### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 20036OT3G444TSC-W40

14272424

Frame : 444/5TSC Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Starting method : Direct On Line

Ambient temperature Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1320 lb : IP23 Moment of inertia (J) : 23.8 sq.ft.lb

Protection degree

Design	•	: B	Wioment of the	. 20.0	oq.it.ib
Output [HP]		200	175	175	175
Poles		2	2	2	2
Frequency [Hz]	Frequency [Hz]		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 [RPM	1]	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 <sup>2</sup>		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)	Efficiency (%) 75%		93.9	93.9	94.0
100%		95.0	95.4	95.4	95.4
	25%	0.54 0.79	0.57	0.52	0.48
Power Factor	Power Factor 50%		0.81	0.77	0.74
1 OWCI I ACIOI	75%	0.86	0.86	0.85	0.83
	100%	0.88	0.88	0.87	0.86

Drive end Non drive end Foundation loads

6314 C3 Bearing type 6212 Z C3 Max. traction : 1319 lb Without Sealing Without Max. compression : 2639 lb Bearing Seal Bearing Seal

14418 h 20000 h Lubrication interval 13 g Lubricant amount 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.

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#### Three Phase Induction Motor - Squirrel Cage



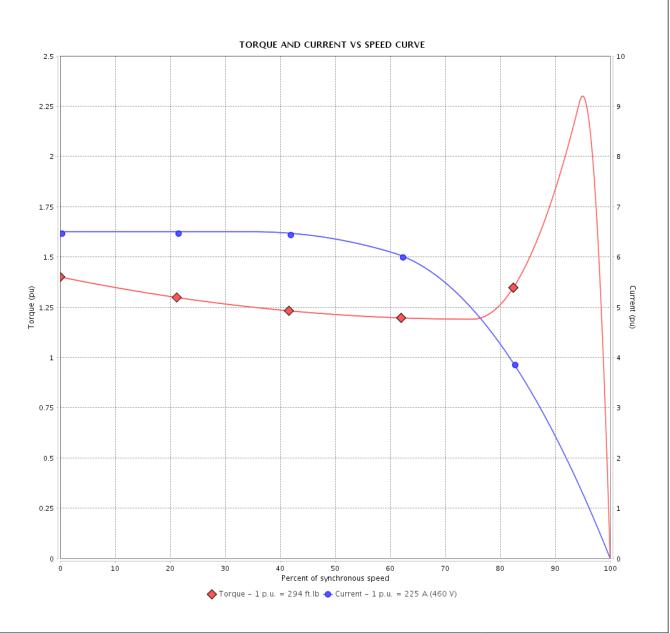
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272424

Catalog #: 20036OT3G444TSC-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) Insulation class Rated torque : 294 ft.lb : F 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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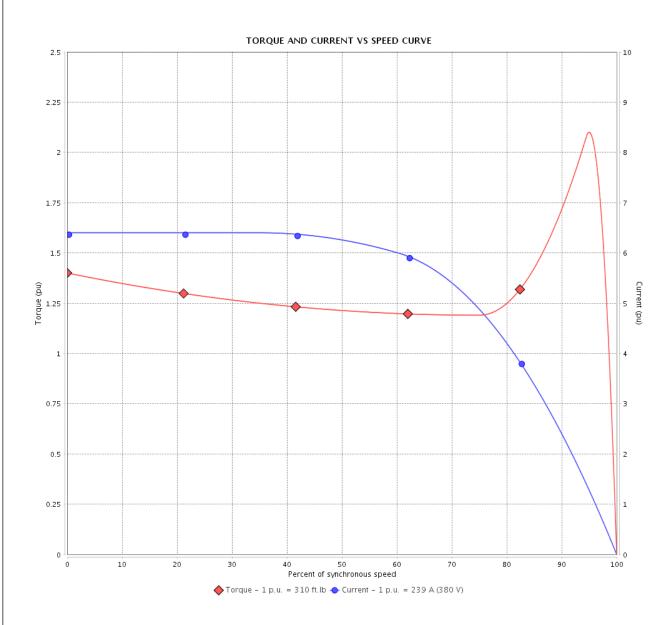


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272424

Three-Phase

Catalog #: 20036OT3G444TSC-W40



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

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

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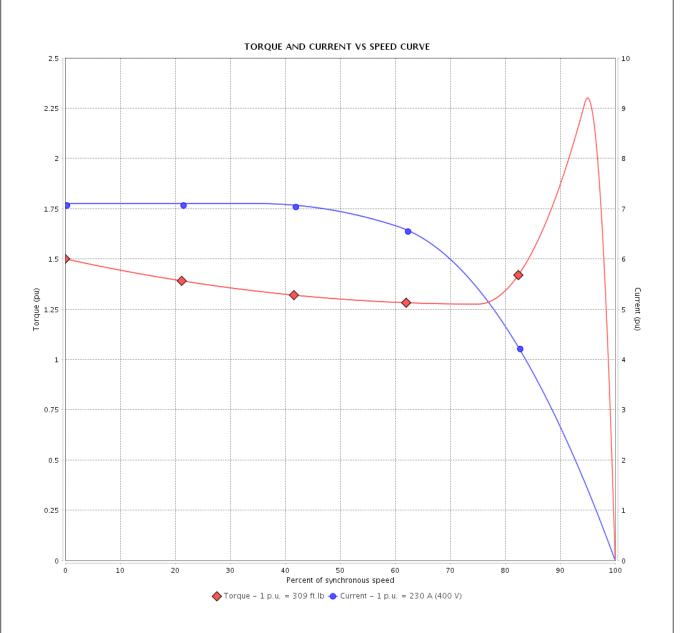


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272424

Three-Phase

Catalog #: 20036OT3G444TSC-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)

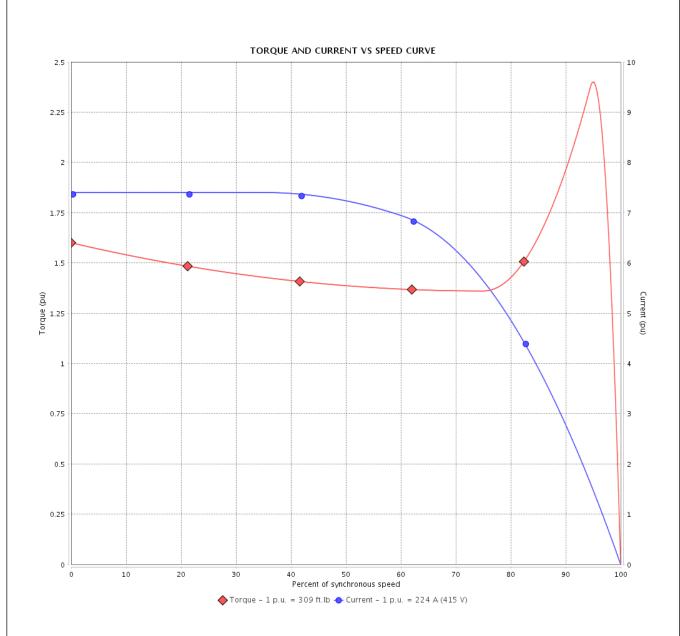
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Customer Product line : W40 NEMA Premium Efficiency Product code: 14272424

> Catalog #: 20036OT3G444TSC-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 (hot)		

Locked folor tilling	. 2	55 (COId) 135 (110t)			
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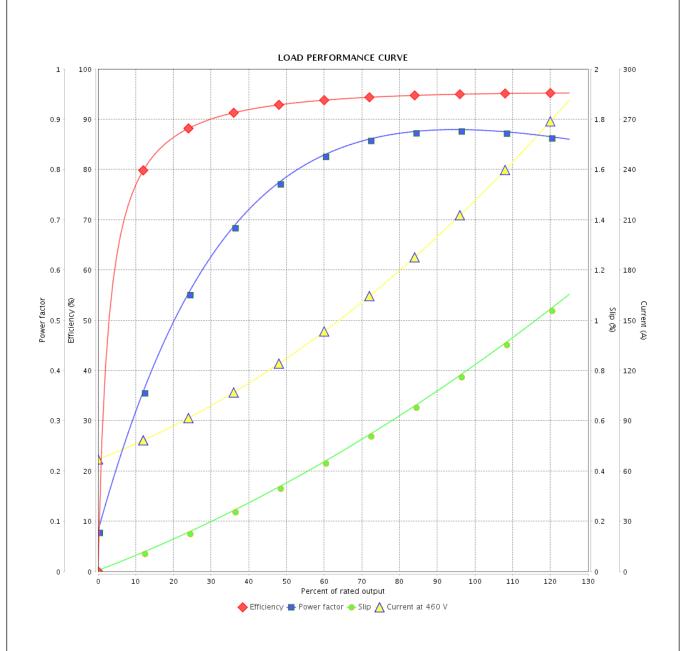
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272424

Catalog #: 20036OT3G444TSC-W40

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Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 225 A		Duty cycle Insulation class Service factor Temperature rise		
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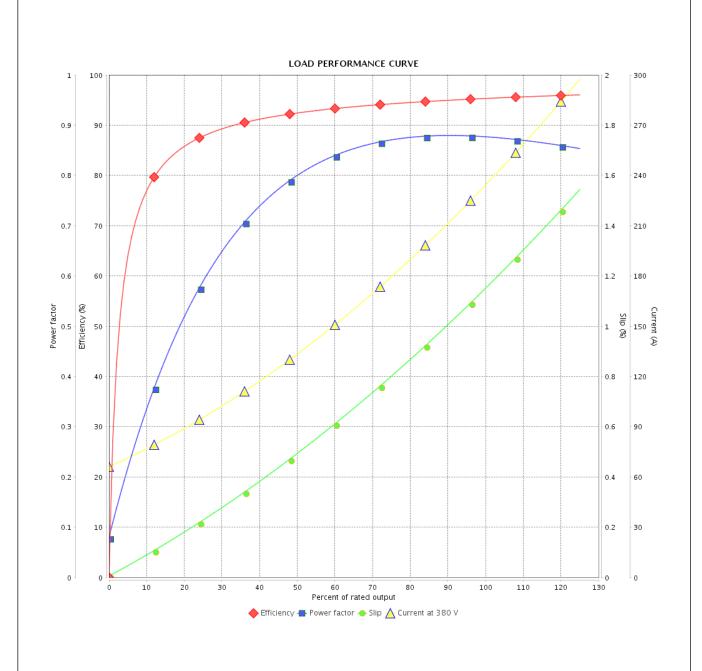
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 20036OT3G444TSC-W40

14272424



Performance	: 3	: 380 V 50 Hz 2P IE3				
Rated current	: 2	239 A	Moment o	f inertia (J)	: 23.8 sq.ft.lb	
LRC	: 6	6.4	Duty cycle	)	: Cont.(S1)	
Rated torque	: 3	310 ft.lb	Insulation	class	: F	
Locked rotor toro	que : 1	40 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 2	210 %	Temperature rise		: 80 K	
Rated speed	: 2	65 rpm Design		: B		
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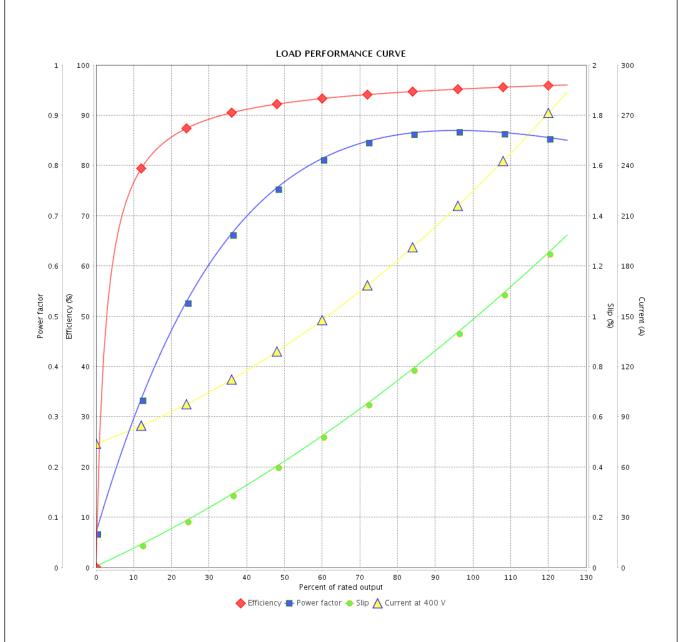
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272424

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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)	
Rated torque	: 309 ft.lb	Insulation	class	: F	
Locked rotor torque	: 150 %	Service fa	ctor	: 1.00	
Breakdown torque	: 229 %	Temperature rise		: 80 K	
Rated speed	: 2970 rpm	Design		: B	
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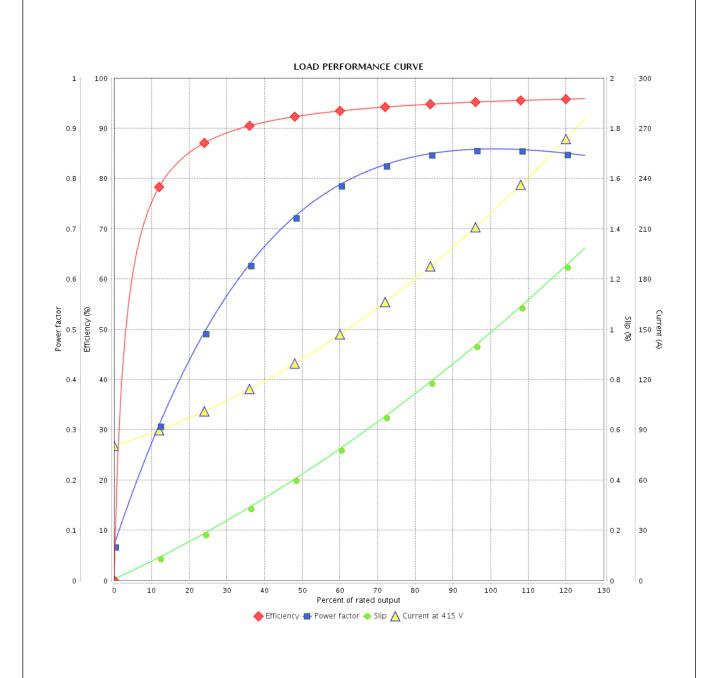


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Product line : W40 NEMA Premium Efficiency Product code : 14272424

Three-Phase

Catalog #: 20036OT3G444TSC-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 2	: 224 A		f inertia (J)	: 23.8 sq.ft.lb	
LRC	: 7	4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	09 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 1	60 %	Service fa	ctor	: 1.00	
Breakdown torque		40 %	Temperature rise		: 80 K	
Rated speed	: 2	970 rpm	Design		: B	
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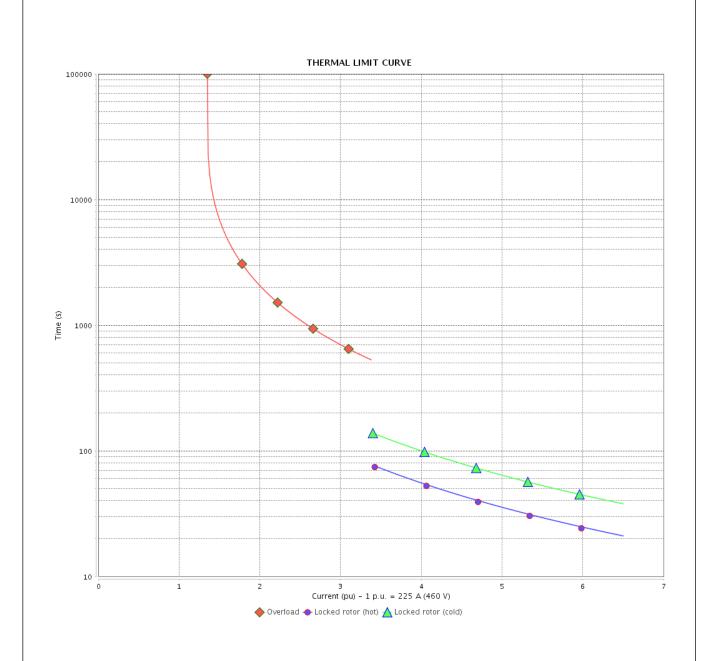


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Product line	: \ Tt	W40 NEMA Premium Efficienree-Phase		Product code :	14272424 20036OT3G4	44TSC-W40
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque	: 22 : 6. : 29 ue : 1 <sup>4</sup> ue : 22	94 ft.lb 10 % 29 %	Moment of Duty cycle Insulation Service fac Temperatu	class	: 23.8 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed Heating constant Cooling constant Rev.	t	Changes Summary	Design	Performed	: B	Date
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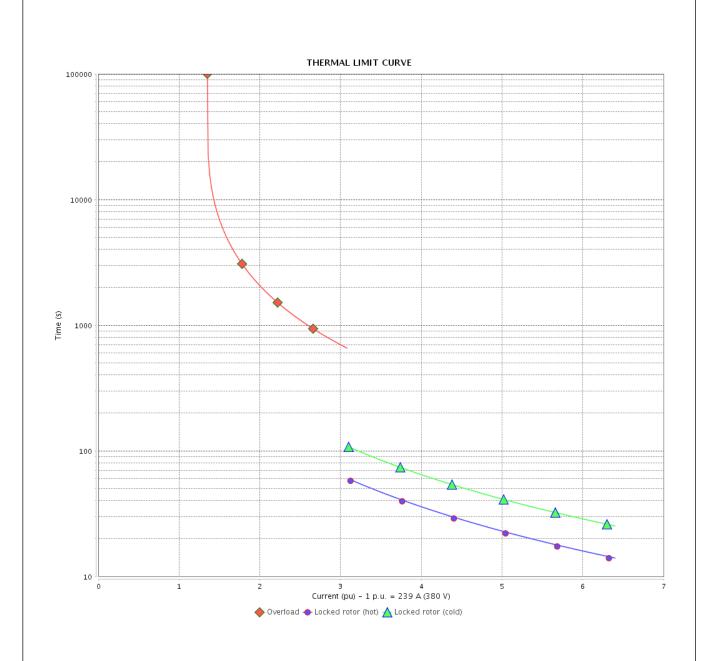


Customer	:					
Product line		W40 NEMA Premium Efficie hree-Phase		Product code :	14272424	
			(	Catalog # :	20036OT3G4	44TSC-W40
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current	: 23 : 6.	39 A	Moment of	inertia (J)	: 23.8 sq.ft.lb	
LRC Rated torque		4 10 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq	ue : 14	40 %	Service fac	ctor	: 1.00	
Breakdown torqu Rated speed		10 % 965 rpm	Temperatu Design	re rise	: 80 K : B	
Heating constant						
Cooling constant						
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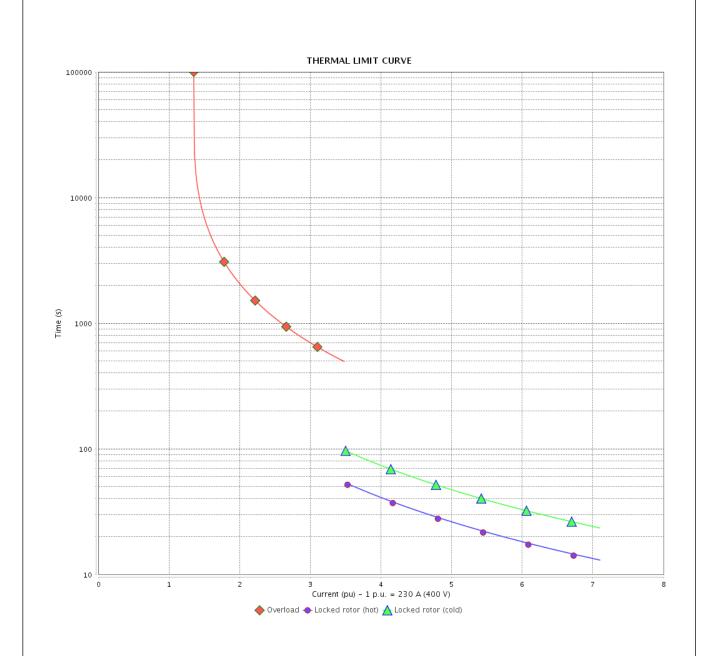


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Droduct line		NAC NEMA Descriptor Efficiency			14070404	
Product line		W40 NEMA Premium Efficie  Fhree-Phase		Product code :	14272424	
			(	Catalog # :	20036OT3G4	44TSC-W40
Performance		400 V 50 Hz 2P IE3				
Rated current LRC		230 A 7.1	Moment of Duty cycle	f inertia (J)	: 23.8 sq.ft.lb : Cont.(S1)	
Rated torque	: 3	309 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		150 % 229 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed		2970 rpm	Design	ii e rise	: B	
Heating constant						
Cooling constant						
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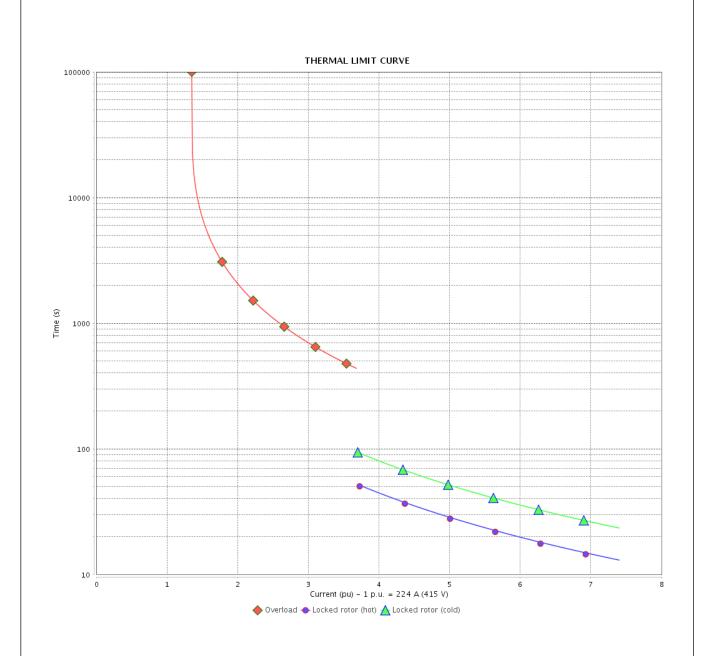


Customer	:					
Product line	: \ TI	N40 NEMA Premium Efficie nree-Phase		Product code :	14272424	
			(	Catalog # :	20036OT3G4	44TSC-W40
Performance	: 4′	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22 : 7. : 30 : 16 : 2 <sup>2</sup>	24 A	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 23.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
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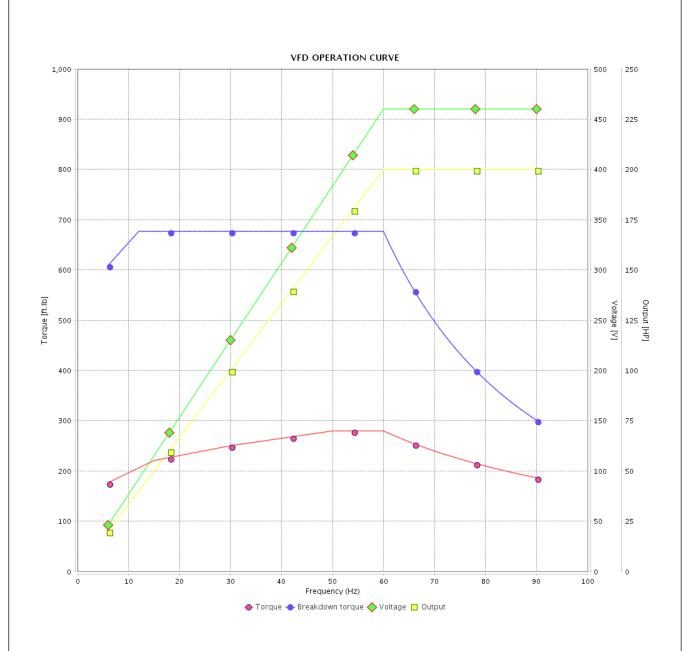
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272424

Catalog #: 20036OT3G444TSC-W40



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

#### Three Phase Induction Motor - Squirrel Cage



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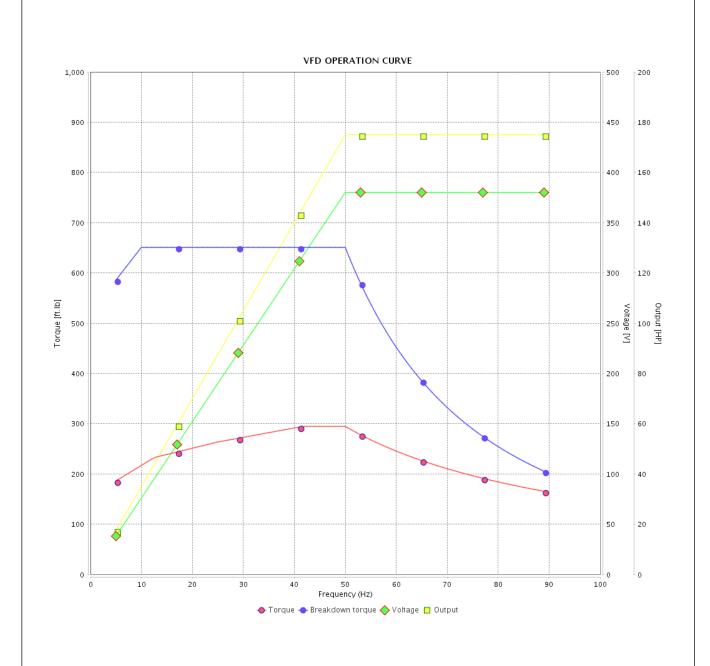
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Product code: 14272424

Catalog # : 20036OT3G444TSC-W40

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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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 23.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Product line : W40 NEMA Premium Efficiency

Three-Phase

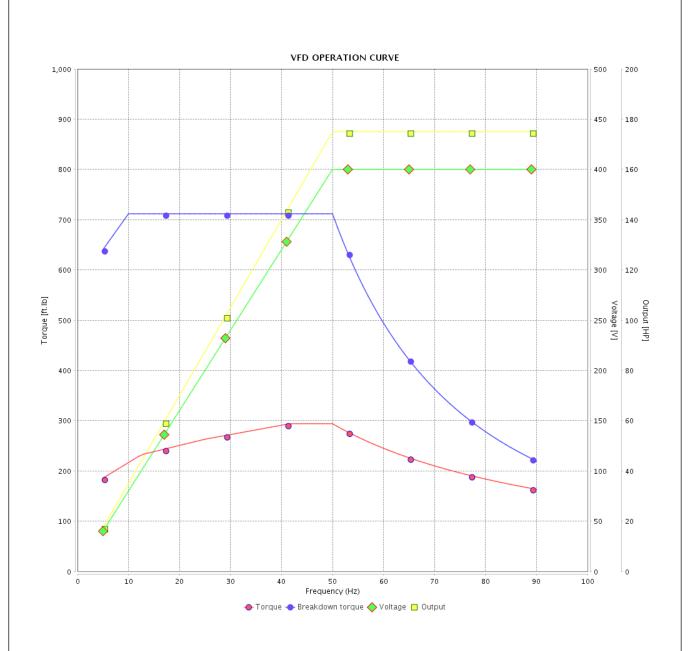
Product code: 14272424

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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

#### Three Phase Induction Motor - Squirrel Cage



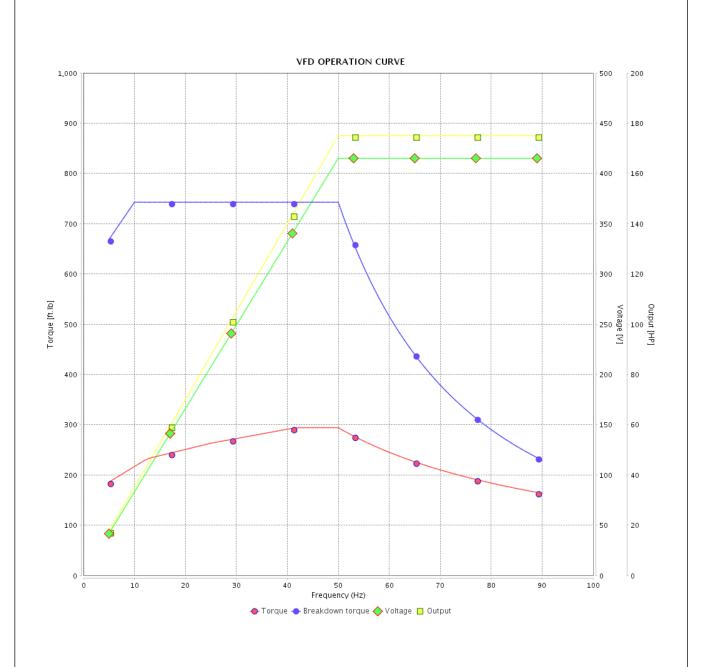
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272424

Catalog #: 20036OT3G444TSC-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	Rated current : 224 A		Moment o	f inertia (J)	: 23.8 sq.ft.lb	
LRC	: 7	.4	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 3	09 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	60 %	Service factor		: 1.00	
Breakdown torqu	e : 2	40 %	% Temperature rise		: 80 K	
Rated speed	: 2	970 rpm	Design		: B	
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