DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency

Product code:

14503809

Three-Phase

03018OT3E286T-W40G Catalog #:

Frame : 284/6T Cooling method

Insulation class

Duty cycle

Altitude

Ambient temperature

: Cont.(S1)

: 1000 m.a.s.l.

Mounting : F-1 : Both (CW and CCW)

Rotation¹ : -20°C to +40°C Starting method : Direct On Line

Approx. weight³ : 181 kg Moment of inertia (J)

: 0.1906 kgm²

: IC01 - ODP

: IP23 Protection degree

Design		: B						
Output [HP]		30	25	25	25			
Poles		4	4	4	4			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		230/460	380	400	415			
Rated current [A]		69.8/34.9	35.7	34.7	34.3			
L. R. Amperes [A]		461/230	246	250	244			
LRC [A]		6.6x(Code G)	6.9x(Code H)	7.2x(Code H)	7.1x(Code H)			
No load current [A]	27.0/13.5	13.0	14.0	14.5			
Rated speed [RPN	/ []	1765	1465	1470	1470			
Slip [%]		1.94	2.33	2.00	2.00			
Rated torque [kgfm]		12.3	12.4	12.3	12.3			
Locked rotor torque [%]		280	229	260	280			
Breakdown torque [%]		270	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		32s (cold) 18s (hot)	28s (cold) 16s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)			
Noise level ²		64.0 dB(A)						
	25%	93.4	92.0	92.0	92.0			
Efficiency (%)	50%	93.6	92.2	92.2	92.2			
Emclericy (70)	75%	94.1	92.6	92.6	92.6			
100%		94.1	92.6	92.6	92.6			
	25%	0.45	0.46	0.42	0.39			
Power Factor	50%	0.70	0.70	0.66	0.63			
1 OWELL ACIOI	75%	0.80	0.80	0.78	0.75			
	100%	0.84	0.85	0.83	0.81			

Drive end 6311 Z C3

Non drive end

Foundation loads

Bearing type Sealing

6211 Z C3 Without Without

Max. traction Max. compression

Lubrication interval

Bearing Seal Bearing Seal 20000 h 20000 h

11 g Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 77.2A SF 1.15 SFA 88.8A

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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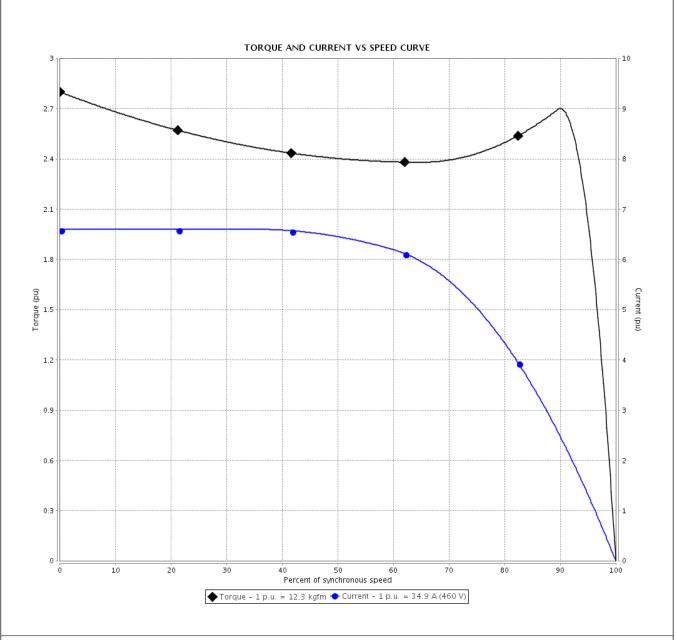
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503809

Catalog #: 03018OT3E286T-W40G



Performance : 230/460 V 60 Hz 4P

Rated current : 69.8/34.9 A Moment of inertia (J) : 0.1906 kgm² LRC : 6.6 Duty cycle : Cont.(S1)

: F Insulation class Rated torque : 12.3 kgfm : 280 % Service factor Locked rotor torque : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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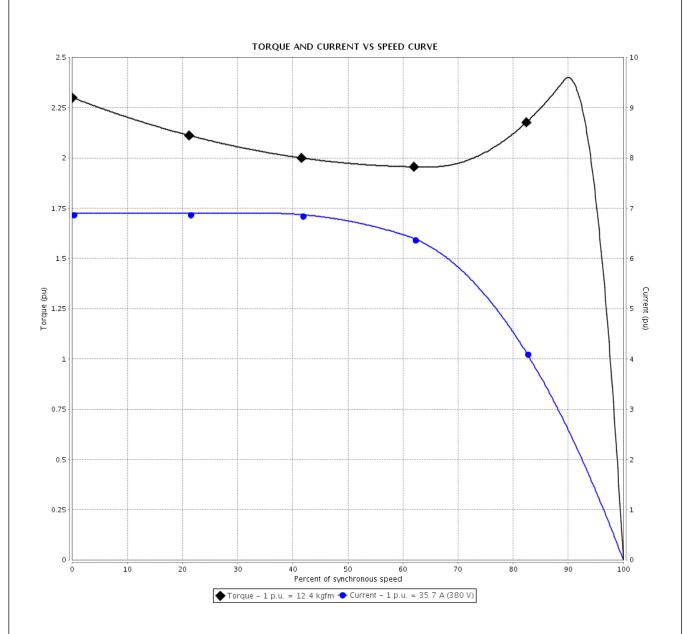
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503809

Catalog #: 03018OT3E286T-W40G



Performance : 380 V 50 Hz 4P IE3 Rated current : 35.7 A Moment of inertia (J) : 0.1906 kgm² **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 12.4 kgfm : 229 % Locked rotor torque Service factor : 1.00 : 80 K Breakdown torque : 240 % Temperature rise : B Rated speed : 1465 rpm Design

Locked rotor time : 28s (cold) 16s (hot)

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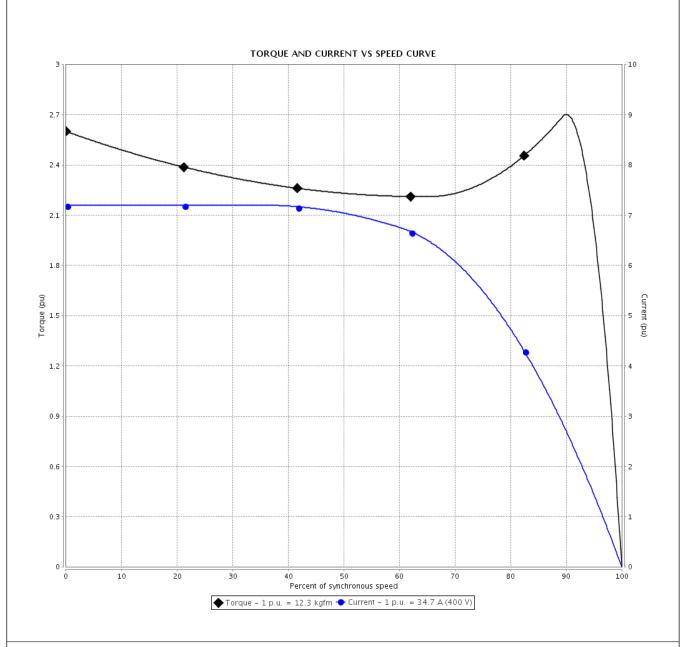
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503809

Catalog #: 03018OT3E286T-W40G



 Performance
 : 400 V 50 Hz 4P IE3

 Rated current
 : 34.7 A
 Moment of inertia (J)
 : 0.1906 kgm²

 LRC
 : 7.2
 Duty cycle
 : Cont.(S1)

: F Insulation class Rated torque : 12.3 kgfm : 260 % Service factor Locked rotor torque : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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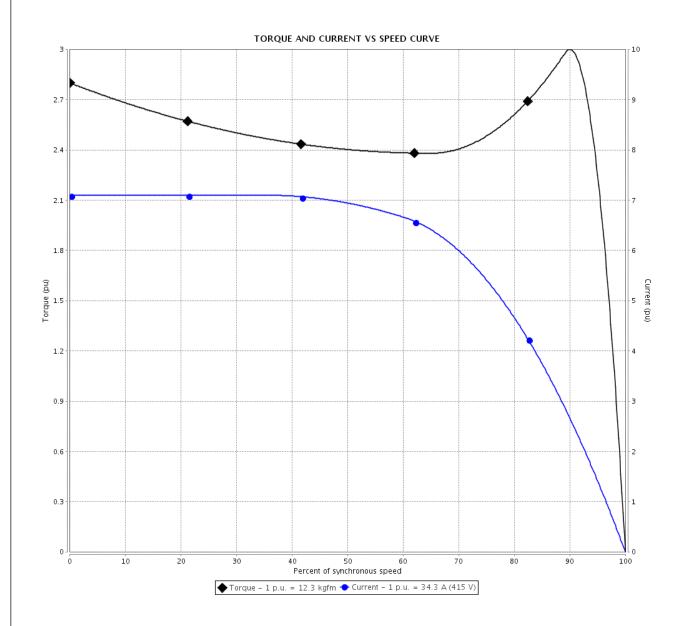
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

14503809

Catalog #: 03018OT3E286T-W40G



Performance : 415 V 50 Hz 4P IE3 Rated current : 34.3 A Moment of inertia (J) : 0.1906 kgm² **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 12.3 kgfm : 280 % Locked rotor torque Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K : B Rated speed : 1470 rpm Design

Locked rotor time : 30s (cold) 17s (hot)

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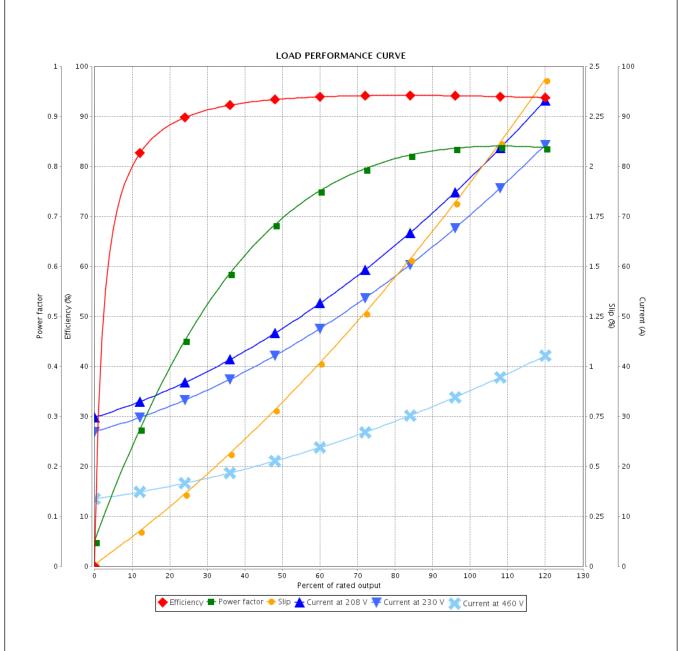
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503809

Catalog #: 03018OT3E286T-W40G

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Performance	: 230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.8/34.9 A : 6.6 : 12.3 kgfm : 280 % : 270 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1906 kgm² : Cont.(S1) : F : 1.25 : 80 K : B			
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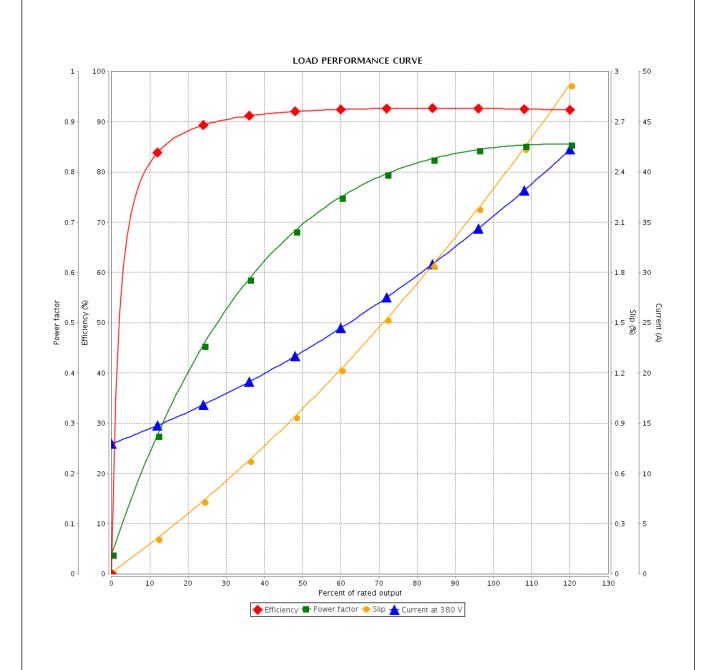
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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.7 A : 6.9 : 12.4 kgfm : 229 % : 240 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 0.1906 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	2
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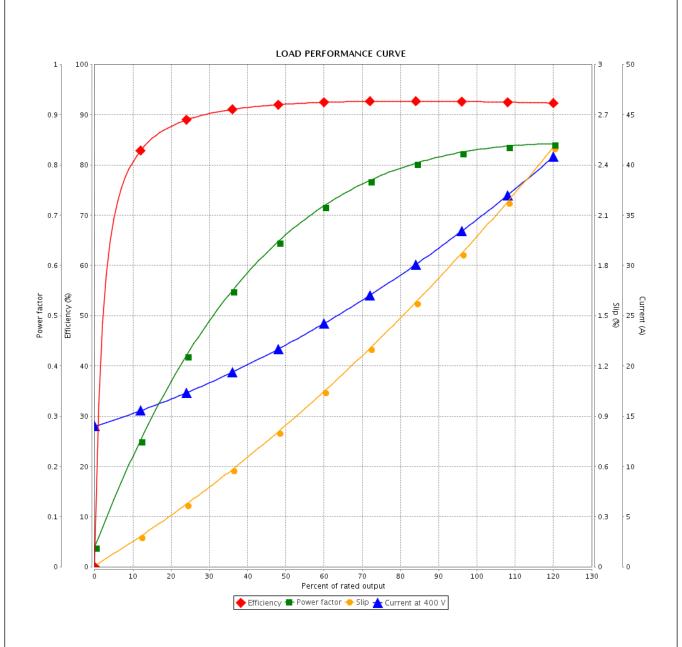
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Performance	: 4	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 1 jue : 2	34.7 A 7.2 12.3 kgfm 260 % 270 % 1470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1906 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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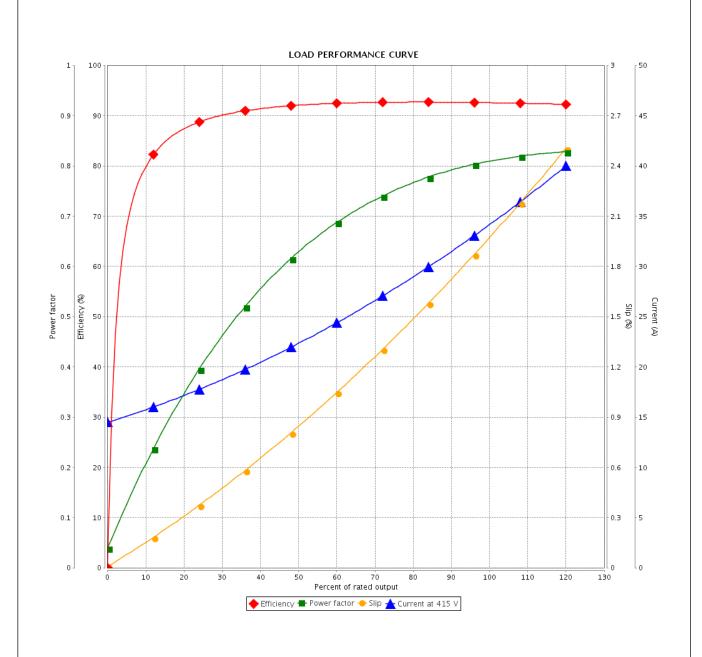
Product line : W40 NEMA Premium Efficiency F

Three-Phase

Product code: 14503809

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.3 A : 7.1 : 12.3 kgfm : 280 % : 300 % : 1470 rpm	Moment of inertia (J) : 0.1906 kgm Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		: F : 1.00 : 80 K	
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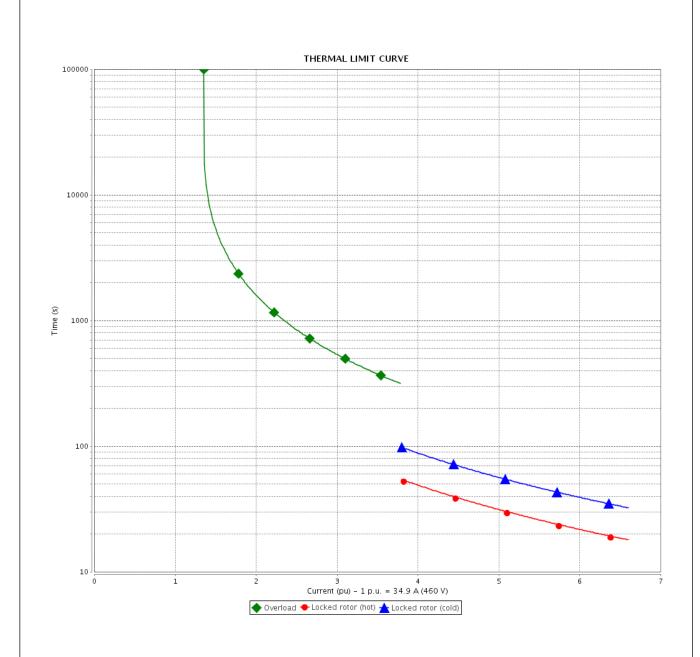


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Product line	: W40 NEMA Premium Effic Three-Phase	ciency	Product code :	14503809	
	Tillee-Filase		Catalog # :	03018OT3E2	286T-W40G
Performance	: 230/460 V 60 Hz 4P		fr (1)	0.4000	
Rated current LRC	: 69.8/34.9 A : 6.6	Moment o Duty cycle	f inertia (J)	: 0.1906 kgm² : Cont.(S1)	
Rated torque	: 12.3 kgfm	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 280 % : 270 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed	: 1765 rpm	Design	A1 G 110 G	: B	
Heating constant					
Cooling constant	<u> </u>			· · · · · ·	
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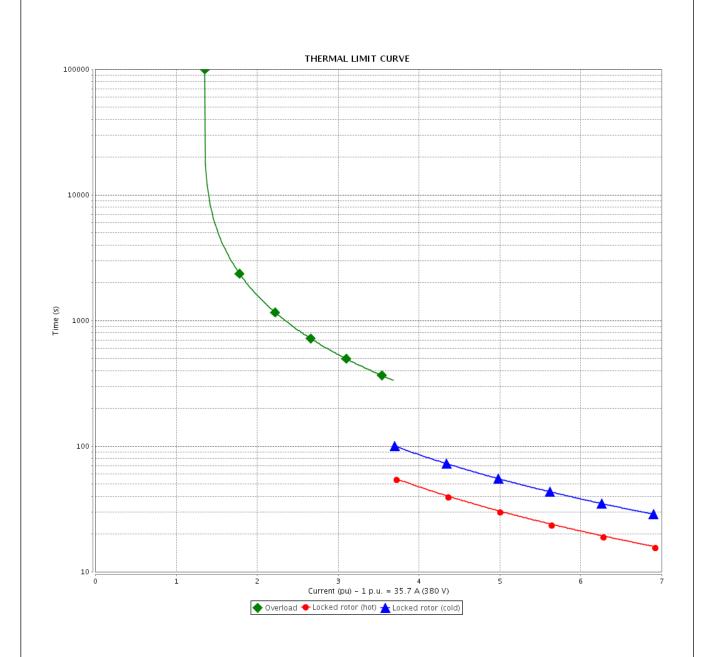


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T TOGGOT IIITO		hree-Phase				T.144.0.C
				Catalog # :	03018OT3E2	2861-W40G
Performance		100 \ / 50 LI= 4D IF0				
Rated current		880 V 50 Hz 4P IE3 85.7 A	Moment or	finartia (I)	: 0.1906 kgm²	
LRC	. 3 : 6		Duty cycle		: Cont.(S1)	
Rated torque		2.4 kgfm	Insulation	class	: F	
Locked rotor tord Breakdown torqu		229 % 240 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		465 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant						
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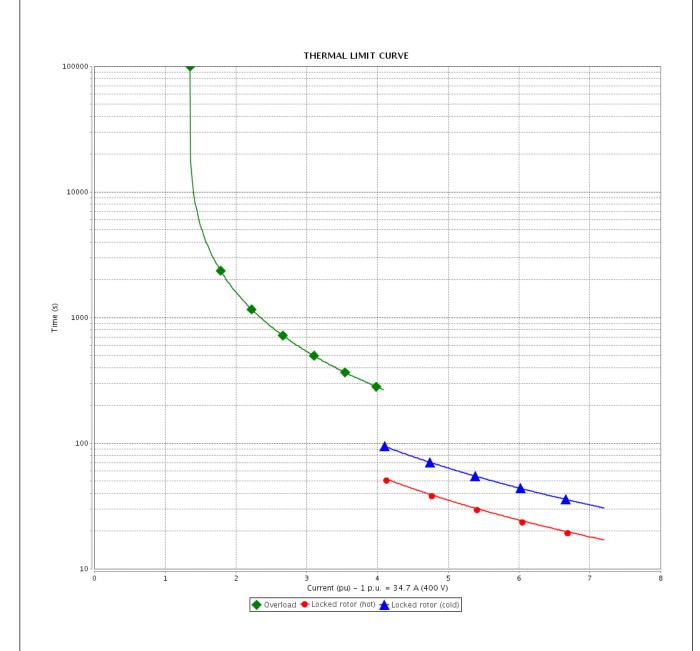


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14503809 03018OT3E28	86T-W40G
Performance		400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord	:	34.7 A 7.2 12.3 kgfm 260 %	Moment o Duty cycle Insulation Service fa	class	: 0.1906 kgm² : Cont.(S1) : F : 1.00	
Breakdown torqu Rated speed	ue :	270 % 1470 rpm	Temperatu Design		: 80 K : B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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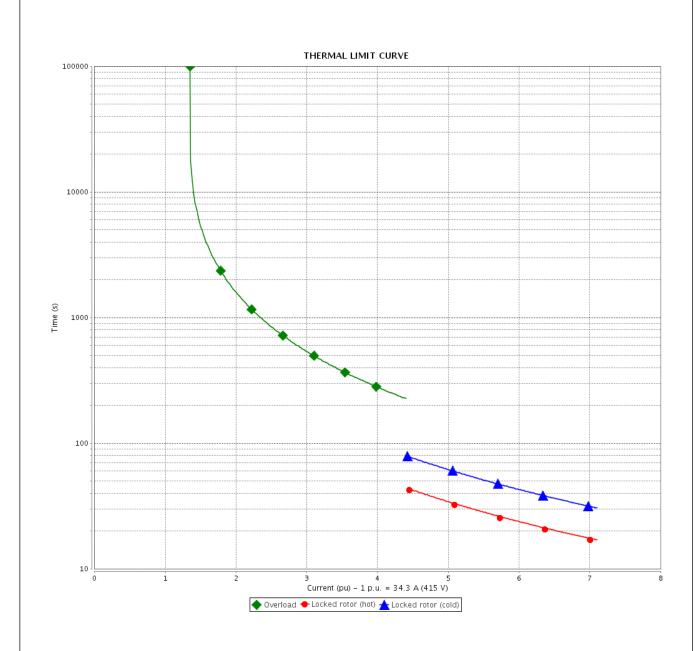


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14503809 03018OT3E28	36T-W40G
Performance		: 415 V 50 Hz 4P IE3	N4	£:	. 0.4000 l	
Rated current LRC	:	: 34.3 A : 7.1	Duty cycle		: 0.1906 kgm² : Cont.(S1)	
Rated torque		: 12.3 kgfm	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 280 % : 300 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 1470 rpm	Design		: B	
Heating constant						
Cooling constant	Ţ	Changes Comment		Dorformer	Chadicad	Dota
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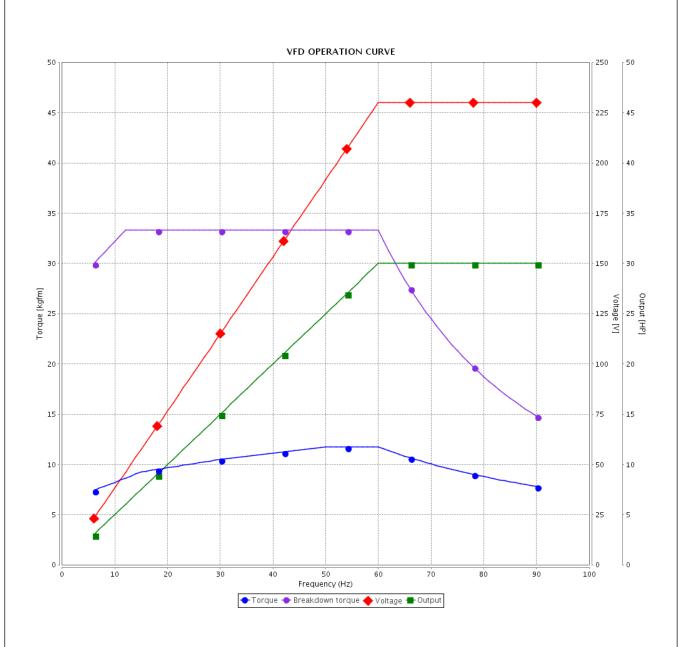
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Three-Phase

Product code: 14503809

Catalog #: 03018OT3E286T-W40G

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Performance	: 230/460 V 60 Hz 4P						
Rated current	: 69.8/34.9 A	Moment of inertia (J)		: 0.1906 kgm²			
LRC	: 6.6	Duty cycle		: Cont.(S1)			
Rated torque	: 12.3 kgfm	Insulation class		:F			
Locked rotor torque	: 280 %	Service factor		: 1.25			
Breakdown torque	: 270 %	Temperature rise		: 80 K			
Rated speed	: 1765 rpm	Design		: B			
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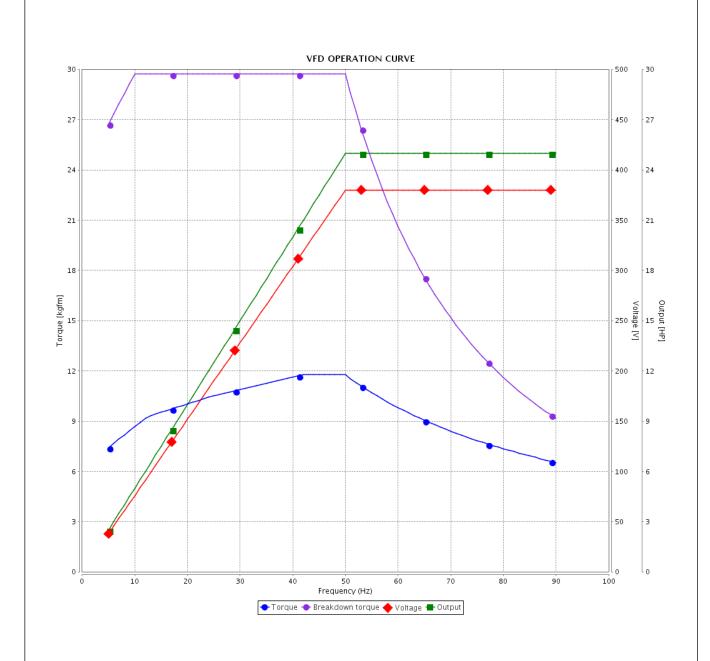
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Product code: 14503809

Catalog #: 03018OT3E286T-W40G



Performance	Performance : 380 V 50 Hz 4P IE3					
Rated current : 35.7 A		Moment o	Moment of inertia (J)		2	
LRC		: 6.9	Duty cycle)	: Cont.(S1)	
Rated torque		: 12.4 kgfm	Insulation	class	: F	
Locked rotor torqu	ue	: 229 %	Service fa	ctor	: 1.00	
Breakdown torque	Э	: 240 % Temperature rise		: 80 K		
Rated speed		: 1465 rpm	Design		: B	
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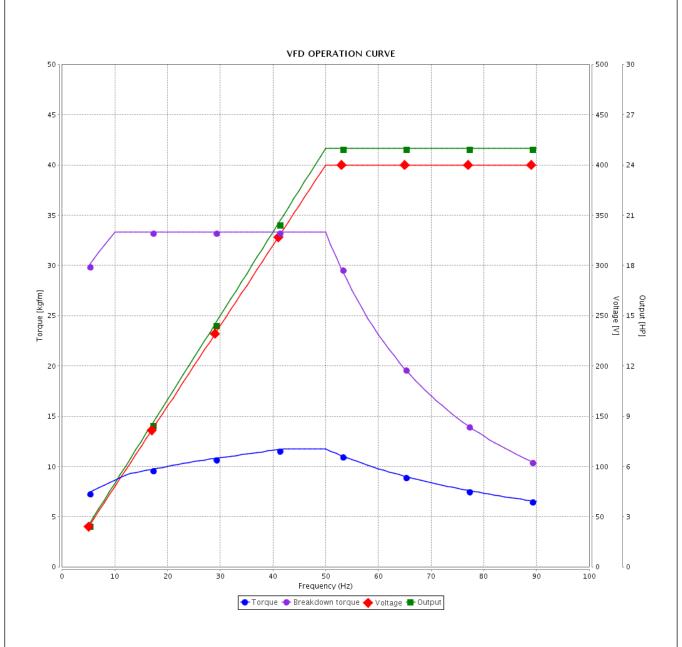
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503809

Catalog #: 03018OT3E286T-W40G



Performance : 400 V 50 Hz 4P IE3 : 0.1906 kgm² Rated current : 34.7 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.2 Insulation class : 12.3 kgfm : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



Customer

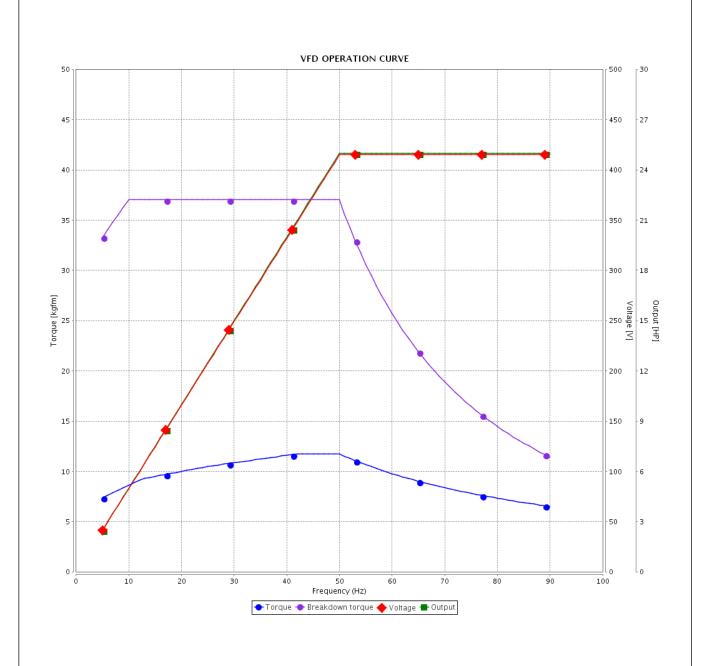
Product line : W40 NEMA Premium Efficiency Pro

Three-Phase

Product code: 14503809

Catalog #: 03018OT3E286T-W40G

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Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 34.3 A	Moment of inertia (J)		: 0.1906 kgm²	
LRC	: 7.1	Duty cycle		: Cont.(S1)	
Rated torque	: 12.3 kgfm	Insulation cla		: F	
Locked rotor torque	: 280 %	Service factor		: 1.00	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
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