DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14270942

Three-Phase

Catalog #: 07518OT3E365TS-W40

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 767 lb Protection degree : IP23 Moment of inertia (J) : 16.8 sq.ft.lb

Design		. II 23	: B		
Design		. B			
Output [HP]		75	60	60	60
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		171/85.5	84.4	82.1	80.1
L. R. Amperes [A]		1163/581	599	591	609
LRC [A]		6.8x(Code G)	7.1x(Code H)	7.2x(Code H)	7.6x(Code J)
No load current [A]	61.0/30.5	28.5	33.7	36.1
Rated speed [RPM]		1780	1480	1482	1484
Slip [%]		1.11	1.33	1.20	1.07
Rated torque [ft.lb]		221	213	213	212
Locked rotor torque [%]		220	200	229	250
Breakdown torque [%]		260	240	260	280
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)
Noise level ²		69.0 dB(A)			
	25%	94.4	93.7	93.7	93.7
Efficiency (%)	50%	94.5	93.8	93.8	93.8
Elliciency (70)	75%	95.0	94.2	94.2	94.2
	100%	95.0	94.2	94.2	94.2
	25%	0.48	0.48	0.43	0.40
Power Factor	50%	0.73	0.73	0.69	0.66
I OWEI FACIOI	75%	0.82	0.82	0.80	0.77
	100%	0.85	0.86	0.84	0.83

Non drive end Foundation loads **Drive** end

Bearing type 6314 C3 6212 Z C3 Max. traction : 1654 lb Sealing Without Without Max. compression : 2421 lb

Bearing Seal Bearing Seal 20000 h Lubrication interval 20000 h

Lubricant amount 13 g 27 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 189A SF 1.15 SFA 217A

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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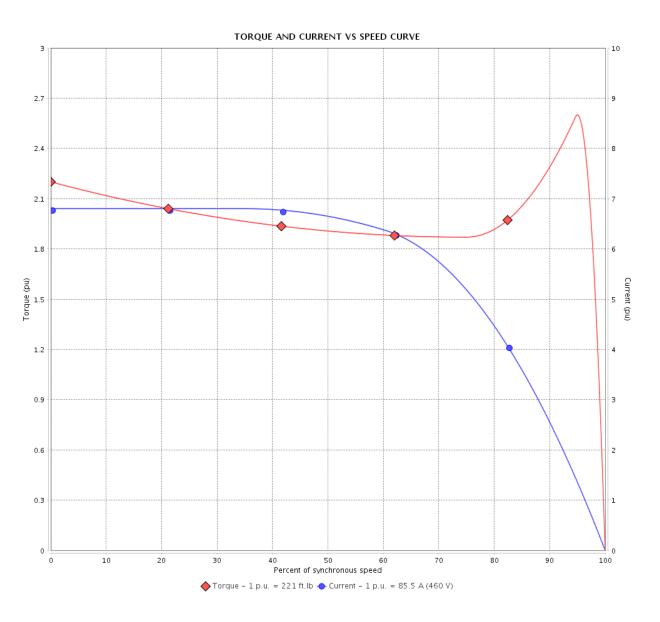
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270942

Catalog #: 07518OT3E365TS-W40



Performance : 230/460 V 60 Hz 4P Rated current : 171/85.5 A Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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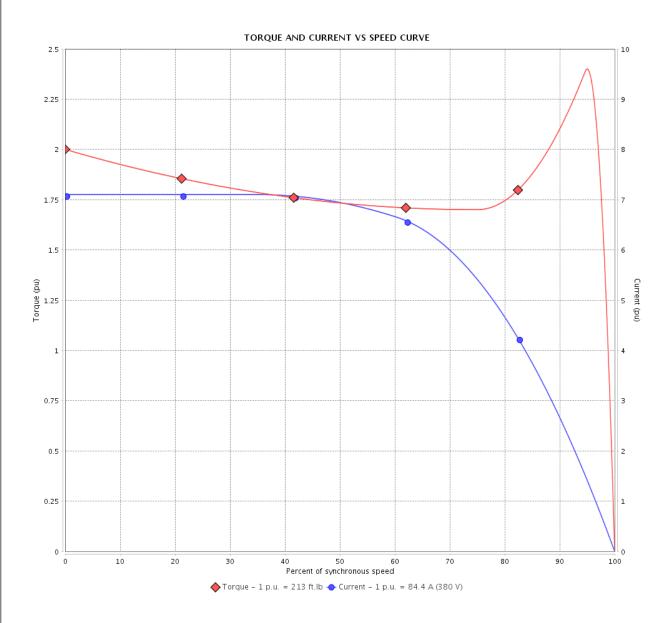


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14270942

Catalog #: 07518OT3E365TS-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 84.4 A	Moment of inertia (J)	: 16.8 sq.ft.lb	
LRC	: 7.1	Duty cycle	: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 23s (cold) 13s (hot)			

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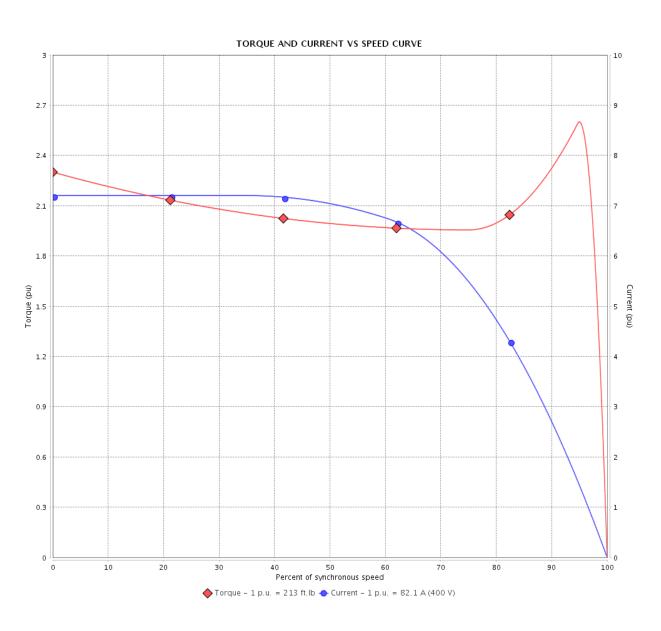
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270942

Catalog #: 07518OT3E365TS-W40



: 400 V 50 Hz 4P IE3 Performance Rated current : 82.1 A Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B

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

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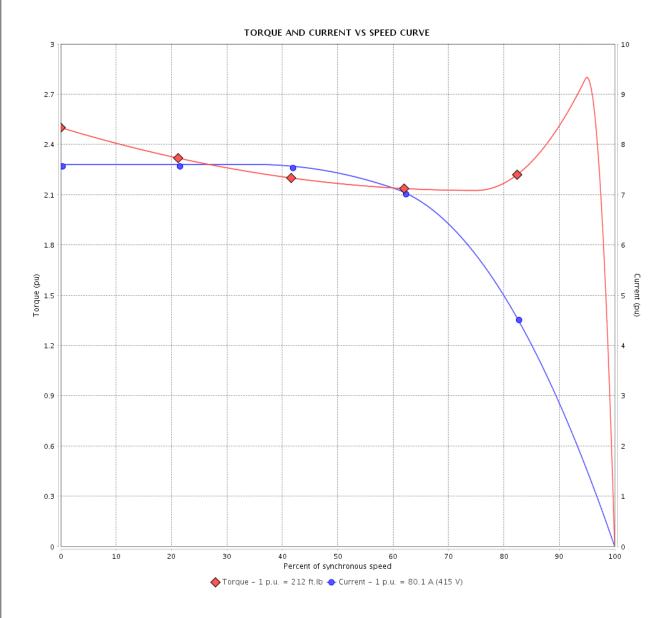
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code : 14270942

Catalog #: 07518OT3E365TS-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 80.1 A Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 212 ft.lb : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B Locked rotor time : 23s (cold) 13s (hot)

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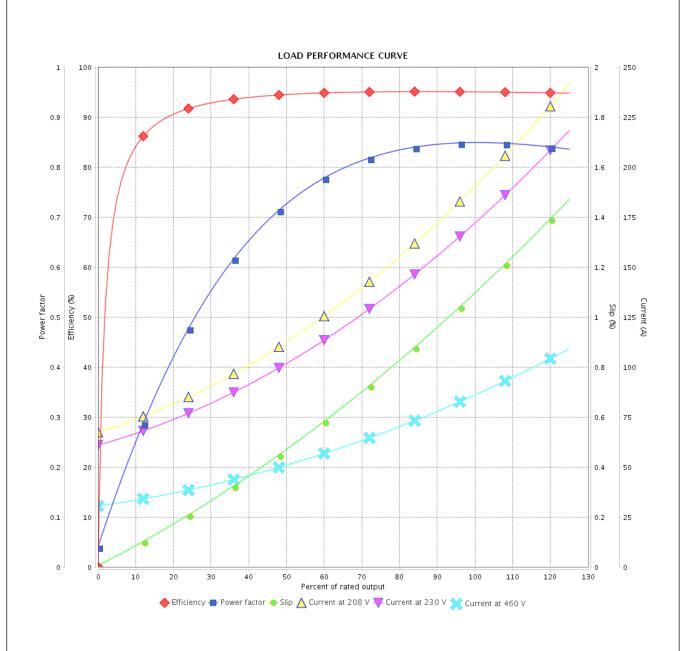
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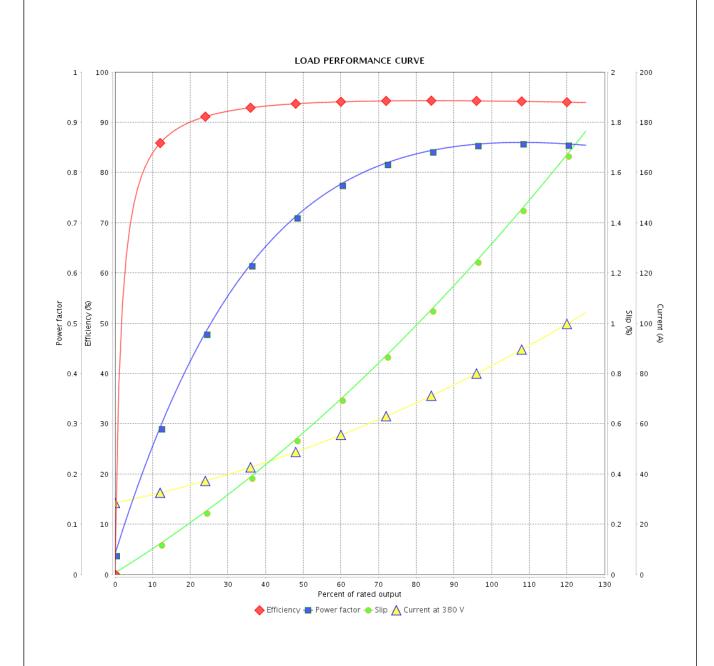
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

14270942

Catalog #: 07518OT3E365TS-W40



Performance : 380 V 50		880 V 50 Hz 4P IE3				
Rated current		34.4 A	Moment o	f inertia (J)	: 16.8 sq.ft.lb	
LRC	: 7	7 .1	Duty cycle)	: Cont.(S1)	
Rated torque :		213 ft.lb	Insulation	class	: F	
Locked rotor torque		200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperati	Temperature rise		
Rated speed	: 1	1480 rpm	Design		: B	
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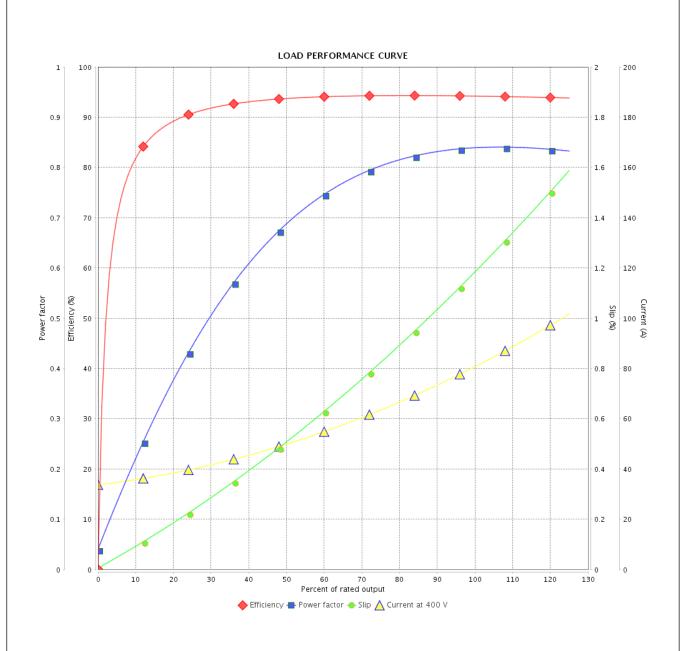
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Three-Phase

Product code: 14270942

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Performance	: 400 V 50 Hz 4P IE3				
renormance	. 400 V 50 HZ 4F IES				
Rated current	: 82.1 A	Moment of inertia	(J)	: 16.8 sq.ft.lb	
LRC	: 7.2	Duty cycle		: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1482 rpm	Design		: B	
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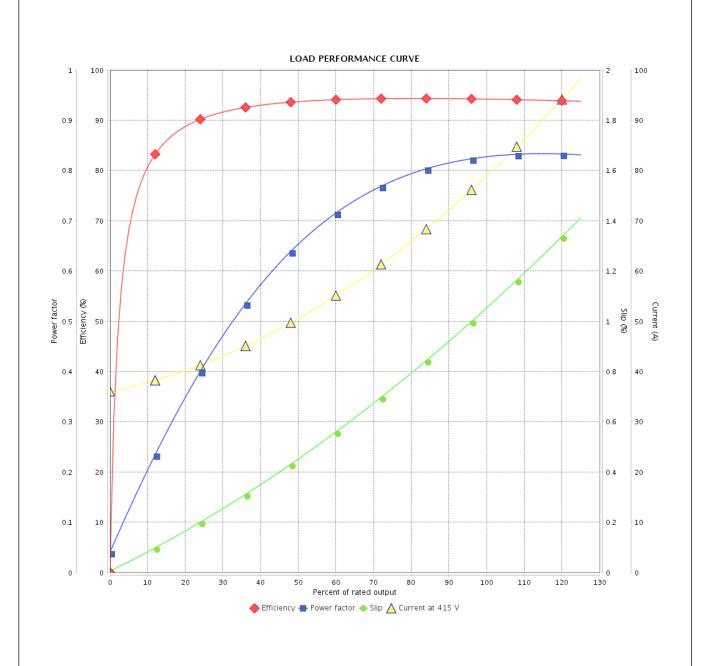
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270942

Catalog #: 07518OT3E365TS-W40



Performance	: 4	415 V 50 Hz 4P IE3				
Rated current		30.1 A	Moment o	f inertia (J)	: 16.8 sq.ft.lb	
LRC	: 7	7.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	212 ft.lb	Insulation	class	: F	
Locked rotor torque		250 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 2	280 %	Temperati	Temperature rise		
Rated speed	: '	1484 rpm	Design		: B	
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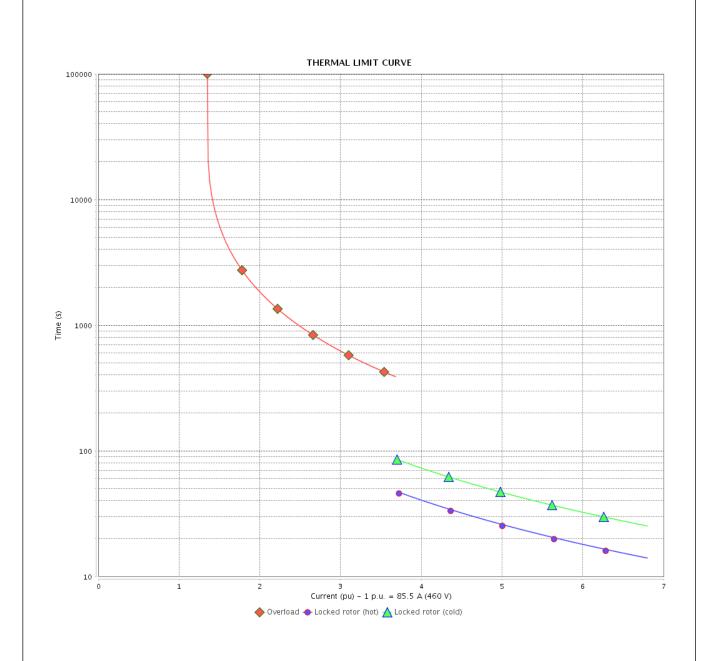


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Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 17 : 6. : 22 que : 22 ue : 26 : 17	30/460 V 60 Hz 4P 71/85.5 A 8 21 ft.lb 20 % 60 % 780 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 16.8 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	<u> </u>	Changes Summary		Performed	Checked	Date
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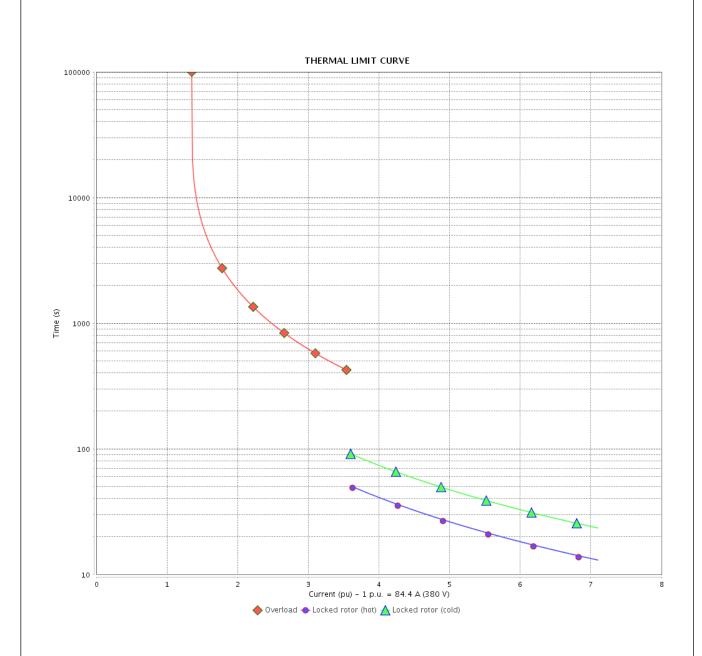


Customer	:				
Product line	: W40 NEMA Premium Efficion Three-Phase		Product code :	14270942	35TQ W/40
			Catalog # :	07518OT3E36	551S-VV4U
Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 84.4 A : 7.1 : 213 ft.lb : 200 % : 240 % : 1480 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 16.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					
Cooling constant					
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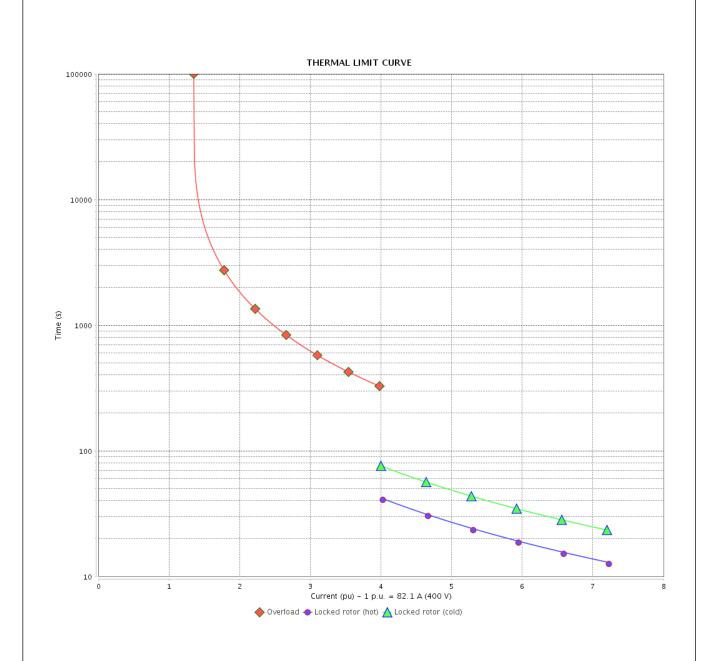


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Product line	: W40 NEMA Premium Efficie Three-Phase		14270942	SETO MAG
		Catalog # :	07518OT3E36	65TS-W40
Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC		Moment of inertia (J)	: 16.8 sq.ft.lb	
Rated torque		Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque		Service factor	: 1.00	
Breakdown torque		Temperature rise	: 80 K	
Rated speed		Design	: B	
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Cooling constant	Charter Court	D-Z I	Ohl !	D-1-
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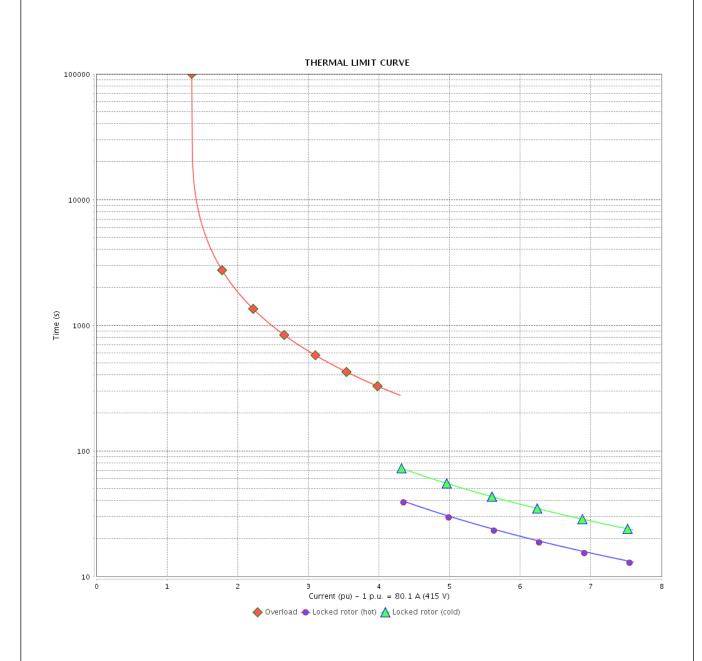


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Customer					
Product line	: W40 NEMA Premium Efficie Three-Phase		Product code :	14270942	
			Catalog # :	07518OT3E3	65TS-W40
Performance	: 415 V 50 Hz 4P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 80.1 A : 7.6 : 212 ft.lb : 250 % : 280 % : 1484 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 16.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	,				
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Cooling constant Rev.	Changes Summers		Performed	Checked	Date
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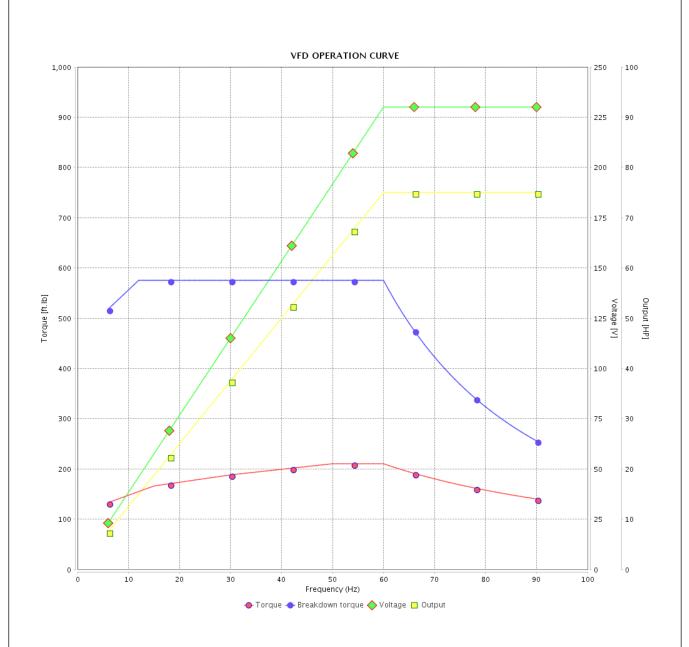
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270942

Catalog #: 07518OT3E365TS-W40



Performance : 230/460 V 60 Hz 4P : 171/85.5 A Rated current Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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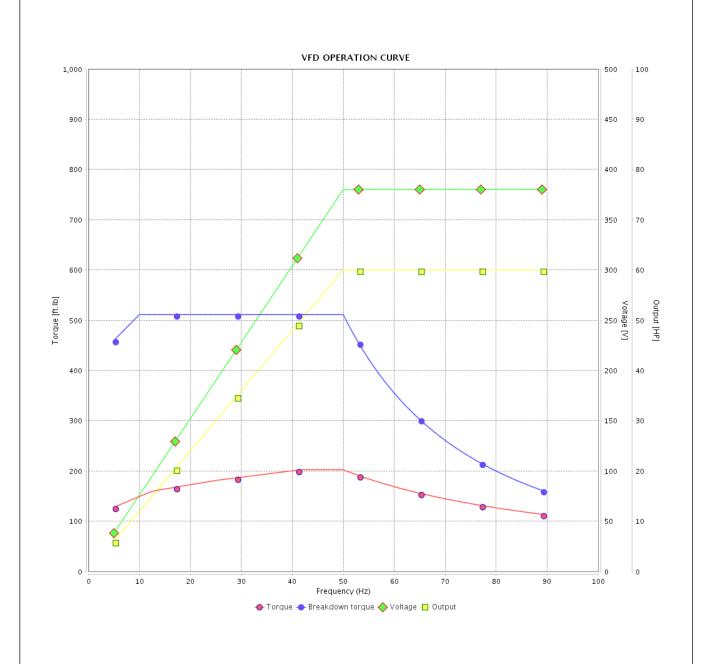
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270942

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 84.4 A	Moment of inertia (J)		: 16.8 sq.ft.lb	
LRC	: 7.1	Duty cycle		: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation clas	s	: F	
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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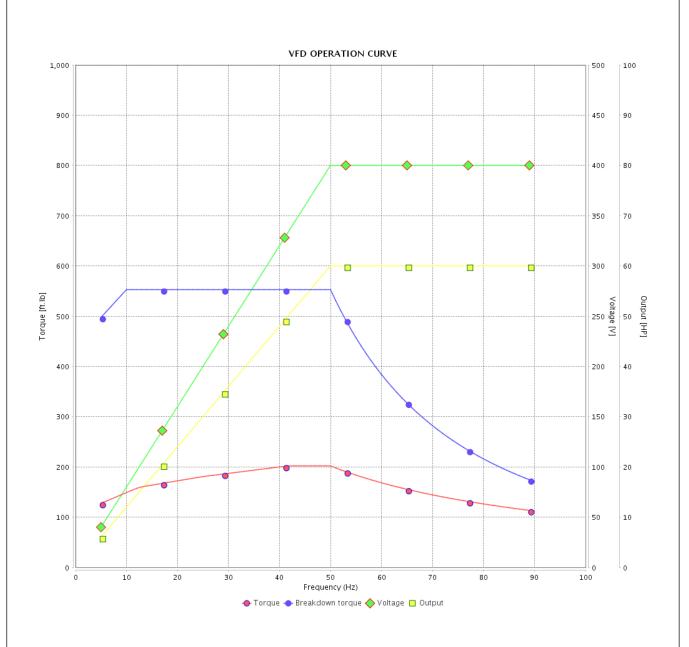
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270942

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Performance	: 400 V 50 Hz 4P IE3				
renormance	. 400 V 50 HZ 4F IES				
Rated current	: 82.1 A	Moment of inertia (J)		: 16.8 sq.ft.lb	
LRC	: 7.2	Duty cycle		: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1482 rpm	Design		: B	
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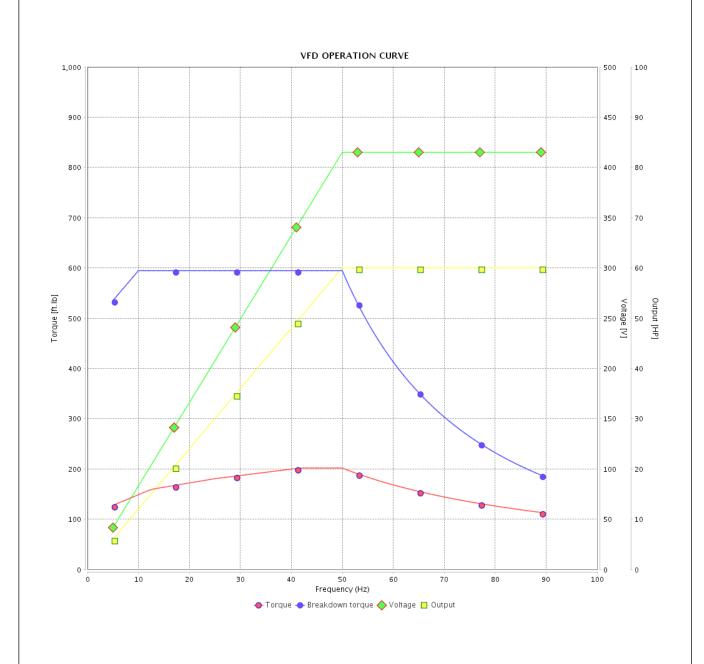
Customer

Product line : W40 NEMA Premium Efficiency Pro

Three-Phase

Product code: 14270942

Catalog #: 07518OT3E365TS-W40



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	80.1 A	Moment of inertia (J)		: 16.8 sq.ft.lb	
LRC	:	7.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	212 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	250 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 280 % Temperature rise		: 80 K			
Rated speed	:	1484 rpm	Design		: B	
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