### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



270

Customer

Product line : W40 NEMA Premium Efficiency Product code: 14284796

Three-Phase

Catalog #: 10018OT3G404TS-W40

240

Frame : 404/5TS 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 Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 935 lb Altitude Moment of inertia (J) : 21.9 sq.ft.lb

Protection degree : IP23

Locked rotor torque [%]

Design	: B			
Output [HP]	100	75	75	75
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	115	103	97.5	96.2
L. R. Amperes [A]	782	742	683	750
LRC [A]	6.8x(Code G)	7.2x(Code H)	7.0x(Code H)	7.8x(Code J)
No load current [A]	39.7	33.0	36.5	40.0
Rated speed [RPM]	1780	1482	1484	1485
Slip [%]	1.11	1.20	1.07	1.00
Rated torque [ft.lb]	295	266	265	265

Breakdown torque	[%]	250	250	280	300
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)	23s (cold) 13s (hot)	21s (cold) 12s (hot)	25s (cold) 14s (hot)
Noise level <sup>2</sup>		69.0 dB(A)			
	25%	94.9	90.2	90.3	90.3
Efficiency (%)	50%	95.0	91.9	92.0	92.0
Emclericy (70)	75%	95.4	92.9	92.9	92.9
	100%	80 K 80 K 80 K 21s (cold) 12s (hot) 23s (cold) 13s (hot) 21s (cold) 12s (hot) 2 69.0 dB(A) 94.9 90.2 90.3 0% 95.0 91.9 92.0 5% 95.4 92.9 92.9 0% 95.4 94.7 94.7 5% 0.49 0.50 0.47 0% 0.75 0.73 0.72 5% 0.83 0.82 0.80	94.7		
	25%	0.49	0.50	0.47	0.44
Power Factor	50%	0.75	0.73	0.72	0.70
Fower Factor	75%	0.83	0.82	0.80	0.80
	100%	0.86	0.86	0.86	0.84

220

Drive end Non drive end Foundation loads

200

Bearing type 6314 C3 6212 Z C3 Max. traction : 1918 lb Sealing Without Without Max. compression : 2853 lb

Bearing Seal Bearing Seal 20000 h Lubrication interval 20000 h

27 g Lubricant amount 13 g Mobil Polyrex EM Lubricant type

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



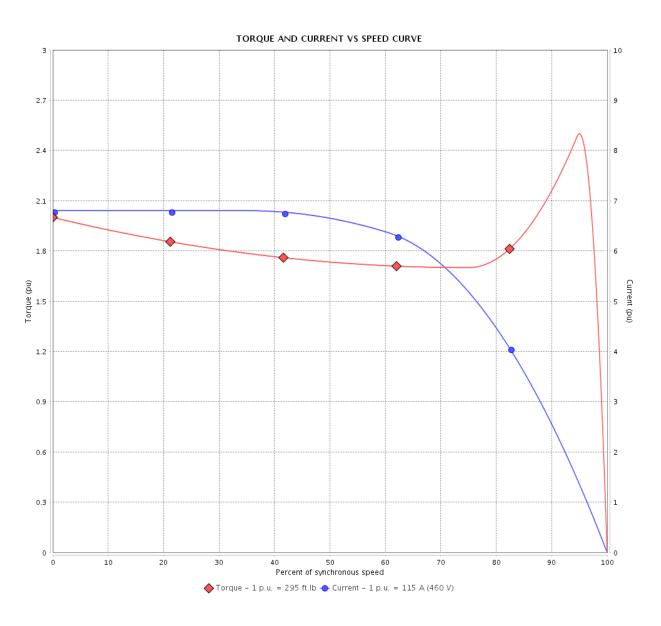
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284796

Catalog #: 10018OT3G404TS-W40



Performance : 460 V 60 Hz 4P Rated current : 115 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 295 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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

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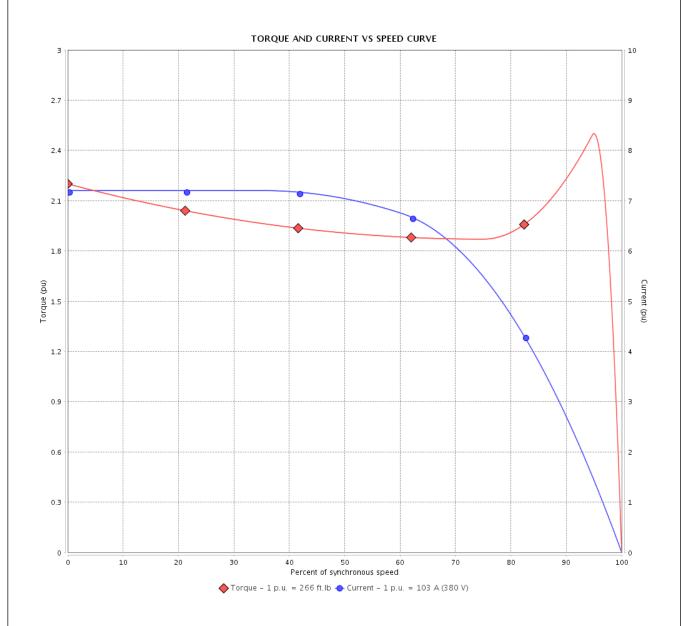


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14284796

Three-Phase

Catalog #: 10018OT3G404TS-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 103 A	Moment of inertia (J)	: 21.9 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 266 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 1482 rpm	Design	: B	

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

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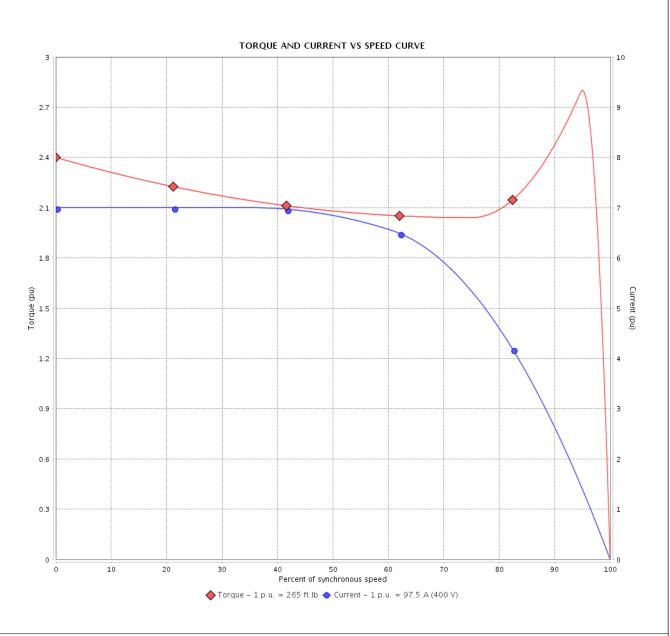
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284796

Catalog #: 10018OT3G404TS-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 97.5 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 265 ft.lb : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B

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

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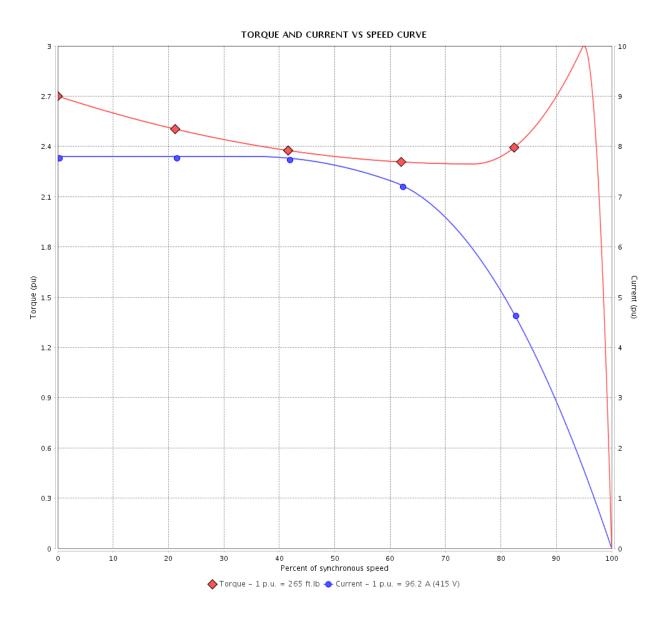
Customer

Product line : W40 NEMA Premium Efficiency Pro

Three-Phase

Product code: 14284796

Catalog #: 10018OT3G404TS-W40



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 96.2 A	Moment of inertia (J)	: 21.9 sq.ft.lb	
LRC	: 7.8	Duty cycle	: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation class	:F ^	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1485 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)			

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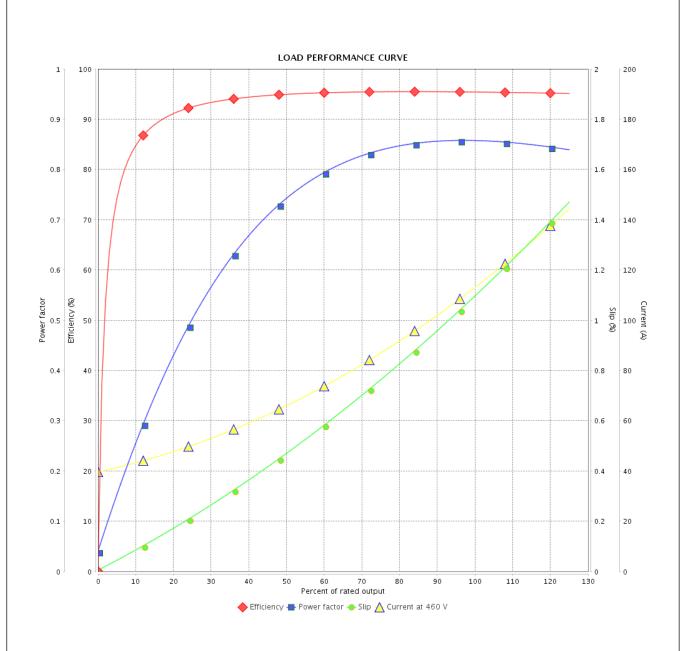
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Three-Phase

Product code: 14284796

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Performance	: 460 V 60 Hz 4P			
renormance	. 400 V 00 HZ 4P			
Rated current	: 115 A	Moment of inertia (J)	: 21.9 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 295 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.25	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 1780 rpm	Design	: B	
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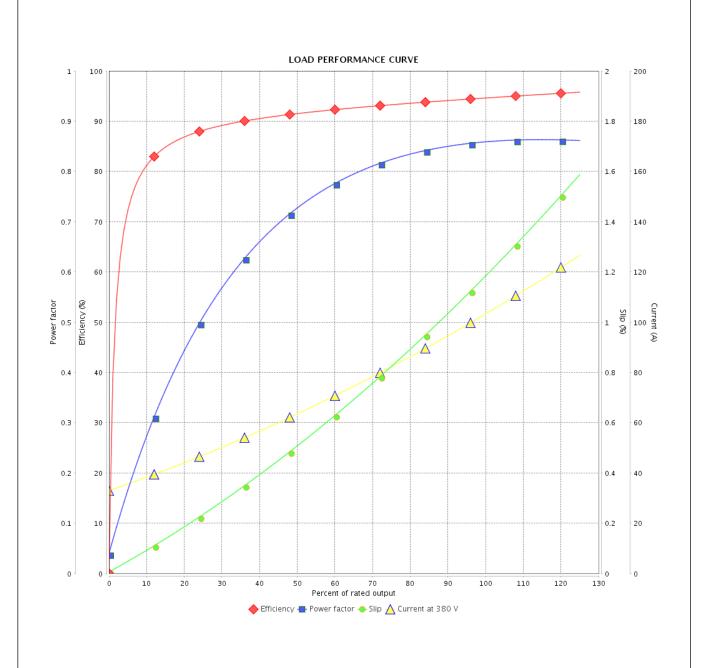
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Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

14284796

Catalog #: 10018OT3G404TS-W40



Performance	: 38	30 V 50 Hz 4P IE3				
Rated current	: 10	03 A	Moment o	f inertia (J)	: 21.9 sq.ft.lb	
LRC	: 7.	2	Duty cycle	)	: Cont.(S1)	
Rated torque	: 20	66 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 22	20 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 2	50 %	Temperature rise		: 80 K	
Rated speed	: 14	182 rpm	Design		: B	
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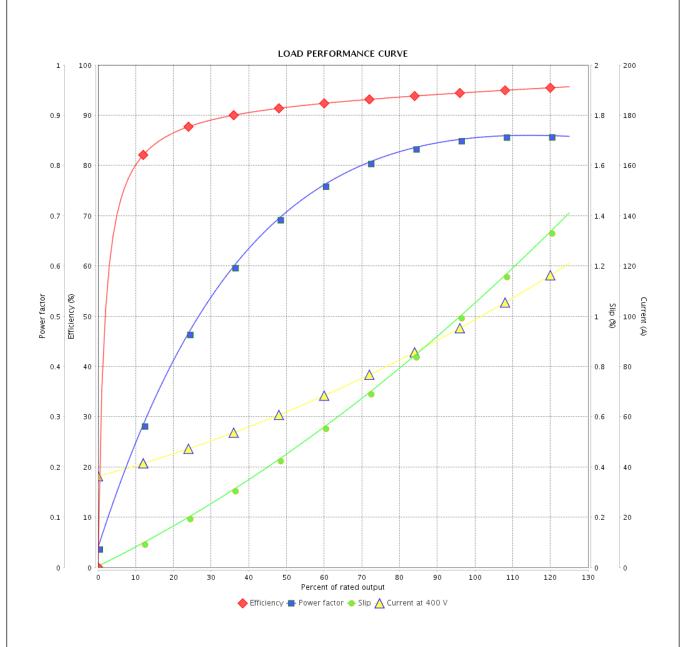
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284796

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Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 97.5 A	Moment of	f inertia (J)	: 21.9 sq.ft.lb	
LRC	: 7.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation	class	: F	
Locked rotor torque	: 240 %	Service fa	ctor	: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 1484 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage

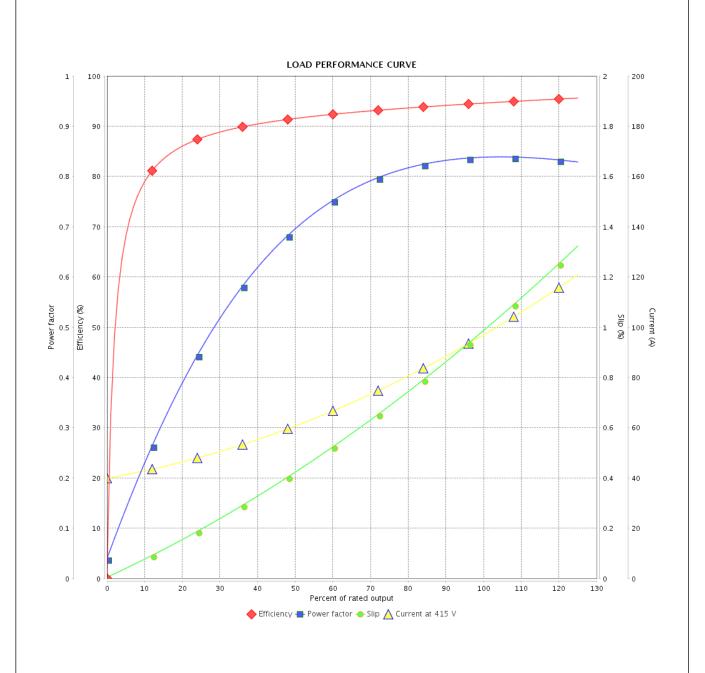


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14284796

Three-Phase

Catalog #: 10018OT3G404TS-W40



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	96.2 A	Moment o	f inertia (J)	: 21.9 sq.ft.lb	
LRC	:	7.8	Duty cycle	` '	: Cont.(S1)	
Rated torque	:	265 ft.lb	Insulation		: F ` ´	
Locked rotor torque	e :	270 %	Service fa	ctor	: 1.00	
Breakdown torque	:	300 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1485 rpm	Design		: B	
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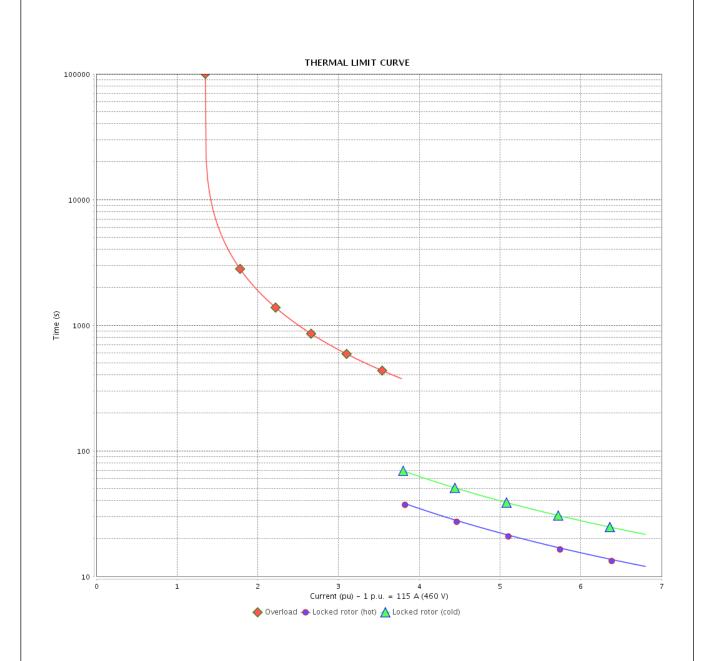


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14284796 10018OT3G4	04TS-W40
Performance		: 460 V 60 Hz 4P				
Rated current LRC		: 115 A : 6.8	Moment of Duty cycle	of inertia (J)	: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 295 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 250 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		: 1780 rpm	Design		: B	
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Cooling constant	t .	Changes Summary		Performed	Checked	Date
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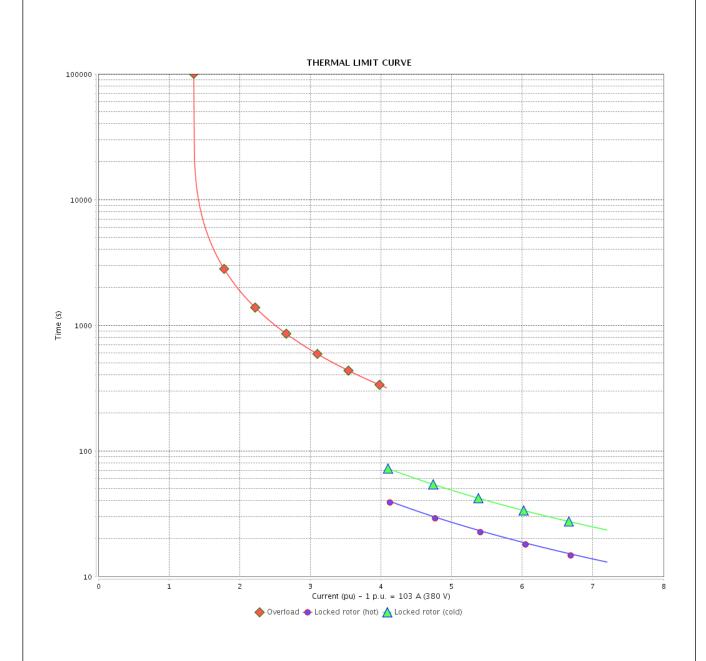


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Product line		: W40 NEMA Premium Efficion Three-Phase		Product code : Catalog # :	14284796 10018OT3G4	DATS WAD
				Catalog # .	1001801364	0413-7740
Performance	:	380 V 50 Hz 4P IE3				
Rated current		103 A	Moment o	f inertia (J)	: 21.9 sq.ft.lb	
LRC Rated torque		7.2 266 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	220 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		250 % 1482 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant		·				
Cooling constant						
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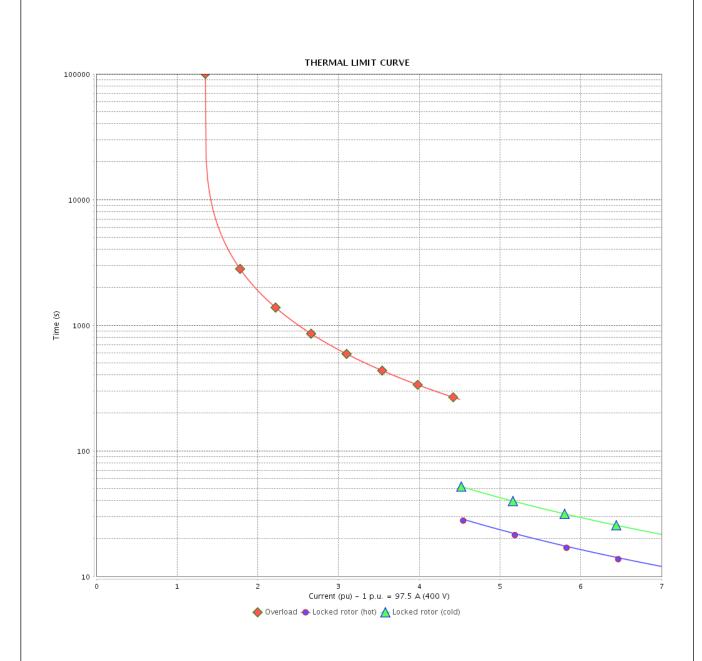


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14284796 10018OT3G4	04TS-W40
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque		: 97.5 A : 7.0 : 265 ft.lb	Duty cycle Insulation	class	: 21.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	ue	: 240 % : 280 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 1484 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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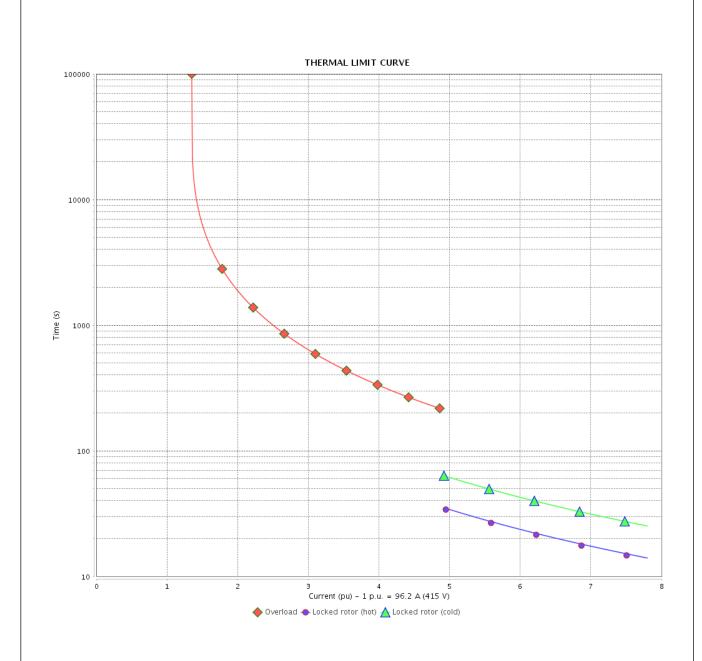


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Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14284796	
	''	ilee-riiase	(	Catalog # :	10018OT3G4	04TS-W40
Performance		15 V 50 Hz 4P IE3		· · · · · · ·	04.0 % !!	
Rated current LRC	: 96 : 7.	5.2 A 8	Moment of Duty cycle	f inertia (J)	: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque		65 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 00 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		185 rpm	Design		: B	
Heating constant						
Cooling constant						
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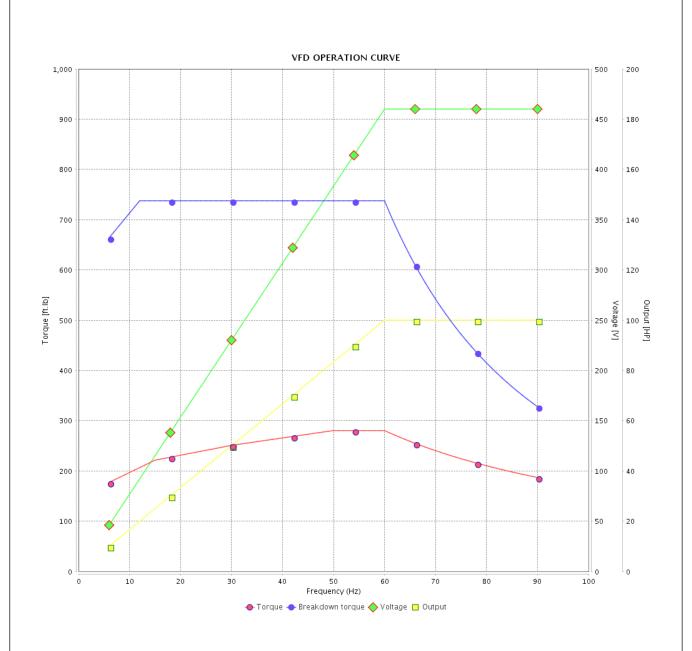
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284796

Catalog #: 10018OT3G404TS-W40

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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 115 A : 6.8 : 295 ft.lb : 200 % : 250 % : 1780 rpm	Moment of incomplete Duty cycle Insulation construction of Service factor Temperature Design	lass	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Customer

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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

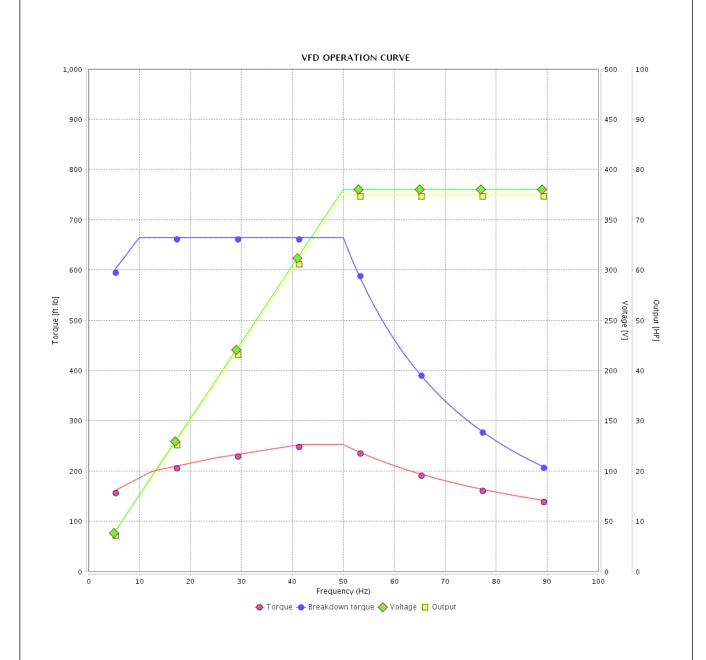
Product code : 14284796

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Performance		: 380 V 50 Hz 4P IE	<b>E</b> 3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 103 A : 7.2 : 266 ft.lb : 220 % : 250 % : 1482 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

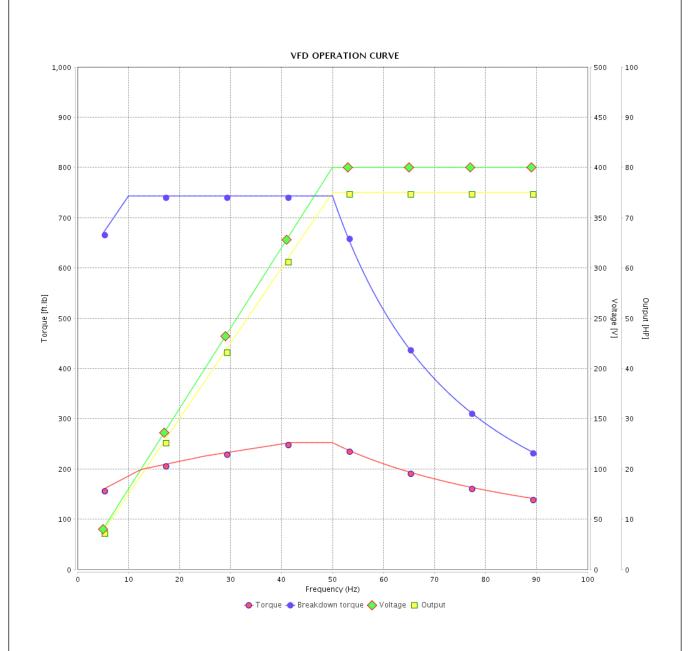
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284796

Catalog #: 10018OT3G404TS-W40

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Dorformanas	· 400 \/ 50 H= 4D IF2				
Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 97.5 A	Moment of inertia (J)		: 21.9 sq.ft.lb	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation c	ass	: F	
Locked rotor torque	: 240 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 1484 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



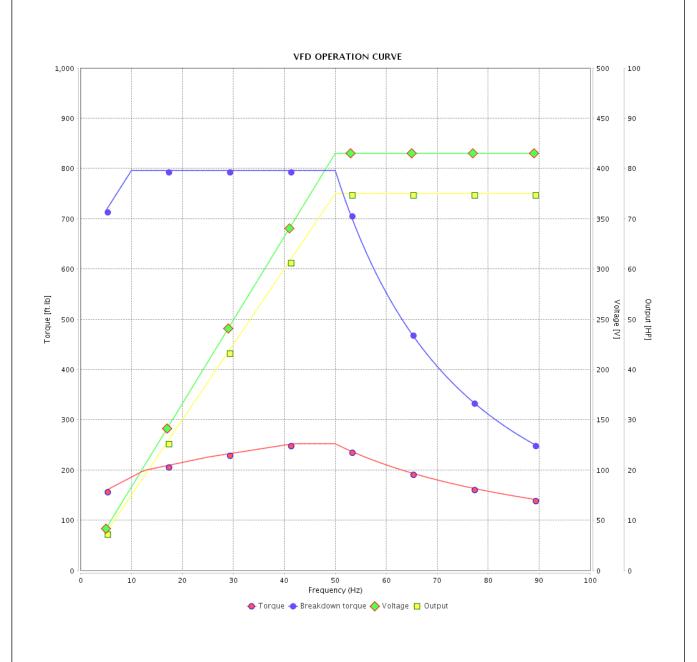
Customer

Product line : W40 NEMA Premium Efficiency Pr

Three-Phase

Product code: 14284796

Catalog #: 10018OT3G404TS-W40



Performance		: 415 V 50 Hz 4P IE3					
Rated current	: 9	: 96.2 A		Moment of inertia (J)		: 21.9 sq.ft.lb	
LRC	: 7	: 7.8 Duty		<b>:</b>	: Cont.(S1)		
Rated torque	: 2	165 ft.lb Insulation class		: F			
Locked rotor torqu	ie : 2	70 %	% Service factor		: 1.00		
Breakdown torque	: : 3	300 % Temperature ris		ıre rise	: 80 K		
Rated speed	: 1	: 1485 rpm		Design			
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