DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14026894

Catalog #: 20036OT3G444TS-W40

Frame : 444/5TS

Insulation class

Duty cycle : Cont.(S1) : -20°C to +40°C Ambient temperature

: 1000 m.a.s.l. Altitude : IP23 Protection degree

Cooling method : IC01 - ODP Mounting : F-1

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line Approx. weight³ : 1267 lb

Moment of inertia (J) : 23.8 sq.ft.lb

Design		: B		. ,	
Output [HP]		200	175	175	175
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		225	239	230	224
L. R. Amperes [A]		1463	1530	1633	1658
LRC [A]		6.5x(Code G)	6.4x(Code G)	7.1x(Code H)	7.4x(Code H)
No load current [A]	67.0	66.4	74.0	80.5
Rated speed [RPN	/ []	3570	2965	2970	2970
Slip [%]		0.83	1.17	1.00	1.00
Rated torque [ft.lb]		294	310	309	309
Locked rotor torque [%]		140	140	150	160
Breakdown torque	[%]	229	210	229	240
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		37s (cold) 21s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)
Noise level ²		85.0 dB(A)			
	25%	92.4	91.3	91.4	91.5
Efficiency (%)	50%	93.0	92.8	92.8	92.9
Liliciency (70)	75%	94.5	93.9	93.9	94.0
100%		95.0	95.4	95.4	95.4
	25%	0.54	0.57	0.52	0.48
Power Factor	50%	0.79	0.81	0.77	0.74
I OWELL ACIO	75%	0.86	0.86	0.85	0.83
	100%	0.88	0.88	0.87	0.86

Drive end Non drive end

6314 C3 6212 Z C3 Without Without

Bearing Seal Bearing Seal 20000 h

14418 h Lubrication interval Lubricant amount 13 g Lubricant type Mobil Polyrex EM

Foundation loads

Max. traction : 1346 lb Max. compression : 2613 lb

Notes

Bearing type

Sealing

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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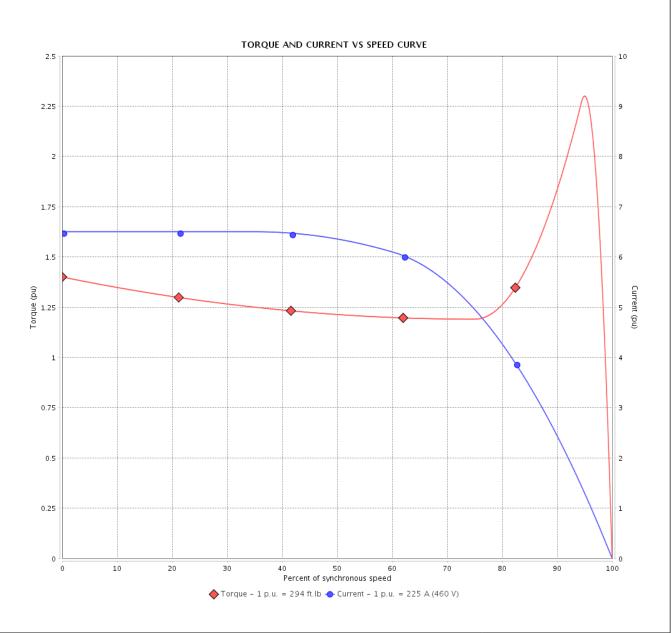
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14026894

Catalog # : 20036OT3G444TS-W40



Performance : 460 V 60 Hz 2P Rated current : 225 A Moment of inertia (J) : 23.8 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 294 ft.lb Service factor Locked rotor torque : 140 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3570 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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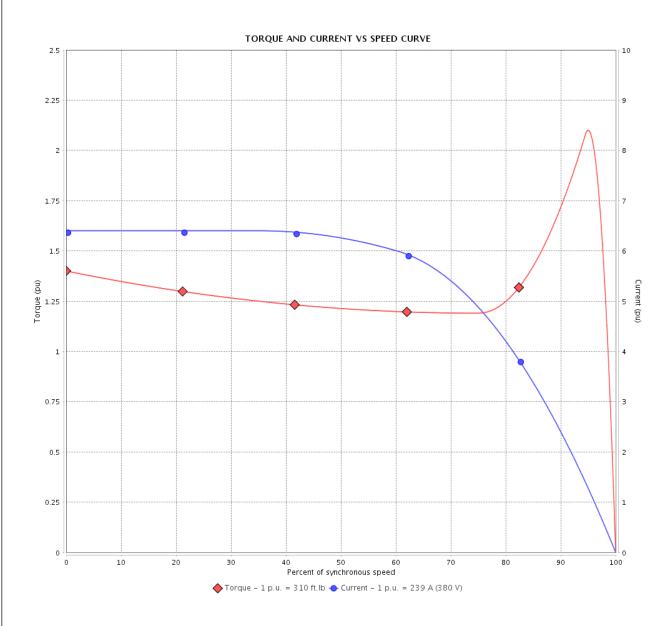
Customer :

Product line : W40 NEMA Premium Efficiency Produ

Three-Phase

Product code: 14026894

Catalog #: 20036OT3G444TS-W40



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 239 A	Moment of inertia (J)	: 23.8 sq.ft.lb	
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated torque	: 310 ft.lb	Insulation class	: F	
Locked rotor torque	: 140 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 2965 rpm	Design	: B	

Locked rotor time : 25s (cold) 14s (hot)

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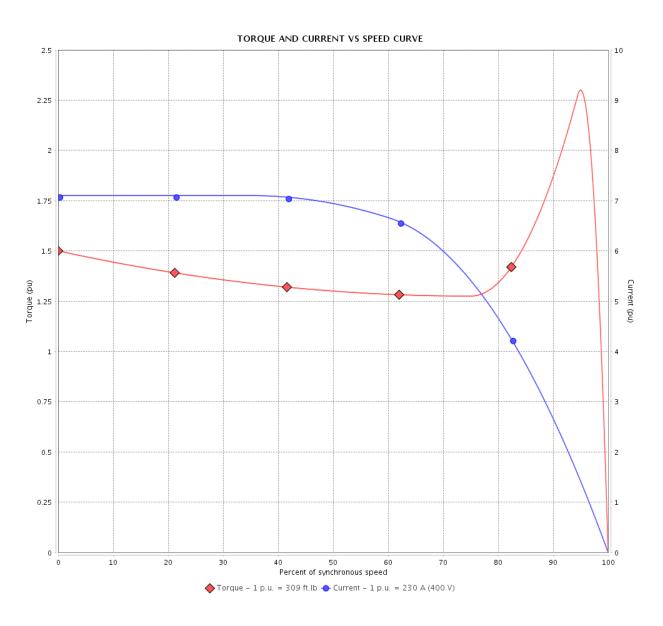
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14026894

Catalog #: 20036OT3G444TS-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 230 A Moment of inertia (J) : 23.8 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 309 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 150 % : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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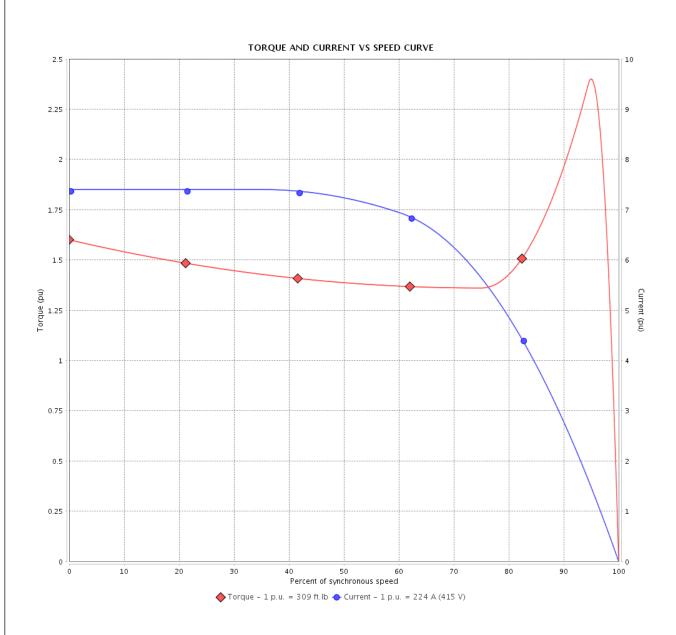


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14026894

Three-Phase

Catalog #: 20036OT3G444TS-W40



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 224 A	Moment of inertia (J)	: 23.8 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 309 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 2970 rpm	Design	: B	
Locked rotor time	: 23s (cold) 13s (bot)			

Locked rotor time : 23s (cold) 13s (hot)

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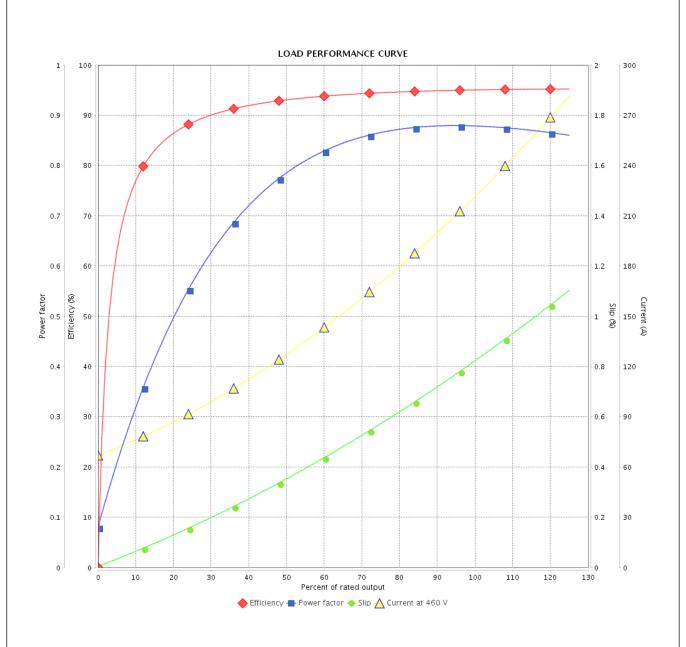
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Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 225 A : 6.5 : 294 ft.lb : 140 % : 229 % : 3570 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ector	: 23.8 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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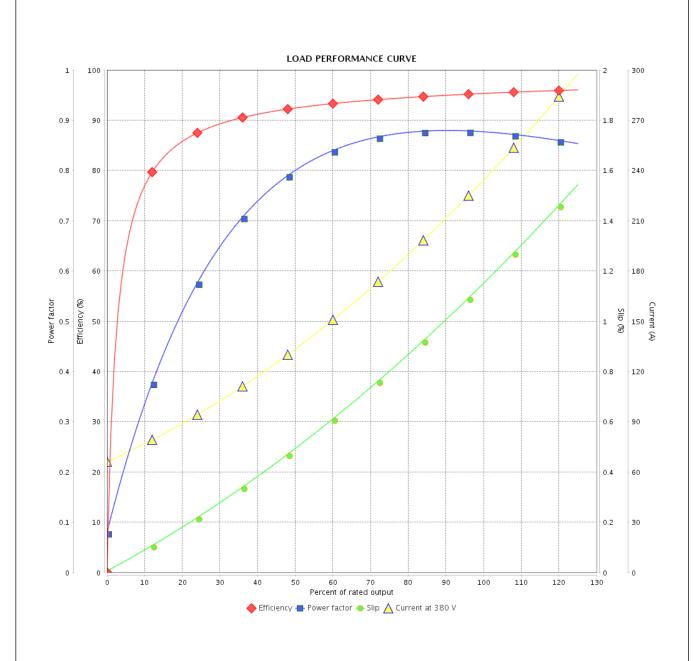
Customer

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 239 A : 6.4 : 310 ft.lb : 140 % : 210 % : 2965 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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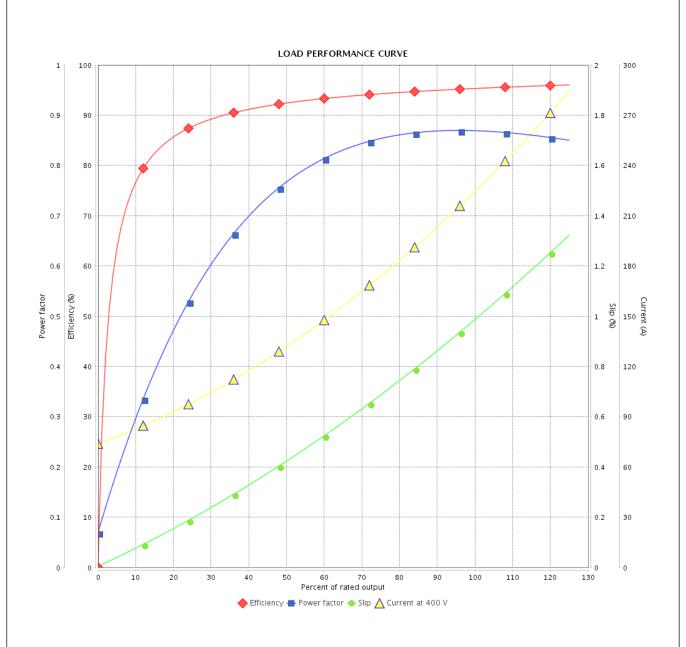
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Three-Phase

Product code: 14026894

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Performance	: 400 V 50 Hz 2P IE3	: 400 V 50 Hz 2P IE3							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 230 A : 7.1 : 309 ft.lb : 150 % : 229 % : 2970 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 23.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B					
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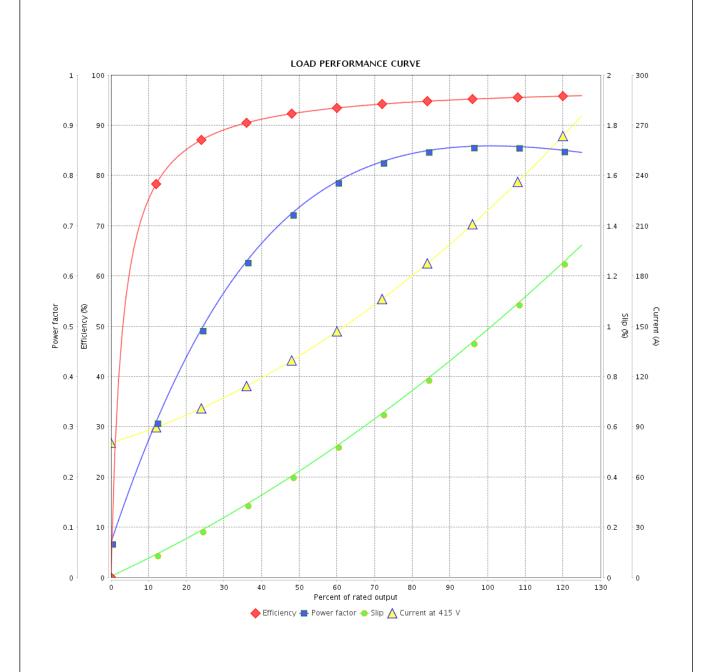


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14026894

Three-Phase

Catalog #: 20036OT3G444TS-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 2:	24 A	Moment o	Moment of inertia (J)		
LRC	: 7.	4	Duty cycle)	: Cont.(S1)	
Rated torque	: 30	09 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 10	60 %	Service fa	ctor	: 1.00	
Breakdown torque		40 %	Temperature rise		: 80 K	
Rated speed	: 29	70 rpm Design		: B		
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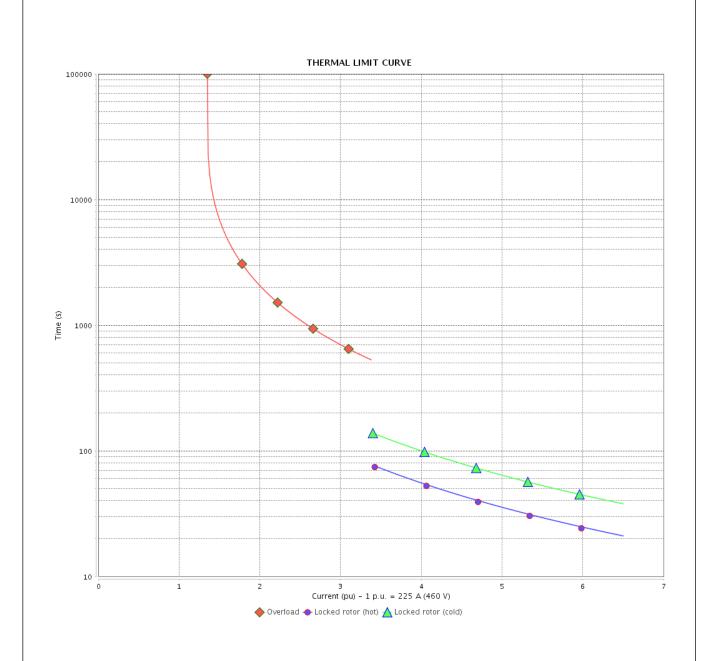


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14026894 20036OT3G4	44TS-W40
Performance		: 460 V 60 Hz 2P				
Rated current LRC		: 225 A : 6.5	Duty cycle		: 23.8 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 294 ft.lb : 140 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ue	: 229 %	Temperati		: 80 K	
Rated speed		: 3570 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Cummers		Dorform	Charkad	Doto
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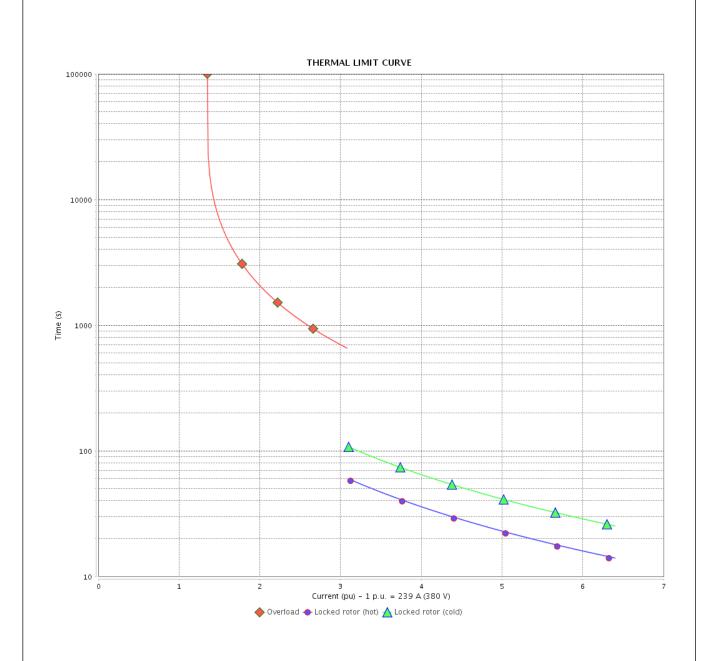


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14026894 20036OT3G4	44TS-W40
Performance		380 V 50 Hz 2P IE3				
Rated current LRC	:	239 A 6.4	Duty cycle		: 23.8 sq.ft.lb : Cont.(S1)	
Rated torque		310 ft.lb	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		140 % 210 %	Temperatu		: 1.00 : 80 K	
Rated speed		2965 rpm	Design		: B	
Heating constant						
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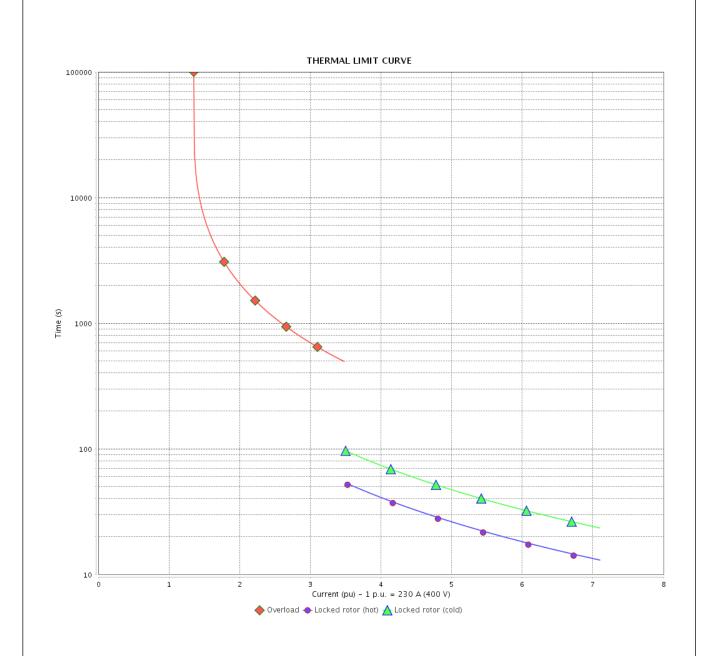


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Customer	:					
Product line		W40 NEMA Premium Efficie nree-Phase	ency f	Product code :	14026894	
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Performance		00 V 50 Hz 2P IE3				
Rated current LRC	: 23 : 7.	30 A 1	Moment of Duty cycle	finertia (J)	: 23.8 sq.ft.lb : Cont.(S1)	
Rated torque		09 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 15	50 %	Service fac	ctor	: 1.00	
Breakdown torque Rated speed	ie : 22	29 % 970 rpm	Temperatu Design	re rise	: 80 K : B	
Heating constant	:					
Cooling constant						
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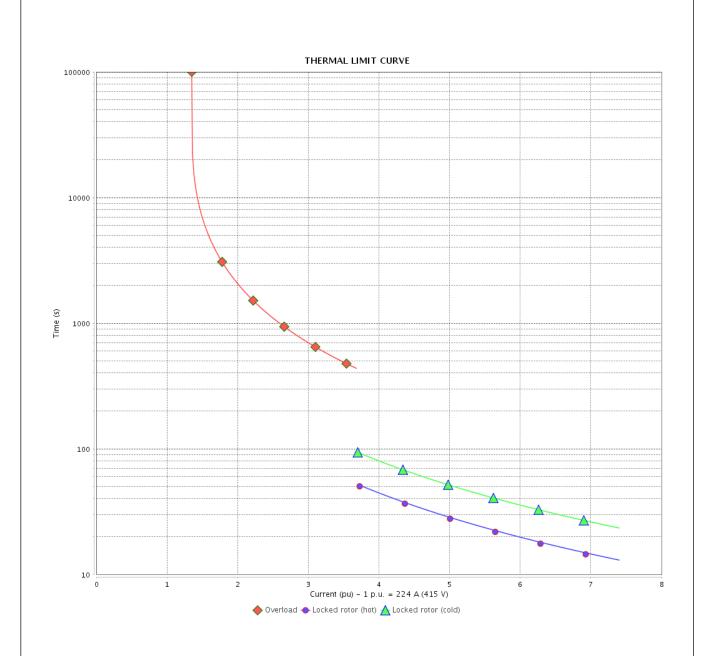


Customer	:			
Product line	: W40 NEMA Premium Efficie Three-Phase	ncy Product code : Catalog # :	14026894 20036OT3G4	144TS-W40
Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 224 A	Moment of inertia (J)	: 23.8 sq.ft.lb	
LRC Rated torque	: 7.4 : 309 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 240 % : 2970 rpm	Temperature rise Design	: 80 K : B	
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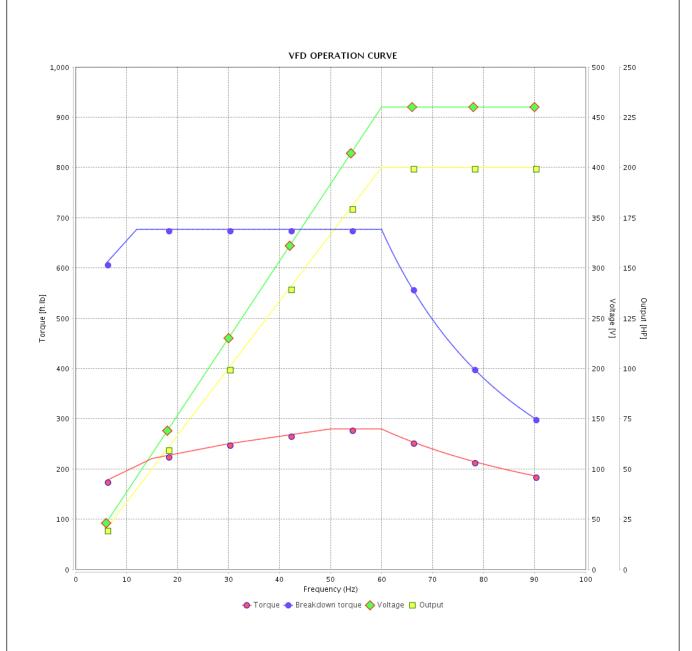
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Three-Phase

Product code: 14026894

Catalog # : 20036OT3G444TS-W40

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Performance : 460 V 60 Hz 2P : 225 A Rated current Moment of inertia (J) : 23.8 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 294 ft.lb : F Locked rotor torque : 140 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3570 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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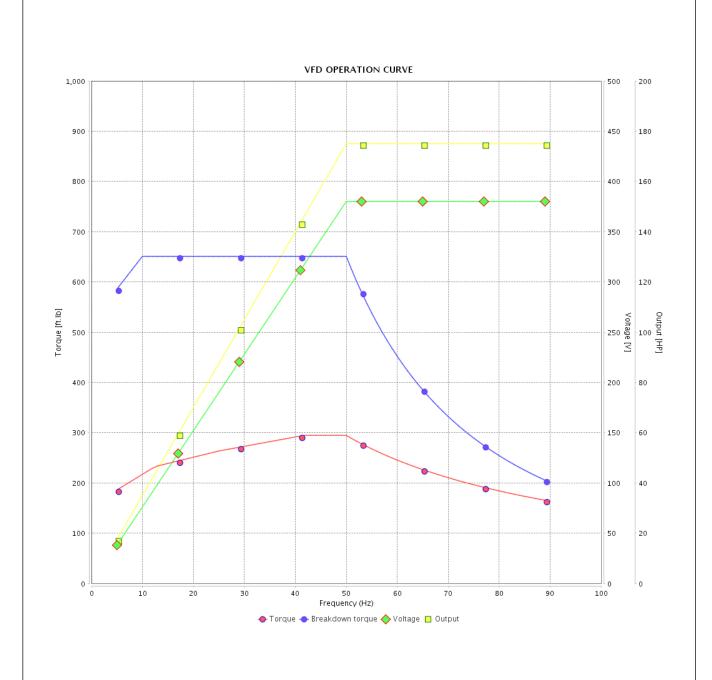
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Catalog # : 20036OT3G444TS-W40

14026894



Performance	: 380 V 50 Hz 2P IE3					
Rated current : 239 A		Moment of	f inertia (J)	: 23.8 sq.ft.lb		
LRC	: 6	.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	10 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 14	40 %	Service fa	ctor	: 1.00	
·		10 %	Temperati	Temperature rise		
Rated speed		965 rpm	Design	Design		
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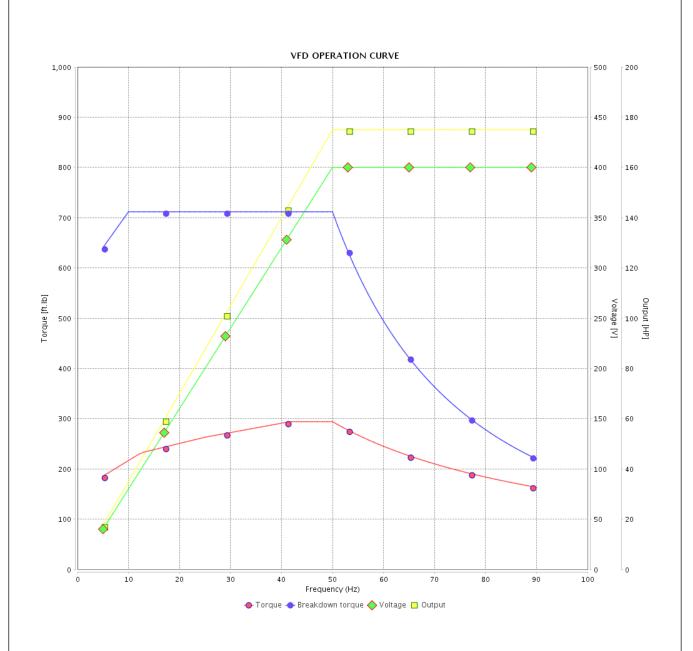
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Three-Phase

Product code: 14026894

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Performance : 400 V 50 Hz 2P IE3 : 230 A Rated current Moment of inertia (J) : 23.8 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 309 ft.lb Insulation class Rated torque : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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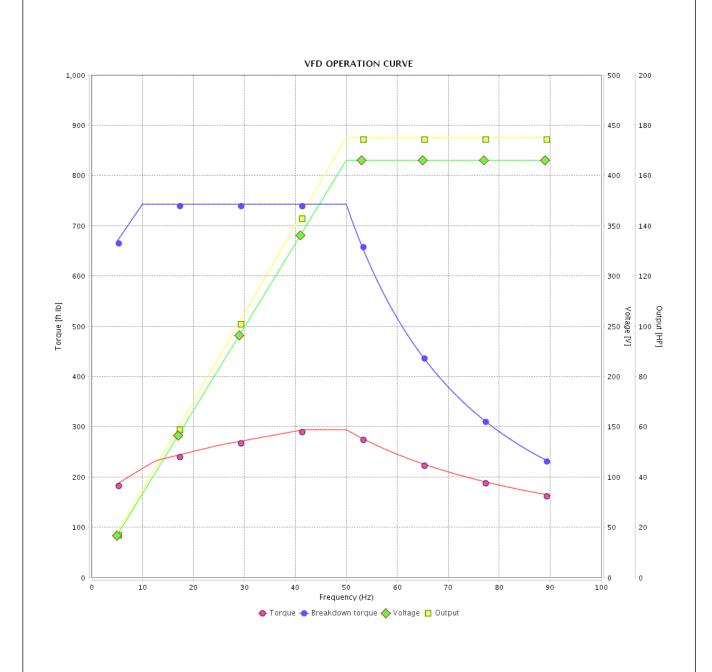
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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current : 224 A Moi		Moment o	of inertia (J)	: 23.8 sq.ft.lb		
LRC	: 7	.4	Duty cycle	e	: Cont.(S1)	
Rated torque	: 3	09 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	60 %	Service fa	ictor	: 1.00	
Breakdown torque		40 %	Temperati	Temperature rise		
Rated speed	: 2	970 rpm	Design	Design		
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