### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

10018OT3E404T-W40G Catalog #:

14285004

Frame : 404/5T 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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 955 lb Protection degree : IP23 Moment of inertia (J) : 21.9 sa.ft.lb

Protection degre	Design : B			Sq.it.ib	
Design		. B			
Output [HP]		100	75	75	75
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		230/115	103	97.5	96.2
L. R. Amperes [A]		1564/782	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	]	79.4/39.7	33.0	36.5	40.0
Rated speed [RPN	<i>/</i> I]	1780	1482	1484	1485
Slip [%]		1.11	1.20	1.07	1.00
Rated torque [ft.lb]		295	266	265	265
Locked rotor torqu		200	220	240	270
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
Efficiency (70)	75%	95.4	92.9	92.9	92.9
	100%	95.4	94.7	94.7	94.7
	25%	0.49	0.50	0.47	0.44
Power Factor 50%		0.75	0.73	0.72	0.70
I OWEI FACIOI	75%	0.83	0.82	0.80	0.80
	100%	0.86	0.86	0.86	0.84

Non drive end Drive end Foundation loads

Bearing type 6316 C3 6212 Z C3 Max. traction : 1909 lb Without Sealing Without Max. compression : 2863 lb

Bearing Seal Bearing Seal 20000 h 20000 h Lubrication interval

Lubricant amount 13 g 34 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 254A SF 1.15 SFA 292A

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



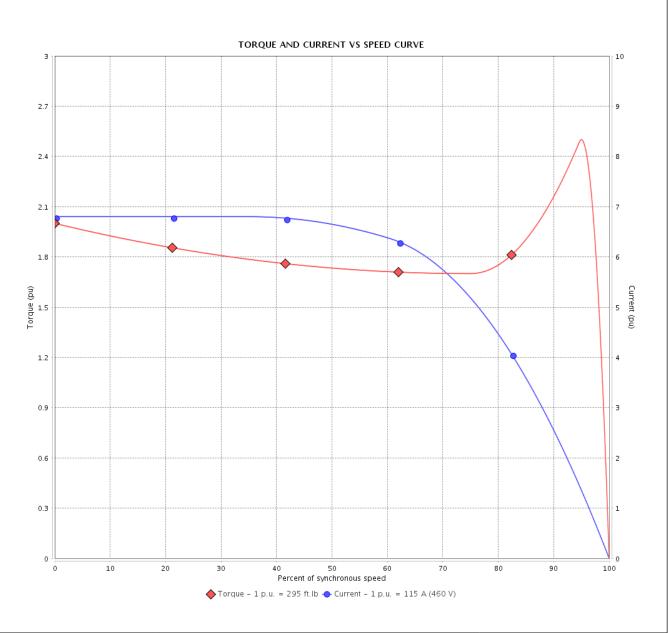
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285004

Catalog #: 10018OT3E404T-W40G



Performance : 230/460 V 60 Hz 4P Rated current : 230/115 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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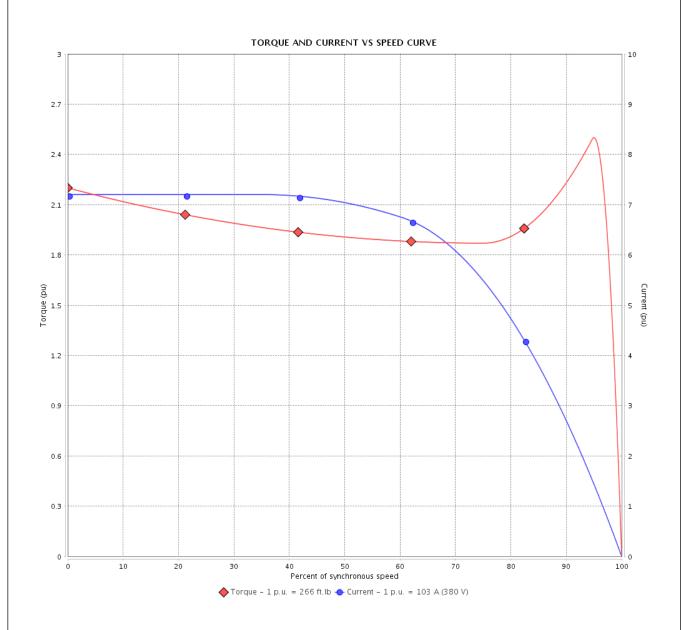
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 10018OT3E404T-W40G

14285004



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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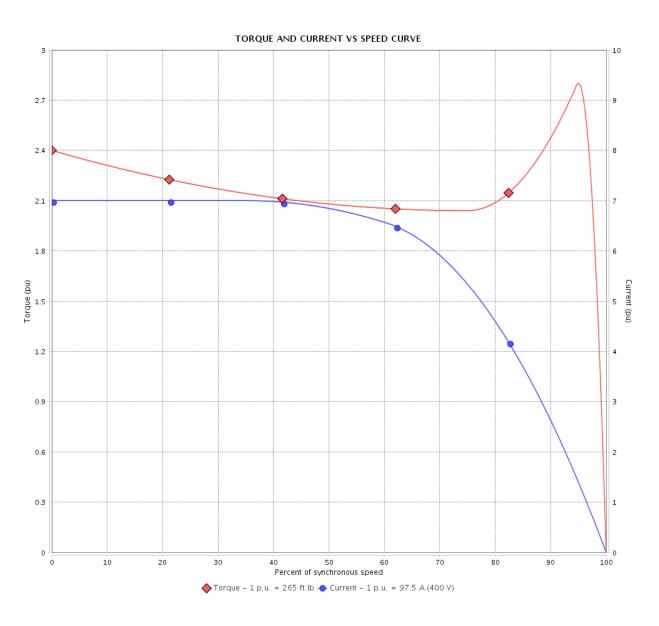
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285004

Catalog #: 10018OT3E404T-W40G



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 class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1484 rpm	Design	: B	
Looked roter times	. 24a (aald) 42a (bat)	I		
Locked rotor time	· 21s (cold) 12s (hot)			

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

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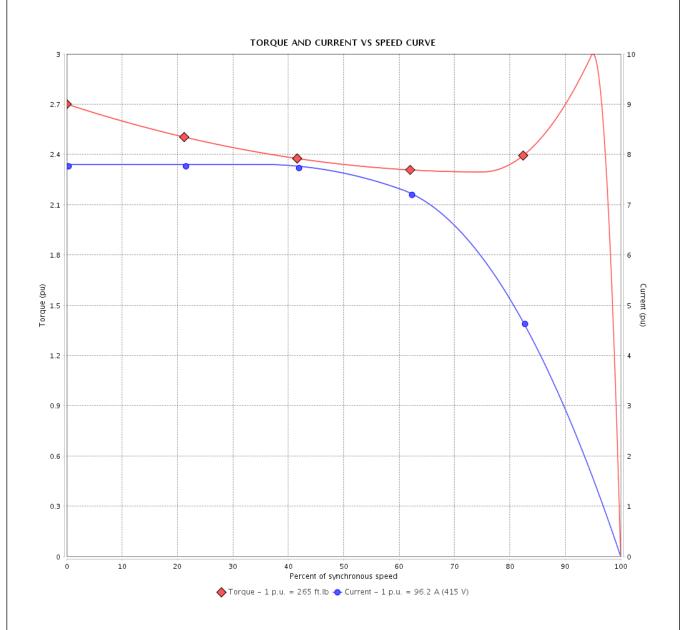
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14285004

Catalog #: 10018OT3E404T-W40G



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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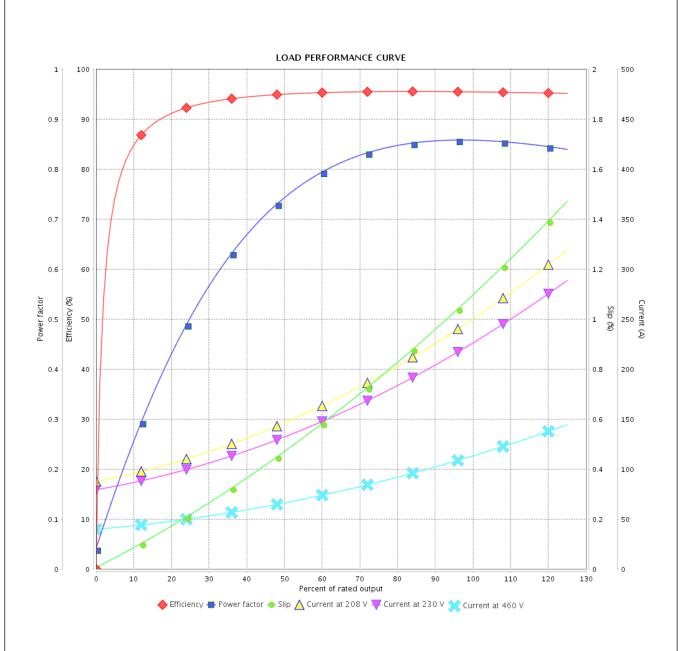
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285004

Catalog # : 10018OT3E404T-W40G

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 230/115 A : 6.8 : 295 ft.lb : 200 % : 250 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 21.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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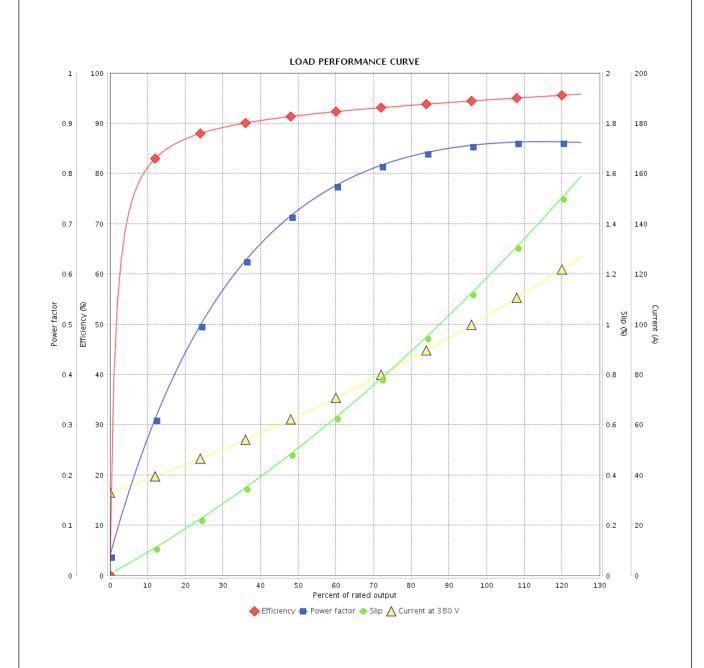


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14285004

Three-Phase

Catalog #: 10018OT3E404T-W40G



Performance	: 3	880 V 50 Hz 4P IE3				
Rated current	: 1	03 A	Moment o	f inertia (J)	: 21.9 sq.ft.lb	
LRC	: 7	7.2	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	266 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	220 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	250 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	482 rpm	Design		: B	
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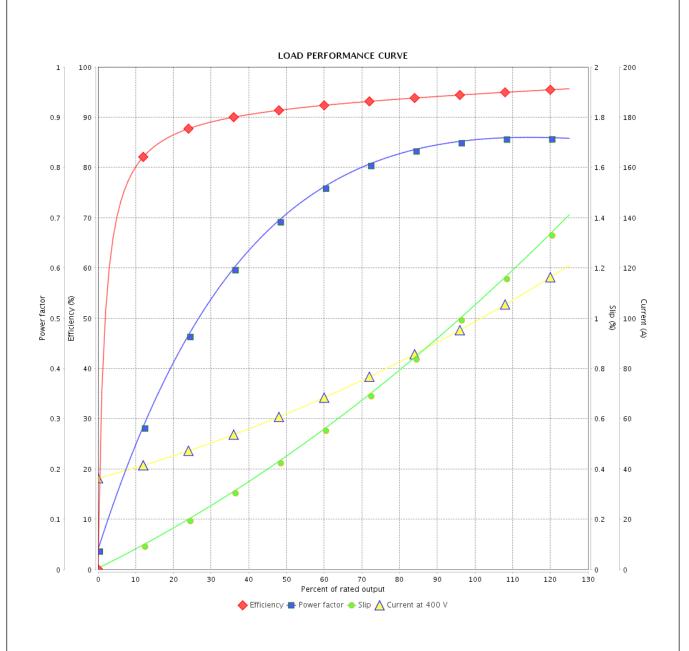
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285004

Catalog #: 10018OT3E404T-W40G

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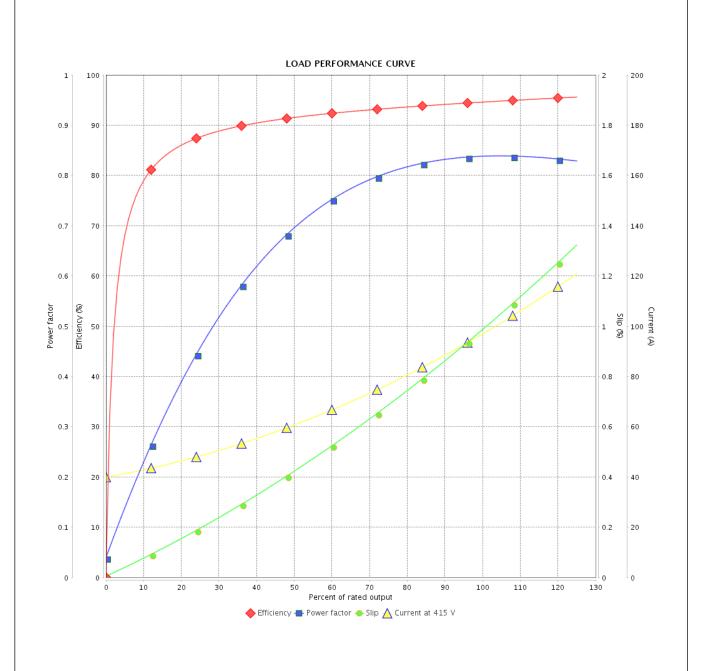


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14285004

Three-Phase

Catalog #: 10018OT3E404T-W40G



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 9	6.2 A	Moment o	f inertia (J)	: 21.9 sq.ft.lb	
LRC	: 7	<b>.</b> .8	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 2	:65 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	270 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	800 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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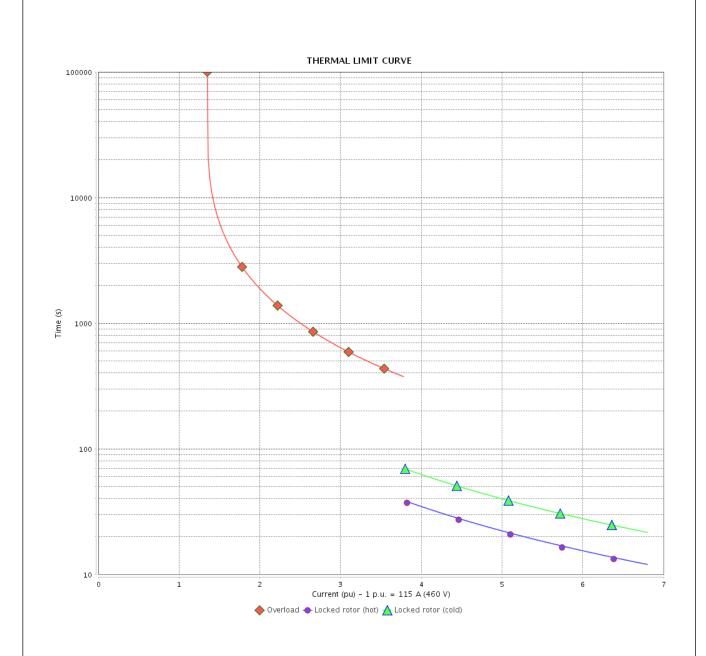


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14285004 10018OT3E40	04T-W40G
Performance	:	230/460 V 60 Hz 4P				
Rated current LRC Rated torque	:	230/115 A 6.8 295 ft.lb	Moment o Duty cycle Insulation		: 21.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	que : ue :	200 % 250 % 1780 rpm	Service fa Temperatu Design	ctor	: 1.25 : 80 K : B	
Heating constant						
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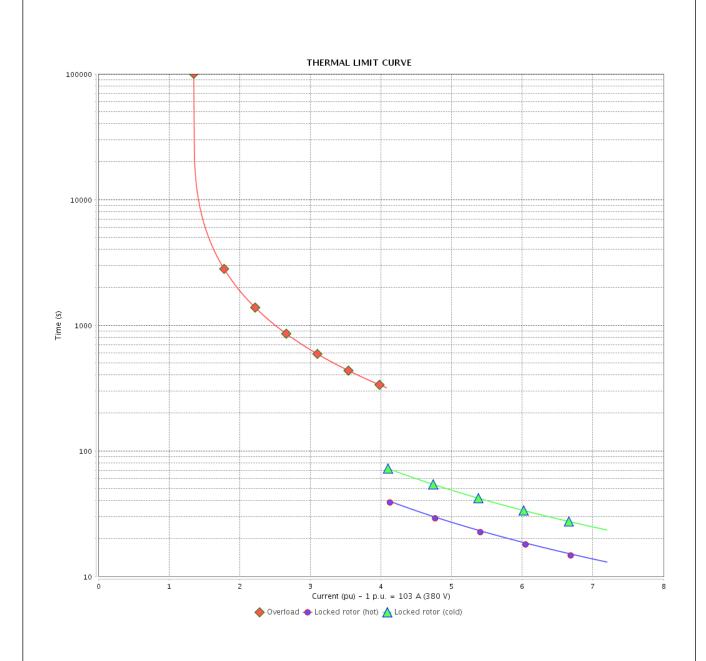


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14285004 10018OT3E40	04T-W40G
Performance		380 V 50 Hz 4P IE3				
Rated current LRC	:	103 A 7.2	Duty cycle		: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		266 ft.lb 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	250 %	Temperati		: 80 K	
Rated speed		1482 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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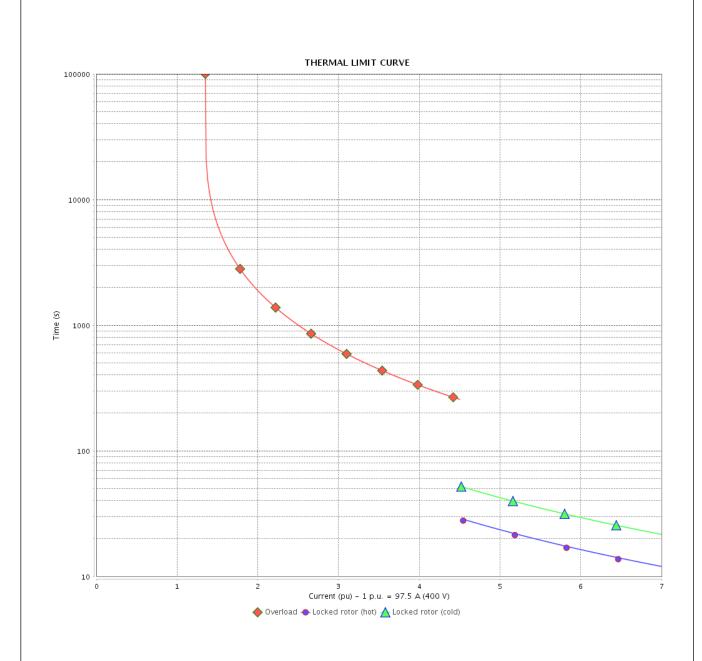


Rated current : 97.5 A					
Performance	Customer	:			
Performance	Product line	: W40 NEMA Premium Efficion Three-Phase			
Rated current : 97.5 A			Catalog #:	10018OT3E4	104T-W40G
Rated current : 97.5 A					
LRC : 7.0 Duty cycle : Cont.(\$1) Rated torque : 265 ft.lb Insulation class : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B  Heating constant Cooling constant Rev. Changes Summary Performed Checked Date  Performed by Checked by	Performance	: 400 V 50 Hz 4P IE3			
Heating constant  Cooling constant  Rev. Changes Summary Performed Checked Date  Performed by  Checked by  Page Revision	Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.0 : 265 ft.lb : 240 % : 280 %	Duty cycle Insulation class Service factor Temperature rise	: Cont.(S1) : F : 1.00 : 80 K	
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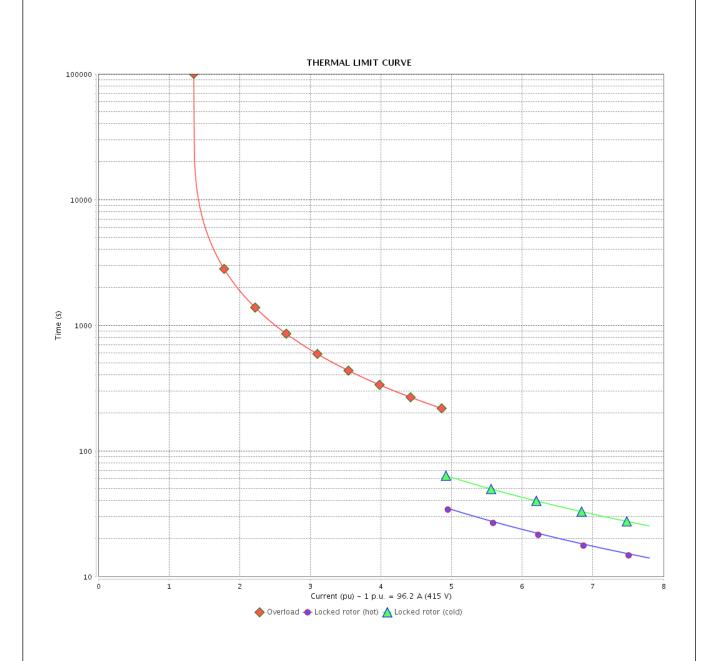


Customer	:					
Product line		W40 NEMA Premium Effici nree-Phase		Product code :	14285004	
			(	Catalog # :	10018OT3E4	04T-W40G
Performance	: 4	15 V 50 Hz 4P IE3				
Rated current		5.2 A	Moment of	f inertia (J)	: 21.9 sq.ft.lb	
LRC Rated torque	: 7. · 26	8 65 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu	e : 27	70 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		00 %	Temperatu	ire rise	: 80 K : B	
	. 14	185 rpm	Design		. D	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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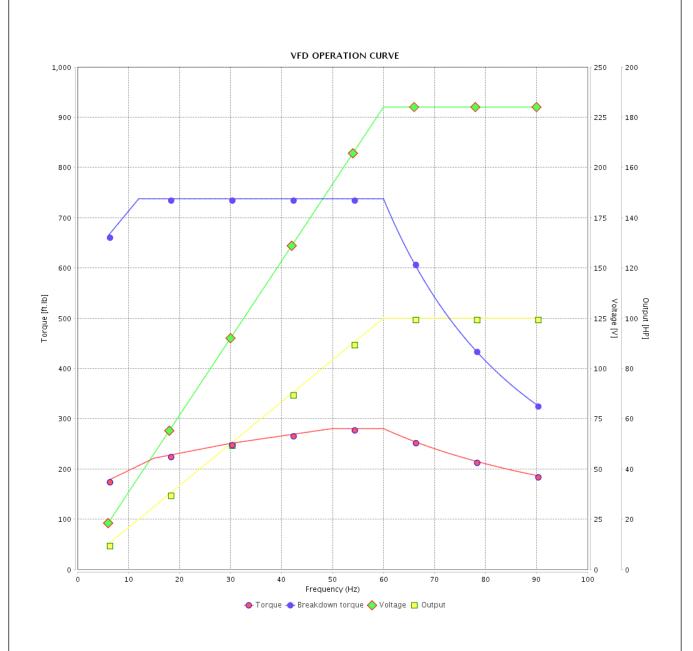
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285004

Catalog #: 10018OT3E404T-W40G

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Performance	: 23	30/460 V 60 Hz 4P				
LRC : 6.8 I Rated torque : 295 ft.lb I Locked rotor torque : 200 % S Breakdown torque : 250 %		Duty cycle Insulation Service fa	Moment of inertia (J) : 21.9 sq.ft.  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.25  Temperature rise : 80 K  Design : B			
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Product line : W40 NEMA Premium Efficiency

Three-Phase

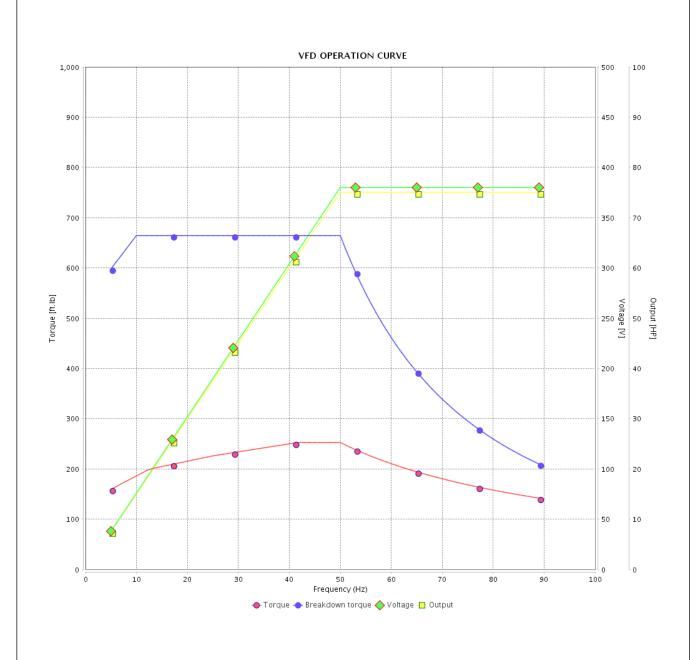
Product code: 14285004

Catalog #: 10018OT3E404T-W40G

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Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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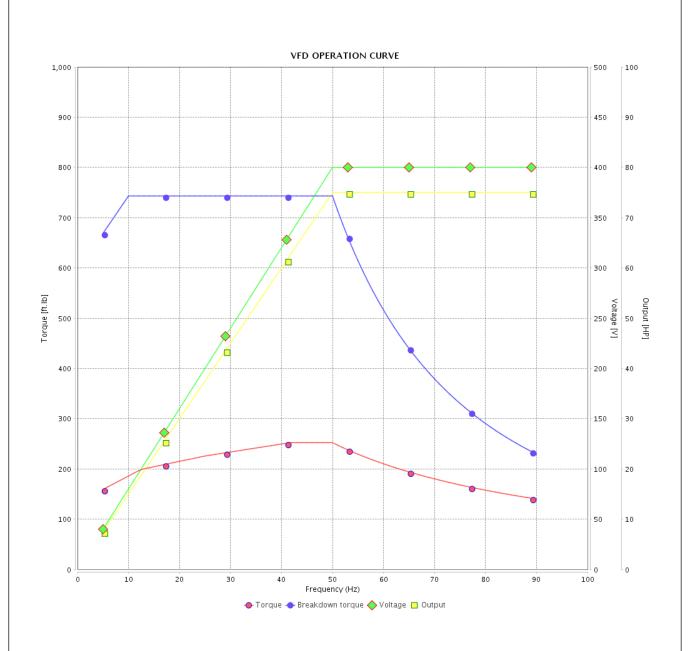
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285004

Catalog #: 10018OT3E404T-W40G

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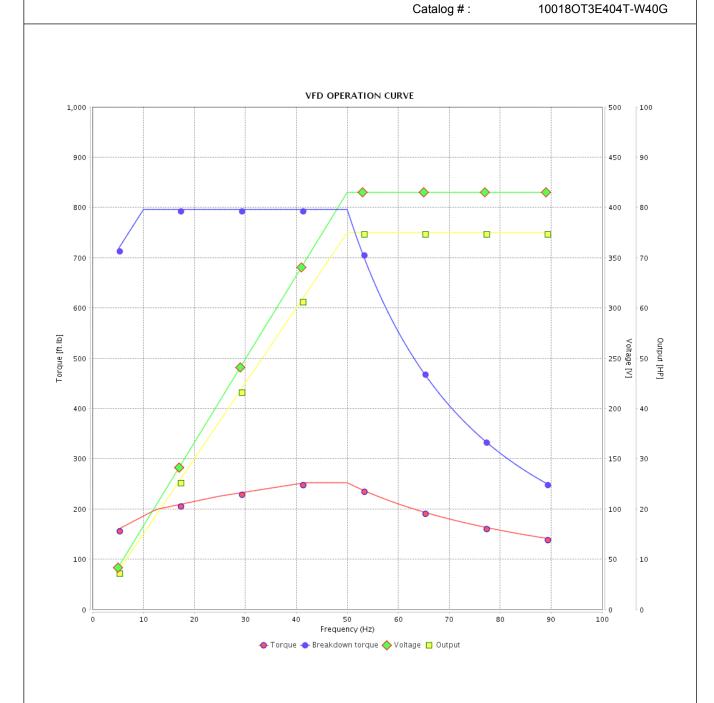
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code : 14285004

Three-Phase



Performance	: 4	: 415 V 50 Hz 4P IE3					
Rated current	: 9	6.2 A	Moment of inertia (J)		: 21.9 sq.ft.lb		
LRC	: 7	<b>.</b> .8	Duty cycle		: Cont.(S1)		
Rated torque : 265 ft.lb Insulation of		Insulation class : F					
Locked rotor torque	e : 2	270 %	Service fa	Service factor		: 1.00	
Breakdown torque	: 3	: 300 % Tem		ıre rise	: 80 K		
Rated speed	: 1	485 rpm	Design	Design			
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