DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 07518OT3E365TC-W40

14272518

Frame : 364/5TC 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 : 798 lb Altitude

: IP23 Protection degree Moment of inertia (J) : 16.8 sq.ft.lb

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 [RPN	/ 1]	1780	1480	1482	1484
Slip [%]		1.11	1.33	1.20	1.07
Rated torque [ft.lb]	Rated torque [ft.lb]		213	213	212
	Locked rotor torque [%]		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
Linciency (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
1 OWELL ACTOR	75%	0.82	0.82	0.80	0.77
	100%	0.85	0.86	0.84	0.83

Drive end Non drive end Foundation loads

6314 C3 Bearing type 6212 Z C3 Max. traction : 1638 lb Without Sealing Without Max. compression : 2436 lb

Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval Lubricant amount 13 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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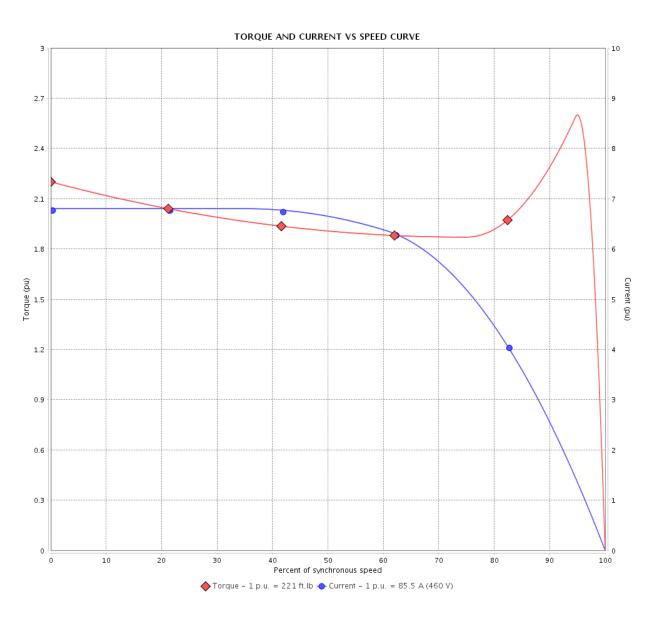
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272518

Catalog #: 07518OT3E365TC-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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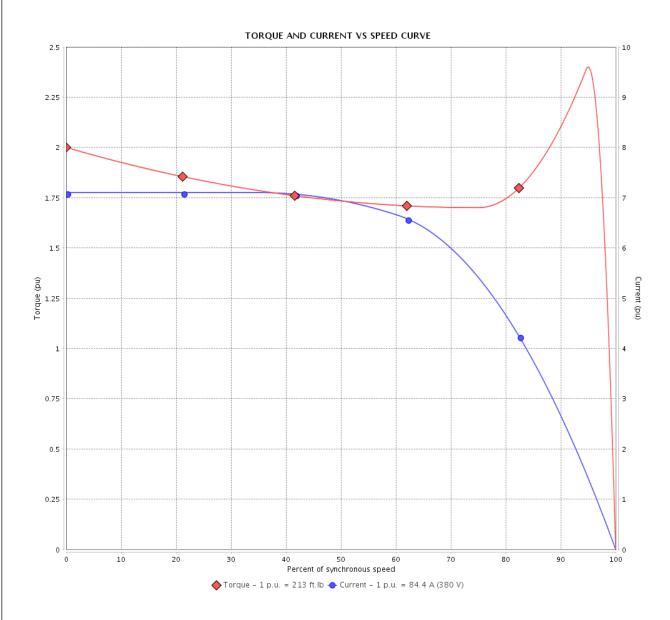


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14272518

Catalog #: 07518OT3E365TC-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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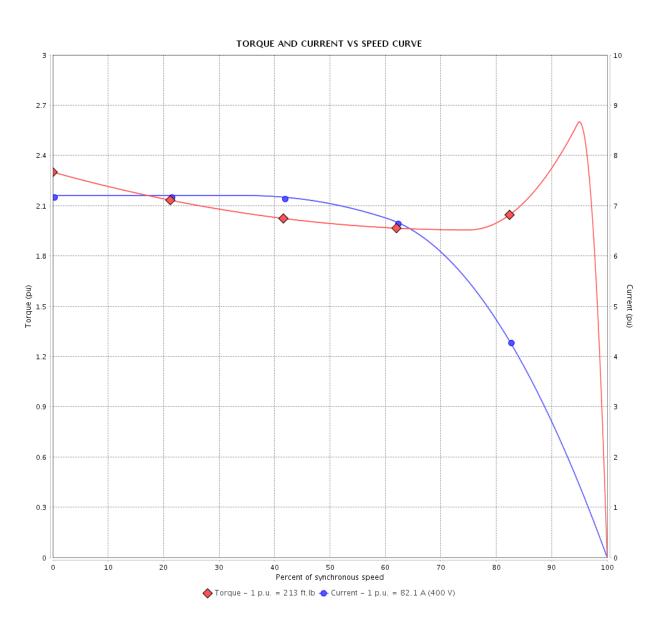
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272518

Catalog #: 07518OT3E365TC-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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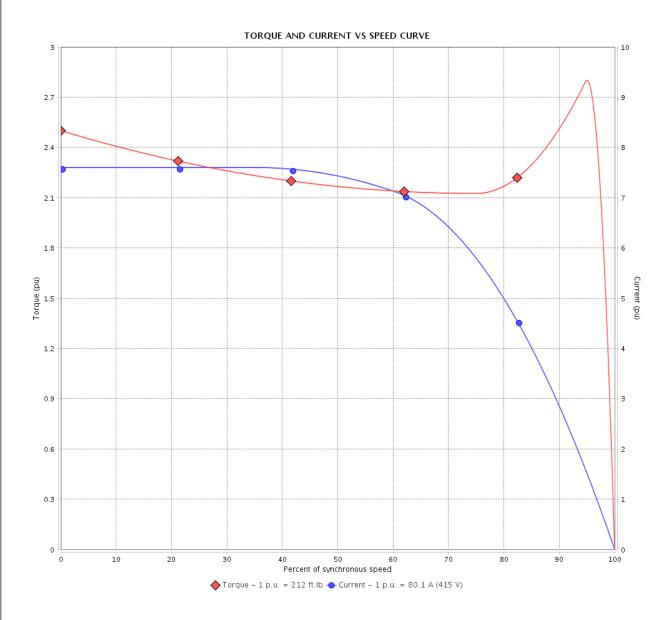
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272518

Catalog #: 07518OT3E365TC-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	: 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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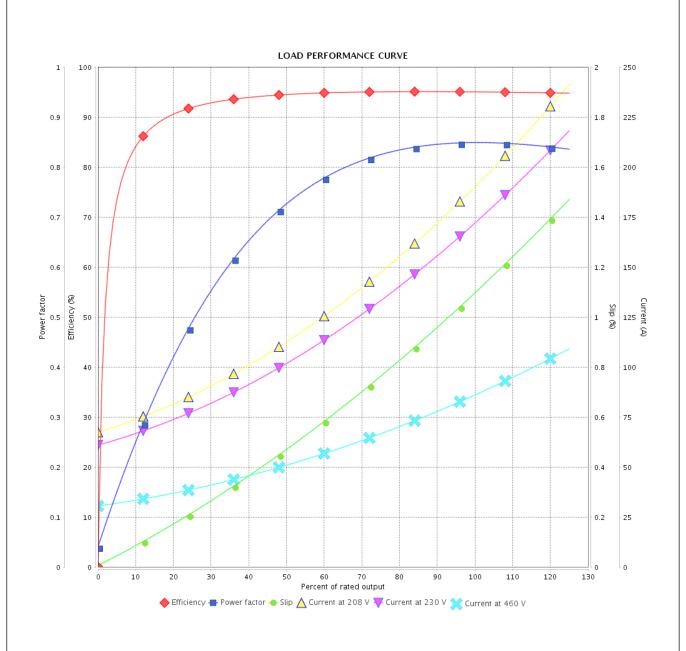
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272518

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 171/85.5 A : 6.8 : 221 ft.lb : 220 % : 260 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 16.8 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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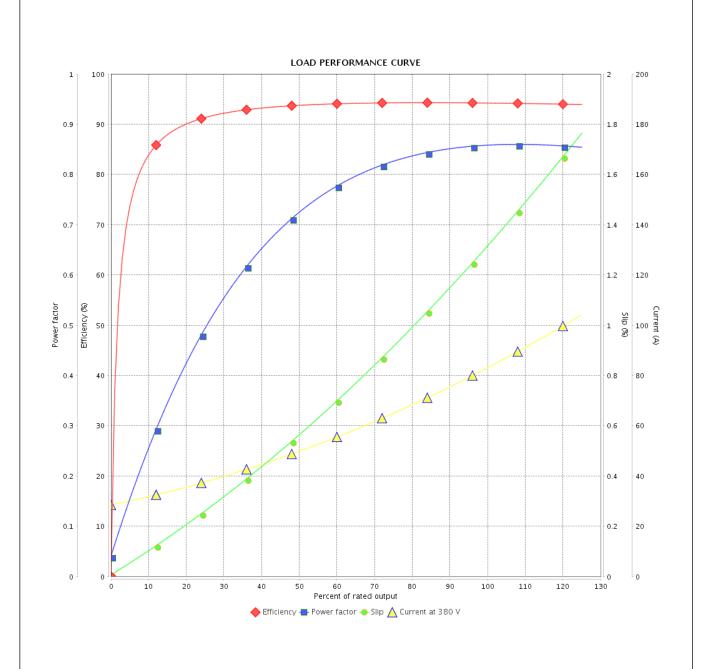
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Product line : W40 NEMA Premium Efficiency Product

Three-Phase

Product code: 14272518

Catalog #: 07518OT3E365TC-W40



Performance	: :	380 V 50 Hz 4P IE3				
Rated current	ted current : 84.4 A Moment of inertia (J		f inertia (J)	: 16.8 sq.ft.lb		
LRC	: 7	7.1	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 2	213 ft.lb	Insulation		: F ` ´	
Locked rotor torqu	e : 2	200 %	Service fa	ctor	: 1.00	
Breakdown torque	: : : : : :	: 240 % Temperature rise		ıre rise	: 80 K	
Rated speed	: '	1480 rpm	Design		: B	
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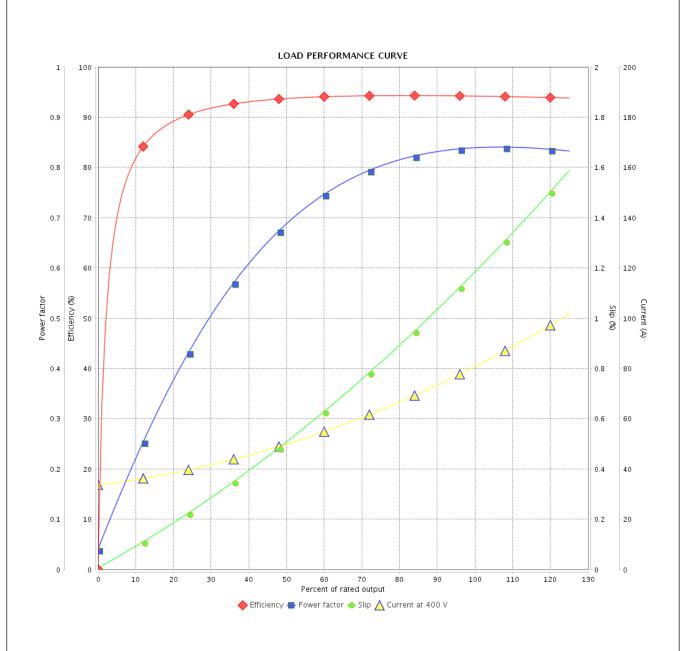
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Three-Phase

Product code: 14272518

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Performance	: 400 V 50 Hz 4P IE3				
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 fa	ictor	: 1.00	
Breakdown torque	: 260 %	1000,000		: 80 K	
Rated speed	: 1482 rpm			Design	
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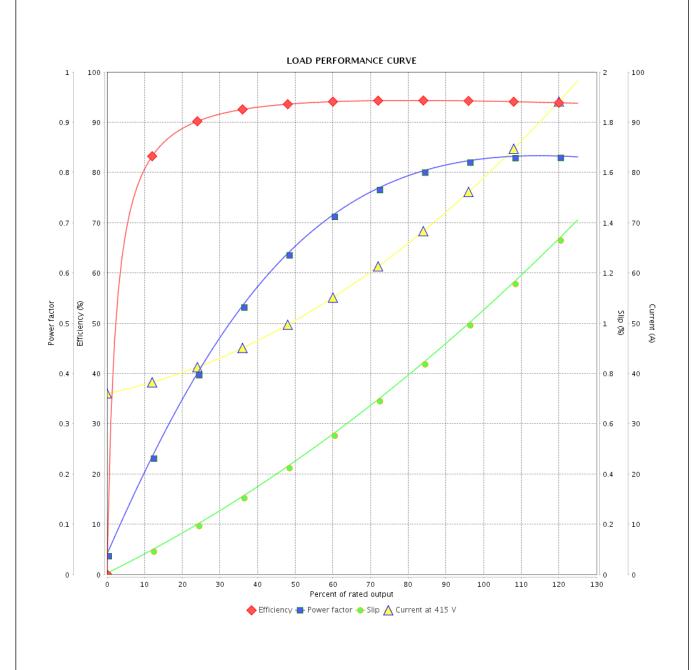


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272518

Three-Phase

Catalog #: 07518OT3E365TC-W40



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	80.1 A	Moment o	f 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			ure rise	: 80 K		
Rated speed	:	1484 rpm	Design		: B	
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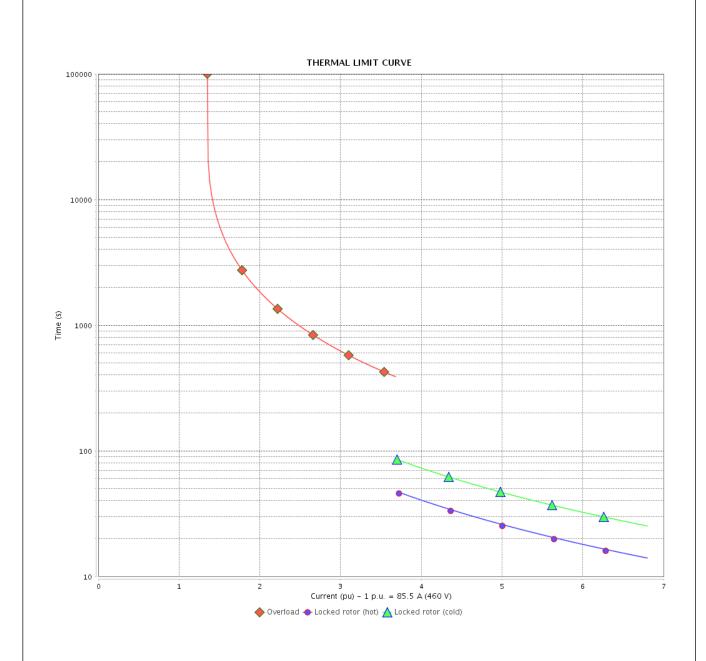


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Product line		N40 NEMA Premium Effici	ency I	Product code :	14272518	
	TI	nree-Phase	(Catalog # :	07518OT3E36	65TC-W40
Performance	: 23	30/460 V 60 Hz 4P	,			
Rated current	: 17	71/85.5 A	Moment of	f inertia (J)	: 16.8 sq.ft.lb	
LRC	: 6.	8 21 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Rated torque Locked rotor torqu		21 π.ib 20 %	Service fa		: F : 1.25	
Breakdown torque	e : 26	60 %	Temperatu		: 80 K	
Rated speed	: 17	780 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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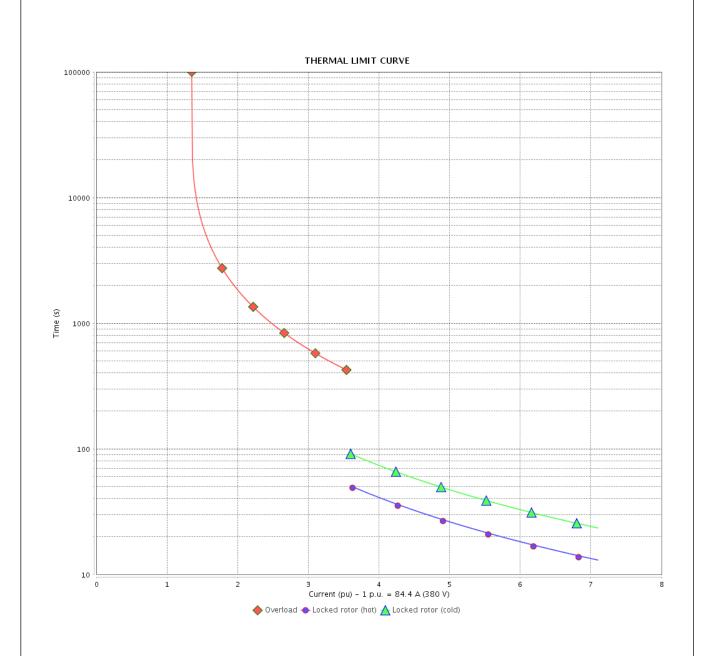


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Product line		N40 NEMA Premium Efficio	ency I	Product code :	14272518	
	Tł	nree-Phase	(Catalog # :	07518OT3E3	65TC-W40
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Performance Rated current		30 V 50 Hz 4P IE3 4.4 A	Moment or	Finartia (I)	: 16.8 sq.ft.lb	
LRC	: 7.		Duty cycle	illerila (J)	: Cont.(S1)	
Rated torque		13 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 40 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		480 rpm	Design		: B	
Heating constant						
Cooling constant						
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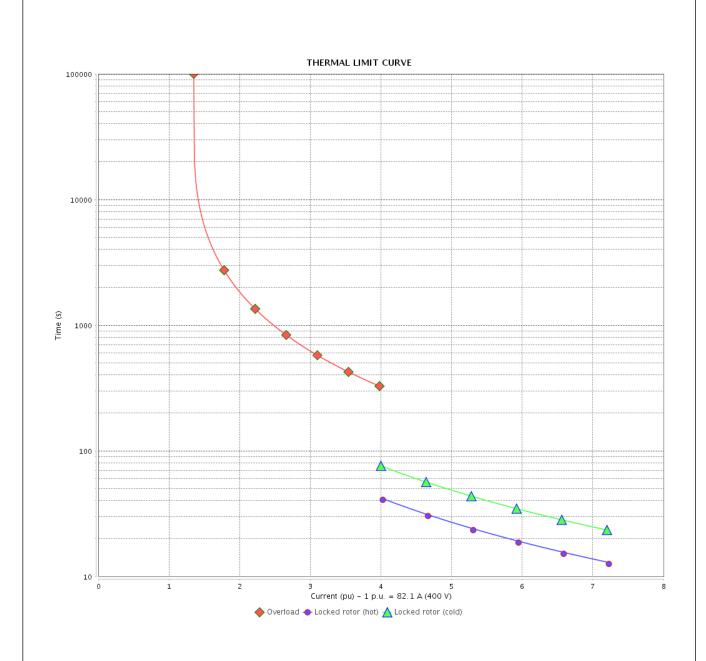


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Product line		N40 NEMA Premium Effici	ency I	Product code :	14272518	
	TI	nree-Phase	(Catalog # :	07518OT3E3	65TC-W40
					0.0.00.00	
Performance		00 V 50 Hz 4P IE3	Mamanta	finantia (I)	. 40 0 0 % # 16	
Rated current LRC	: 82	2.1 A 2	Duty cycle	f inertia (J)	: 16.8 sq.ft.lb : Cont.(S1)	
Rated torque		13 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		29 % 60 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		482 rpm	Design		: B	
Heating constant						
Cooling constant						
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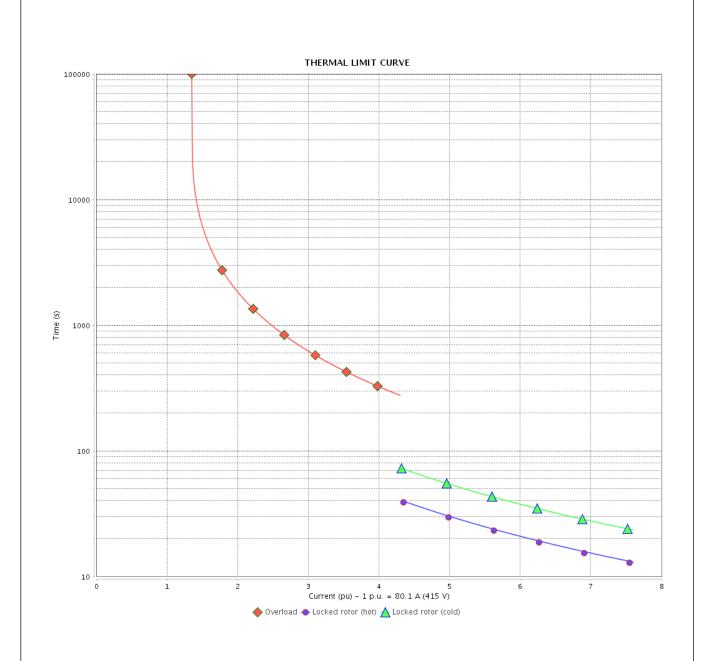


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Product line		N40 NEMA Premium Efficio	ency I	Product code :	14272518	
	Tł	nree-Phase	(Catalog # :	07518OT3E3	65TC-W40
Performance		15 V 50 Hz 4P IE3	Mamanta	Finantia (I)	. 40 0 0 % # 16	
Rated current LRC	: 80 : 7.	0.1 A 6	Duty cycle	f inertia (J)	: 16.8 sq.ft.lb : Cont.(S1)	
Rated torque		12 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		50 % 30 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		184 rpm	Design		: B	
Heating constant						
Cooling constant						
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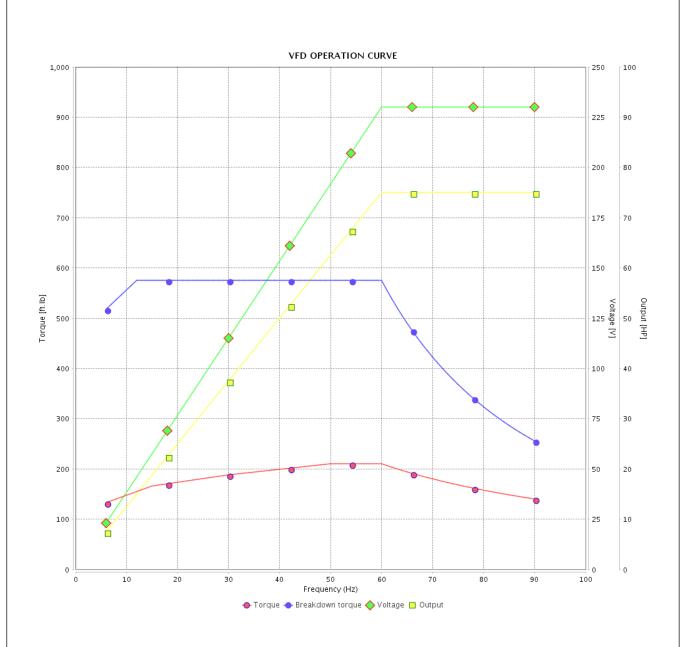
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272518

Catalog #: 07518OT3E365TC-W40

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Performance	: 230/4	460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		ft.lb % %	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 16.8 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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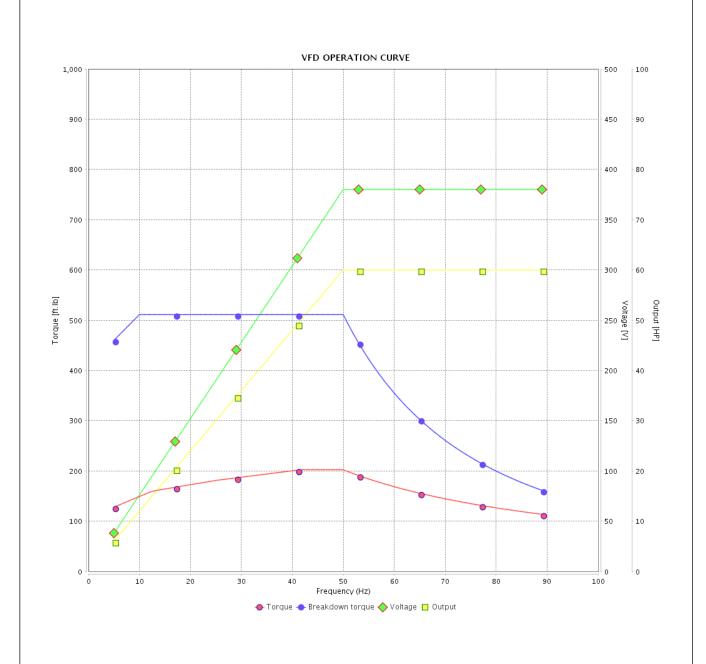
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272518

Catalog #: 07518OT3E365TC-W40

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 84.4 A	Moment of ine	rtia (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	ctor : 1.00		
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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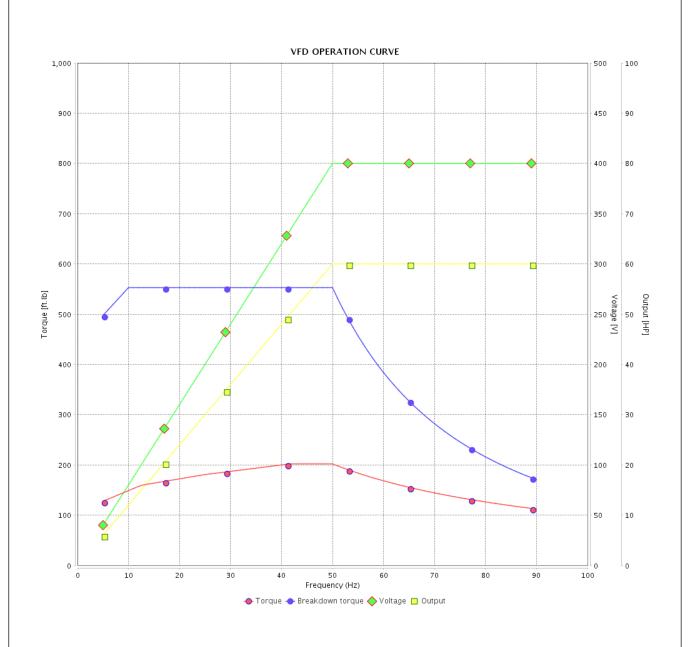
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272518

Catalog #: 07518OT3E365TC-W40

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Performance	: 400 V 50 Hz 4P IE3				
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 fac	ctor	: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1482 rpm	Design		: B	
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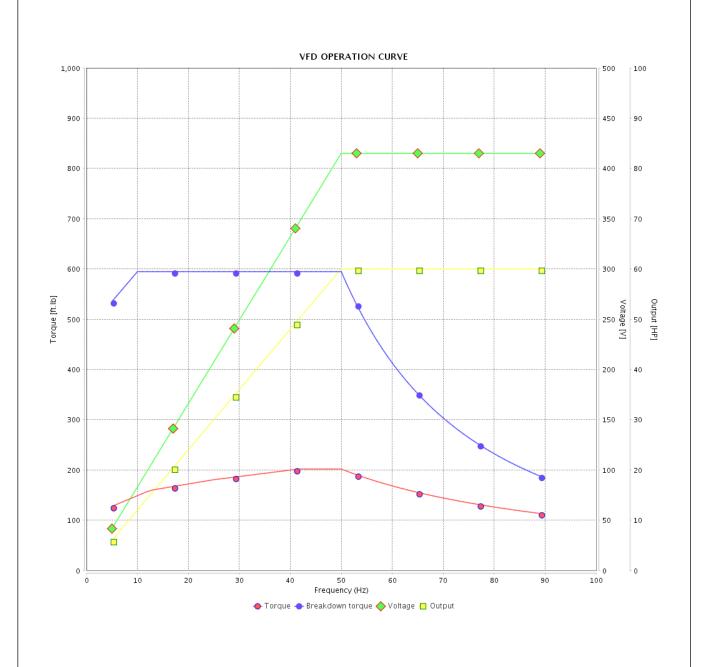
Customer

Product line : W40 NEMA Premium Efficiency Product

Three-Phase

Product code: 14272518

Catalog #: 07518OT3E365TC-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 80	: 80.1 A		Moment of inertia (J)		
LRC	: 7.	.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	12 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 28	80 %	Temperati	ure rise	: 80 K	
Rated speed	: 14	484 rpm	Design		: B	
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