### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 03018OT3E286TS-W40

14495716

Frame : 284/6TS 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 Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 395 lb Altitude

: IP23 Protection degree Moment of inertia (J) : 4.52 sq.ft.lb

1		— -			- 4
Design		: B			
Output [HP]		30	25	25	25
Poles		4	4	4	4
Frequency [Hz]	Frequency [Hz]		50	50	50
Rated voltage [V]	Rated voltage [V]		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	1]	1765	1465	1470	1470
Slip [%]		1.94	2.33	2.00	2.00
Rated torque [ft.lb]	Rated torque [ft.lb]		89.3	89.3	89.0
Locked rotor torqu	Locked rotor torque [%]		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 <sup>2</sup>		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 OWEI FACIOI	75%	0.80	0.80	0.78	0.75
	100%	0.84	0.85	0.83	0.81

Drive end Non drive end Foundation loads Bearing type 6311 Z C3 6211 Z C3 Max. traction Without Max. compression

Sealing 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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#### Three Phase Induction Motor - Squirrel Cage



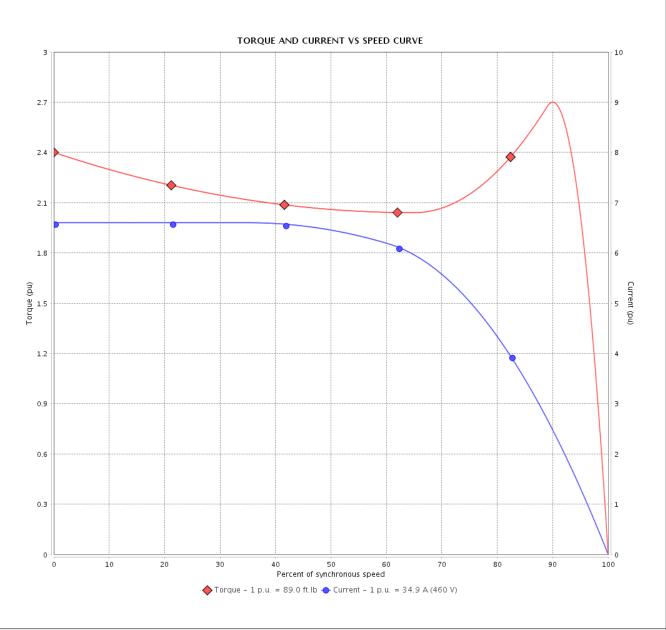
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495716

Catalog #: 03018OT3E286TS-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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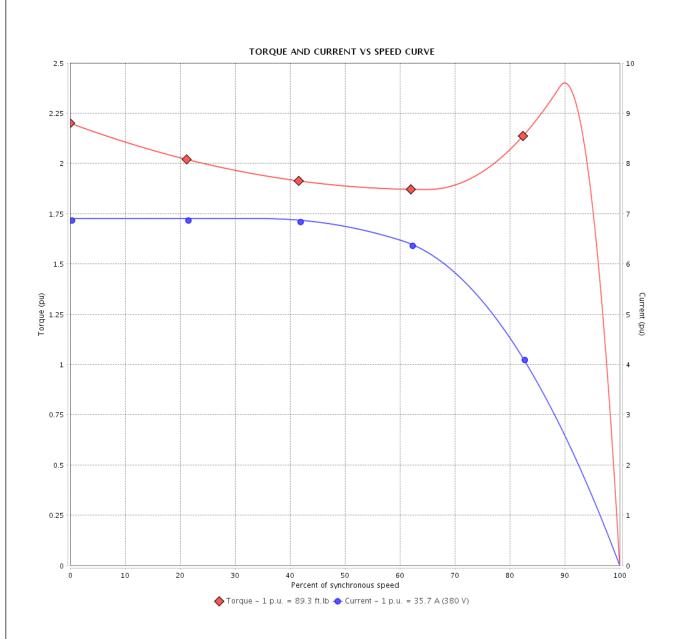


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14495716

Three-Phase

Catalog #: 03018OT3E286TS-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)	
Rated torque	: 89.3 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (bot)			

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

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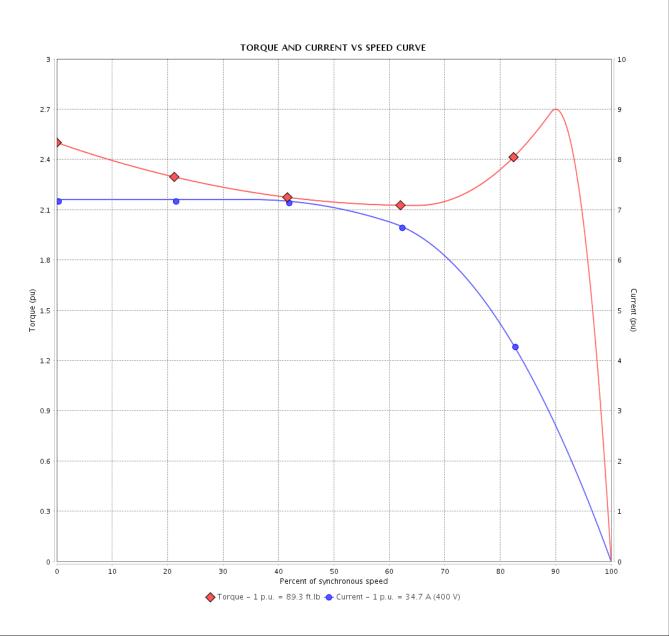


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14495716

Three-Phase

Catalog #: 03018OT3E286TS-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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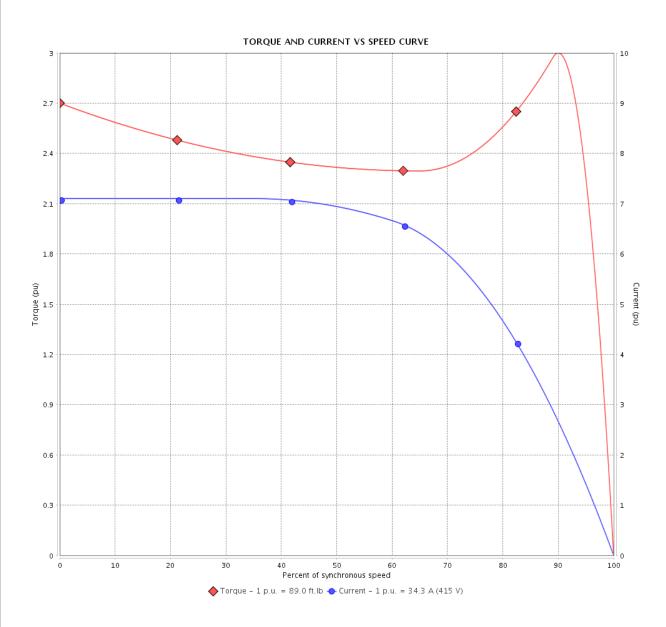


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14495716

Three-Phase

Catalog #: 03018OT3E286TS-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)			

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

LOCKCU TOTOL TITLE		03 (cold) 173 (flot)			
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Customer :

Date

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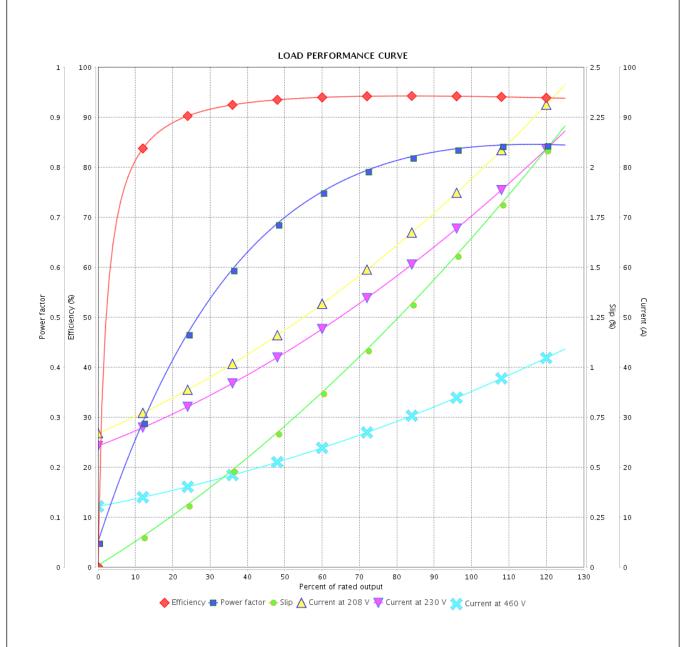
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495716

Catalog #: 03018OT3E286TS-W40

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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

#### Three Phase Induction Motor - Squirrel Cage



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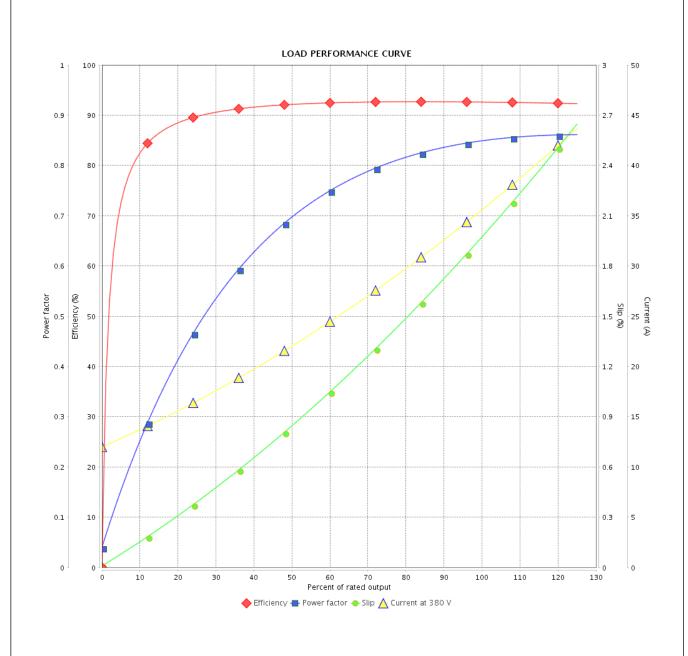
Three-Phase

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	: 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	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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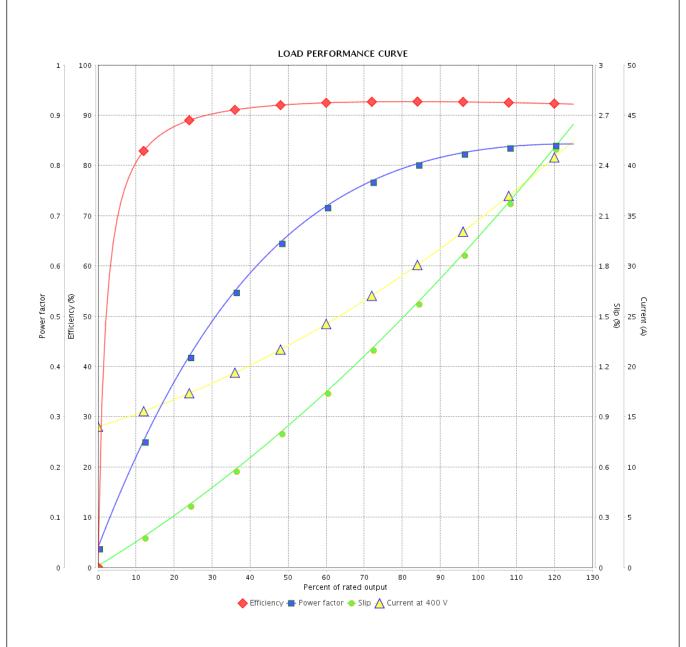
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495716

Catalog #: 03018OT3E286TS-W40



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

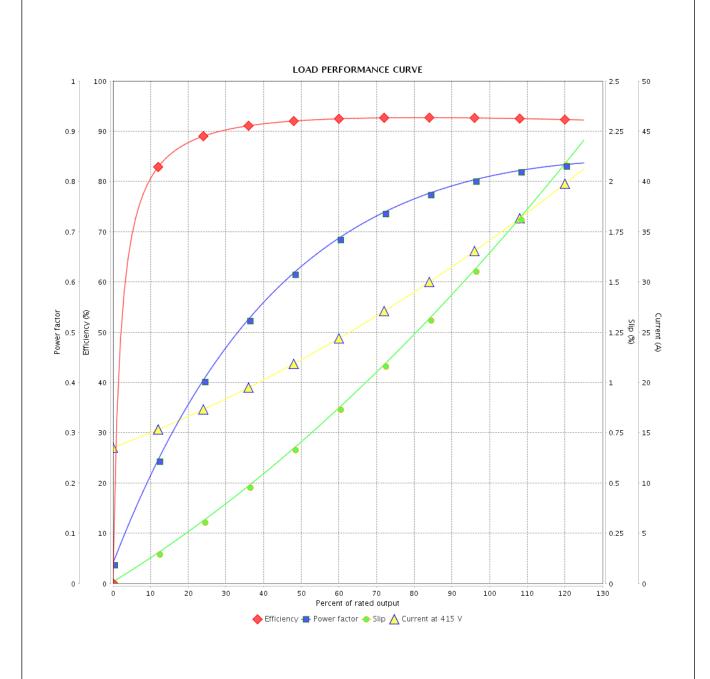


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14495716

Three-Phase

Catalog #: 03018OT3E286TS-W40



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	34.3 A	Moment o	f 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	e :	280 %	Service fa	ctor	: 1.00	
Breakdown torque	:	300 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1470 rpm	Design		: B	
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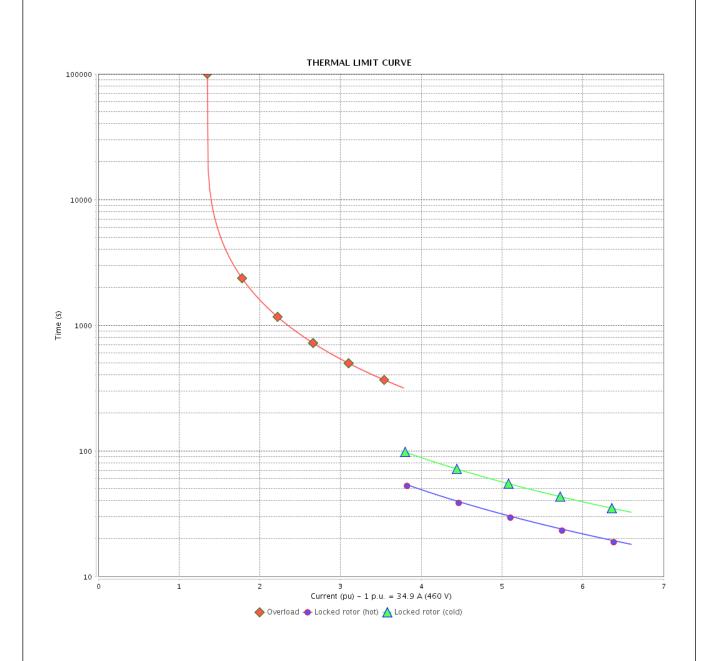


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14495716 03018OT3E28	36TS-W40
Performance		230/460 V 60 Hz 4P				
Rated current LRC Rated torque	:	69.8/34.9 A 6.6 89.0 ft.lb	Moment on Duty cycle Insulation		: 4.52 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que :	280 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		270 % 1765 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
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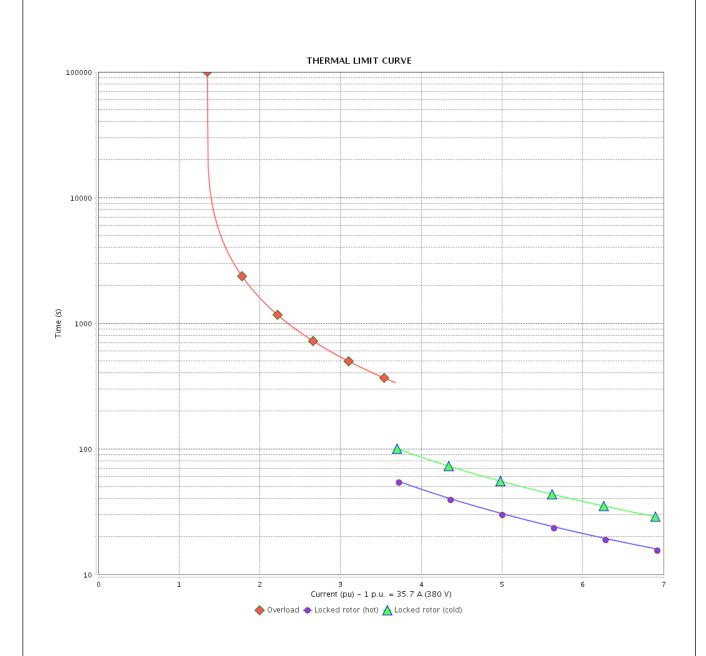


Customer	:				
Product line	: W40 NEMA Premium Effi Three-Phase		oduct code :	14495716	
		Ca	atalog # :	03018OT3E2	86TS-W40
Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.7 A : 6.9 : 89.3 ft.lb : 229 % : 240 % : 1465 rpm	Moment of in Duty cycle Insulation cla Service factor Temperature Design	ass or	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	<u> </u>				
Heating constant					
Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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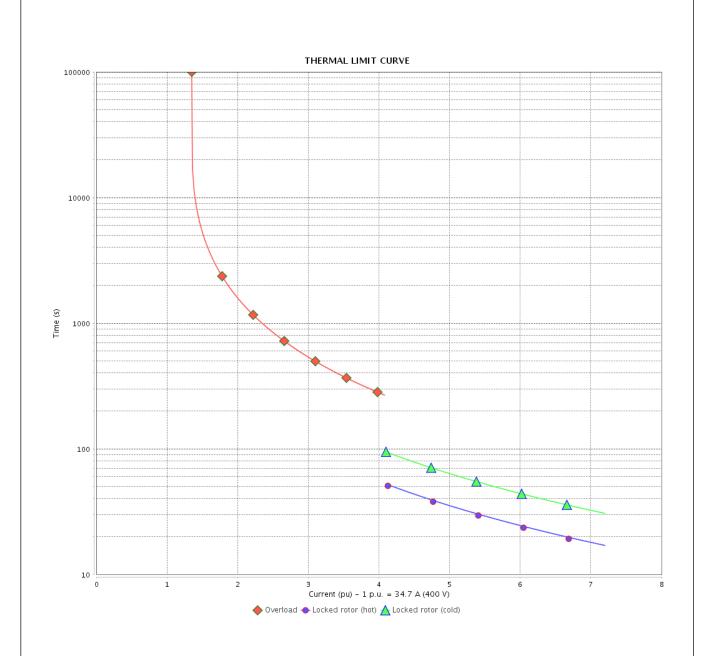


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14495716 03018OT3E28	36TS-W40
Performance		400 V 50 Hz 4P IE3				
Rated current LRC Rated torque	:	34.7 A 7.2 89.3 ft.lb	Duty cycle Insulation	class	: 4.52 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ue :	260 % 270 % 1470 rpm	Service fa Temperatu Design		: 1.00 : 80 K : B	
Heating constant						
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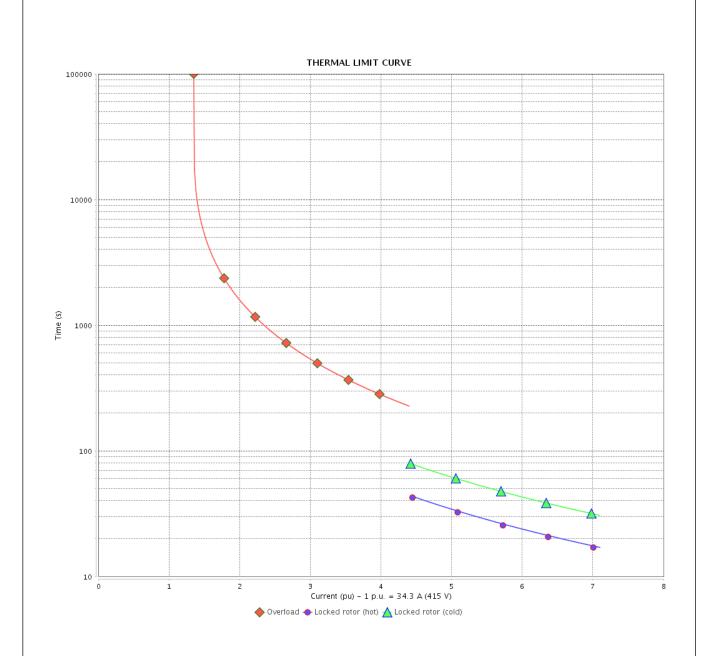


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Customer	:					
Product line		W40 NEMA Premium Efficie nree-Phase	ency F	Product code :	14495716	
			(	Catalog # :	03018OT3E28	36TS-W40
Performance		15 V 50 Hz 4P IE3				
Rated current LRC	: 3 <sup>2</sup> : 7.	1.3 A	Moment of Duty cycle	finertia (J)	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque		9.0 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 28	30 %	Service fac	ctor	: 1.00	
Breakdown torque Rated speed	ie : 30	00 % 170 rpm	Temperatu Design	re rise	: 80 K : B	
Heating constant						
Cooling constant						
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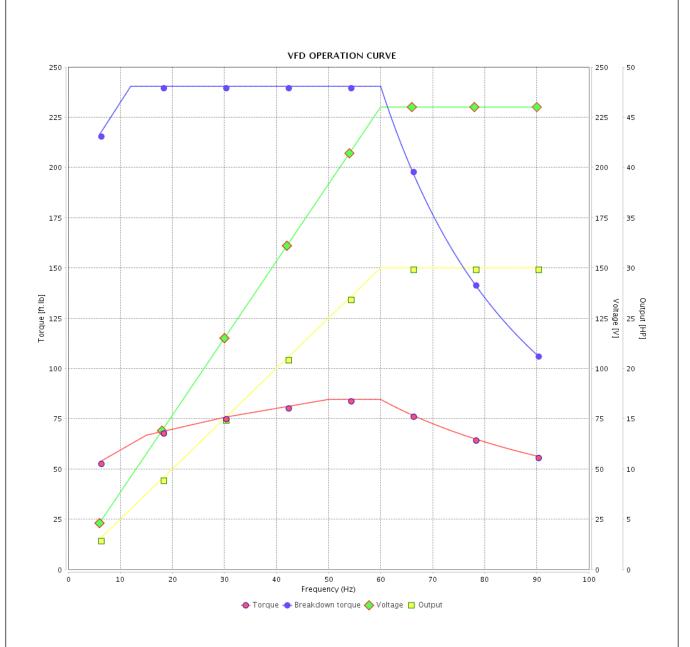
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495716

Catalog #: 03018OT3E286TS-W40

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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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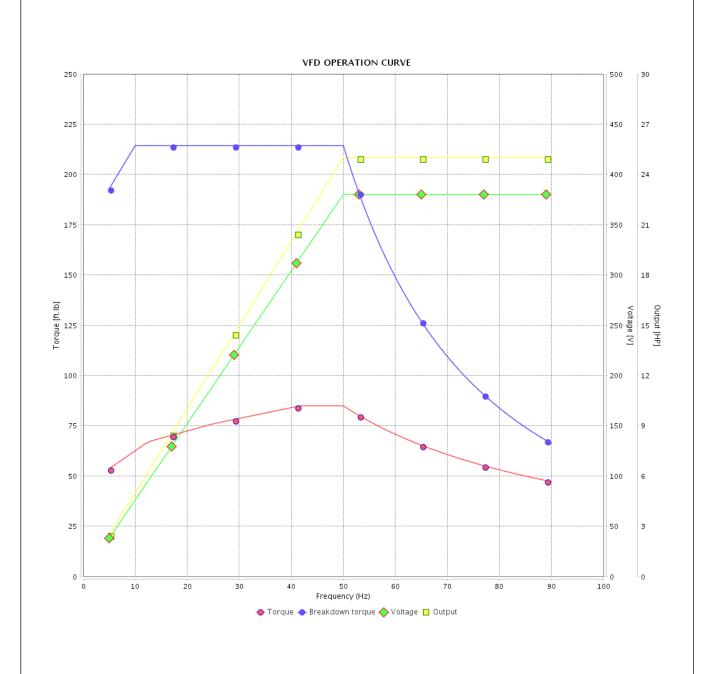
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495716

Catalog #: 03018OT3E286TS-W40



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 3	: 35.7 A		f inertia (J)	: 4.52 sq.ft.lb	
LRC	: 6	.9	Duty cycle	)	: Cont.(S1)	
Rated torque	: 8	9.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	29 %	Service fa	ctor	: 1.00	
Breakdown torque		40 %	Temperature rise		: 80 K	
Rated speed	: 1	465 rpm	Design		: B	
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Product line : W40 NEMA Premium Efficiency

Three-Phase

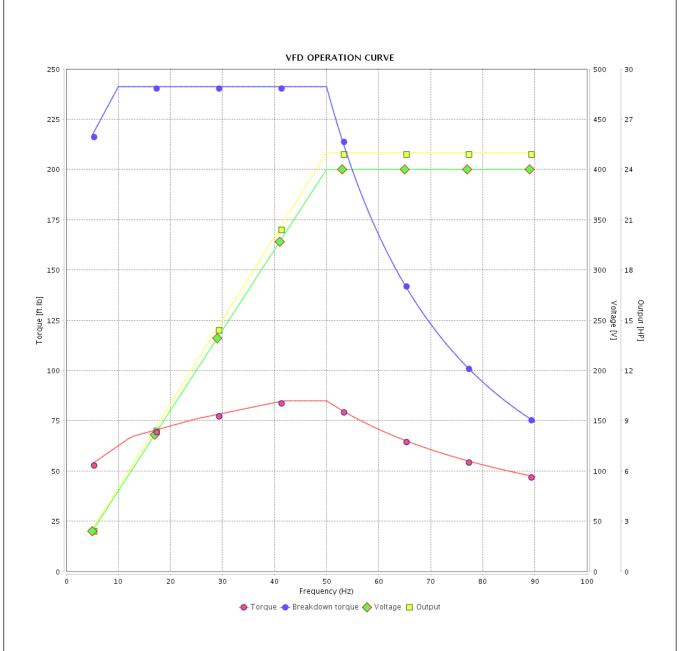
Product code: 14495716

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



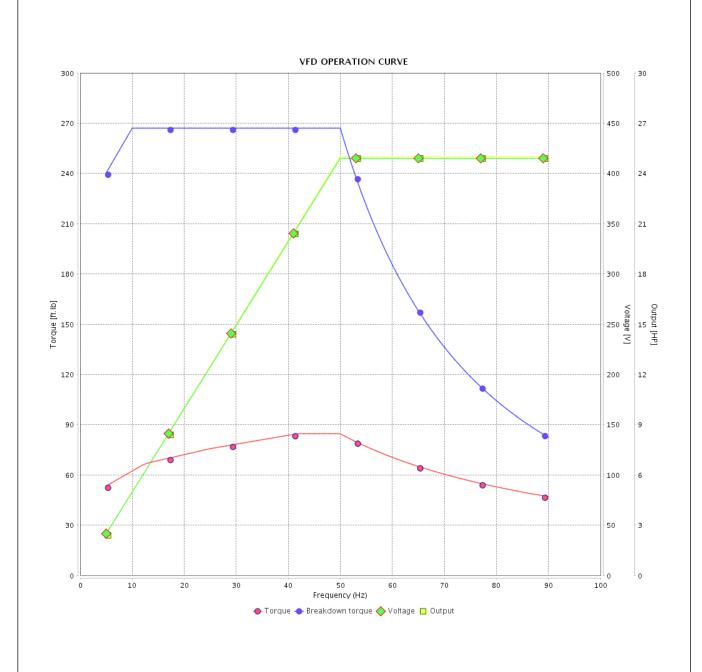
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495716

Catalog #: 03018OT3E286TS-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 3	: 34.3 A		Moment of inertia (J)		
LRC	: 7	.1	Duty cycle	)	: Cont.(S1)	
Rated torque	: 8	9.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	80 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	00 %	Temperature rise		: 80 K	
Rated speed	: 1	470 rpm	Design		: B	
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