DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14272482

Three-Phase

12518OT3E405T-W40 Catalog #:

Frame : 404/5T Cooling method : IC01 - ODP

Insulation class Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 1030 lb Protection degree : IP23 Moment of inertia (J) : 25.5 sq.ft.lb

Protection degree		. 1823	Moment of the	Moment of mertia (J) . 25.5 sq.ft.ib			
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	1]	1780	1480	1480	1480		
Slip [%]		1.11	1.33	1.33	1.33		
	Rated torque [ft.lb]		355	355	355		
Locked rotor torqu		270	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 ²		69.0 dB(A)					
	25%	94.9	94.5	94.5	94.8		
Efficiency (%)	50%	95.0	94.6	94.6	94.9		
Lincichoy (70)	75%	95.4	95.0	95.0	95.0		
100%		95.4	95.0	95.0	95.0		
	25%	0.50	0.50	0.46	0.43		
Power Factor	50%	0.75	0.76	0.72	0.69		
1 OWCI I actor	75%	0.83	0.84	0.82	0.80		
	100%	0.86	0.87	0.86	0.85		

Drive end Non drive end Foundation loads

Bearing type 6316 C3 6212 Z C3 Max. traction : 2890 lb Without Sealing Without Max. compression : 3920 lb

Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval Lubricant amount 13 g 34 g

Mobil Polyrex EM Lubricant type

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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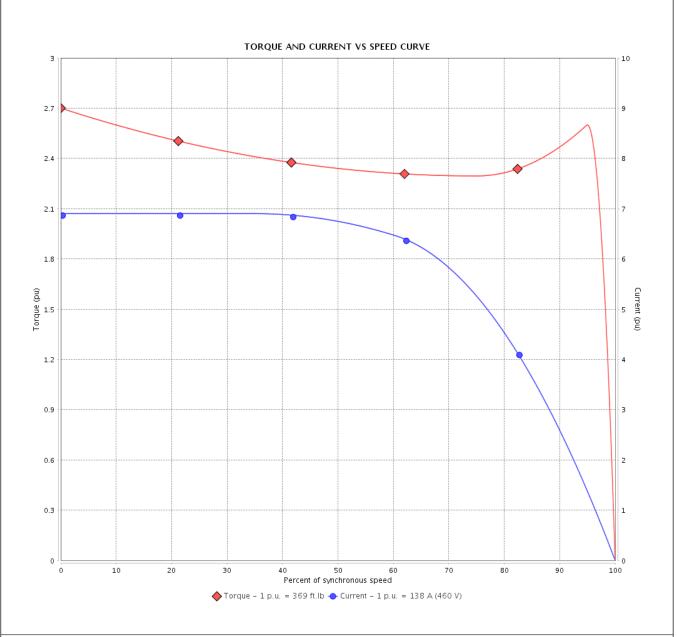
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272482

Catalog #: 12518OT3E405T-W40



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

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

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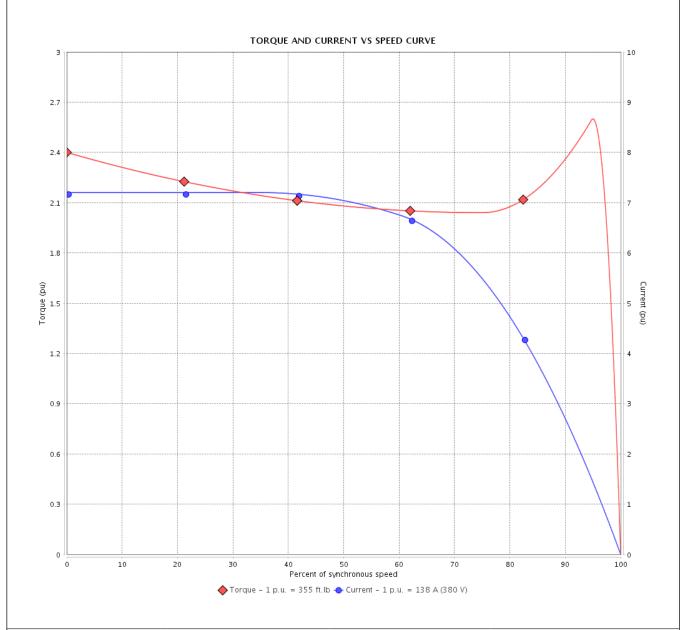
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272482

Catalog #: 12518OT3E405T-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) : 355 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 1480 rpm Design

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

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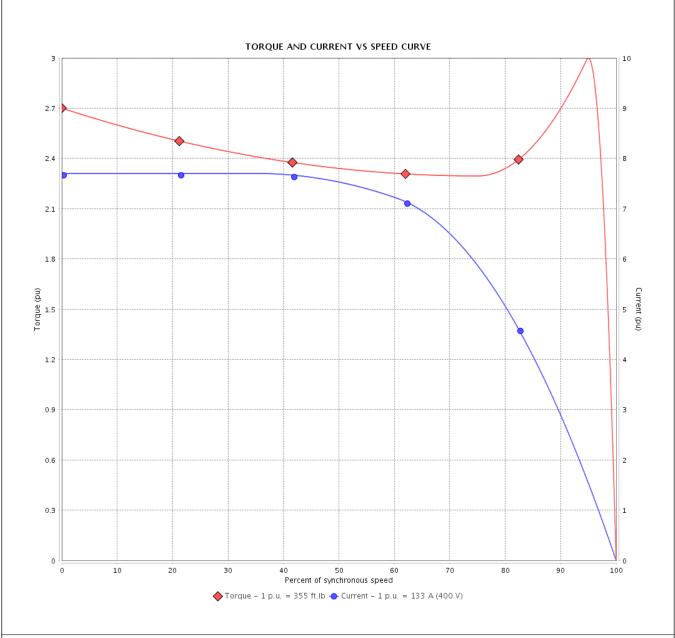
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272482

Catalog #: 12518OT3E405T-W40



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

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 14272482 Three-Phase Catalog #: 12518OT3E405T-W40 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 355 ft.lb ◆ Current - 1 p.u. = 129 A (415 V) 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) : 355 ft.lb Insulation class Rated torque : F : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 14s (cold) 8s (hot) Date Rev. **Changes Summary** Performed Checked

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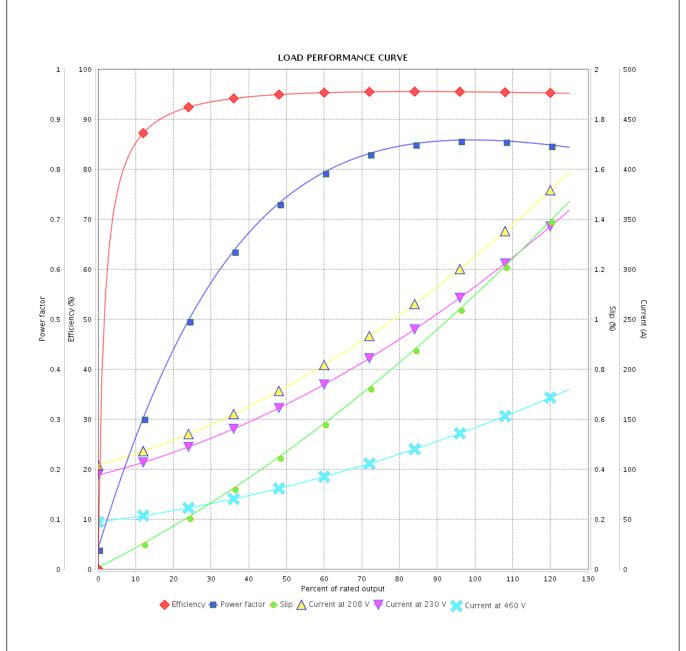
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272482

Catalog #: 12518OT3E405T-W40



Performance : 230/460 V 60 Hz 4P : 276/138 A Rated current Moment of inertia (J) : 25.5 sq.ft.lb **LRC** Duty cycle : 6.9 : Cont.(S1) : 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

Three Phase Induction Motor - Squirrel Cage



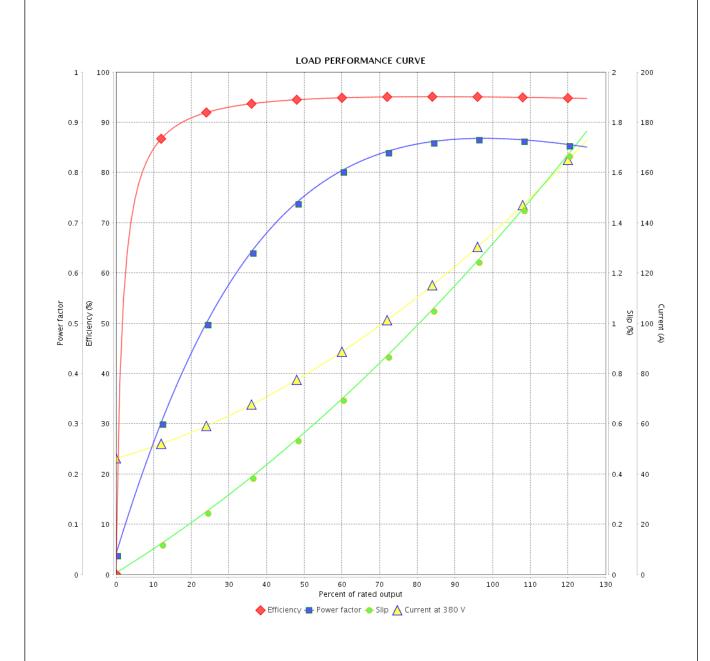
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Product code: 14272482

Catalog #: 12518OT3E405T-W40



Performance	::	380 V 50 Hz 4P IE3				
Rated current	:	138 A	Moment of	f inertia (J)	: 25.5 sq.ft.lb	
LRC	:	7.2	Duty cycle	9	: Cont.(S1)	
Rated torque	::	355 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	240 %	Service fa	ctor	: 1.00	
Breakdown torque	: :	260 %	Temperature rise		: 80 K	
Rated speed	:	1480 rpm	Design		: B	
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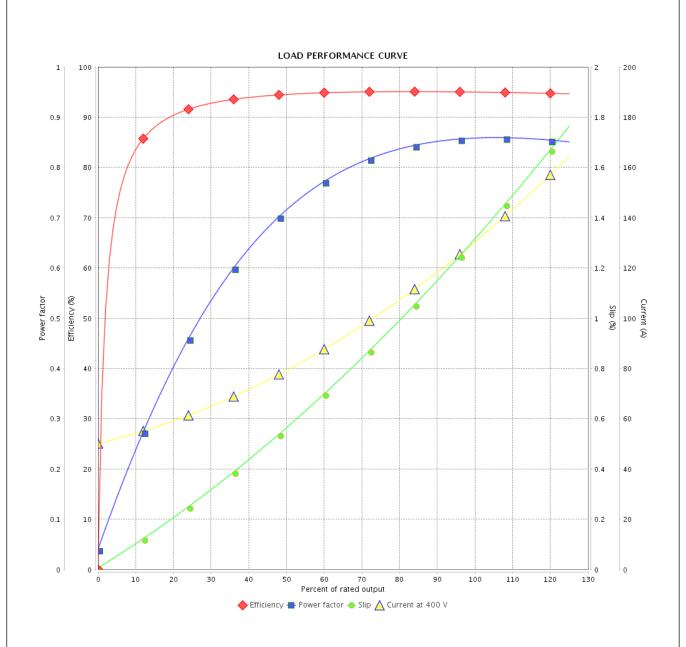
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272482

Catalog #: 12518OT3E405T-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 Duty cycle Insulation Service fa Temperate Design	class ctor	: 25.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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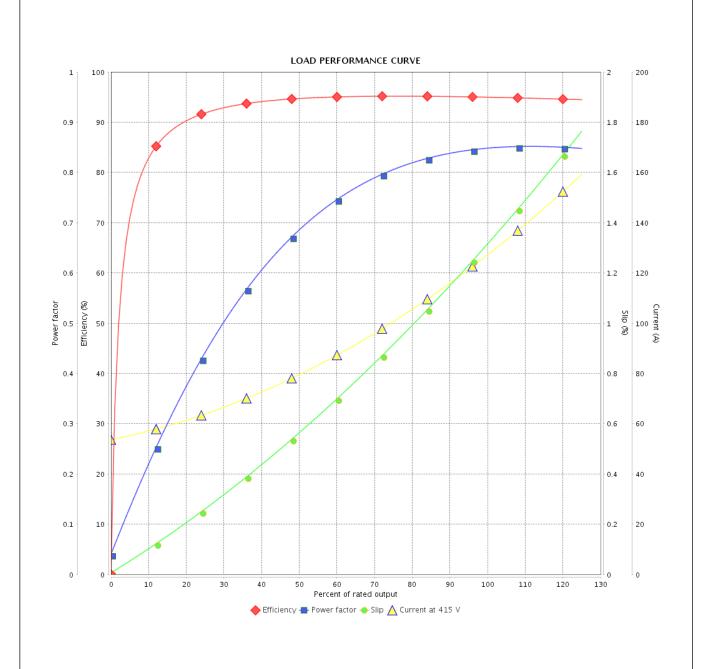
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

14272482

Catalog #: 12518OT3E405T-W40



Performance	Performance : 415 V 50 Hz 4P IE3					
Rated current	: 12	29 A	Moment o	f 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 torq	ue : 29	90 %	Service fa	ctor	: 1.00	
Breakdown torque		20 %	Temperati	Temperature rise		
Rated speed	: 14	480 rpm	Design		: B	
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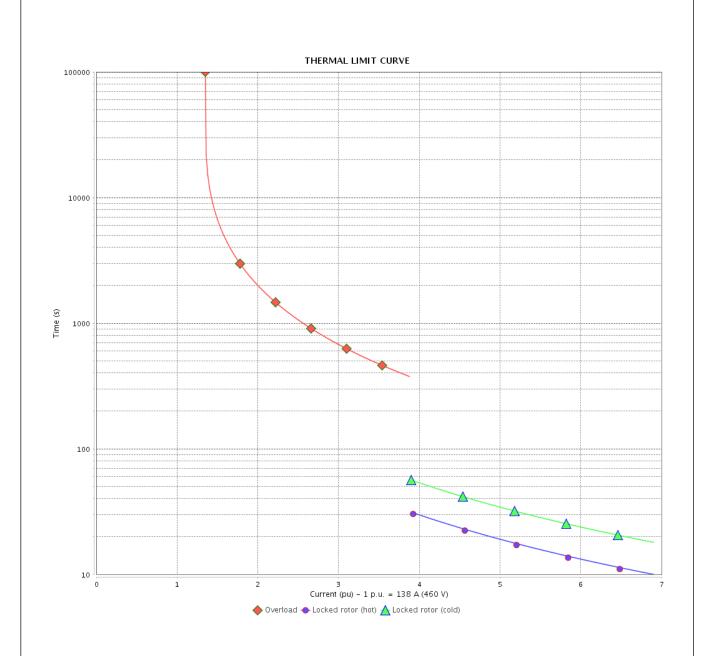


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272482 12518OT3E40	05T-W40
Performance		230/460 V 60 Hz 4P		.	05.5 6.11	
Rated current LRC	:	276/138 A 6.9	Duty cycle		: 25.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		369 ft.lb 270 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		260 %	Temperatu		: 80 K	
Rated speed	:	1780 rpm	Design		: B	
Heating constant Cooling constant						
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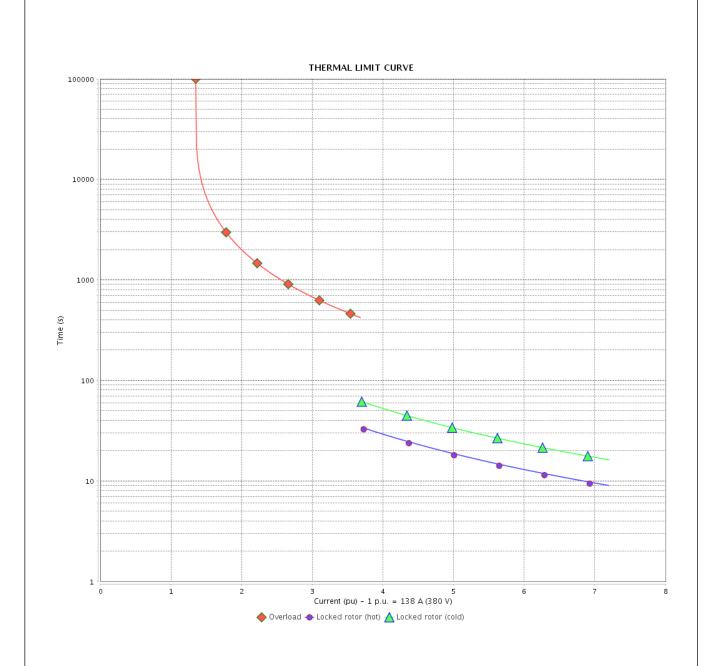


Customer	:			
Product line	: W40 NEMA Premium Effic Three-Phase		14272482	
		Catalog # :	12518OT3E405	Γ-W40
Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque	: 138 A : 7.2 : 355 ft.lb	Moment of inertia (J) Duty cycle Insulation class	: 25.5 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 260 % : 1480 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant	Changas C	Dowformer	Checked	Doto
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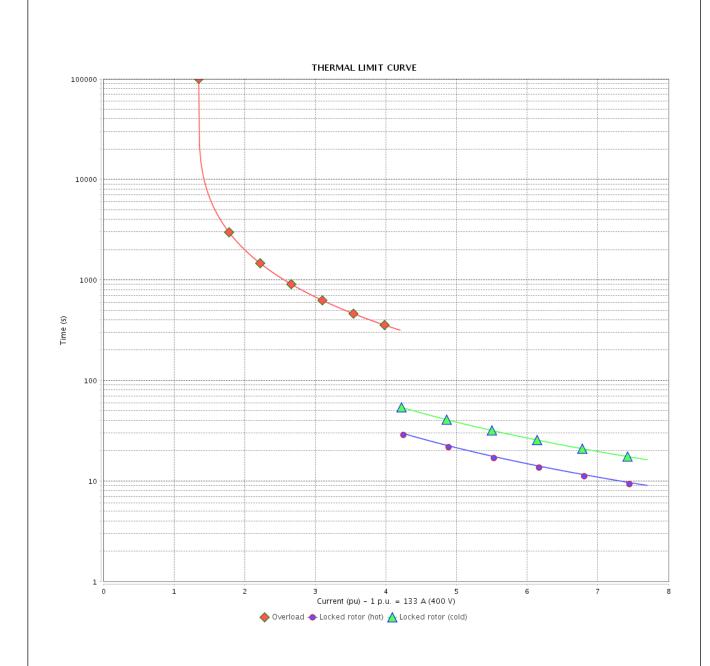


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Product line		: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14272482	
		Times Times		Catalog # :	12518OT3E4	05T-W40
Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	133 A	Moment o	f inertia (J)	: 25.5 sq.ft.lb	
LRC Rated torque		7.7 355 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		270 %	Service fa		: 1.00	
Breakdown torqu	ie :	300 %	Temperati		: 80 K	
Rated speed	:	1480 rpm	Design		: B	
Heating constant						
Cooling constant						
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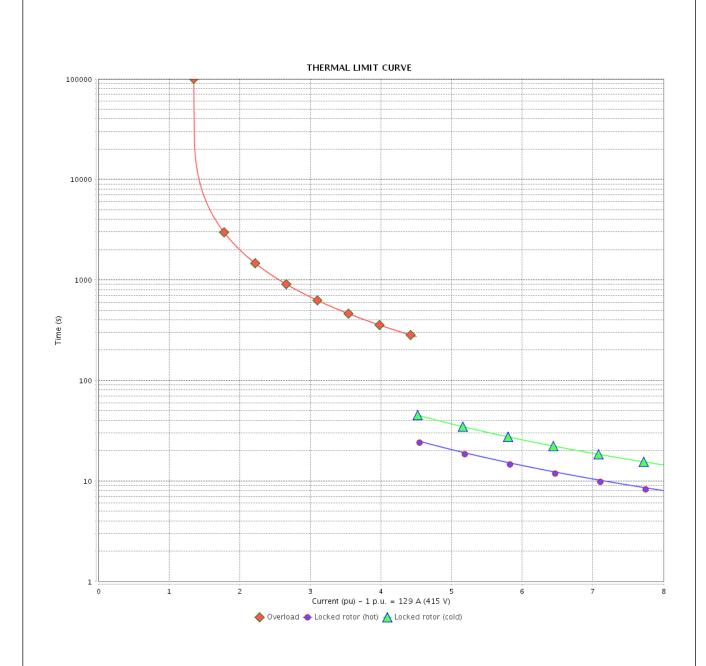


Customer		:				
Product line		: W40 NEMA Premium Efficient Three-Phase	ency	Product code :	14272482	
				Catalog # :	12518OT3E4	05T-W40
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 129 A	Moment of	of inertia (J)	: 25.5 sq.ft.lb	
LRC	:	: 8.0	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		: 355 ft.lb : 290 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	: 320 %	Temperati		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constant	t					
Cooling constant	t			,		
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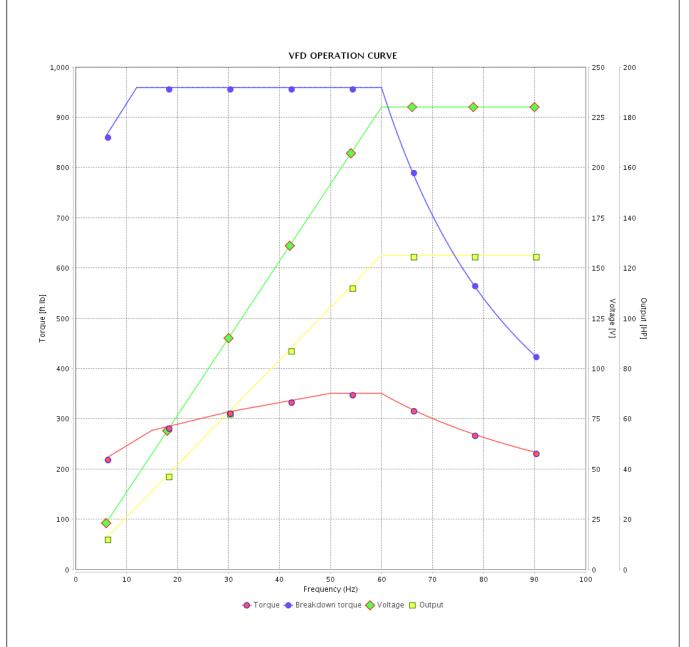
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272482

Catalog #: 12518OT3E405T-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	
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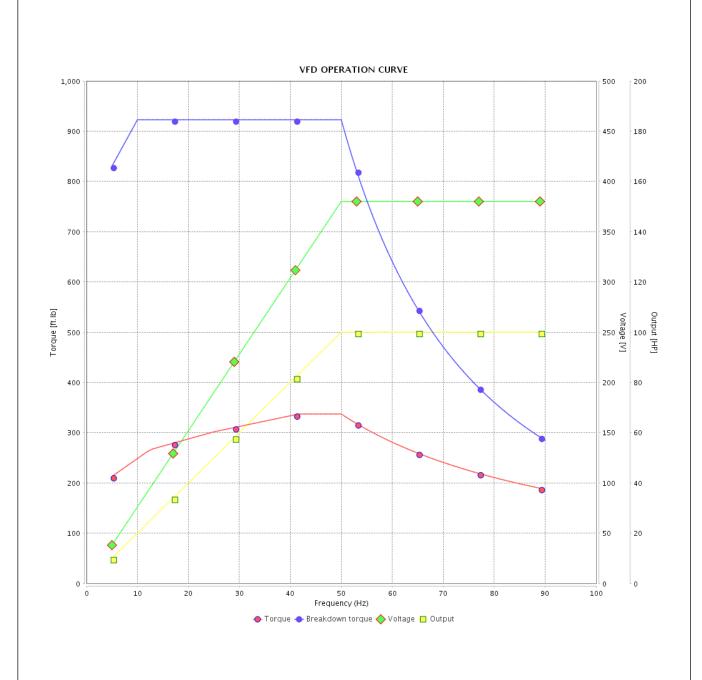
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #:

14272482

12518OT3E405T-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 138 A Moment of inertia (J) : 25.5 sq		
Rated current : 138 A Moment of inertia (J) : 25.5 sq		
	ft.lb	
LRC : 7.2 Duty cycle : Cont.(S	1)	
Rated torque : 355 ft.lb Insulation class : F	: F	
Locked rotor torque : 240 % Service factor : 1.00	: 1.00	
Breakdown torque : 260 % Temperature rise : 80 K	: 80 K	
Rated speed : 1480 rpm Design : B		
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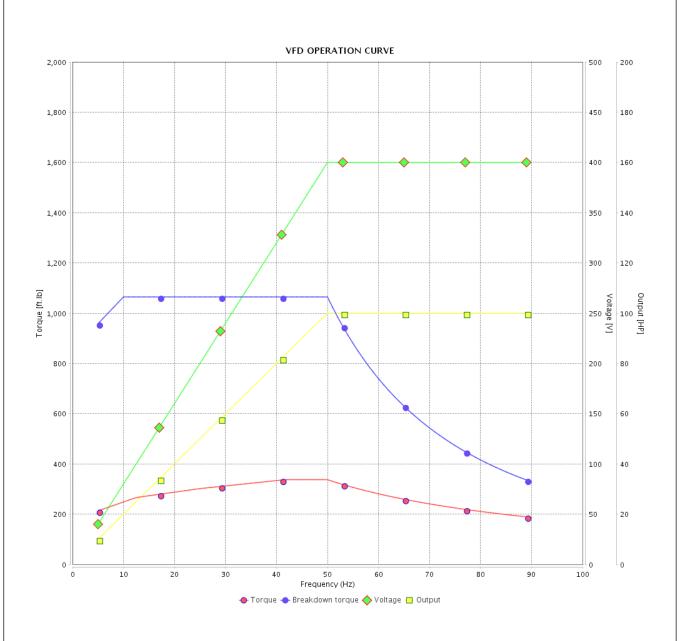
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272482

Catalog #: 12518OT3E405T-W40

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Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 133 A	1	Moment of inertia (J)		
LRC	: 7.7	Duty cycle		: Cont.(S1)	
Rated torque	: 355 ft.lb	Insulation class		: F	
Locked rotor torque	: 270 %	Service factor		: 1.00	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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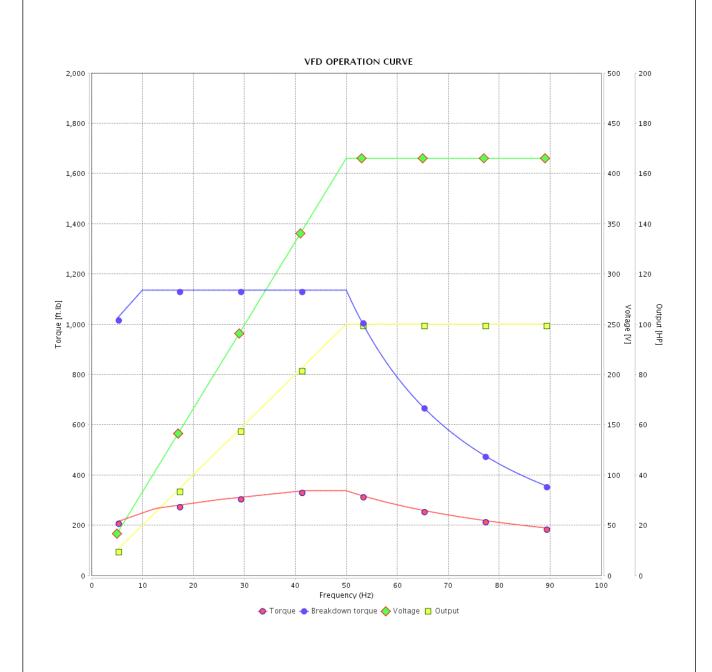
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272482

Catalog #: 12518OT3E405T-W40



Performance		15 V 50 Hz 4P IE3					
Rated current :		29 A	Moment o	Moment of inertia (J)			
LRC :		0	Duty cycle	Duty cycle			
Rated torque		55 ft.lb	Insulation	Insulation class		: F	
Locked rotor torque		90 %	Service fa	ctor	: 1.00		
Breakdown torque	: 32	20 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 14	180 rpm	Design		: B		
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