DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

14010959

Three-Phase

07518OT3E365T-W40 Catalog #:

Frame : 364/5T 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 : 772 lb Protection degree : IP23 Moment of inertia (J) : 16.8 sq.ft.lb

Trottection degree		. 11 20	Wiornerit of the	. 10.0 3q.11.10			
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)			7.6x(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]		221	213	213	212		
Locked rotor torqu	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		
Liliciency (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 OWCI I actor	75%	0.82	0.82	0.80	0.77		
	100%	0.85	0.86	0.84	0.83		
	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 : 1652 lb Sealing Without Without Max. compression : 2423 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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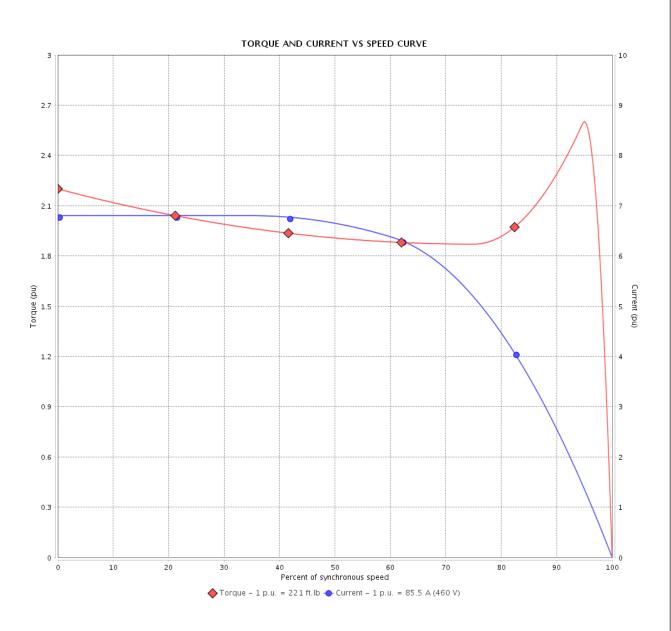
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14010959

Catalog #: 07518OT3E365T-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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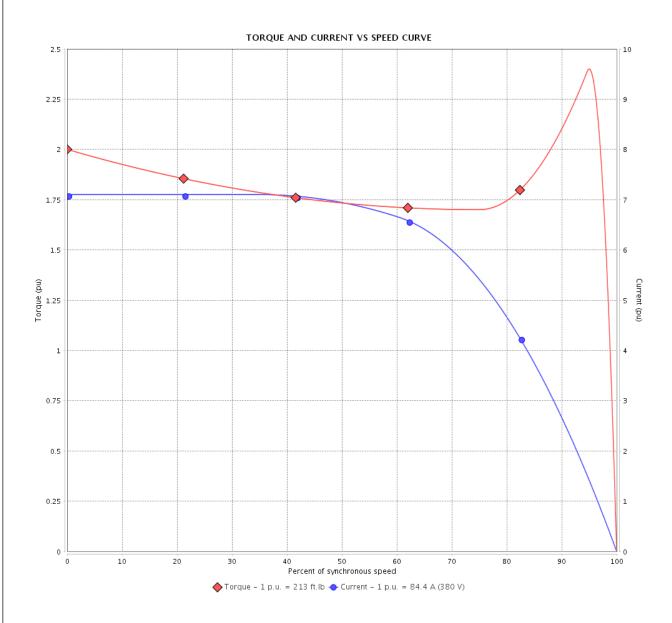
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14010959

Catalog #: 07518OT3E365T-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)			

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

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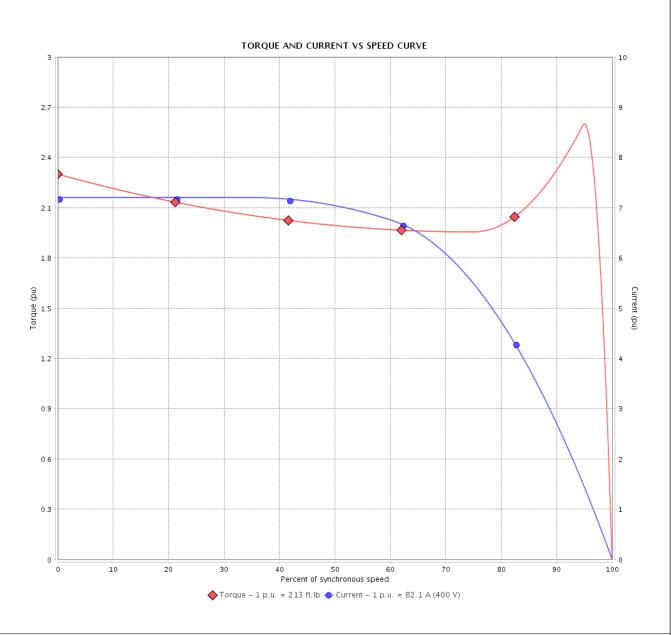
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14010959

Catalog #: 07518OT3E365T-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 Locked rotor torque : 229 % Service factor : 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 Product code: 14010959 Three-Phase Catalog #: 07518OT3E365T-W40 TORQUE AND CURRENT VS SPEED CURVE

2.7										
2.4									/	
•		•						•		
2.1						•				
1.8										
1.5										· :
								•		
1.2										
0.9										
0.6										
0.3										:
									\	
٥١	10	20	30	40	50 of synchronous	60	70	80	90	100

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 : B Rated speed : 1484 rpm Design Locked rotor time : 23s (cold) 13s (hot)

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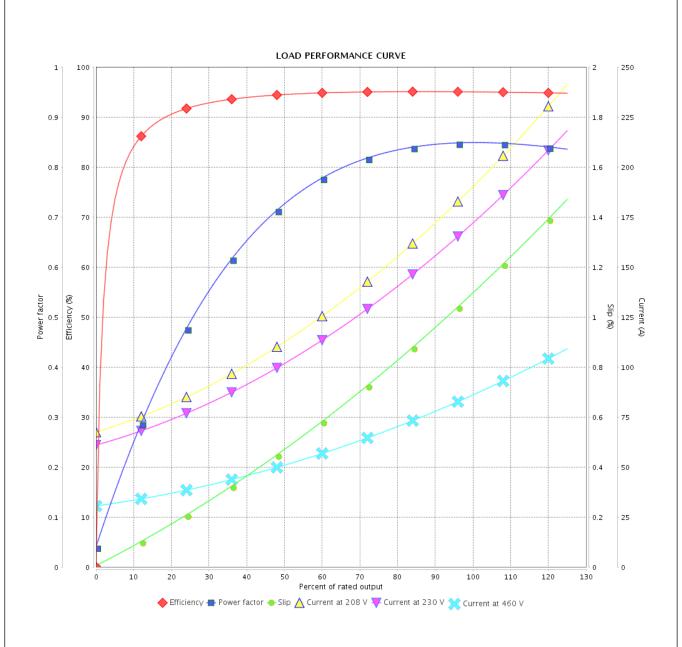
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14010959

Catalog #: 07518OT3E365T-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 Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage



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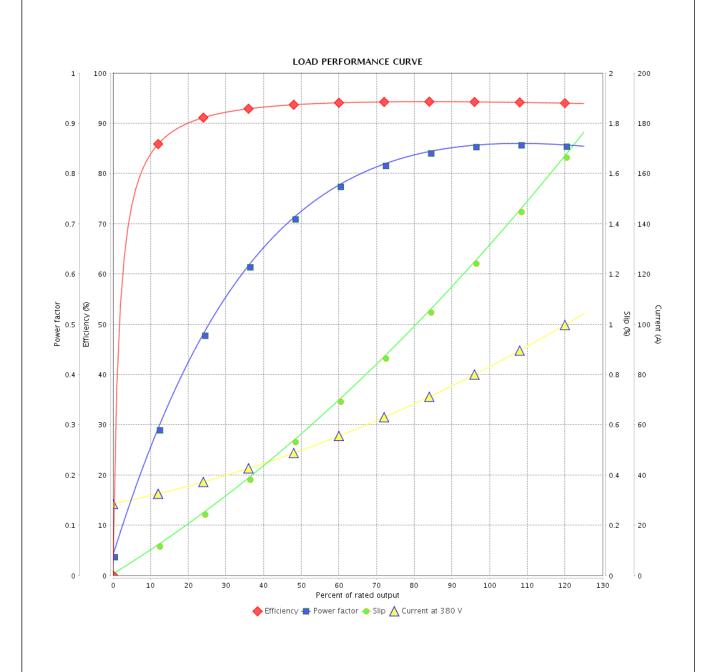
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 14010959

Catalog #: 07518OT3E365T-W40

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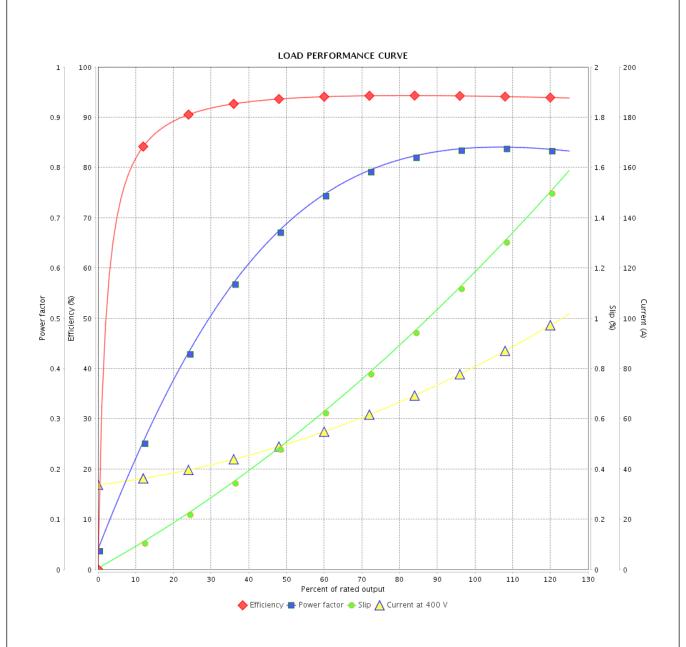
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14010959

Catalog #: 07518OT3E365T-W40



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) Insulation class Rated torque : 213 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage



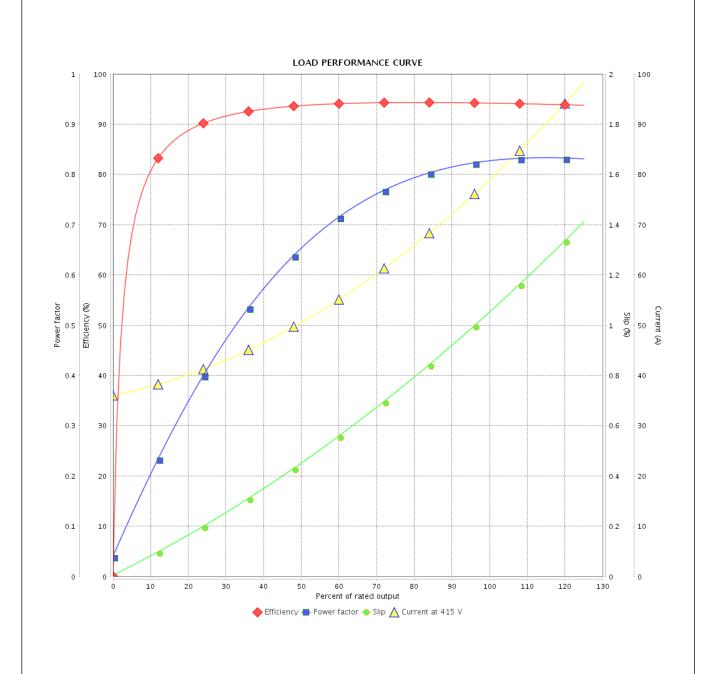
Customer

Product line : W40 NEMA Premium Efficiency Pr

Three-Phase

Product code: 14010959

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Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	Rated current : 80.1 A		Moment o	f inertia (J)	: 16.8 sq.ft.lb	
LRC	: 7.	6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	12 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque :		30 %	Temperature rise		: 80 K	
Rated speed	: 14	184 rpm	rpm Design		: B	
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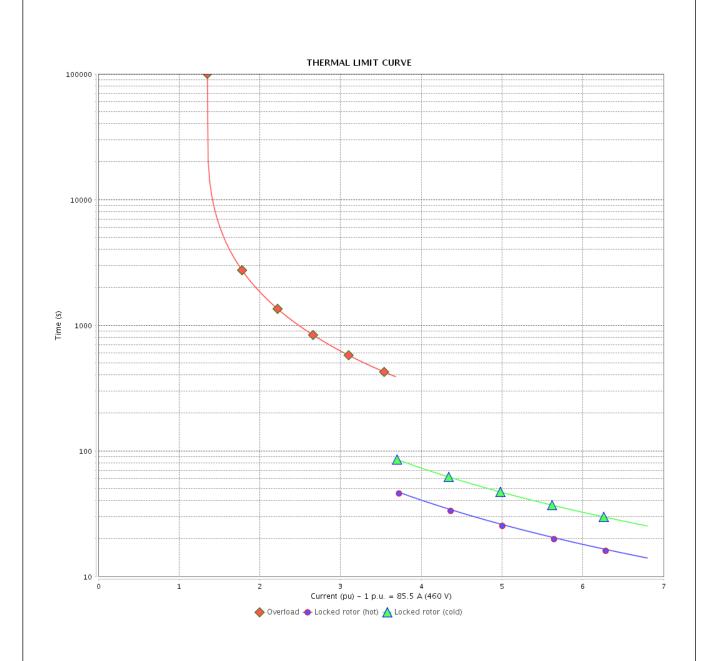


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Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14010959	
	''	iice-Filase	(Catalog # :	07518OT3E36	65T-W40
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 17 : 6.	71/85.5 A 8	Moment of Duty cycle	f inertia (J)	: 16.8 sq.ft.lb : Cont.(S1)	
Rated torque	: 22	21 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		20 % 60 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant						
Cooling constant						
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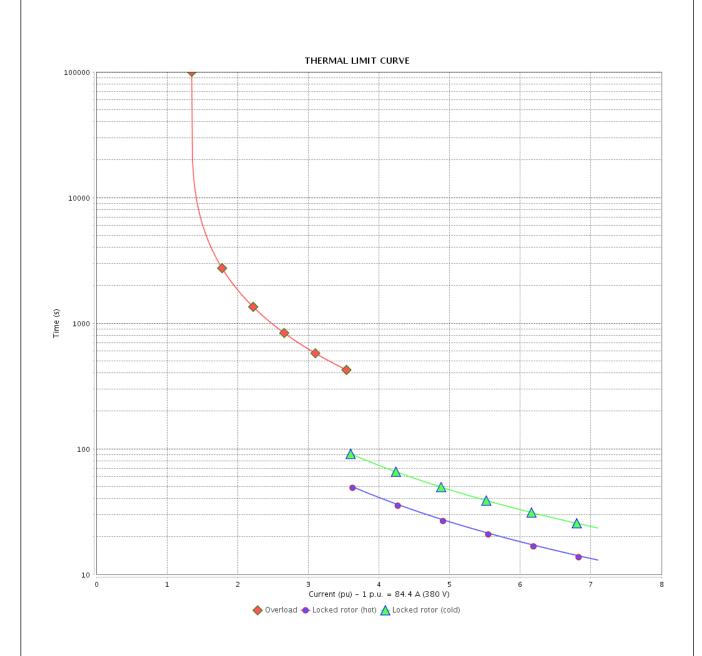


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Product line		W40 NEMA Premium Effici hree-Phase	ency	Product code :	14010959	
	''	illee-riidse		Catalog # :	07518OT3E3	65T-W40
Performance		30 V 50 Hz 4P IE3				
Rated current LRC	: 8 ⁴ : 7.	4.4 A 1	Moment of Duty cycle	f inertia (J)	: 16.8 sq.ft.lb : Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 40 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		480 rpm	Design		: B	
Heating constant						
Cooling constant		Oh avana O		Devit 1	Ob. 1	D :
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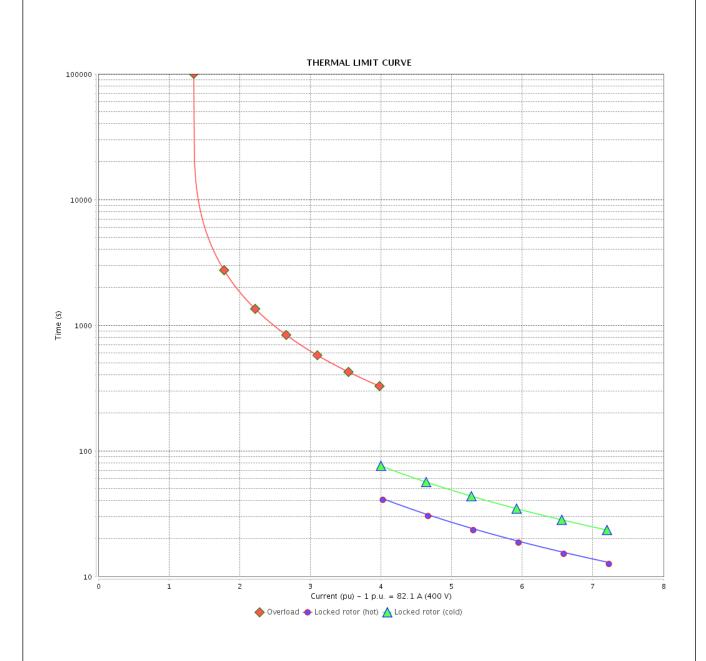


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14010959 07518OT3E36	65T-W40
Performance		400 V 50 Hz 4P IE3				
Rated current LRC Rated torque	:	82.1 A 7.2 213 ft.lb	Moment on Duty cycle Insulation		: 16.8 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que :	229 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		260 % 1482 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
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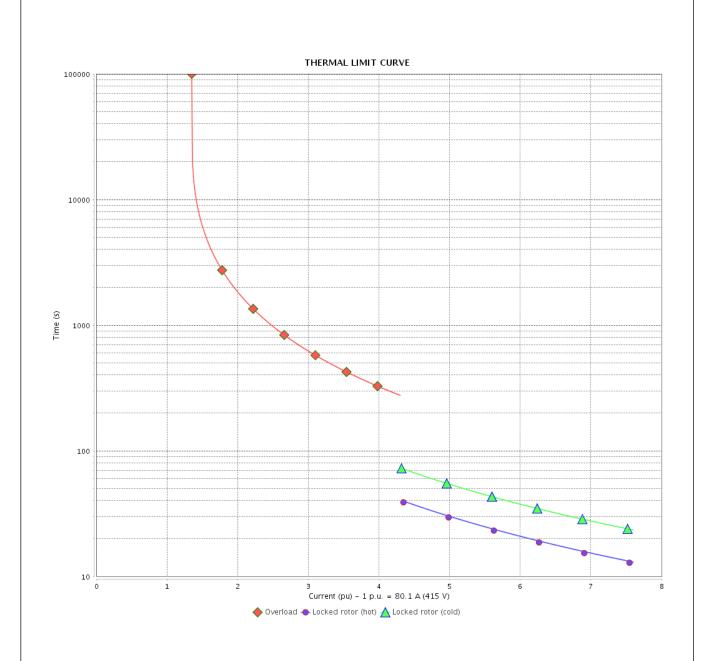


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Customer	:				
Product line	: W40 NEMA Premium Effici	ency	Product code :	14010959	
	Three-Phase		Catalog # :	07518OT3E3	65T-W40
Performance	: 415 V 50 Hz 4P IE3	_			
Rated current	: 80.1 A	Moment o	f inertia (J)	: 16.8 sq.ft.lb	
LRC	: 7.6	Duty cycle	9	: Cont.(S1)	
Rated torque	: 212 ft.lb : 250 %	Insulation Service fa		: F : 1.00	
Locked rotor torque Breakdown torque	: 250 % : 280 %	Temperati		: 1.00 : 80 K	
Rated speed	: 1484 rpm	Design		: B	
Heating constant					
Cooling constant					
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Product line : W40 NEMA Premium Efficiency

Three-Phase

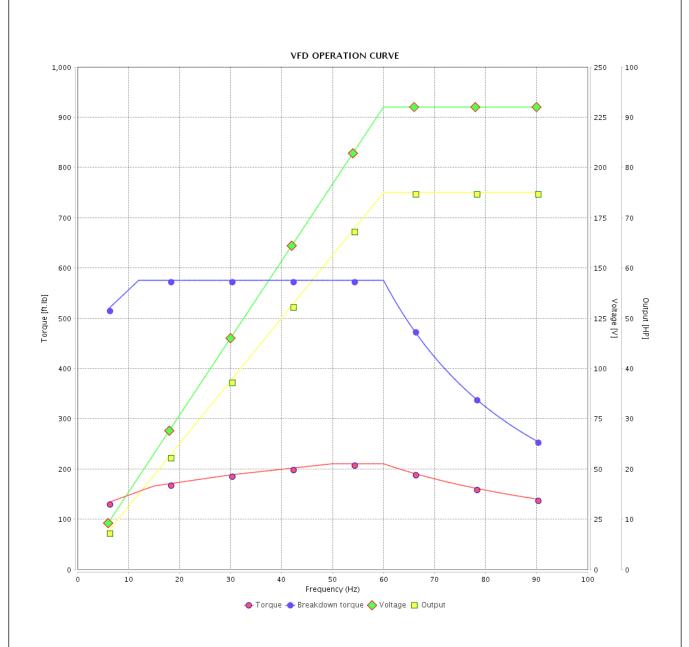
Product code: 14010959

Catalog #: 07518OT3E365T-W40

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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

Three Phase Induction Motor - Squirrel Cage



Customer

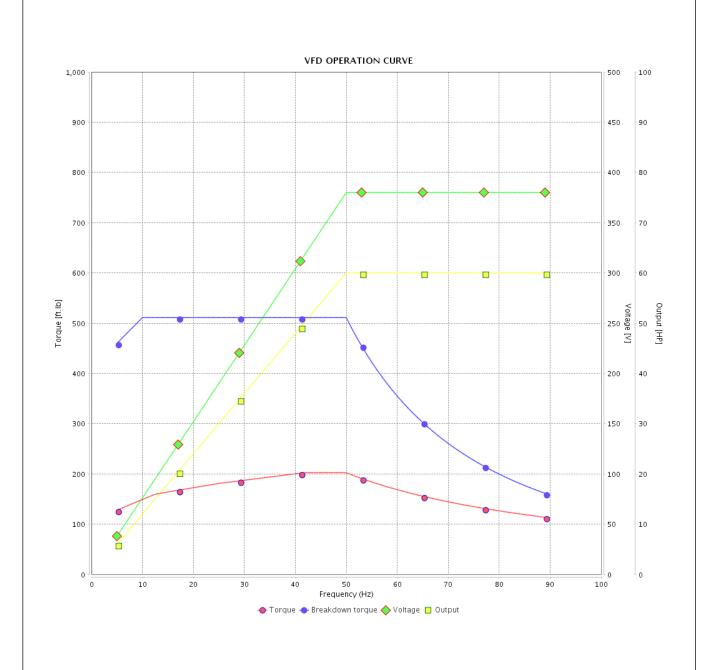
Product line : W40 NEMA Premium Efficiency

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Product code: 14010959

Catalog #: 07518OT3E365T-W40

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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 class		class : F		
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque	: 240 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



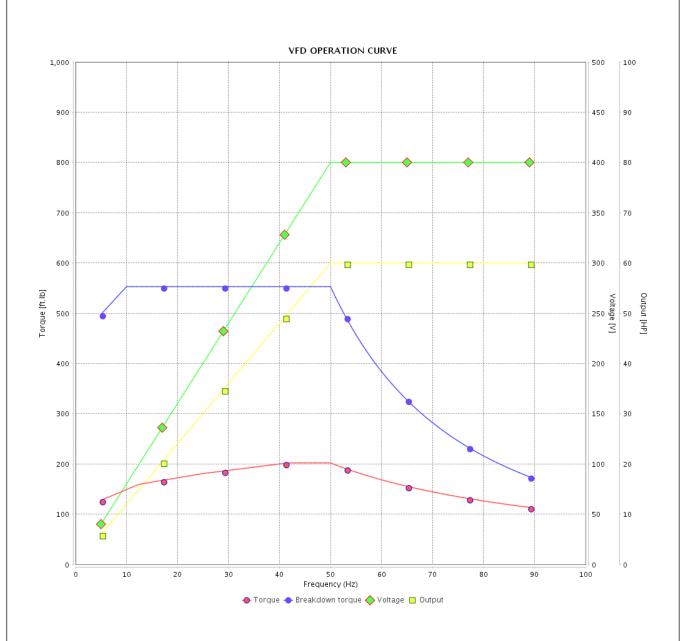
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14010959

Catalog #: 07518OT3E365T-W40



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 82.1 A : 7.2 : 213 ft.lb : 229 % : 260 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 16.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Rev.	: 1482 rpm Changes Summary	Design Performed		: B Checked	Date
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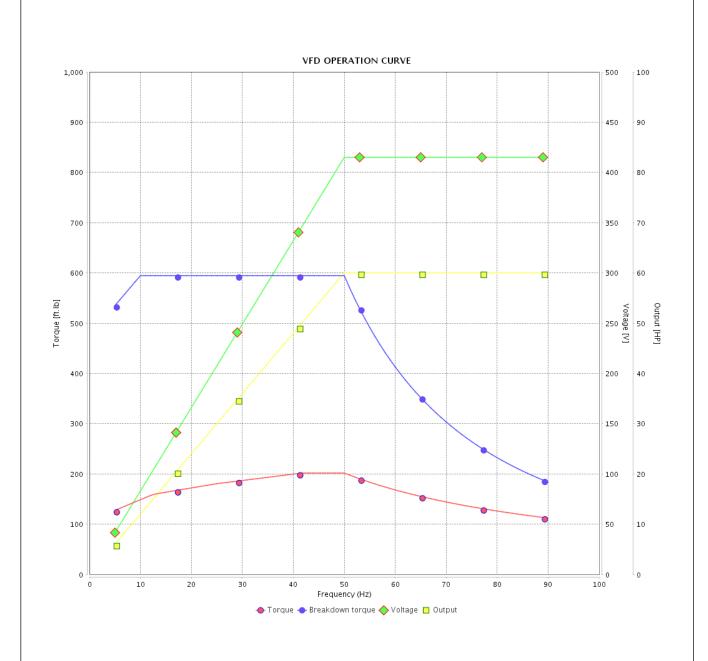
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roduct code : 14010959

Catalog #: 07518OT3E365T-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 : F Rated torque : 212 ft.lb Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

