DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 10036OT3E365TS-W40G

14272921

Frame : 364/5TS Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 774 lb Altitude Moment of inertia (J) : 7.20 sq.ft.lb

Protection degree : IP23

Design		: B			
Output [HP]		100	75	75	75
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		232/116	103	100	97.8
L. R. Amperes [A]		1531/766	773	800	773
LRC [A]		6.6x(Code G)	7.5x(Code H)	8.0x(Code J)	7.9x(Code J)
No load current [A]	59.0/29.5	28.5	32.5	35.0
Rated speed [RPI	/ 1]	3555	2960	2964	2967
Slip [%]		1.25	1.33	1.20	1.10
Rated torque [ft.lb]		148	133	133	133
	Locked rotor torque [%]		220	240	250
Breakdown torque	Breakdown torque [%]		260	280	320
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		23s (cold) 13s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	19s (cold) 11s (hot)
Noise level ²		84.0 dB(A)			
	25%	92.2	88.0	88.2	88.2
Efficiency (%)	50%	92.4	90.2	90.3	90.3
Linciency (70)	75%	93.6	91.9	92.0	92.0
	100%	93.6	94.3	94.3	94.3
	25%	0.55	0.53	0.47	0.47
Power Factor	50%	0.77	0.74	0.69	0.70
1 OWELL ACTOR	75%	0.84	0.83	0.78	0.80
	100%	0.87	0.86	0.84	0.83

Drive end Non drive end Foundation loads

Bearing type 6314 C3 6212 Z C3 Max. traction : 1068 lb Without Sealing Without Max. compression : 1843 lb

Bearing Seal Bearing Seal 14418 h 20000 h Lubrication interval

Lubricant amount 13 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 257A SF 1.15 SFA 295A

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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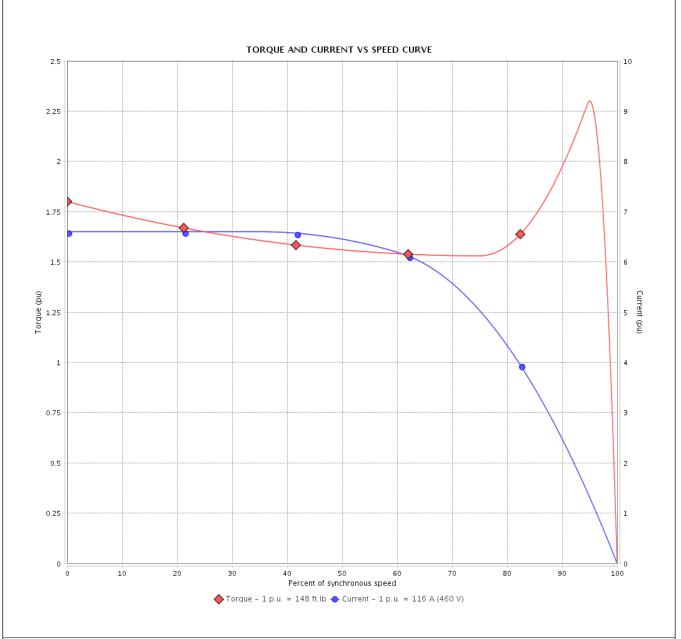
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272921

Catalog #: 10036OT3E365TS-W40G



Performance : 230/460 V 60 Hz 2P Rated current : 232/116 A Moment of inertia (J) : 7.20 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Service factor Locked rotor torque : 180 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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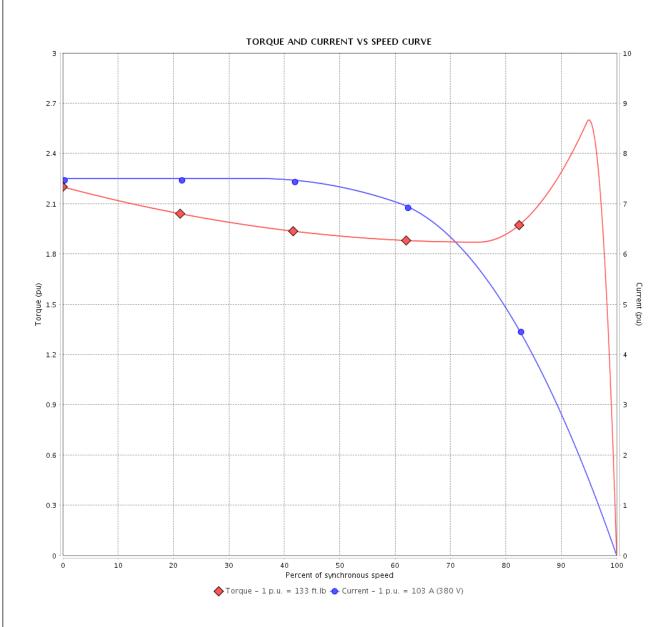
Three Phase Induction Motor - Squirrel Cage



Customer Product line

: W40 NEMA Premium Efficiency Product code: 14272921

> Catalog #: 10036OT3E365TS-W40G



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 103 A	Moment of inertia (J)	: 7.20 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 133 ft.lb	Insulation class	:F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 2960 rpm	Design	: B	

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

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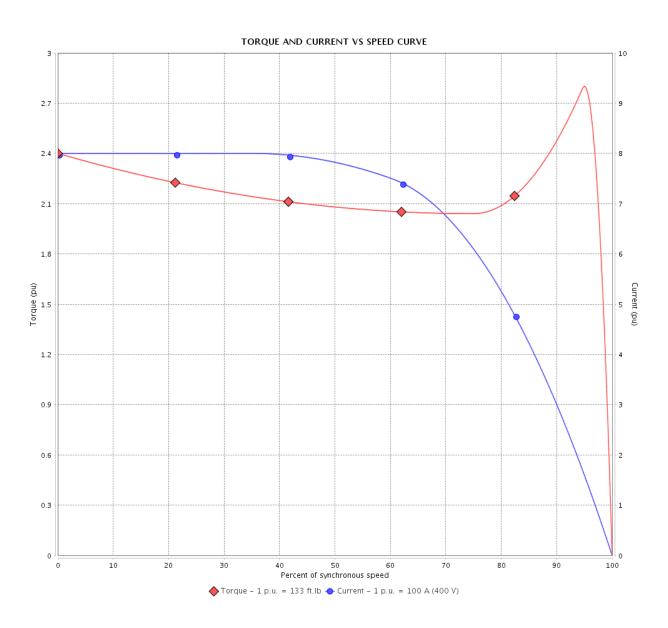
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272921

Catalog #: 10036OT3E365TS-W40G



Performance : 400 V 50 Hz 2P IE3 Rated current : 100 A Moment of inertia (J) : 7.20 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 133 ft.lb : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2964 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 14272921 Three-Phase Catalog #: 10036OT3E365TS-W40G TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 133 ft.lb ◆ Current - 1 p.u. = 97.8 A (415 V)

Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC	: 97.8 A : 7.9	Moment of i	nertia (J)	: 7.20 sq.ft.lb : Cont.(S1)	
Rated torque	: 133 ft.lb	Insulation cl		: F	
Locked rotor torque Breakdown torque	: 250 % : 320 %	Service fact Temperature		: 1.00 : 80 K	
Rated speed	: 2967 rpm	Design		: B	
Locked rotor time	: 19s (cold) 11s (hot)				
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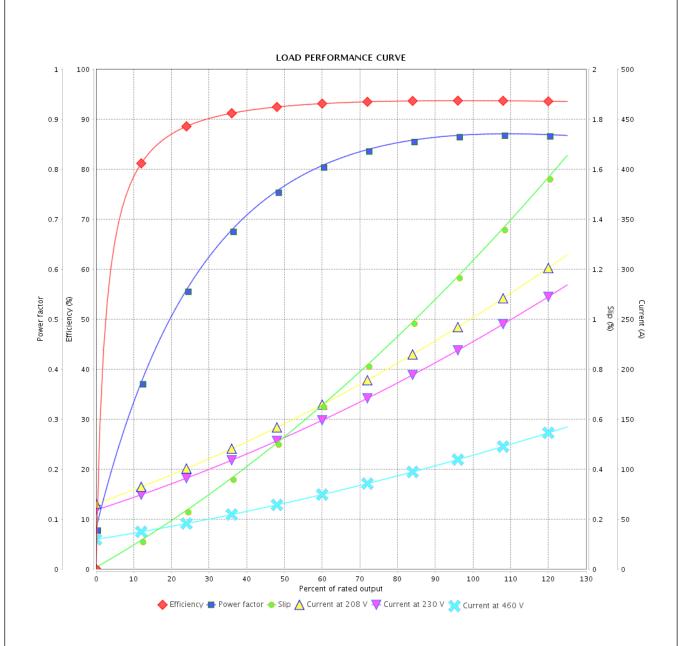
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272921

Catalog #: 10036OT3E365TS-W40G



Performance : 230/460 V 60 Hz 2P Rated current : 232/116 A Moment of inertia (J) : 7.20 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 148 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B Rev. **Changes Summary** Performed Checked Date

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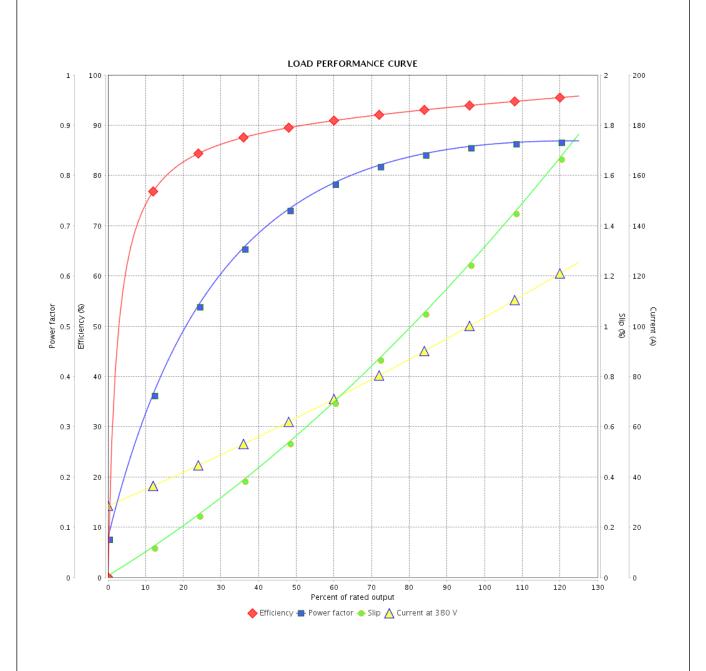


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14272921

Three-Phase

Catalog #: 10036OT3E365TS-W40G



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current		03 A	Moment o	f inertia (J)	: 7.20 sq.ft.lb	
LRC	: 7	7.5	Duty cycle)	: Cont.(S1)	
Rated torque		33 ft.lb	Insulation	class	: F	
Locked rotor torque		20 %	Service fa	ctor	: 1.00	
Breakdown torque		.60 %	Temperati	Temperature rise		
Rated speed	: 2	.960 rpm	Design		: B	
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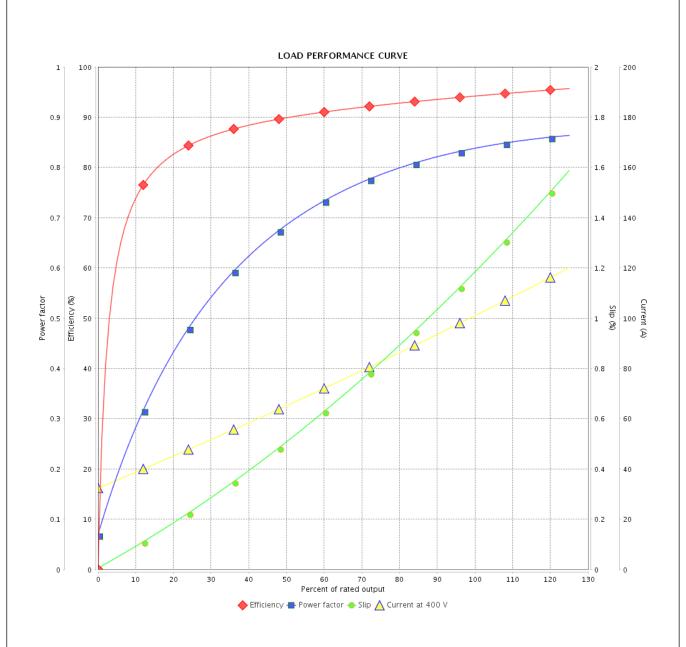
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272921

Catalog #: 10036OT3E365TS-W40G



Performance : 400 V 50 Hz 2P IE3 : 100 A Rated current Moment of inertia (J) : 7.20 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 133 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2964 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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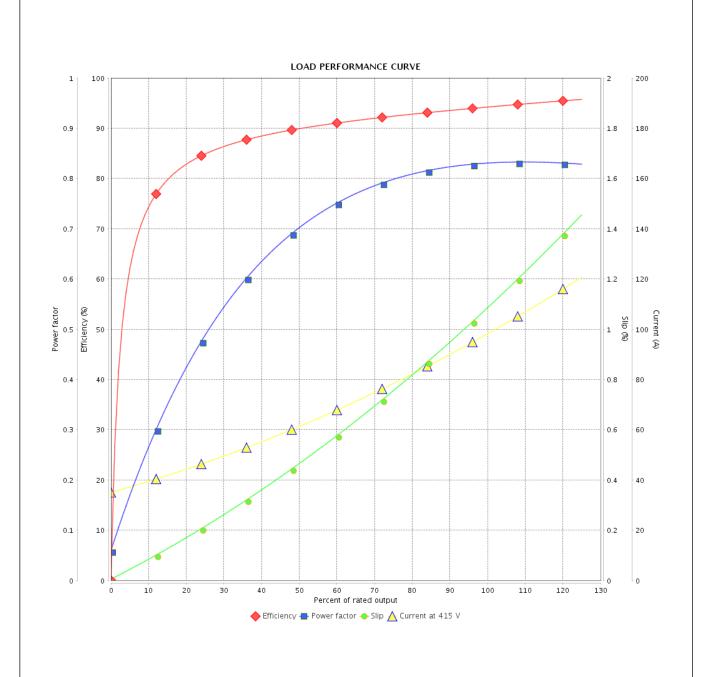


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Product line : W40 NEMA Premium Efficiency Product code : 14272921

Three-Phase

Catalog #: 10036OT3E365TS-W40G



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 9	7.8 A	Moment o	f inertia (J)	: 7.20 sq.ft.lb	
LRC	: 7	.9	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	33 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 3:	20 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	967 rpm	Design		: B	
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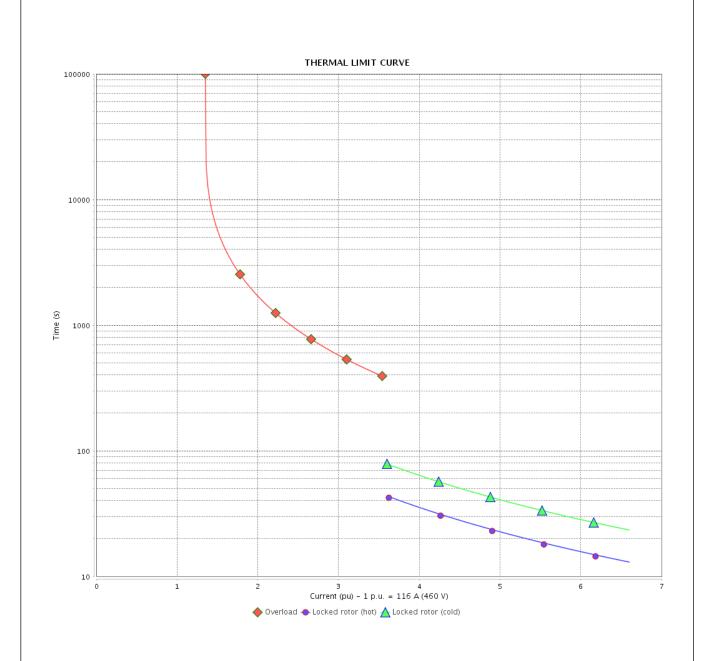


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Product line		: W40 NEMA Premium Efficion Three-Phase		Product code : Catalog # :	14272921 10036OT3E36	65TS-W40G
Performance		000/400 \/ 00 - 0D				
Rated current		230/460 V 60 Hz 2P 232/116 A	Moment o	of inertia (J)	: 7.20 sq.ft.lb	
LRC	:	6.6	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		148 ft.lb 180 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		229 %	Temperati		: 1.25 : 80 K	
Rated speed		3555 rpm	Design		: B	
Heating constant						
Cooling constant	ι 	Changes Summary		Performed	Checked	Date
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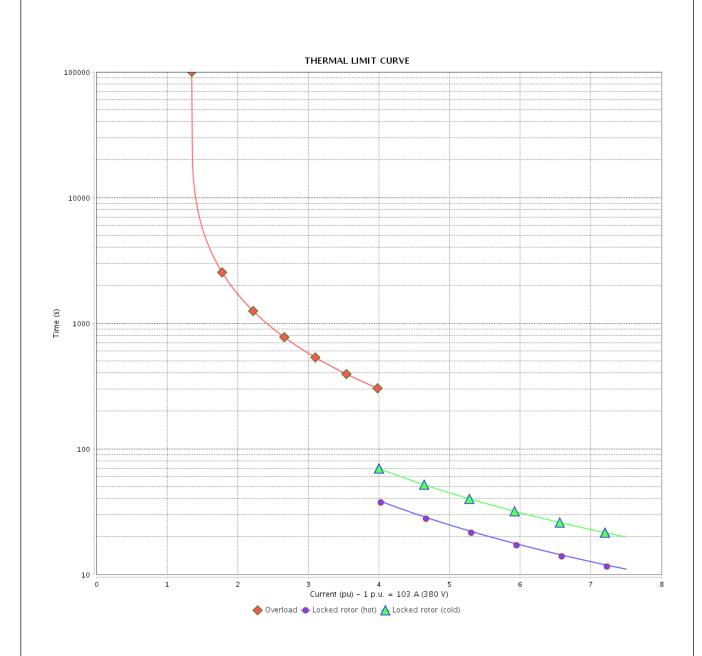


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272921 10036OT3E36	65TS-W40G
Performance	:	380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: : que :	103 A 7.5 133 ft.lb 220 % 260 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Heating constant Cooling constant	t	2960 rpm	Design		: B	
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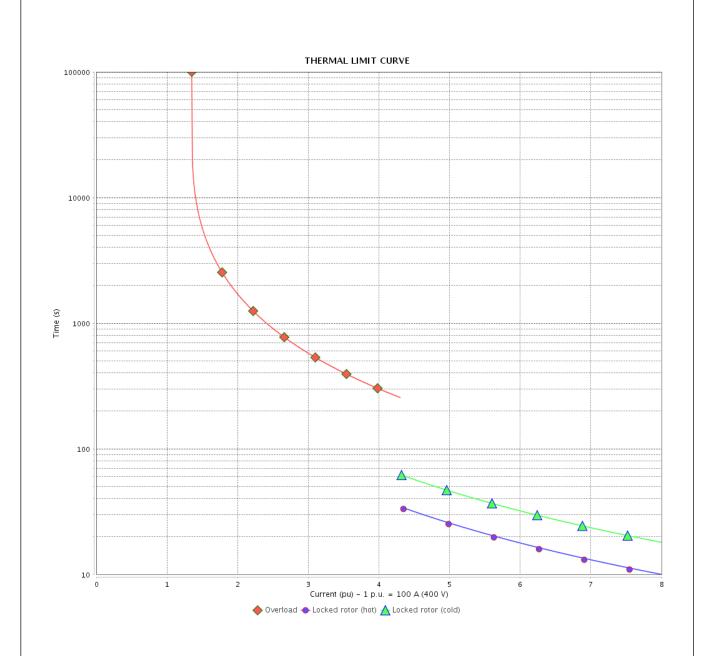


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Product line		N40 NEMA Premium Effici	ency I	Product code :	14272921	
			(Catalog # :	10036OT3E3	65TS-W40G
Performance		00 V 50 Hz 2P IE3				
Rated current LRC	: 10 : 8.	00 A 0	Moment of Duty cycle	f inertia (J)	: 7.20 sq.ft.lb : Cont.(S1)	
Rated torque	: 13	33 ft.lb	Insulation	class	: F	
Locked rotor torqu		40 %	Service fa		: 1.00	
Breakdown torque Rated speed		30 % 964 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant						
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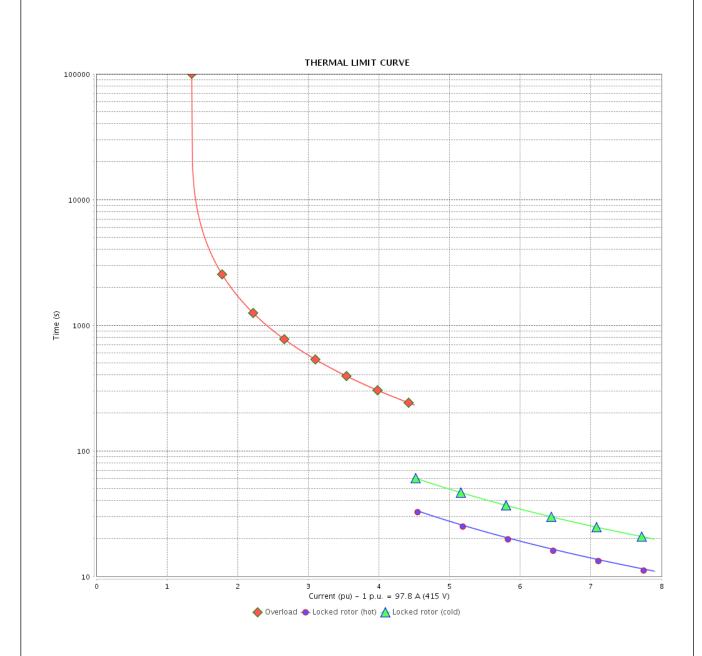


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Product line	: \ TI	W40 NEMA Premium Efficie hree-Phase		Product code :	14272921	05T0 W/20
			(Catalog # :	10036OT3E3	65TS-W40G
Performance	· A·	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 97 : 7. : 13 ue : 29 e : 32	7.8 A	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		•	- 5			
Heating constant Cooling constant						
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Product line : W40 NEMA Premium Efficiency

Three-Phase

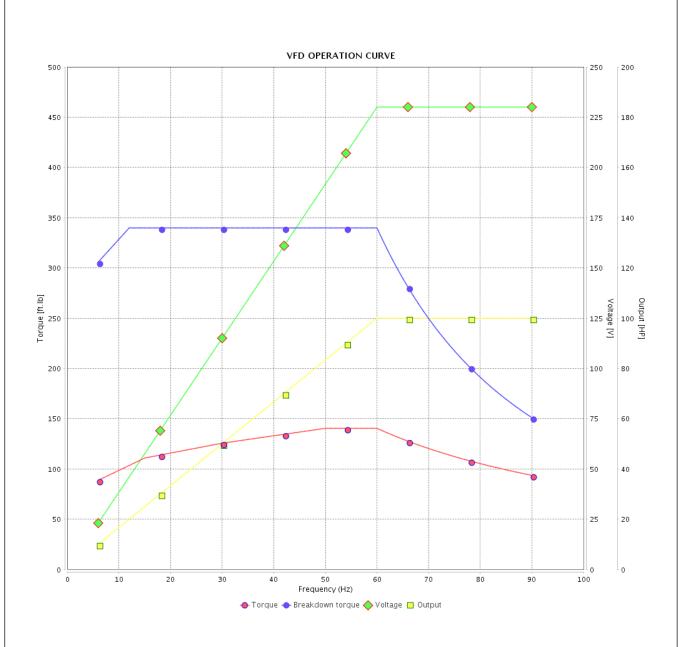
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Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 1 que : 1 ue : 2	32/116 A .6 48 ft.lb 80 % 29 % 555 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.20 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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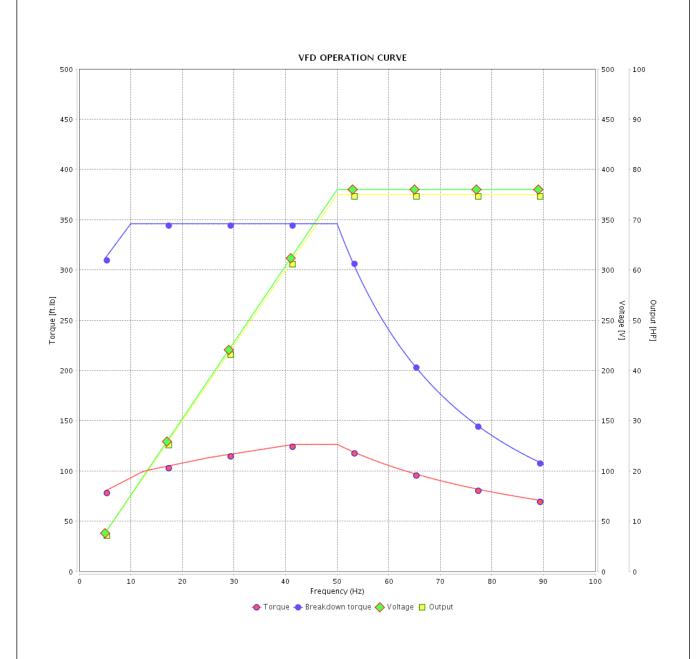
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 14272921

Catalog #: 10036OT3E365TS-W40G

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 103 A : 7.5 : 133 ft.lb : 220 % : 260 % : 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three-Phase

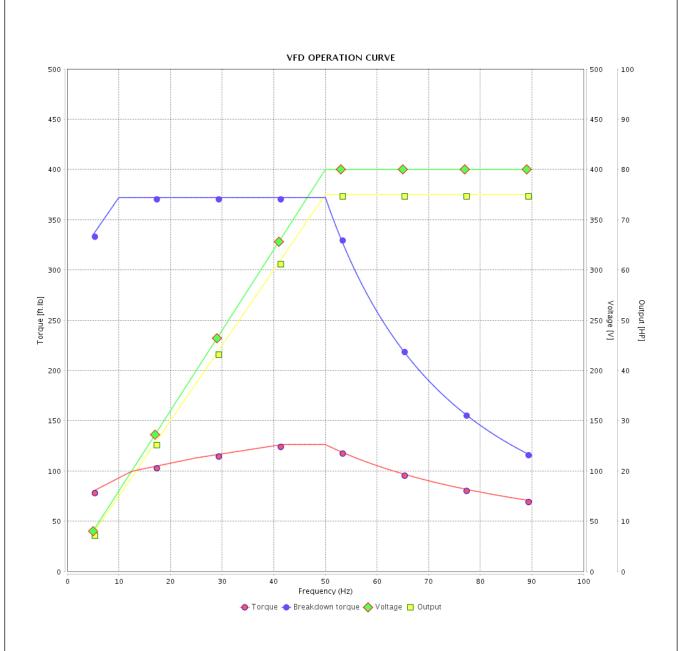
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Performance		: 400 V 50 Hz	2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 100 A : 8.0 : 133 ft.lb : 240 % : 280 % : 2964 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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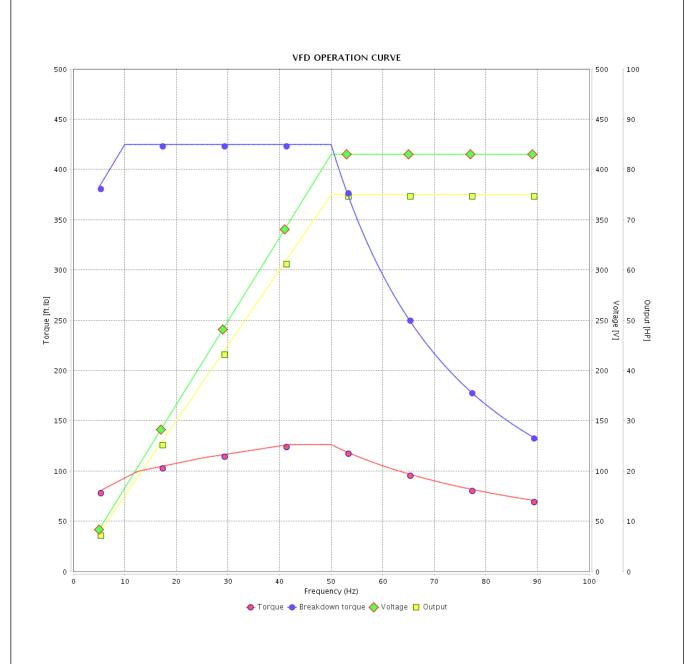


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272921

Three-Phase

Catalog #: 10036OT3E365TS-W40G



Performance	: 4	115 V 50 Hz 2P IE3				
Rated current	: 9	7.8 A	Moment o	f inertia (J)	: 7.20 sq.ft.lb	
LRC	: 7	7 .9	Duty cycle	}	: Cont.(S1)	
Rated torque	:1	133 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	320 %	Temperature rise		: 80 K	
Rated speed	: 2	2967 rpm	Design		: B	
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