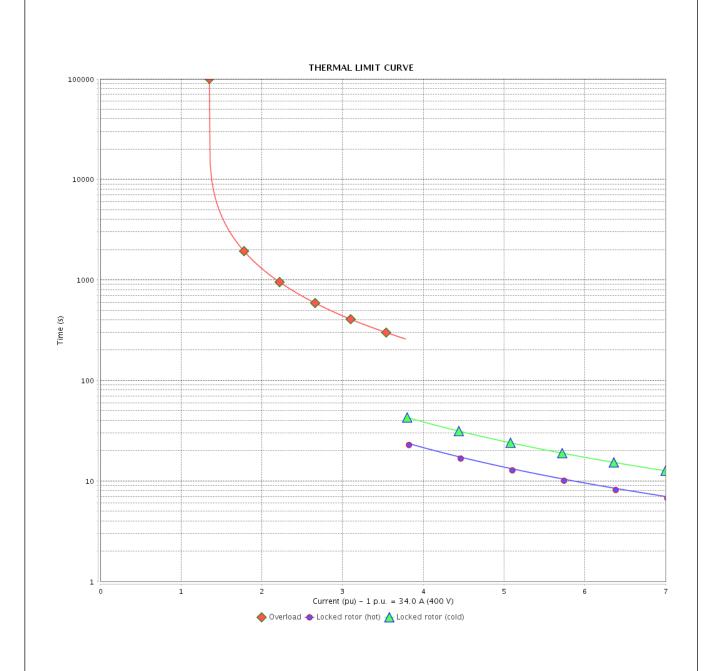


Customer	:					
Product line		N40 NEMA Premium Effici nree-Phase		Product code :	14503875 03036OT3E28	DATE MANO
					33333310120	
Performance		00 V 50 Hz 2P IE3				
Rated current LRC	: 34 : 7.	4.0 A 0	Moment of Duty cycle	f inertia (J)	: 1.59 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	4.5 ft.lb 90 %	Insulation Service fac	class	: F : 1.00	
Locked rotor torque Breakdown torque	: 26	60 %	Temperatu		: 80 K	
Rated speed	: 29	950 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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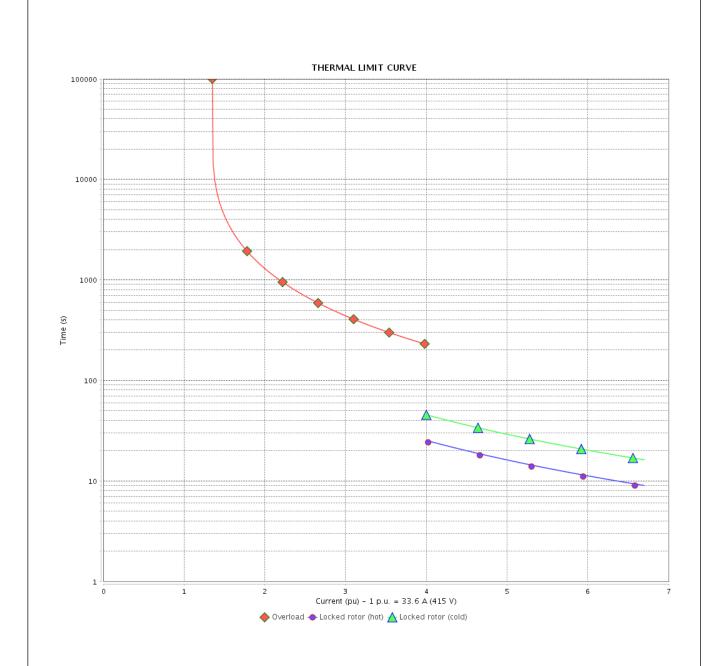


Customer	:				
Product line	: W40 NEMA Premium Efficie Three-Phase		Product code :	14503875 03036OT3E2	284TS-W40G
	: 415 V 50 Hz 2P IE3	B.4.	rt r r	4.50	
	: 33.6 A : 6.7	Moment of Duty cycle	f inertia (J)	: 1.59 sq.ft.lb : Cont.(S1)	
Rated torque	: 44.4 ft.lb	Insulation	class	: F	
	: 200 % : 270 %	Service far Temperatu		: 1.00 : 80 K	
	: 2955 rpm	Design	ire rise	: B	
Heating constant					
Cooling constant					
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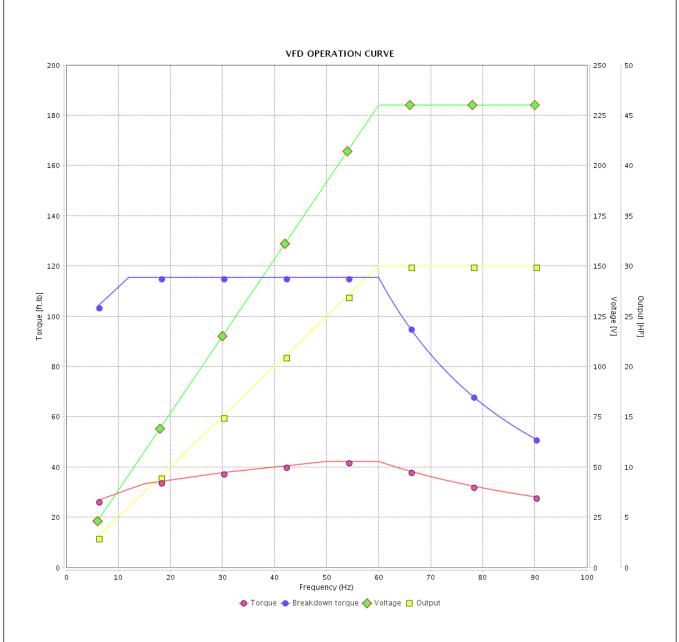
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Performance : 230/460 V 60 Hz 2P : 70.0/35.0 A Rated current Moment of inertia (J) : 1.59 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 44.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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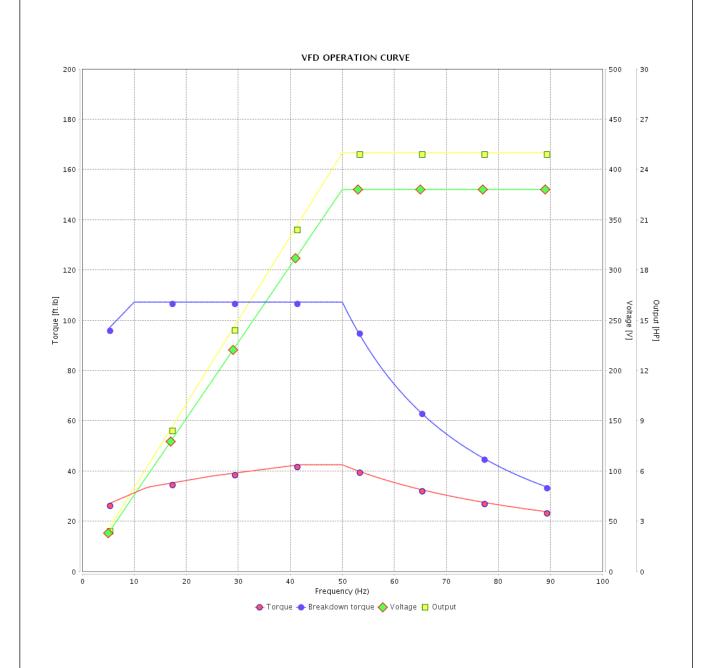
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Product code: 14503875

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Performance	: 3	: 380 V 50 Hz 2P IE3				
Rated current	Rated current : 35.0 A		Moment o	f inertia (J)	: 1.59 sq.ft.lb	
LRC	: 6	.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	4.7 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 1'	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	% Temperature rise		: 80 K	
Rated speed :		940 rpm	Design		: B	
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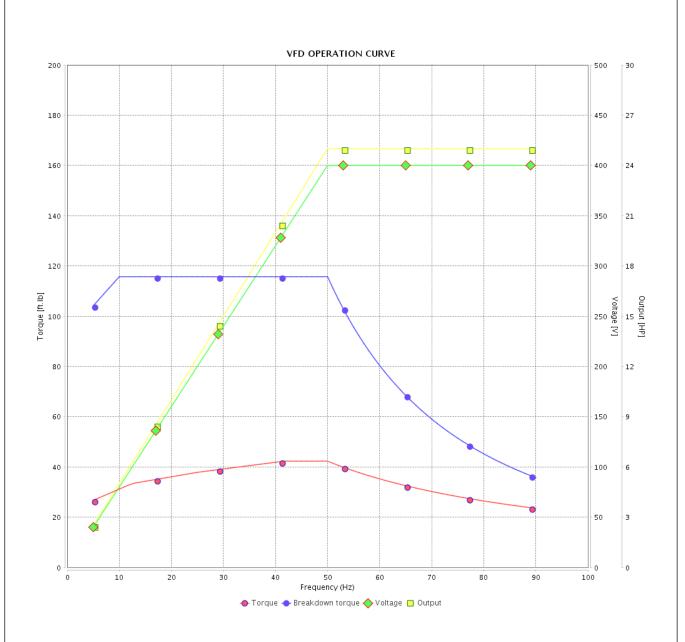
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503875

Catalog #: 03036OT3E284TS-W40G

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Performance	: 400 V 50 Hz 2P IE3				
Rated current : 34.0 A Moment of inertic LRC : 7.0 Duty cycle Rated torque : 44.5 ft.lb Insulation class Locked rotor torque : 190 % Service factor Breakdown torque : 260 % Temperature rise Rated speed : 2950 rpm Design		e class actor	: 1.59 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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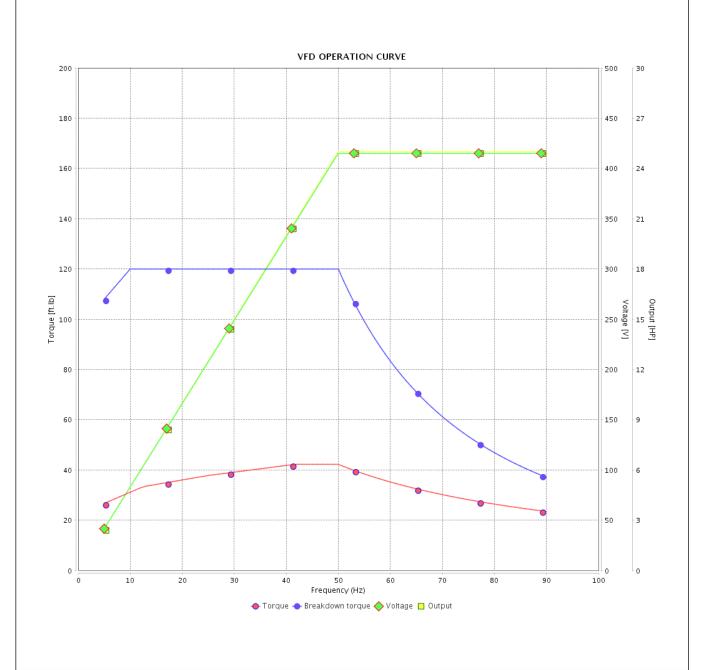
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Performance	:	: 415 V 50 Hz 2P IE3				
Rated current	urrent : 33.6 A Mor		Moment o	Moment of inertia (J)		
LRC	:	6.7	Duty cycle	;	: Cont.(S1)	
Rated torque	:	44.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	200 %	Service fa	ctor	: 1.00	
Breakdown torque	·		ıre rise	: 80 K		
Rated speed : 2955 rpn		2955 rpm	Design		: B	
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