### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Insulation class

Ambient temperature

Duty cycle

Altitude

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code:

Catalog #:

12518OT3ERB405T-W40

Frame : 404/5T

Cooling method : IC01 - ODP

Mounting : F-1

: Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

> Starting method : Direct On Line Approx. weight<sup>3</sup> : 1053 lb Moment of inertia (J)

: 1000 m.a.s.l. : IP23 Protection degree

: -20°C to +40°C

: 25.5 sq.ft.lb

14272879

Design		: B		. ,	•
Output [HP]		125	100	100	100
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		276/138	138	133	129
L. R. Amperes [A]		1904/952	994	1024	1032
LRC [A]		6.9x(Code G)	7.2x(Code H)	7.7x(Code H)	8.0x(Code J)
No load current [A	]	94.0/47.0	46.3	50.2	53.7
Rated speed [RPN	<b>/</b> []	1780	1480	1480	1480
Slip [%]		1.11	1.33	1.33	1.33
Rated torque [ft.lb]		369	355	355	355
Locked rotor torqu	Locked rotor torque [%]		240	270	290
Breakdown torque	[%]	260	260	300	320
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		18s (cold) 10s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)
Noise level <sup>2</sup>		69.0 dB(A)			
	25%	94.9	94.5	94.5	94.8
Efficiency (%)	50%	95.0	94.6	94.6	94.9
Liliciency (70)	75%	95.4	95.0	95.0	95.0
	100%	95.4	95.0	95.0	95.0
	25%		0.50	0.46	0.43
Power Factor	50%	0.75	0.76	0.72	0.69
1 OWELL ACIOI	75%	0.83	0.84	0.82	0.80
	100%	0.86	0.87	0.86	0.85

Drive end Non drive end

Bearing type NU-316 C3 6314 C3 Sealing

Without Without

Bearing Seal Bearing Seal 20000 h 20000 h

Lubrication interval Lubricant amount 27 g 34 g Mobil Polyrex EM Lubricant type

Foundation loads

Max. traction : 2879 lb Max. compression : 3931 lb

Notes

USABLE @208V 305A SF 1.15 SFA 351A

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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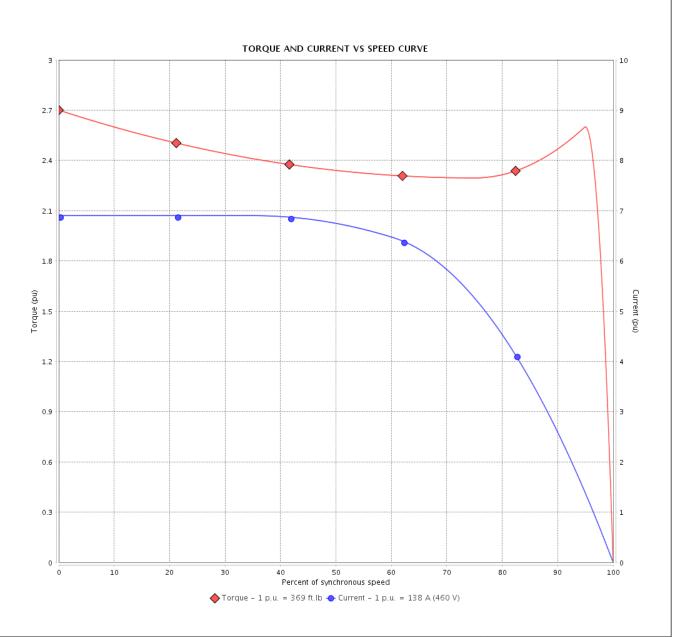


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272879

Three-Phase

Catalog #: 12518OT3ERB405T-W40



Performance	: 230/460 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 276/138 A : 6.9 : 369 ft.lb : 270 % : 260 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 25.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
Locked reter time	: 18c (cold) 10c (bot)	I	

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

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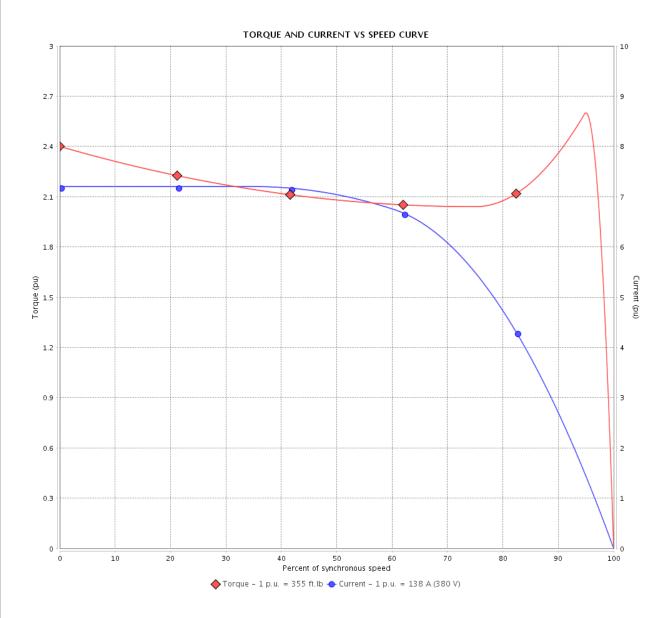


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272879

Three-Phase

Catalog #: 12518OT3ERB405T-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 138 A	Moment of inertia (J)	: 25.5 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 355 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	

Locked rotor time : 16s (cold) 9s (hot)

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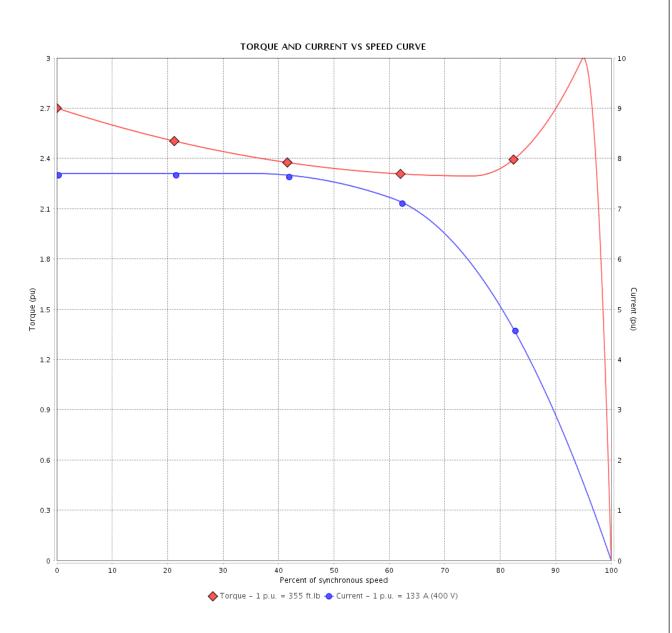


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272879

Three-Phase

Catalog #: 12518OT3ERB405T-W40



Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 133 A : 7.7 : 355 ft.lb : 270 % : 300 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 25.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time	: 16s (cold) 9s (hot)			

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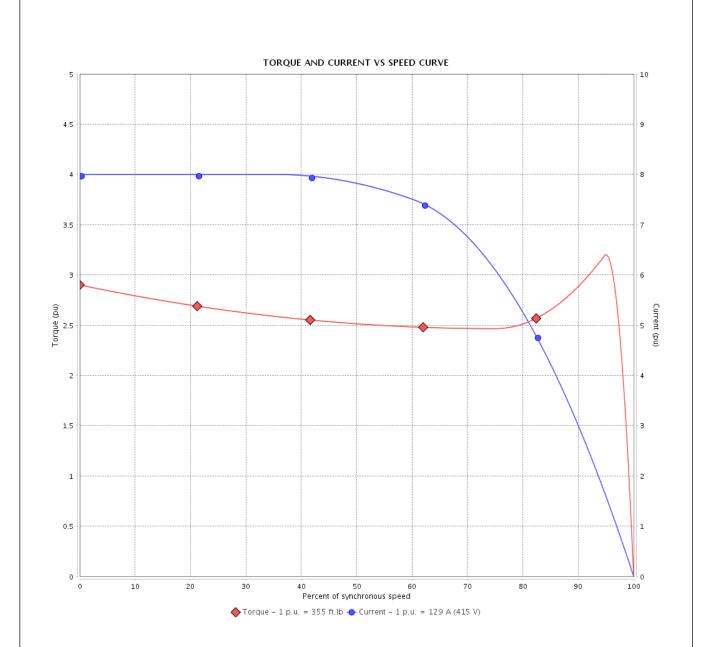
#### Three Phase Induction Motor - Squirrel Cage



12518OT3ERB405T-W40

Customer Product line : W40 NEMA Premium Efficiency Product code: 14272879 Three-Phase

Catalog #:



Performance : 415 V 50 Hz 4P IE3 Rated current : 129 A Moment of inertia (J) : 25.5 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 355 ft.lb : F Locked rotor torque : 290 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K : B Rated speed : 1480 rpm Design Locked rotor time : 14s (cold) 8s (hot)

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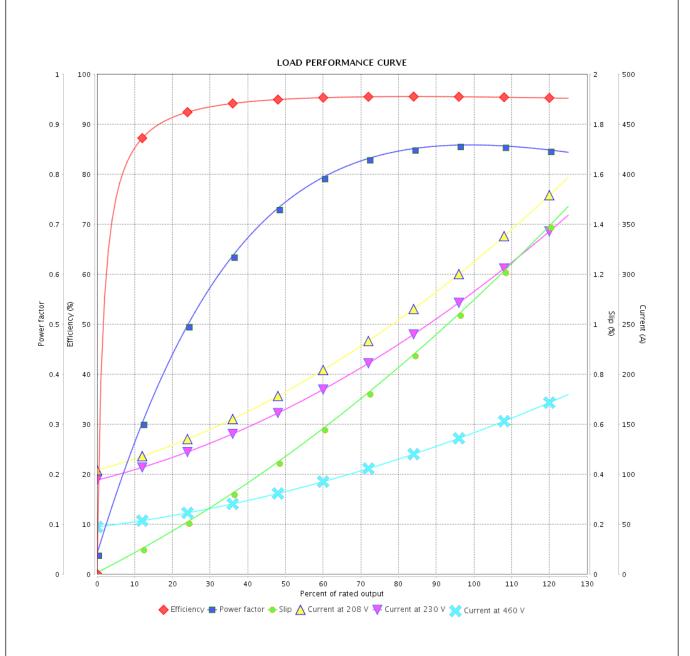
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272879

Catalog #: 12518OT3ERB405T-W40

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Performance	. 20	30/460 V 60 Hz 4F				
renomance	. 20	30/400 V 00 HZ 4F				
Rated current	: 27	76/138 A	Moment o	f inertia (J)	: 25.5 sq.ft.lb	
LRC	: 6.	9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 36	69 ft.lb	Insulation	class	: F	
Locked rotor torg	ue : 27	70 %	Service fa	ctor	: 1.25	
Breakdown torqu	e : 26	60 %	Temperati	ıre rise	: 80 K	
Rated speed	: 17	780 rpm	Design		: B	
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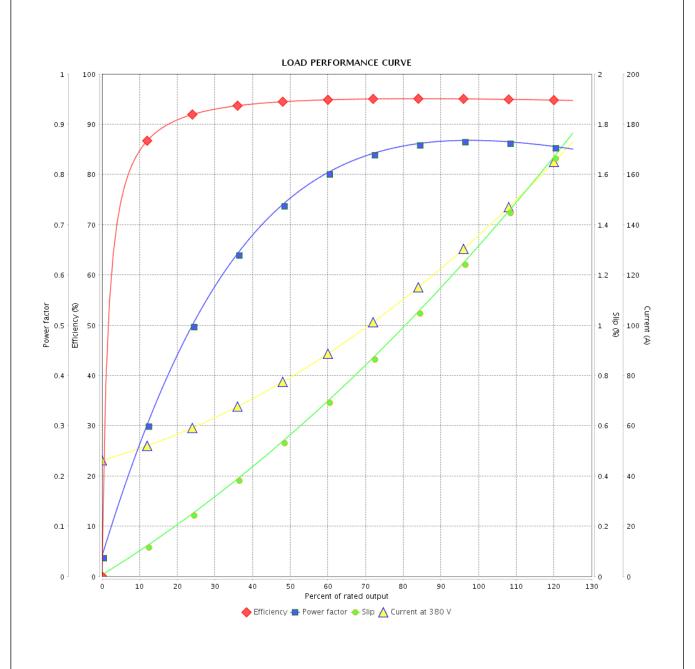


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272879

Three-Phase

Catalog #: 12518OT3ERB405T-W40



Performance	: :	380 V 50 Hz 4P IE3				
Rated current	: .	138 A	Moment o	f inertia (J)	: 25.5 sq.ft.lb	
LRC	:	7.2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: ;	355 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	240 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	260 %	Temperati	ıre rise	: 80 K	
Rated speed	: '	1480 rpm	Design		: B	
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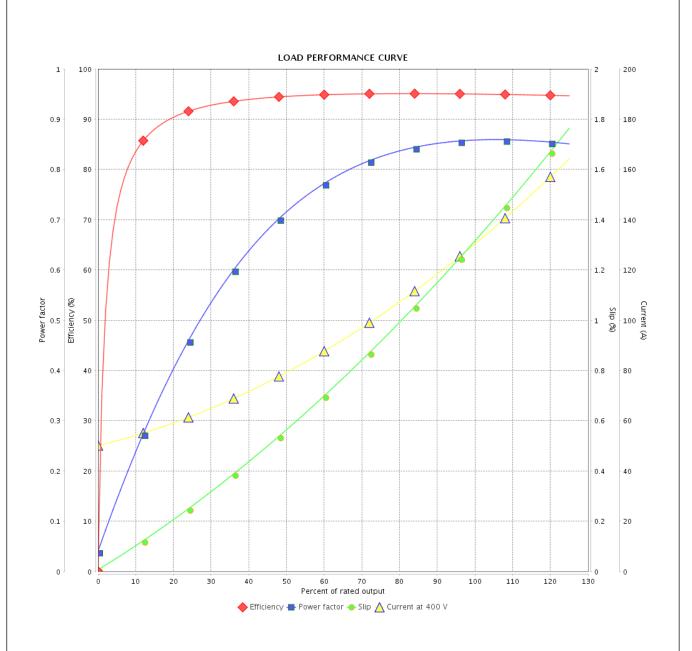
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272879

Catalog #: 12518OT3ERB405T-W40



Performance	: 4	100 V 50 Hz 4P IE3				
Rated current	: 1	133 A Moment of		of inertia (J)	: 25.5 sq.ft.lb	
LRC	: 7	<b>'</b> .7	Duty cycle	9	: Cont.(S1)	
Rated torque	: 3	355 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	270 %	Service fa	actor	: 1.00	
Breakdown torque	: 3	800 %	Temperature rise		: 80 K	
Rated speed : 1480 rpm		480 rpm	Design		: B	
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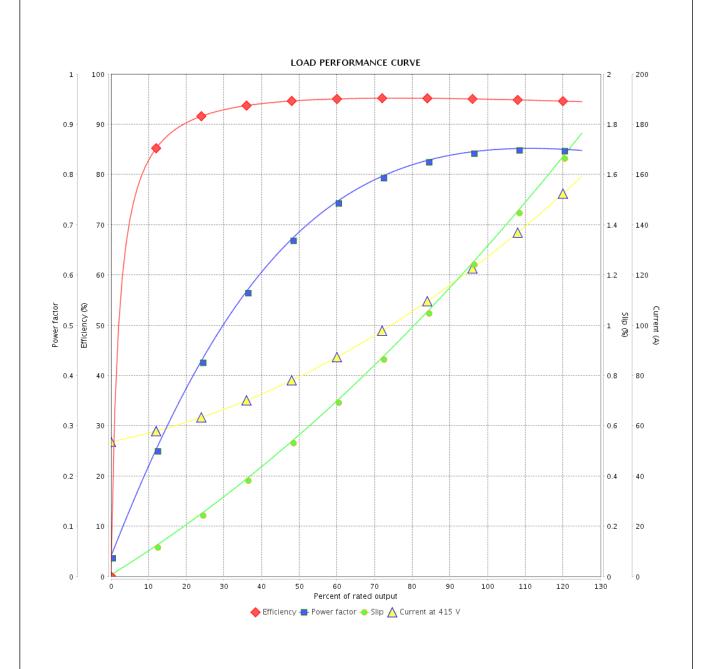
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code : 14272879

Catalog #: 12518OT3ERB405T-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 1	129 A Moment o		of inertia (J)	: 25.5 sq.ft.lb	
LRC	: 8	.0	Duty cycle	9	: Cont.(S1)	
Rated torque	: 3	55 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 2	90 %	Service fa	ictor	: 1.00	
Breakdown torqu	ie : 3	20 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
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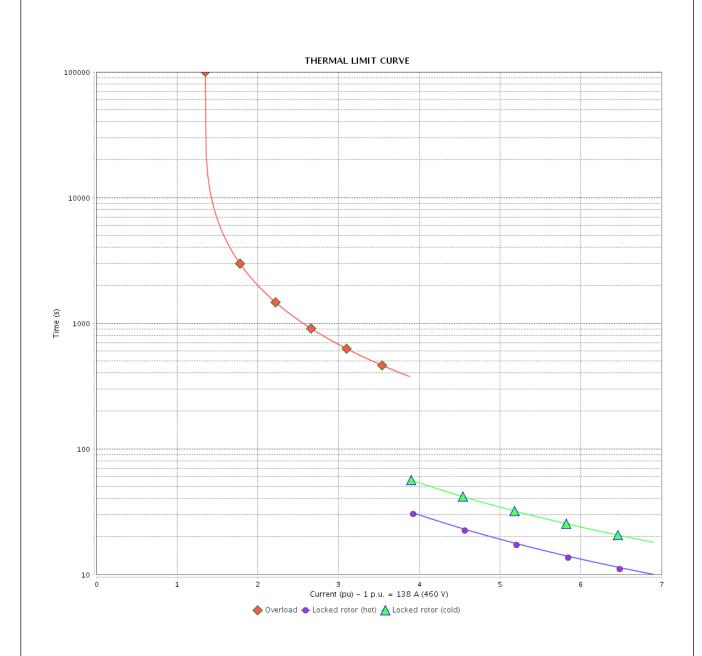


Customer	:					
Product line	: \ Tł	N40 NEMA Premium Efficie nree-Phase		Product code :	14272879	
			(	Catalog # :	12518OT3EF	RB405T-W40
Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 36 e : 27 : 26	76/138 A 9 59 ft.lb 70 % 60 % 780 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 25.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary	I	Performed	Checked	Date
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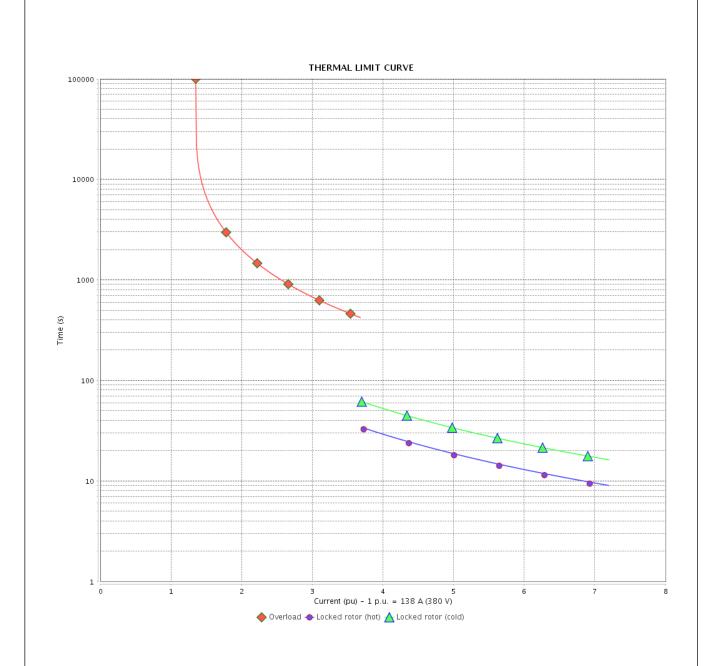


Customer	:					
Product line	: \ Tt	N40 NEMA Premium Efficienree-Phase		Product code :	14272879	
			(	Catalog # :	12518OT3ER	B405T-W40
Performance	: 38	30 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7. : 35 e : 24 : 26	38 A 2 55 ft.lb 40 % 60 % 480 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 25.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant						
Cooling constant		01	Т	Deví :	Ob. 1	D :
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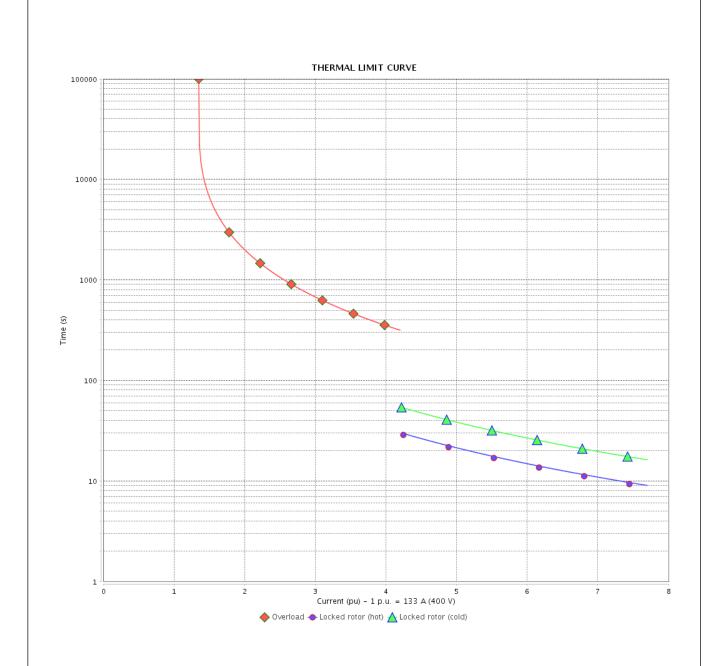


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Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14272879	
	11	iree-Phase	(	Catalog # :	12518OT3ER	B405T-W40
Performance		00 V 50 Hz 4P IE3				
Rated current LRC	: 13 : 7.	33 A 7	Moment of Duty cycle	f inertia (J)	: 25.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 38	55 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 00 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		180 rpm	Design		: B	
Heating constant						
Cooling constant		<u>.</u> .				
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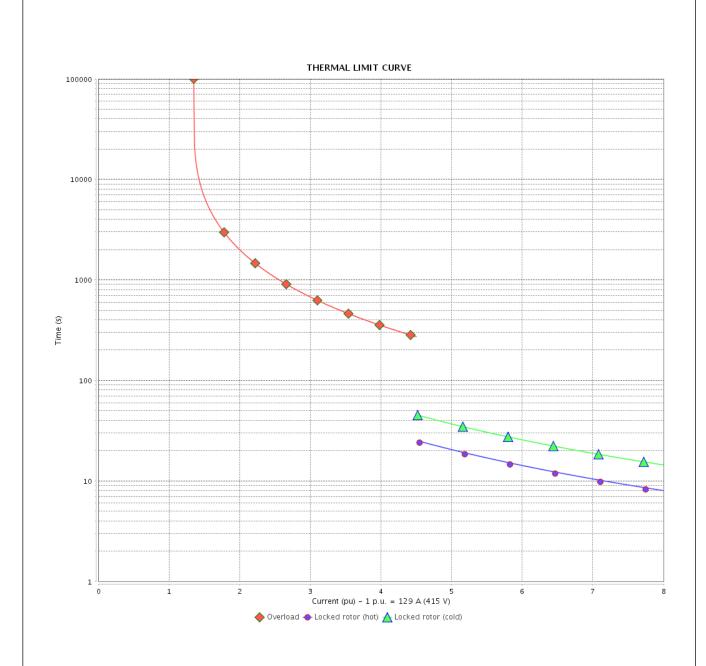


Customer		:				
Product line		: W40 NEMA Premium Efficion Three-Phase		Product code : Catalog # :	14272879 12518OT3ER	B405T-W40
		445.445.44.45.45.45				
Performance Rated current		415 V 50 Hz 4P IE3 129 A	Moment	f inertia (J)	: 25.5 sq.ft.lb	
Rated current LRC Rated torque Locked rotor tord	: : : que	8.0 355 ft.lb 290 %	Duty cycle Insulation Service fa	class	: Cont.(S1) : F : 1.00	
Breakdown torqu Rated speed		320 % 1480 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant	t	•	- 5			
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Customer :

Date

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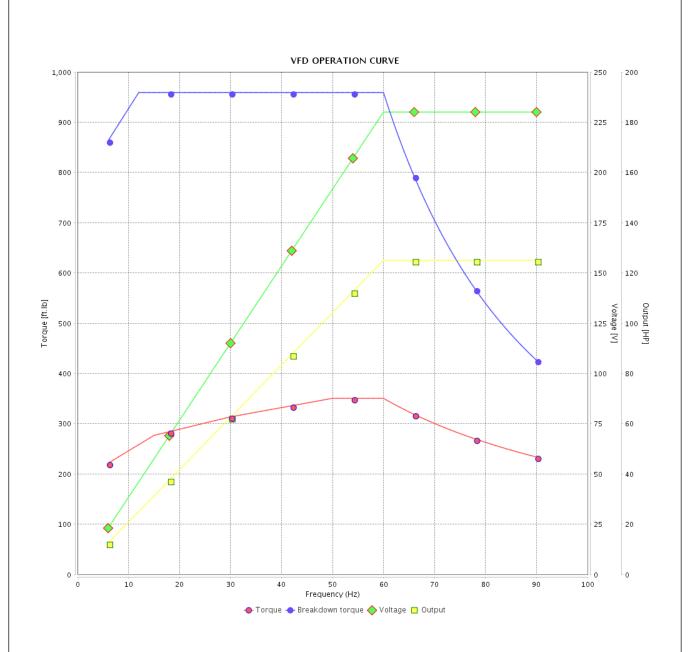
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272879

Catalog #: 12518OT3ERB405T-W40

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Performance : 230/460 V 60 Hz 4P : 276/138 A Rated current Moment of inertia (J) : 25.5 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.9 : 369 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % 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

#### Three Phase Induction Motor - Squirrel Cage



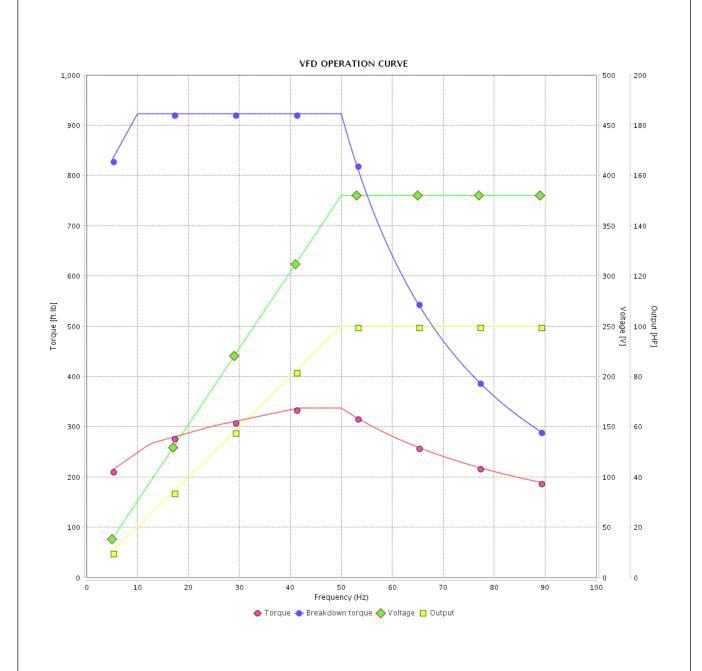
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 12518OT3ERB405T-W40

14272879



	<u> </u>					
Performance	: 38	30 V 50 Hz 4P IE3				
Rated current	: 13	8 A Moment of i		f inertia (J)	: 25.5 sq.ft.lb	
LRC	: 7.	2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 3	55 ft.lb	Insulation	class	: F	
Locked rotor toro	jue : 24	40 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 20	60 %	Temperature rise		: 80 K	
Rated speed	: 14	180 rpm	Design		: B	
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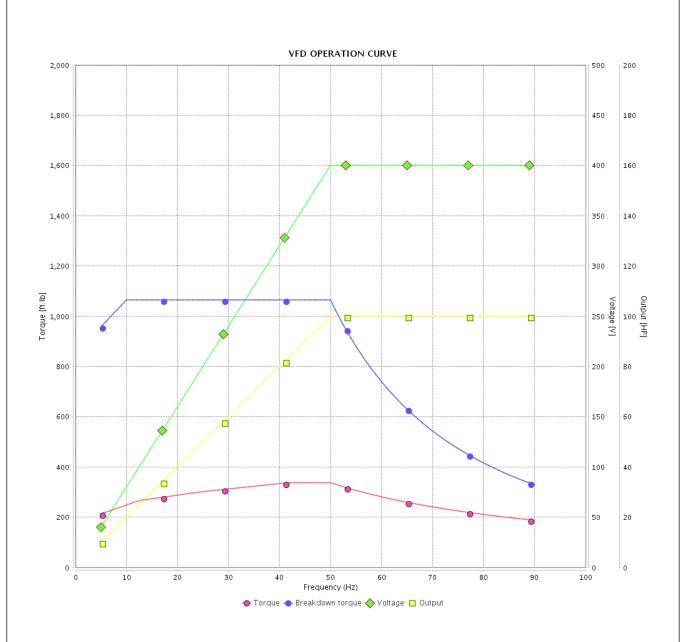
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272879

Catalog #: 12518OT3ERB405T-W40

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Performance	: 400 V 50 Hz 4P IE3				
ated current : 133 A Moment of inertia (J)		: 25.5 sq.ft.lb			
LRC	: 7.7	Duty cycle		: Cont.(S1)	
Rated torque	: 355 ft.lb	Insulation c	lass	: F	
Locked rotor torque	: 270 %	Service fact	tor	: 1.00	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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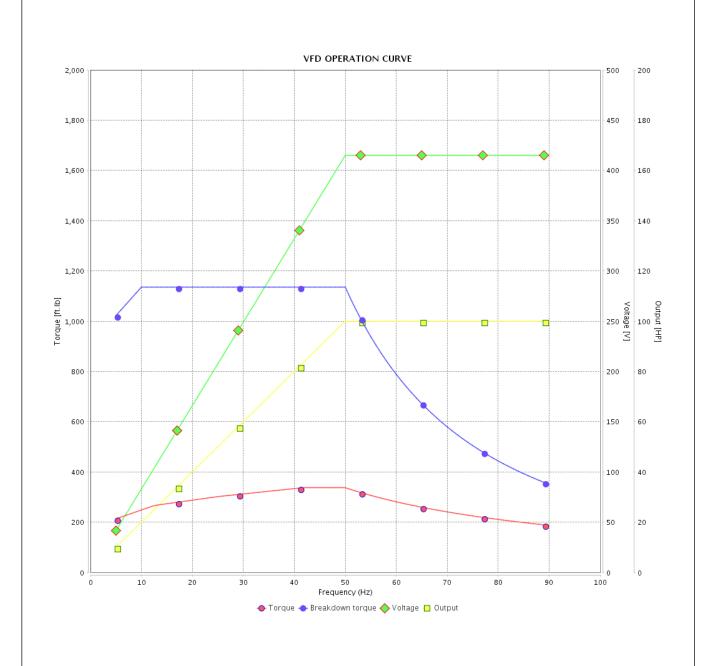
Customer

Product line : W40 NEMA Premium Efficiency Pr

Three-Phase

Product code: 14272879

Catalog #: 12518OT3ERB405T-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 1:	29 A	Moment o	of inertia (J)	: 25.5 sq.ft.lb	
LRC	: 8	.0	Duty cycle	•	: Cont.(S1)	
Rated torque	: 3	55 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	90 %	Service fa	ictor	: 1.00	
Breakdown torque	: 3	20 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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