DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

03018OT3E286T-W40 Catalog #:

14448032

Frame : 284/6T 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

Altitude : 1000 m.a.s.l. Approx. weight³ : 398 lb

Protection degree		: IP23	Moment of ine	Moment of inertia (J) : 4.52 sq.ft.lb	
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 [RPM	1]	1765	1465	1470	1470
Slip [%]	Slip [%]		2.33	2.00	2.00
Rated torque [ft.lb]		89.0	89.3	89.3	89.0
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
Efficiency (%)	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
I OWEL FACIOI	75%	0.80	0.80	0.78	0.75
	100%	0.84	0.85	0.83	0.81

Max. compression

Drive end Non drive end Foundation loads 6311 Z C3 Bearing type 6211 Z C3 Max. traction

Sealing Without Without Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval 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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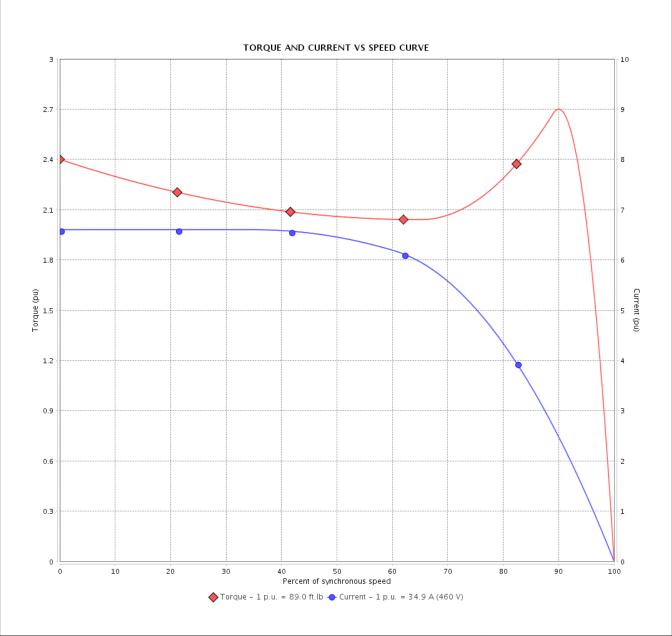
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14448032

Catalog #: 03018OT3E286T-W40



Performance : 230/460 V 60 Hz 4P Rated current : 69.8/34.9 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 89.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 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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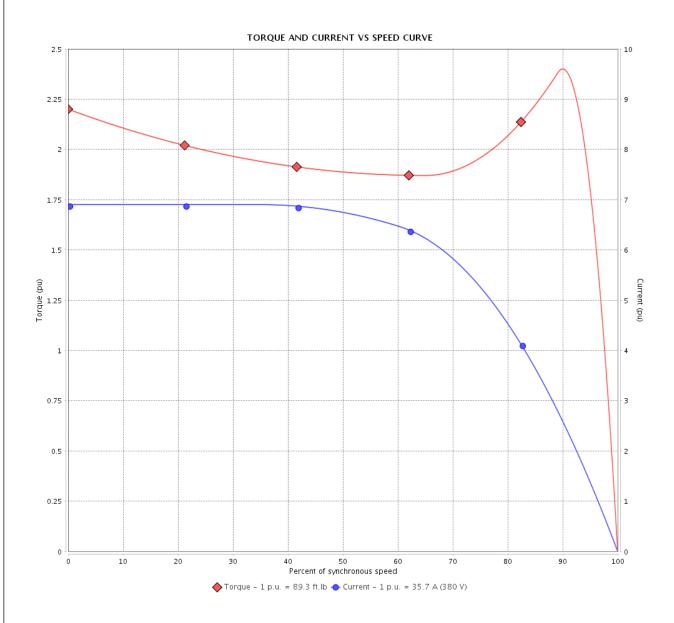
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14448032

Catalog #: 03018OT3E286T-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 35.7 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.3 ft.lb : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K : B Rated speed : 1465 rpm Design Locked rotor time

: 28s (cold) 16s (hot)

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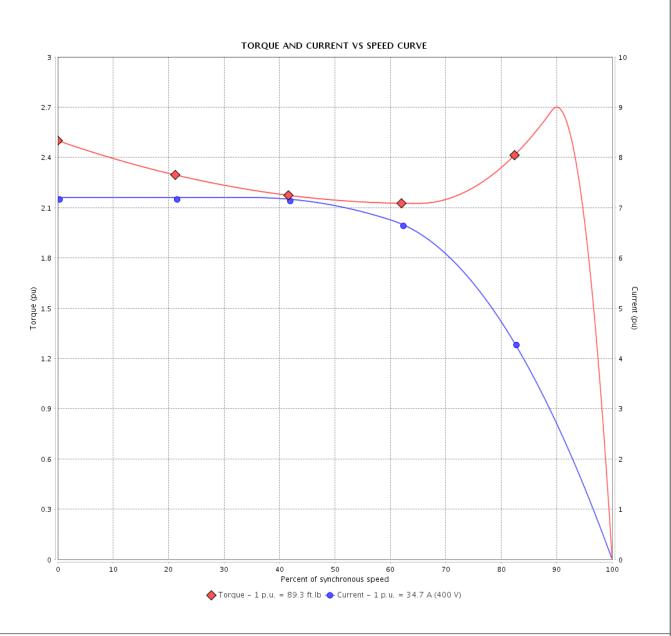
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14448032

Catalog #: 03018OT3E286T-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 34.7 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.3 ft.lb : F Service factor Locked rotor torque : 260 % : 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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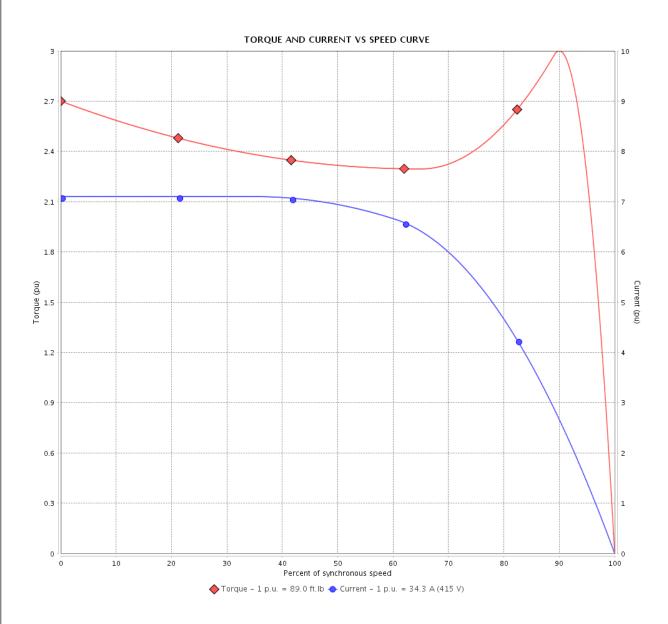


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Product line : W40 NEMA Premium Efficiency Product code : 14448032

Three-Phase

Catalog #: 03018OT3E286T-W40



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 34.3 A	Moment of inertia (J)	: 4.52 sq.ft.lb	
LRC	: 7.1	Duty cycle	: Cont.(S1)	
Rated torque	: 89.0 ft.lb	Insulation class	:F	
Locked rotor torque	: 280 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1470 rpm	Design	: B	

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

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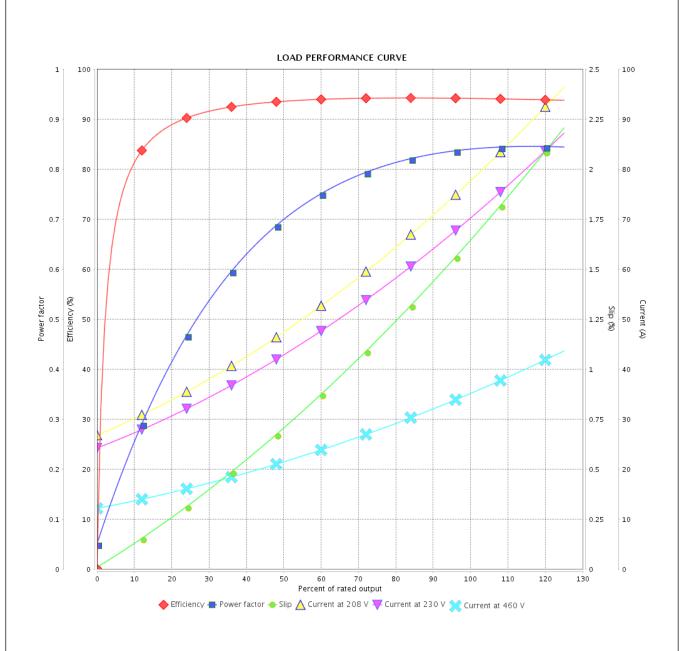
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Product code: 14448032

Catalog #: 03018OT3E286T-W40



Performance : 230/460 V 60 Hz 4P Rated current : 69.8/34.9 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 89.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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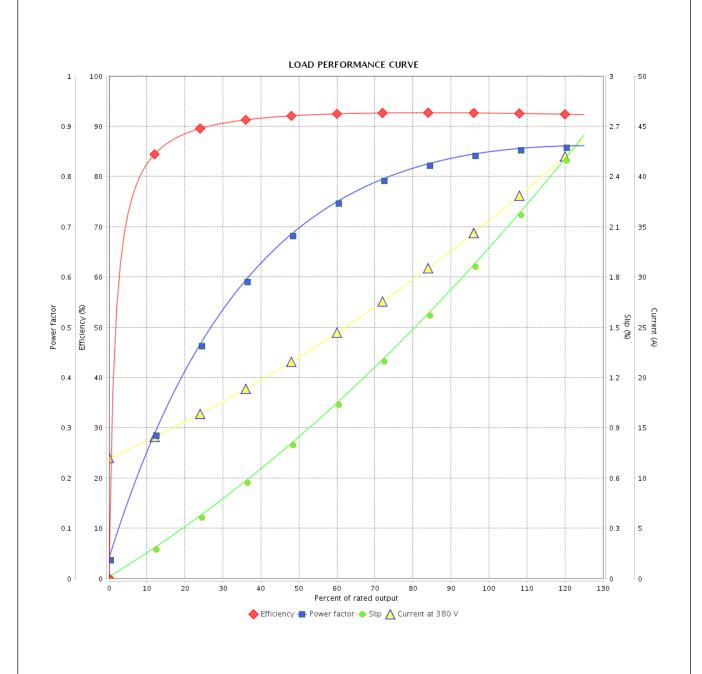
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 03018OT3E286T-W40

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 35.7 A	Moment of	f inertia (J)	: 4.52 sq.ft.lb	
LRC	: 6.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 89.3 ft.lb	Insulation	class	: F	
Locked rotor torque	: 229 %	: 240 % Temperature rise		: 1.00	
Breakdown torque	: 240 %			: 80 K	
Rated speed	: 1465 rpm			: B	
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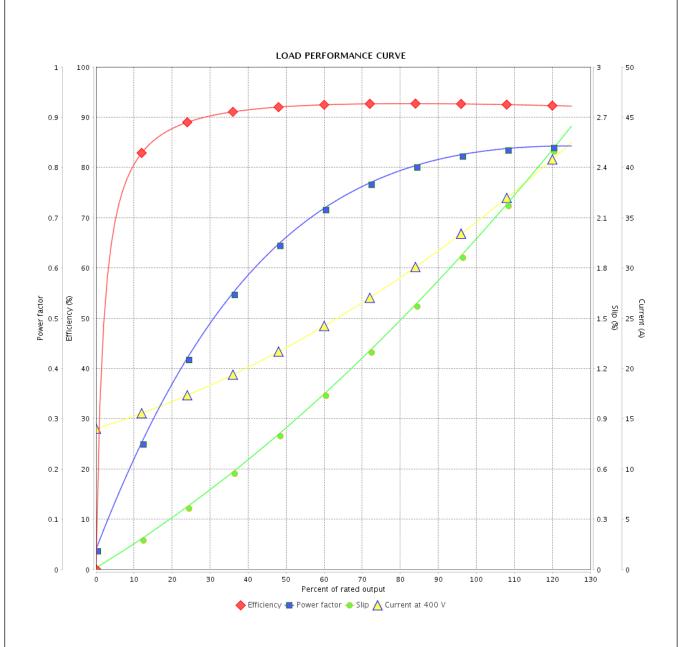
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Performance		: 400 V 50 Hz 4P II	E3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 34.7 A : 7.2 : 89.3 ft.lb : 260 % : 270 % : 1470 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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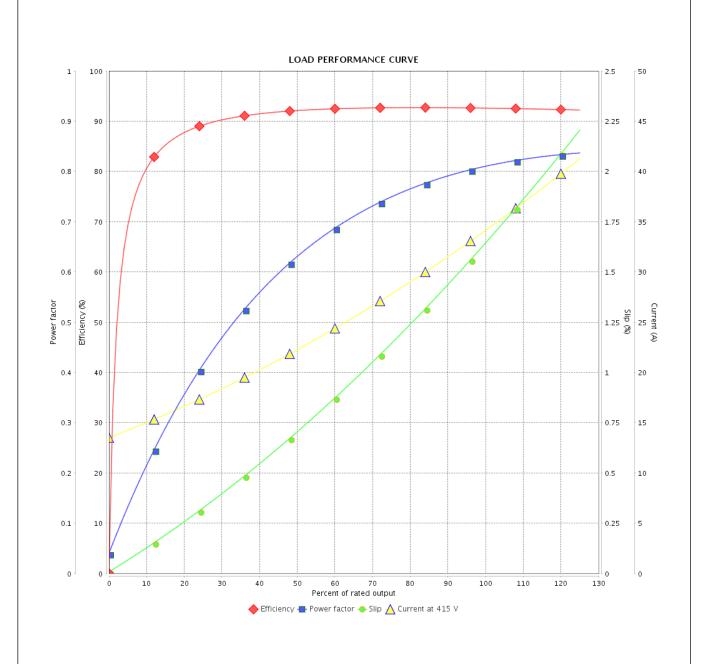
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Product line : W40 NEMA Premium Efficiency Product code : 14448032

Three-Phase

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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 : 89.0 ft.lb : 280 % : 300 % : 1470 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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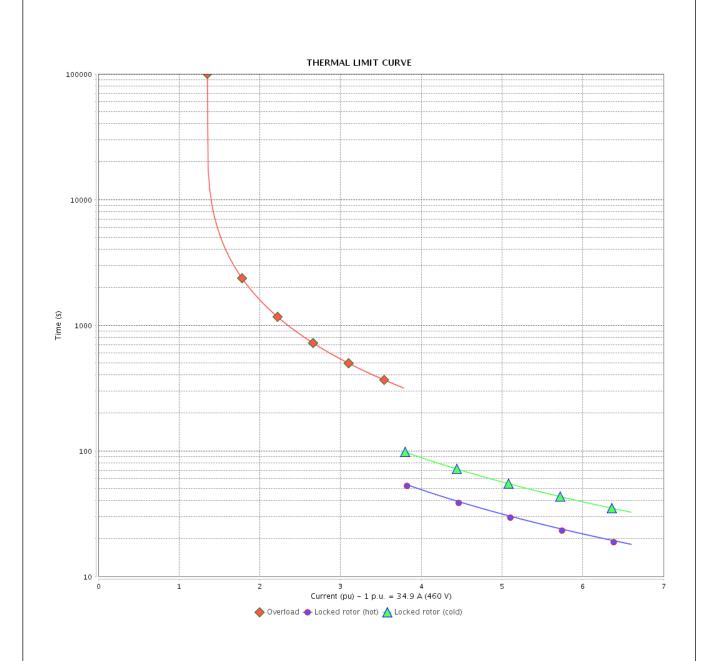


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Product line	: W40 NEMA Premium Efficie Three-Phase	ency I	Product code :	14448032	
		(Catalog # :	03018OT3E2	86T-W40
Performance	: 230/460 V 60 Hz 4P				
	: 69.8/34.9 A	Moment of	f inertia (J)	: 4.52 sq.ft.lb	
LRC	: 6.6	Duty cycle	;	: Cont.(S1)	
	: 89.0 ft.lb : 280 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 270 %	Temperatu		: 80 K	
	: 1765 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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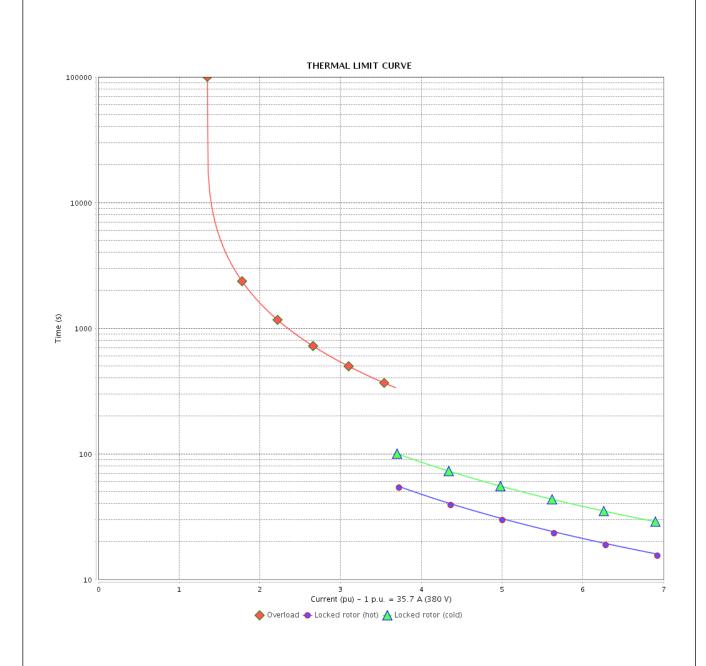


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				Jatalog #:	03018013E2	861-W4U
Performance	: 3	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6 : 8 ue : 2 e : 2	5.7 A .9 9.3 ft.lb 29 % 40 % 465 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant						
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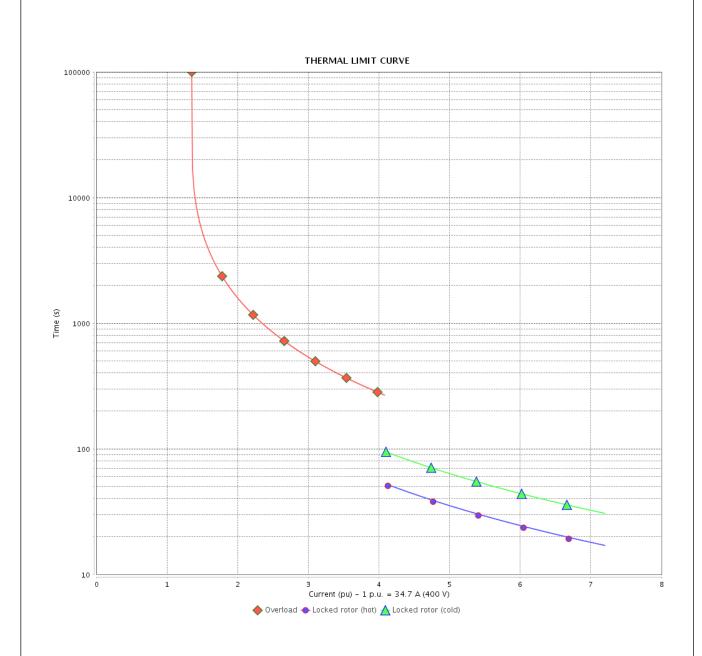


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Product line	: W40 NEMA Premium Effici Three-Phase	iency Product code :	14448032	
	Tillee-i Hase	Catalog # :	03018OT3E286T-	W40
Performance	: 400 V 50 Hz 4P IE3		. =	
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 34.7 A : 7.2 : 89.3 ft.lb : 260 % : 270 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 1470 rpm	Design	: B	
Heating constant				
Cooling constant	0, 0		Oh a l	D-4
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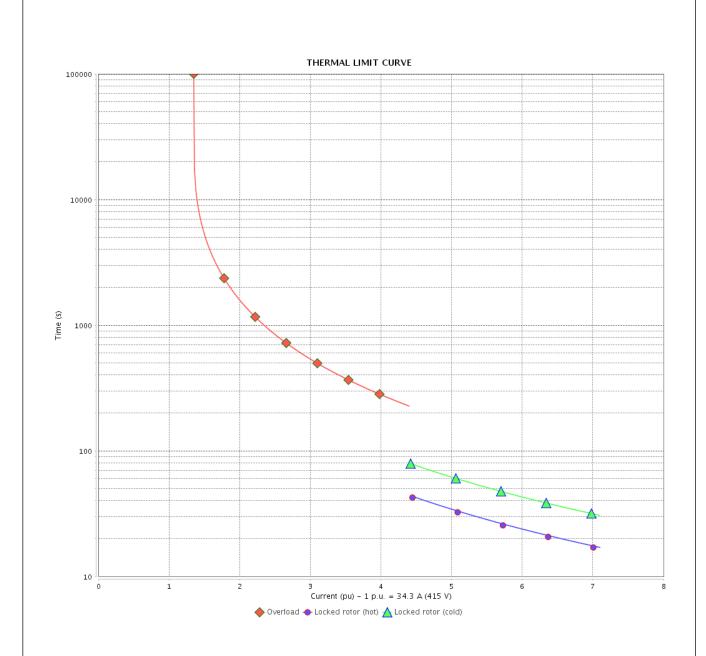


Customer		:				
Product line		: W40 NEMA Premium Efficient		Product code : Catalog # :	14448032 03018OT3E2	86T-W40
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 34.3 A : 7.1	Moment of Duty cycle	of inertia (J)	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque		: 89.0 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 280 % : 300 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 1470 rpm	Design	u. 5 1100	: B	
Heating constan						
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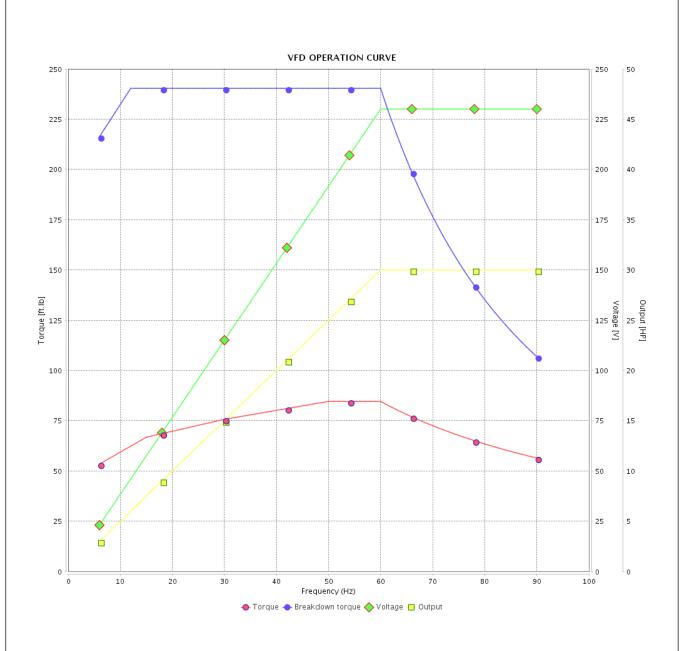
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14448032

Catalog #: 03018OT3E286T-W40



Performance : 230/460 V 60 Hz 4P Rated current : 69.8/34.9 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 89.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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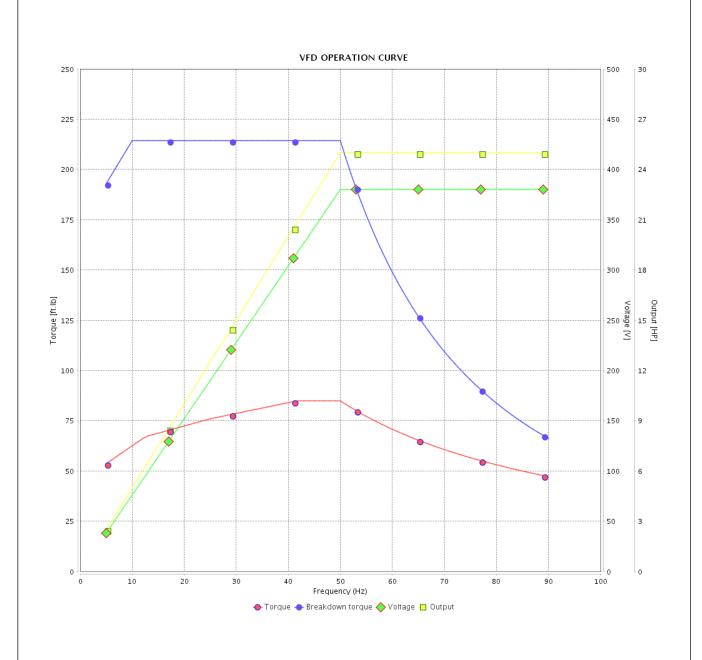
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Performance : 380 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.7 A : 6.9 : 89.3 ft.lb : 229 % : 240 % : 1465 rpm	Service factor Temperature rise		: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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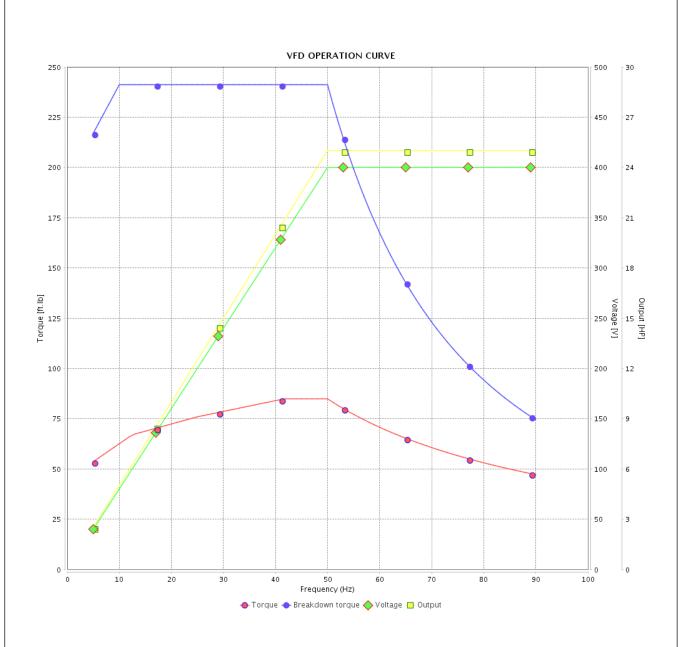
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Performance	: 4	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue : :	34.7 A 7.2 89.3 ft.lb 260 % 270 % 1470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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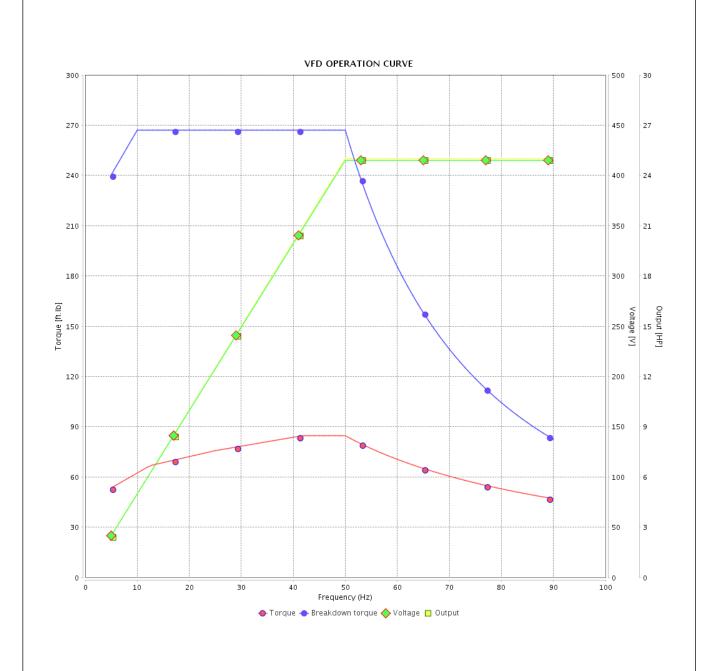
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Three-Phase

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					7	
Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 34	: 34.3 A Moment		f inertia (J)	: 4.52 sq.ft.lb	
LRC : 7.1		Duty cycle	Duty cycle			
Rated torque	: 89	: 89.0 ft.lb Insulation class		class	: F	
Locked rotor torque : 280 %		30 %	Service factor		: 1.00	
Breakdown torque		00 %	Temperati	Temperature rise		
Rated speed	: 14	Propried Design		: B		
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