DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14504109

Three-Phase

Catalog #: 05018OT3E326TC-W40G

Frame : 324/6TC Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 527 lb

Protection degree : IP23 Approx. weight : 527 lb Moment of inertia (J) : 7.08 sq.ft.lb

Design : B Output [HP] 50 40 40 40 Poles 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 415 380 400 Rated current [A] 117/58.5 58.0 56.4 55.7 L. R. Amperes [A] 737/369 383 389 401 6.6x(Code G) 6.9x(Code H) 7.2x(Code J) LRC [A] 6.3x(Code G) No load current [A] 46.4/23.2 22.8 25.2 27.0 Rated speed [RPM] 1775 1475 1475 1480 Slip [%] 1.39 1.67 1.67 1.33 Rated torque [ft.lb] 148 142 142 142 Locked rotor torque [%] 240 220 250 270 Breakdown torque [%] 240 240 270 300 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 19s (cold) 11s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) Noise level² 66.0 dB(A) 25% 94.0 92.9 92.9 92.9 50% 94.1 93.1 93.1 93.1 Efficiency (%) 75% 94.5 93.5 93.5 93.5 94.5 100% 93.6 93.6 93.6 0.44 0.37 25% 0.44 0.40 50% 0.70 0.70 0.66 0.62 Power Factor 75% 0.74 0.80 0.80 0.77

0.84

Max. compression

Drive end
6312 Z C3Non drive end
6211 Z C3Foundation loads
Max. traction

Sealing : Without Without

Bearing Seal Bearing Seal

Bearing Seal Bearing Seal : 20000 h 20000 h

0.84

Lubrication interval:20000 h20000 hLubricant amount:21 g11 gLubricant type:Mobil Polyrex EM

Notes

Bearing type

USABLE @208V 129A SF 1.15 SFA 149A

100%

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.

0.82

0.80

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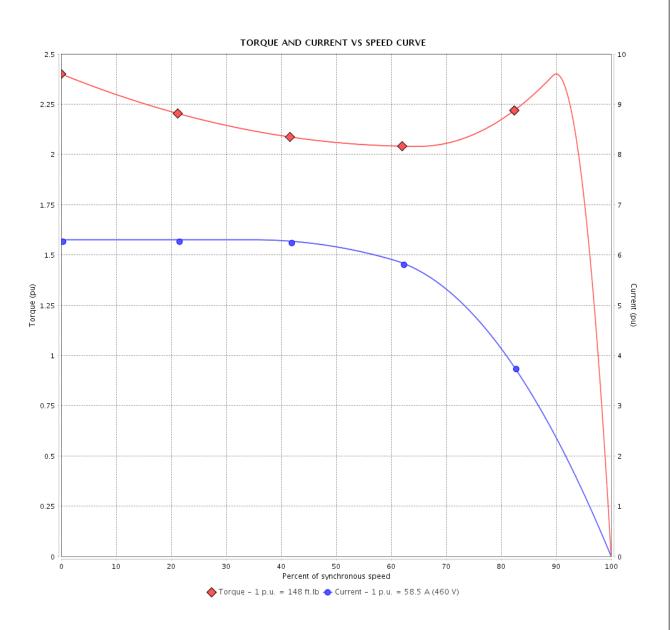
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14504109

Catalog #: 05018OT3E326TC-W40G



Performance : 230/460 V 60 Hz 4P Rated current : 117/58.5 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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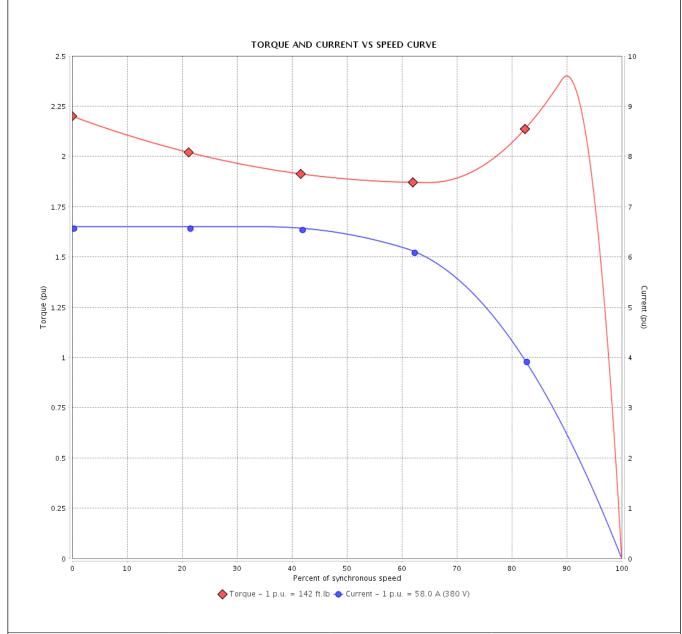


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14504109

Three-Phase

Catalog #: 05018OT3E326TC-W40G



Performance	: 380 V 50 Hz 4P IE3	·	
Rated current	: 58.0 A	Moment of inertia (J)	: 7.08 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 142 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B
Looked reter time	: 21a (aald) 12a (bat)		

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

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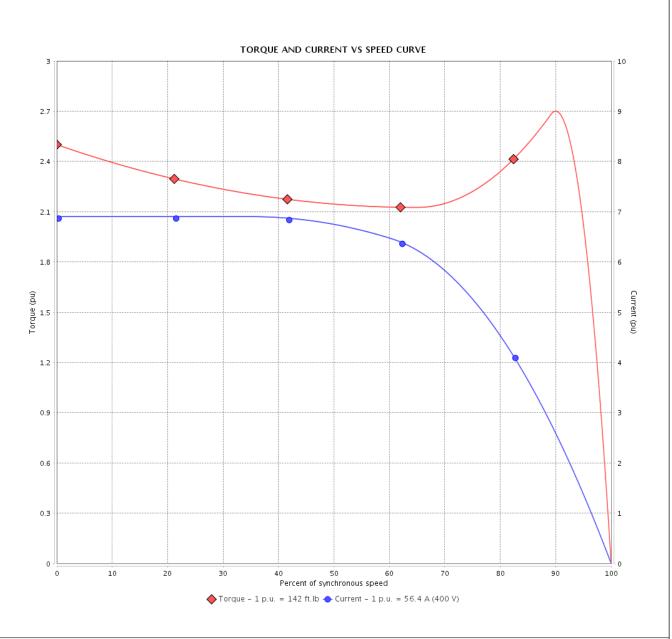
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14504109

Catalog #: 05018OT3E326TC-W40G



Performance : 400 V 50 Hz 4P IE3 Rated current : 56.4 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 142 ft.lb : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

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

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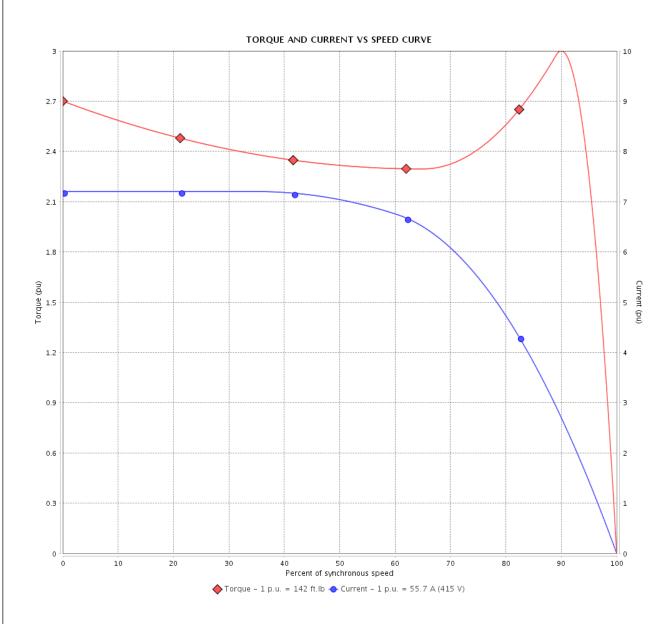


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14504109

Three-Phase

Catalog #: 05018OT3E326TC-W40G



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 55.7 A	Moment of inertia (J)	: 7.08 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 142 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	

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

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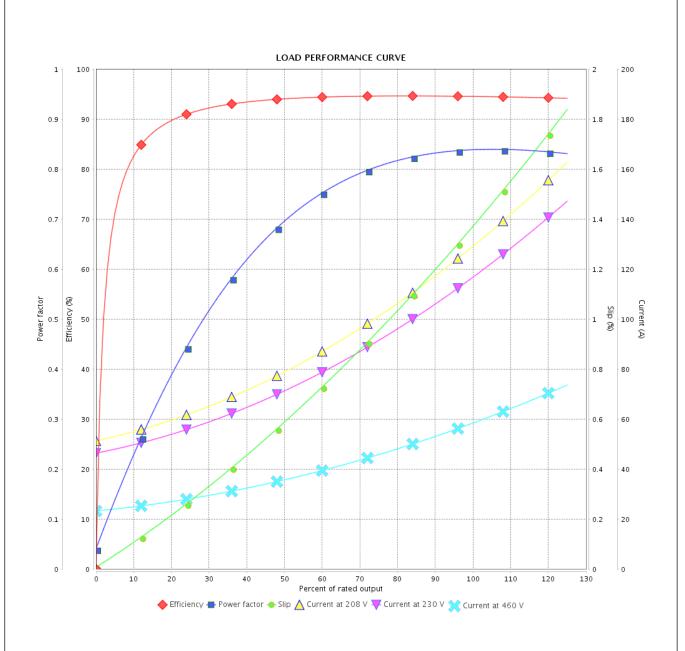
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14504109

Catalog #: 05018OT3E326TC-W40G



Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 14 lue : 24 le : 24	17/58.5 A 3 48 ft.lb 40 % 40 % 775 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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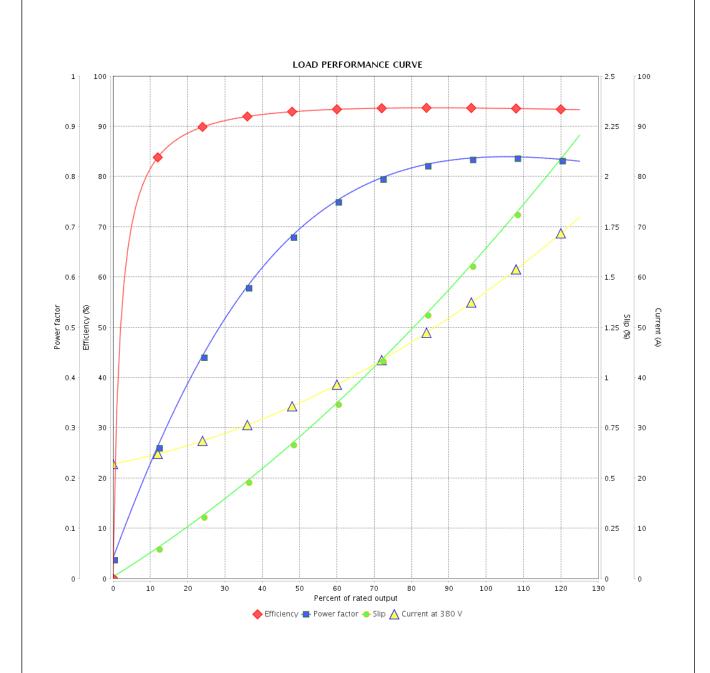
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Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

14504109

05018OT3E326TC-W40G Catalog #:



Performance	: 3	: 380 V 50 Hz 4P IE3				
Rated current	: 5	8.0 A	Moment o	f inertia (J)	: 7.08 sq.ft.lb	
LRC	: 6	.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	42 ft.lb	Insulation	class	: F ` ´	
Locked rotor tord	que : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 2	40 %	% Temperature rise		: 80 K	
Rated speed	: 1	: 1475 rpm		Design		
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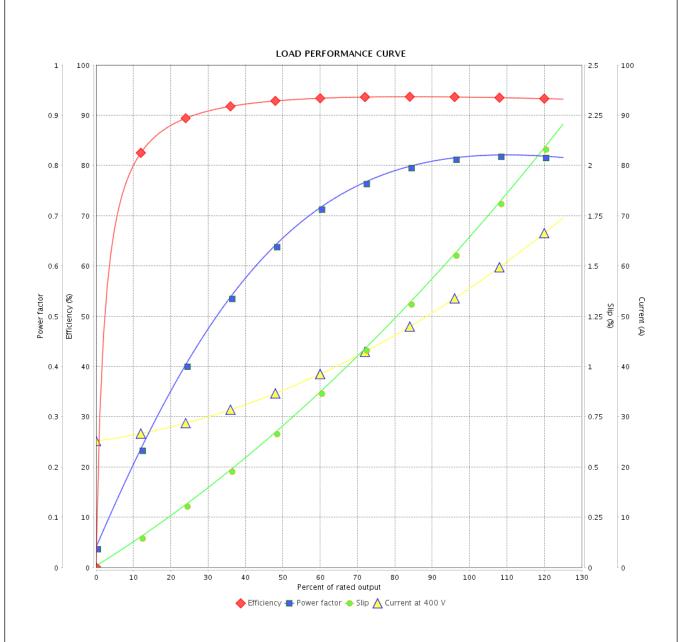
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Three-Phase

Product code: 14504109

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.4 A : 6.9 : 142 ft.lb : 250 % : 270 % : 1475 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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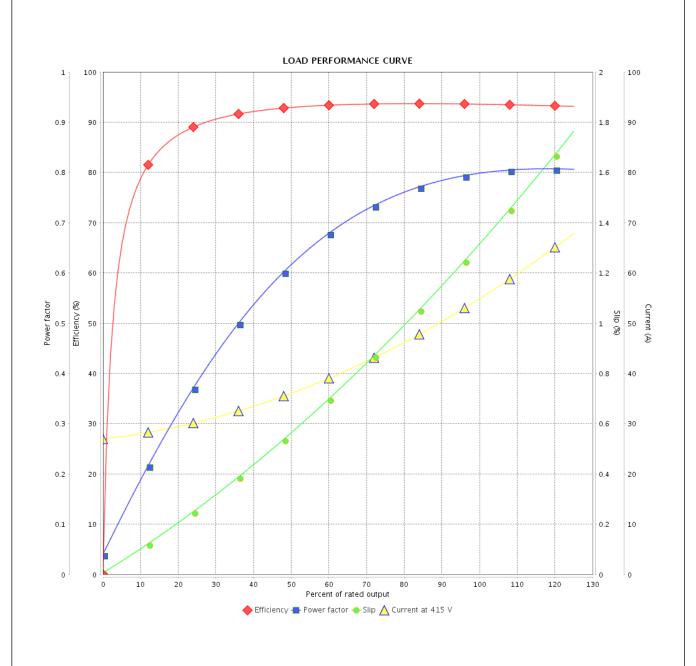


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Product line : W40 NEMA Premium Efficiency Product code : 14504109

Three-Phase

Catalog #: 05018OT3E326TC-W40G



Performance	: •	415 V 50 Hz 4P IE3				
Rated current	: :	55.7 A	Moment o	f inertia (J)	: 7.08 sq.ft.lb	
LRC	: '	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	142 ft.lb	Insulation	class	:F	
Locked rotor torqu	e ::	270 %	Service fa	ctor	: 1.00	
Breakdown torque	::	300 %	Temperature rise		: 80 K	
Rated speed	:	1480 rpm	Design		: B	
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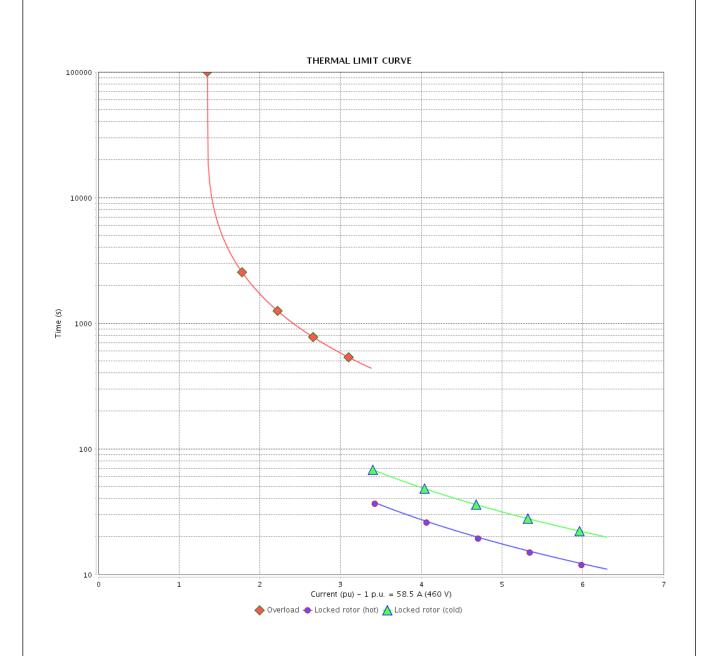


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Product line	. 1	N40 NEMA Premium Effici	encv I	Product code :	14504109	
		Three-Phase				
				Catalog # :	05018OT3E32	26TC-W40G
Performance	: 23	30/460 V 60 Hz 4P				
Rated current		17/58.5 A	Moment of	f inertia (J)	: 7.08 sq.ft.lb	
LRC Rated torque	: 6. : 14	3 48 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq	ue : 24	40 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		40 % 775 rpm	Temperatu Design	ıre rise	: 80 K : B	
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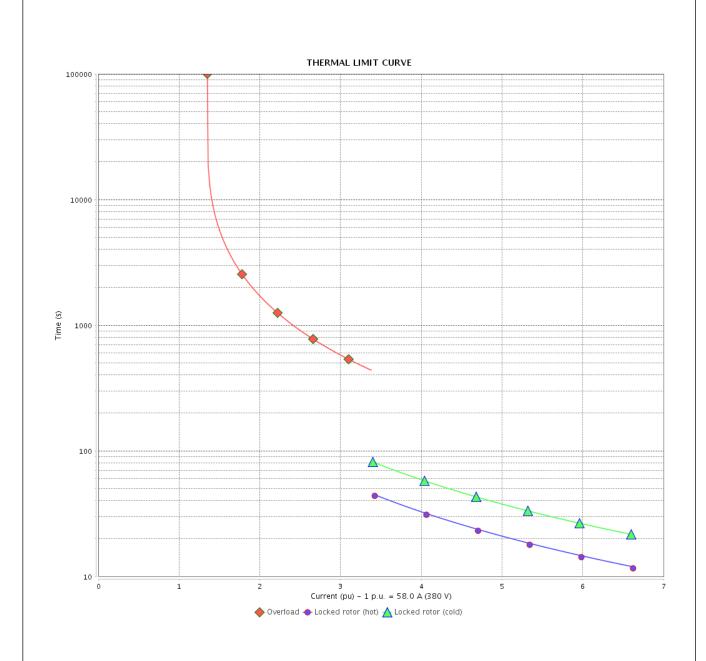


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Product line	: W40 NEMA Premium Efl Three-Phase		roduct code :	14504109	
		С	atalog # :	05018OT3E3	26TC-W40G
Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.0 A : 6.6 : 142 ft.lb : 220 % : 240 % : 1475 rpm	Moment of Duty cycle Insulation of Service factor Temperatur Design	lass tor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant Cooling constant					
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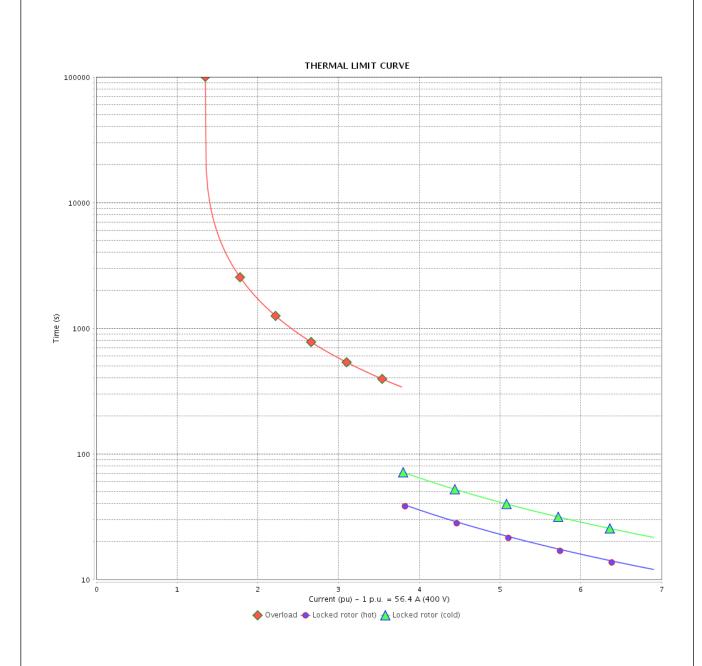


Customer	:				
Product line	: W40 NEMA Premium Efficie Three-Phase		Product code :	14504109	
		(Catalog # :	05018OT3E3	326TC-W40G
Performance	: 400 V 50 Hz 4P IE3	<u> </u>			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.4 A : 6.9 : 142 ft.lb : 250 % : 270 % : 1475 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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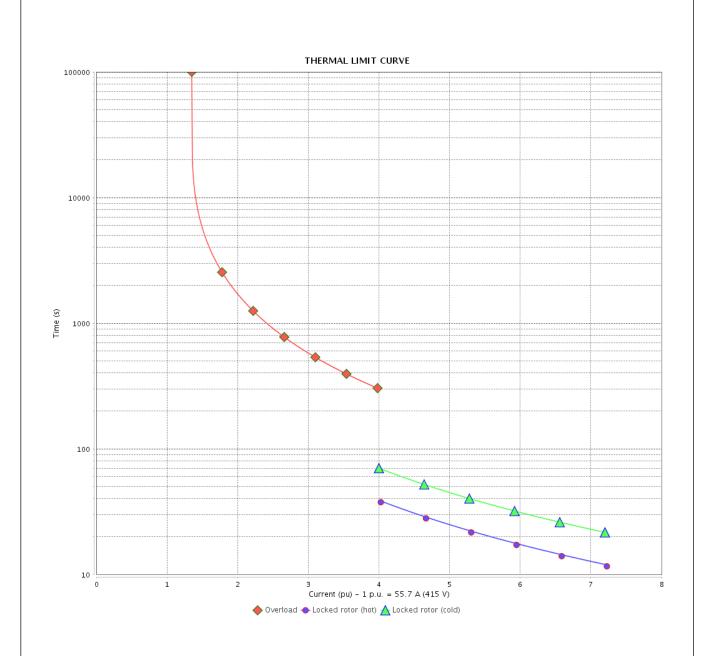


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14504109 05018OT3E32	26TC-W40G
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque	:	: 55.7 A : 7.2 : 142 ft.lb	Moment of Duty cycle Insulation		: 7.08 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que :	: 270 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		: 300 % : 1480 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant						
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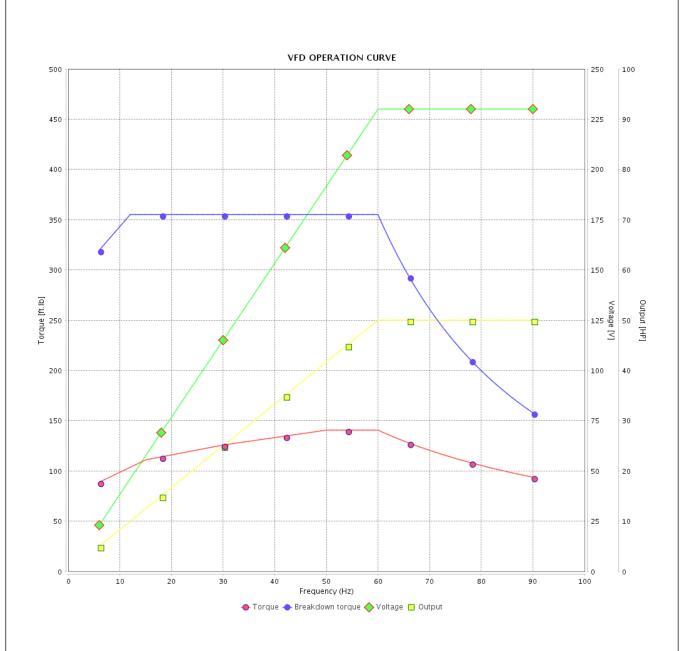
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14504109

Catalog #: 05018OT3E326TC-W40G

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Performance	: 23	80/460 V 60 Hz 4P				
Rated current : 117/58.5 A Moment of inertia (J) LRC : 6.3 Duty cycle Rated torque : 148 ft.lb Insulation class Locked rotor torque : 240 % Service factor Breakdown torque : 240 % Temperature rise Rated speed : 1775 rpm Design		class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
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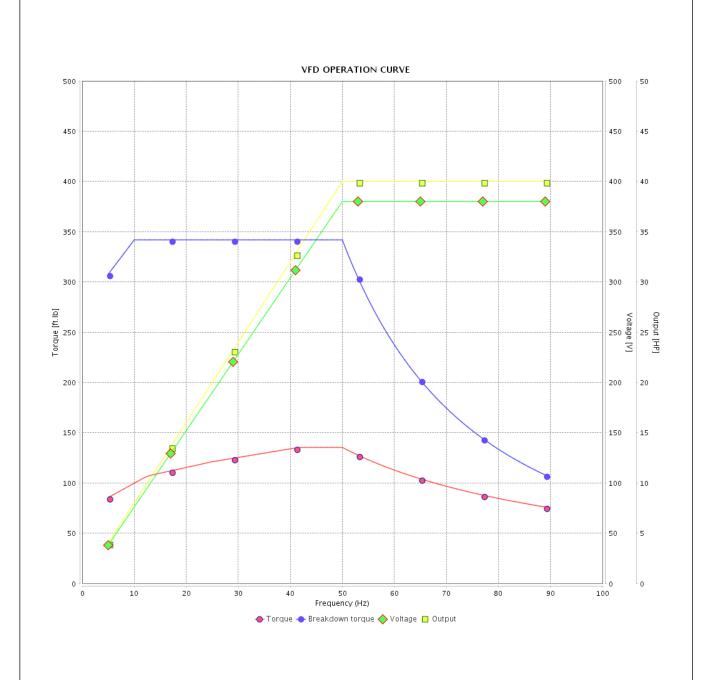
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code : 14504109

Catalog #:



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 5	8.0 A	Moment of	f inertia (J)	: 7.08 sq.ft.lb	
LRC	: 6	.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	42 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2:	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	Temperati	Temperature rise		
Rated speed	: 1	475 rpm	Design		: B	
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Product line : W40 NEMA Premium Efficiency

Three-Phase

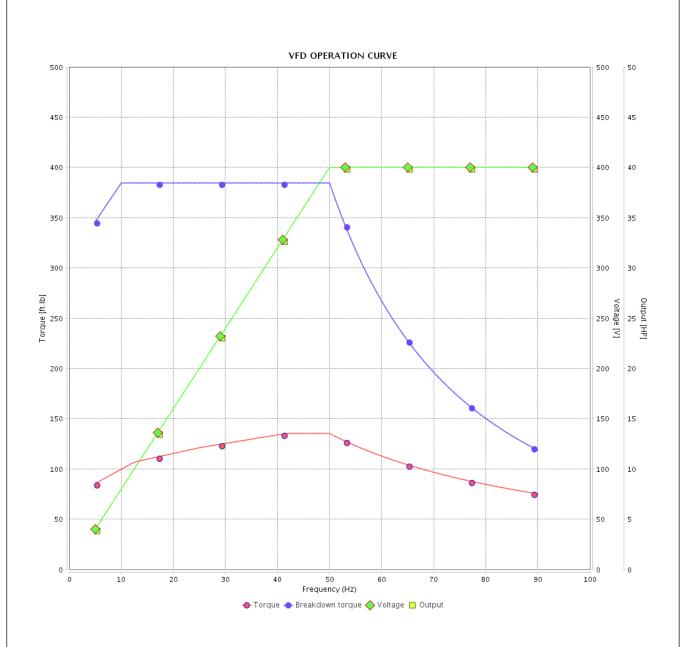
Product code: 14504109

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Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 56.4 A : 6.9 : 142 ft.lb : 250 % : 270 % : 1475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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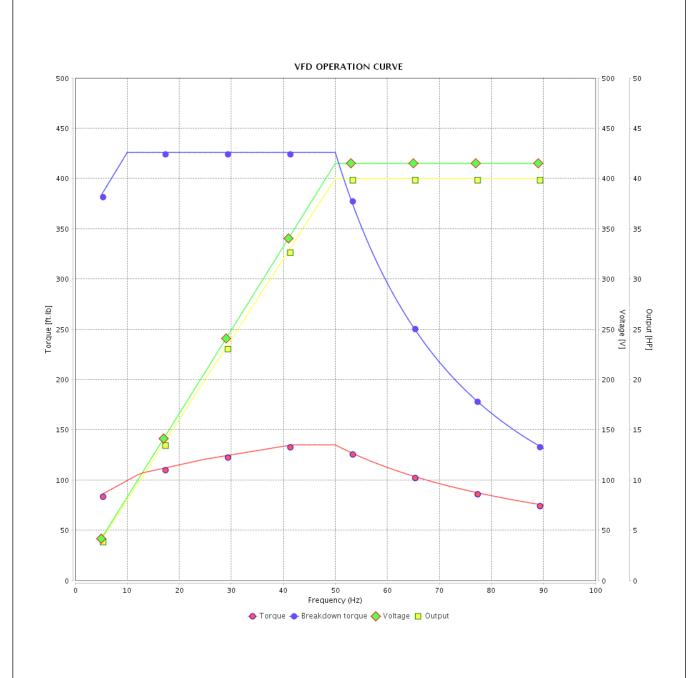
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog # : 05018OT3E326TC-W40G

14504109



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 5	55.7 A	Moment o	f inertia (J)	: 7.08 sq.ft.lb	
LRC	: 7	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	42 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	270 %	Service fa	ctor	: 1.00	
Breakdown torque	: : 3	800 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
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