DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 12536OT3E404TS-W40G

14272927

Frame : 404/5TS Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 886 lb Altitude Moment of inertia (J) : 8.23 sq.ft.lb Protection degree

Protection degree		: IP23	Moment of in	ertia (J)	sq.ft.lb
Design		: B			
Output [HP]		125	100	100	100
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		272/136	137	133	131
L. R. Amperes [A]		1850/925	986	931	1022
LRC [A]		6.8x(Code G)	7.2x(Code H)	7.0x(Code H)	7.8x(Code J)
No load current [A]	72.0/36.0	33.0	36.5	40.0
Rated speed [RPN	<i>/</i> 1]	3557	2955	2960	2965
Slip [%]		1.19	1.50	1.33	1.17
Rated torque [ft.lb]		185	178	177	177
Locked rotor torque [%]		170	170	190	200
Breakdown torque	[%]	260	250	280	290
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		21s (cold) 12s (hot)	16s (cold) 9s (hot)	19s (cold) 11s (hot)	16s (cold) 9s (hot)
Noise level ²		84.0 dB(A)			
	25%	92.8	90.2	90.3	90.3
Efficiency (%)	50%	93.0	91.9	92.0	92.0
Efficiency (70)	75%	94.1	92.9	92.9	92.9
100%		94.1	94.7	94.7	94.7
	25%	0.57	0.59	0.55	0.48
Power Factor	50%	0.79	0.80	0.77	0.70
1 OWELL ACIOI	75%	0.86	0.86	0.84	0.80
	100%	0.88	0.88	0.86	0.84

Non drive end Foundation loads **Drive** end

Bearing type 6314 C3 6212 Z C3 Max. traction : 1097 lb Without Sealing Without Max. compression : 1983 lb

Bearing Seal Bearing Seal

14418 h 20000 h Lubrication interval Lubricant amount 13 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 301A SF 1.15 SFA 346A

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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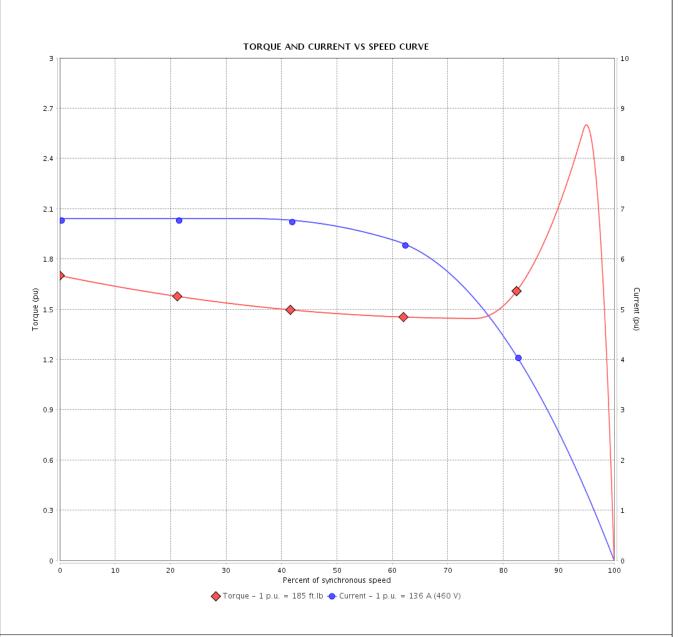


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272927

Three-Phase

Catalog #: 12536OT3E404TS-W40G



Performance : 230/460 V 60 Hz 2P Rated current : 272/136 A Moment of inertia (J) : 8.23 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 185 ft.lb : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3557 rpm Design : B

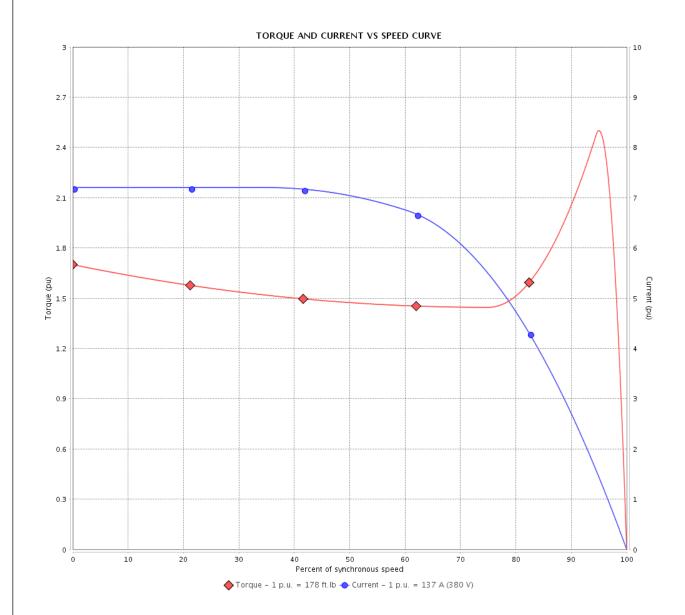
Locked rotor time : 21s (cold) 12s (hot)

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Customer Product line : W40 NEMA Premium Efficiency Product code: 14272927 Three-Phase Catalog #: 12536OT3E404TS-W40G



Performance : 380 V 50 Hz 2P IE3 Rated current : 137 A Moment of inertia (J) : 8.23 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 178 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K : B Rated speed : 2955 rpm Design Locked rotor time : 16s (cold) 9s (hot)

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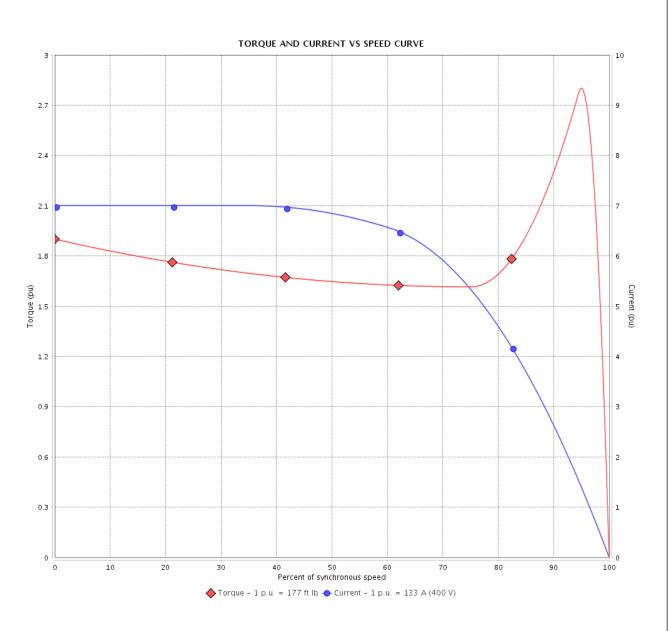


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272927

Three-Phase

Catalog #: 12536OT3E404TS-W40G



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 133 A	Moment of inertia (J)	: 8.23 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 177 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B
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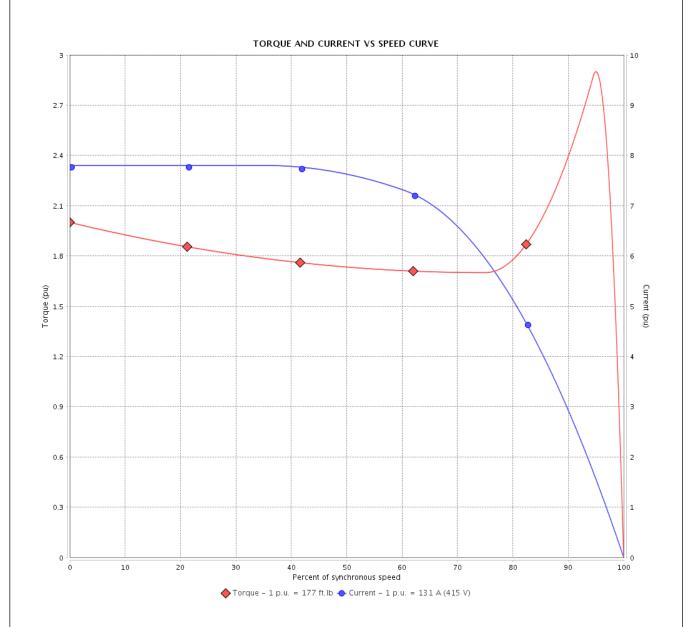
Locked rotor time : 19s (cold) 11s (hot)

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Customer Product line : W40 NEMA Premium Efficiency Product code: 14272927 Three-Phase Catalog #: 12536OT3E404TS-W40G



Performance : 415 V 50 Hz 2P IE3 Rated current : 131 A Moment of inertia (J) : 8.23 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 177 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K : B Rated speed : 2965 rpm Design Locked rotor time : 16s (cold) 9s (hot)

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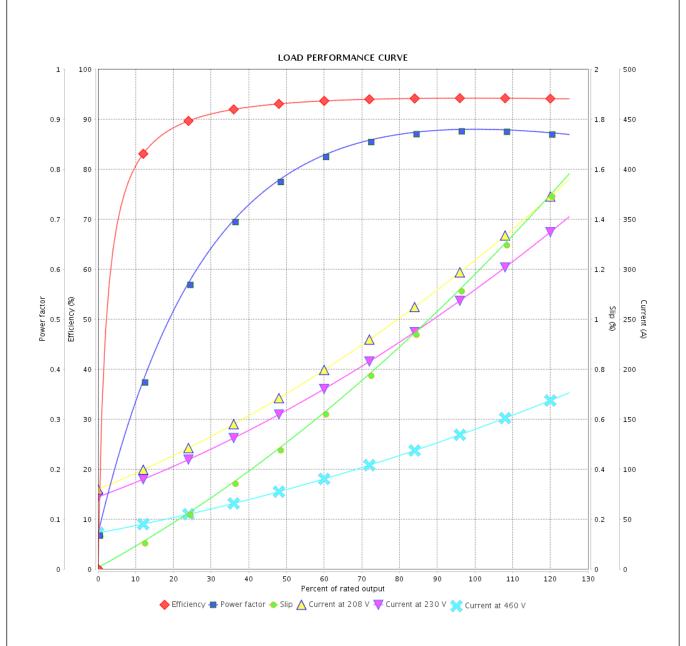
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272927

Catalog #: 12536OT3E404TS-W40G



Performance : 230/460 V 60 Hz 2P : 272/136 A Rated current Moment of inertia (J) : 8.23 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 : 185 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3557 rpm Design : B Rev. **Changes Summary** Performed Checked Date

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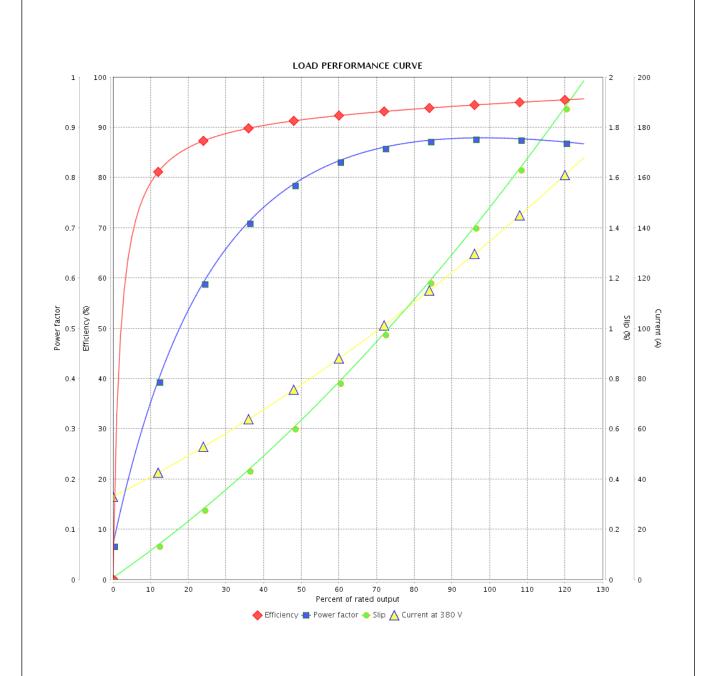


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272927

Three-Phase

Catalog #: 12536OT3E404TS-W40G



Performance	: 3	: 380 V 50 Hz 2P IE3				
Rated current	: 1	37 A	Moment of	f inertia (J)	: 8.23 sq.ft.lb	
LRC	: 7	.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	78 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1'	70 %	Service fa	ctor	: 1.00	
Breakdown torque	Breakdown torque : 250 %		Temperat	Temperature rise		
Rated speed	: 2	955 rpm	Design		: B	
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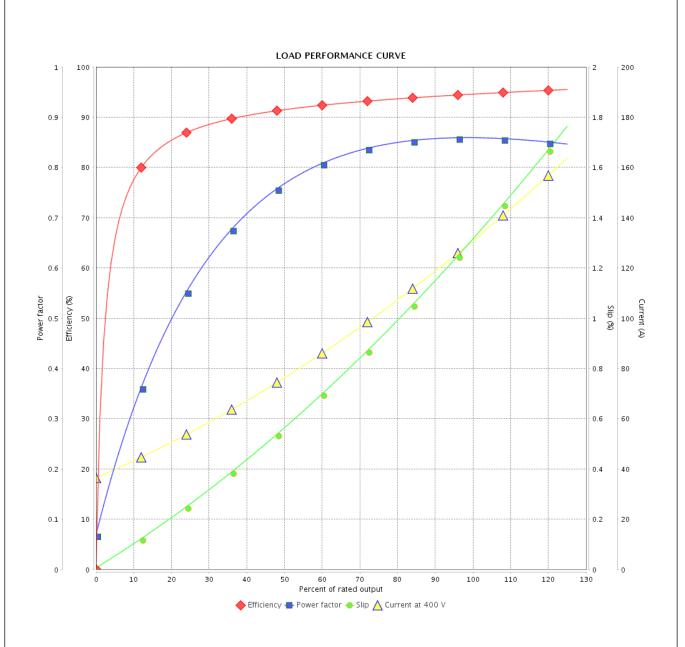
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Three-Phase

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 133 A : 7.0 : 177 ft.lb : 190 % : 280 % : 2960 rpm	Moment of inertia (J) : 8.23 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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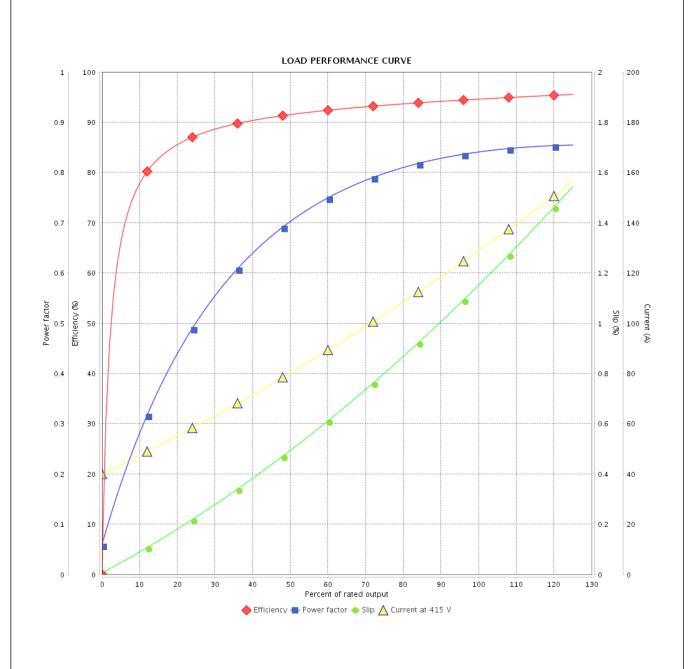


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272927

Three-Phase

Catalog #: 12536OT3E404TS-W40G



Performance	:	415 V 50 Hz 2P IE3				
Rated current	:	131 A	Moment o	f inertia (J)	: 8.23 sq.ft.lb	
LRC	:	7.8	Duty cycle	` '	: Cont.(S1)	
Rated torque	:	177 ft.lb	Insulation		: F ` ´	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.00	
Breakdown torque		290 %	Temperati	Temperature rise		
Rated speed		2965 rpm	Design		: B	
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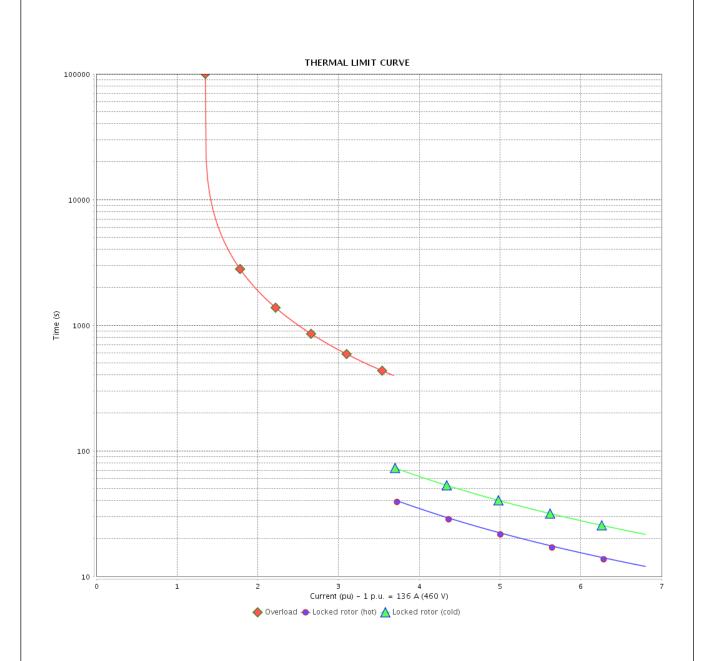


Customer		:				
Product line		: W40 NEMA Premium Efficion Three-Phase		Product code : Catalog # :	14272927 12536OT3E40	04TS-W40G
Performance	:	230/460 V 60 Hz 2P				
Rated current LRC Rated torque	:	272/136 A 6.8 185 ft.lb	Duty cycle Insulation	class	: 8.23 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie :	170 % 260 % 3557 rpm	Service fa Temperatu Design		: 1.25 : 80 K : B	
Heating constant						
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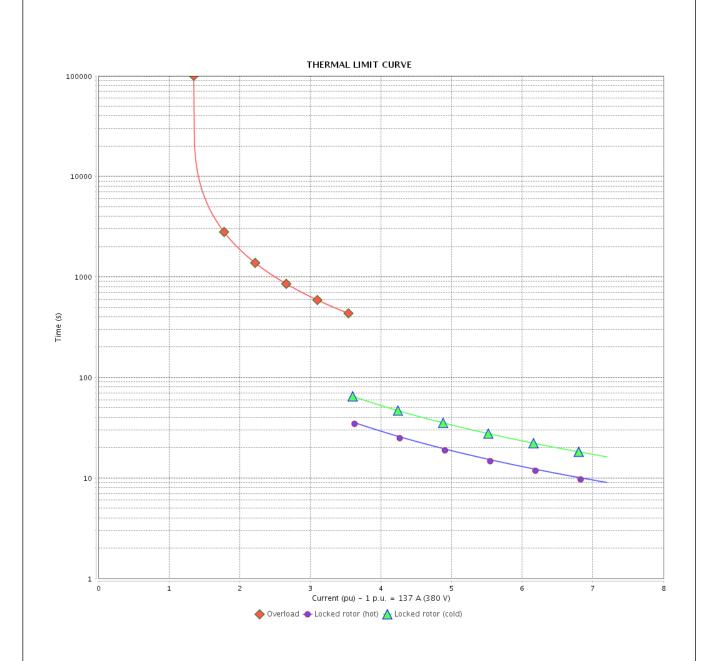


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272927 12536OT3E40	04TS-W40G
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Performance		380 V 50 Hz 2P IE3	Momento	finartia (I)	. 0 22 og ft lb	
Rated current LRC	:	137 A 7.2	Duty cycle		: 8.23 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		178 ft.lb 170 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	250 %	Temperatu		: 80 K	
Rated speed		2955 rpm	Design		: B	
Heating constant Cooling constant						
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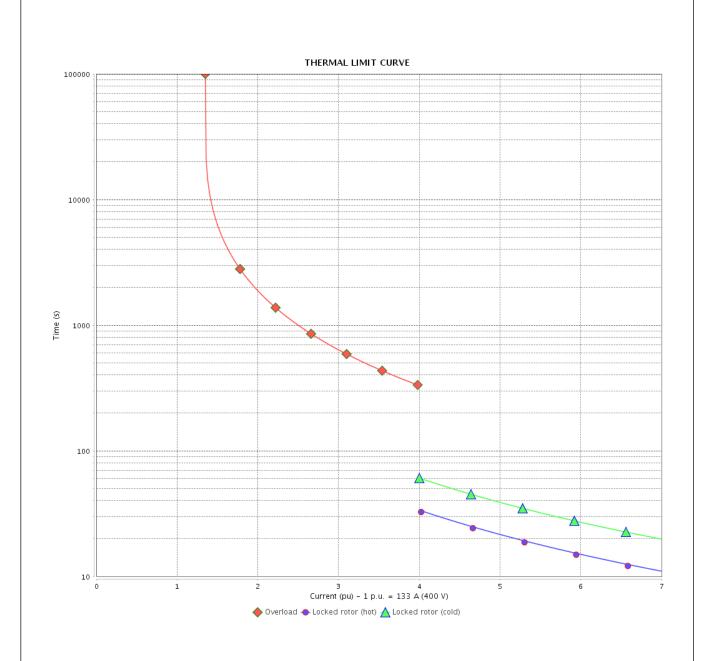


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Product line	: W40 NEMA Premium Efficion Three-Phase	ency Product code :	14272927	
		Catalog # :	12536OT3E4	04TS-W40G
Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC	: 133 A : 7.0	Moment of inertia (J) Duty cycle	: 8.23 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 177 ft.lb : 190 %	Insulation class Service factor	: F : 1.00	
Breakdown torque Rated speed	: 190 % : 280 % : 2960 rpm	Temperature rise Design	: 80 K : B	
Heating constant	•			
Cooling constant				
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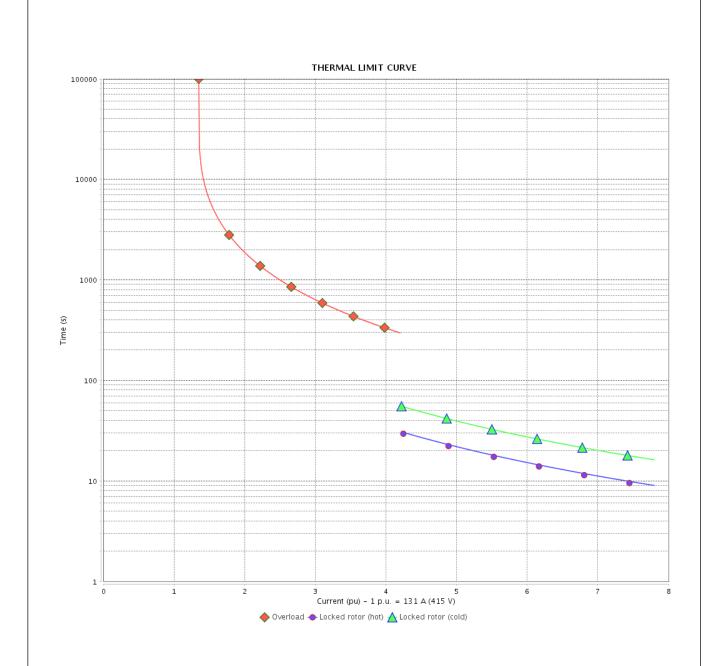


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14272927 12536OT3E4	04TS-W40G
				<u> </u>		
Performance Rated current		: 415 V 50 Hz 2P IE3 : 131 A	Moment	of inertia (J)	: 8.23 sq.ft.lb	
LRC		: 7.8	Duty cycle	9	: Cont.(S1)	
Rated torque		: 177 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		: 200 % : 290 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 2965 rpm	Design	u. 5 1100	: B	
Heating constant						
Cooling constant	Į.	Changes Cummen		Dorform	Chaskad	Data
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Three-Phase

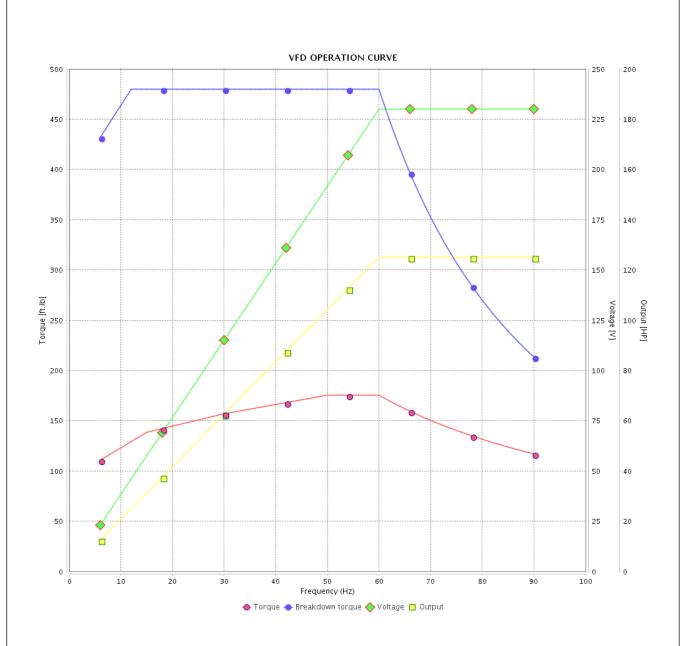
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Performance		: 230/460 V 6	0 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 272/136 A : 6.8 : 185 ft.lb : 170 % : 260 % : 3557 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 8.23 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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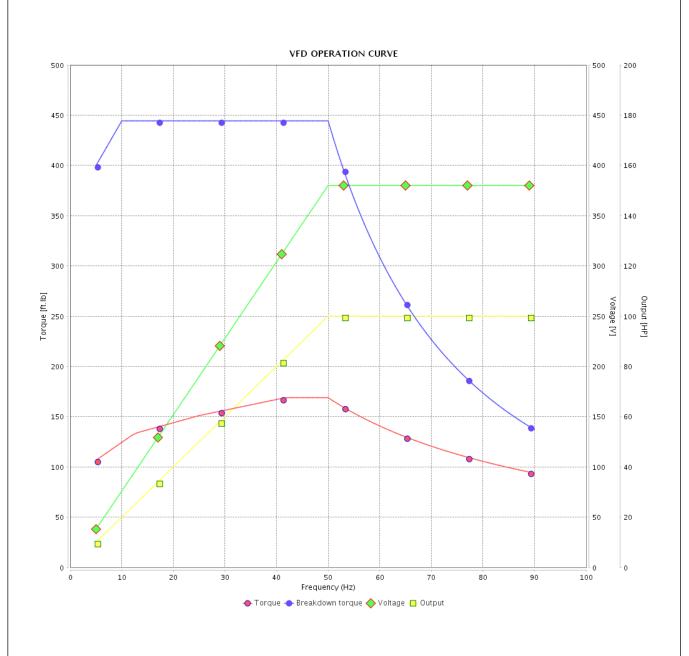
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272927

Three-Phase

Catalog #: 12536OT3E404TS-W40G

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Performance	: 380 V 50 Hz 2P IE3				
Rated current : 137 A Moment of inertia (J) LRC : 7.2 Duty cycle Rated torque : 178 ft.lb Insulation class Locked rotor torque : 170 % Service factor Breakdown torque : 250 % Temperature rise Rated speed : 2955 rpm Design		class ctor	: 8.23 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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Product line : W40 NEMA Premium Efficiency

Three-Phase

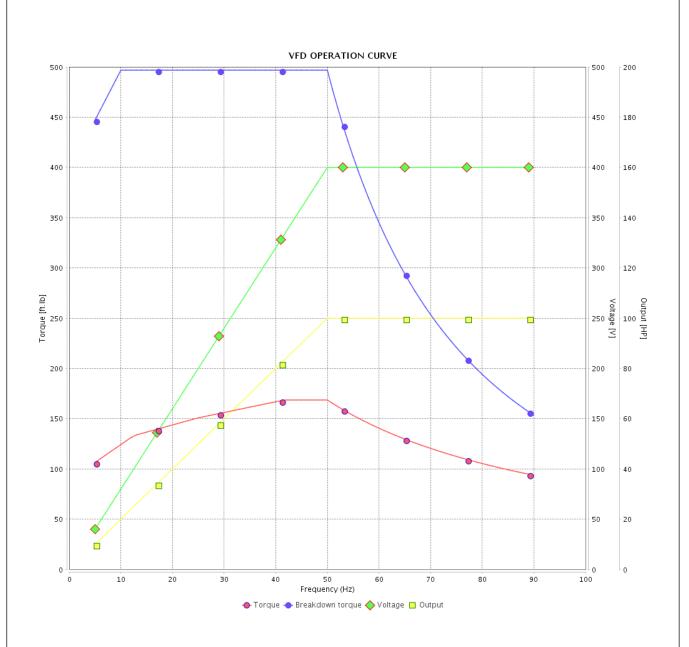
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Performance	: 4	400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue : :	133 A 7.0 177 ft.lb 190 % 280 % 2960 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 8.23 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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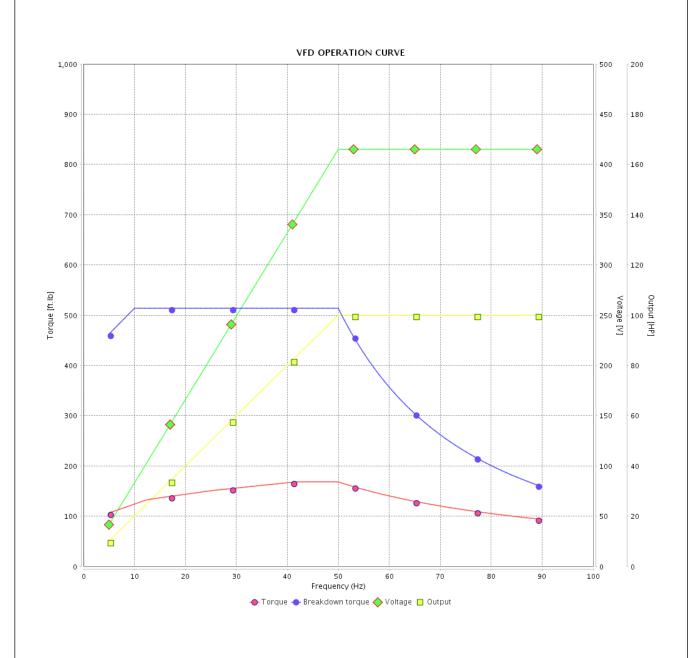
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272927

Catalog #: 12536OT3E404TS-W40G



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 1	31 A	Moment o	f inertia (J)	: 8.23 sq.ft.lb	
LRC	: 7	.8	Duty cycle	!	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	90 %	Temperature rise		: 80 K	
Rated speed	: 2	965 rpm	Design		: B	
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