DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

14272881

Catalog #: 12518OT3G405TC-W40

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

Insulation class Mounting : F-1

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

: 1000 m.a.s.l. Approx. weight3 : 1051 lb Altitude Moment of inertia (J) Protection degree : IP23 : 25.5 sq.ft.lb

Design : B

Output [HP] 125 100 100 100 Poles 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 129 138 138 133 L. R. Amperes [A] 994 1024 1032 952 6.9x(Code G) 7.2x(Code H) 7.7x(Code H) 8.0x(Code J) LRC [A] No load current [A] 47.0 46.3 50.2 53.7 Rated speed [RPM] 1780 1480 1480 1480 Slip [%] 1.11 1.33 1.33 1.33 Rated torque [ft.lb] 369 355 355 355 Locked rotor torque [%] 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 level² 69.0 dB(A) 25% 94.9 94.5 94.5 94.8 50% 95.0 94.6 94.6 94.9 Efficiency (%) 75% 95.0 95.0 95.0 95.4 100% 95.4 95.0 95.0 95.0 0.43 25% 0.50 0.50 0.46 50% 0.72 0.75 0.76 0.69 Power Factor 75% 0.83 0.84 0.82 0.80

> Drive end Non drive end Foundation loads

0.87

Bearing type 6316 C3 6212 Z C3 Max. traction : 2880 lb Sealing Without Without Max. compression : 3930 lb

0.86

Bearing Seal Bearing Seal 20000 h Lubrication interval 20000 h

13 g Lubricant amount Lubricant type Mobil Polyrex EM

100%

Notes

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.

0.86

0.85

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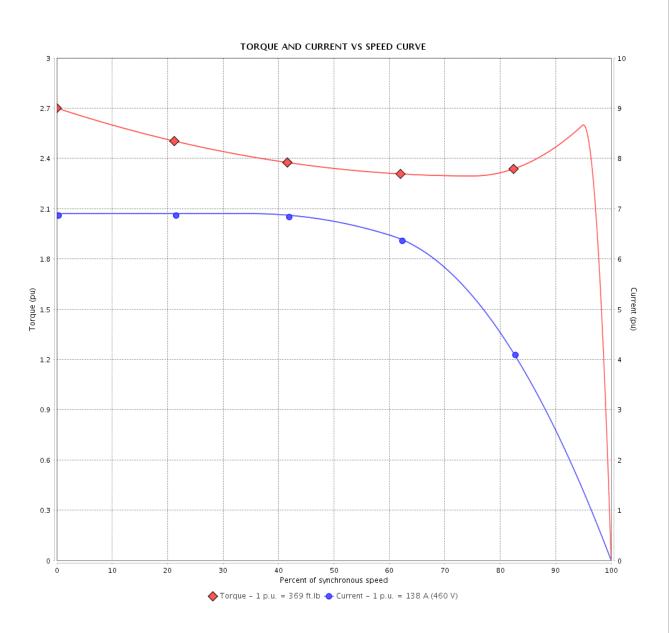
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272881

Catalog #: 12518OT3G405TC-W40



Performance : 460 V 60 Hz 4P Rated current : 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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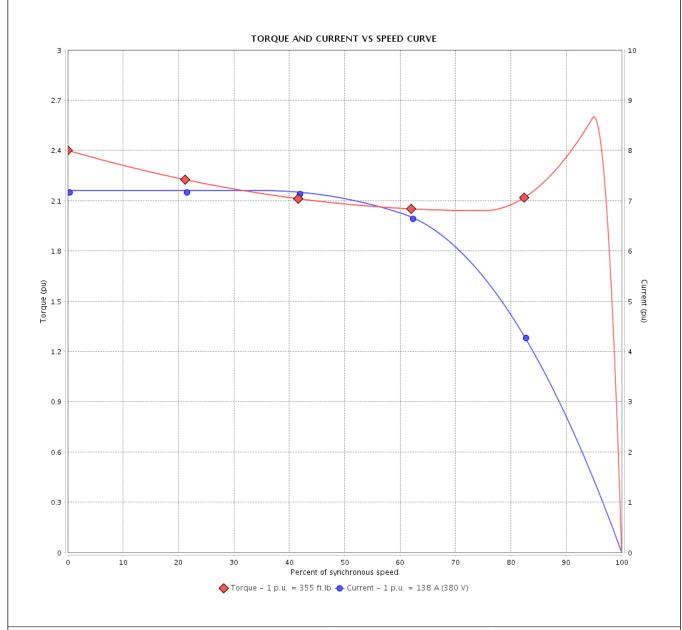
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272881

Catalog #: 12518OT3G405TC-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) Insulation class Rated torque : 355 ft.lb : 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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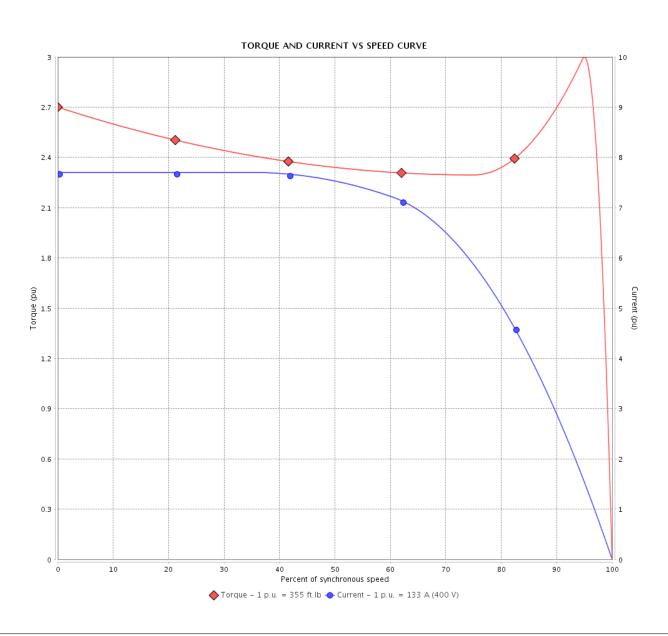
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272881

Catalog #: 12518OT3G405TC-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

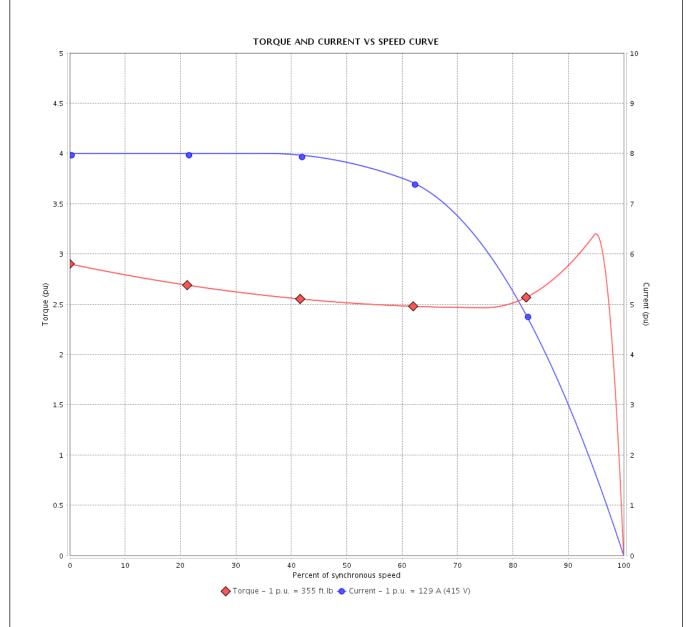
Locked rotor time : 16s (cold) 9s (hot)

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Customer Product line : W40 NEMA Premium Efficiency Product code: 14272881



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)	
Rated torque	: 355 ft.lb	Insulation class	: F	
Locked rotor torque	: 290 %	Service factor	: 1.00	
Breakdown torque	: 320 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 14s (cold) 8s (hot)		.	

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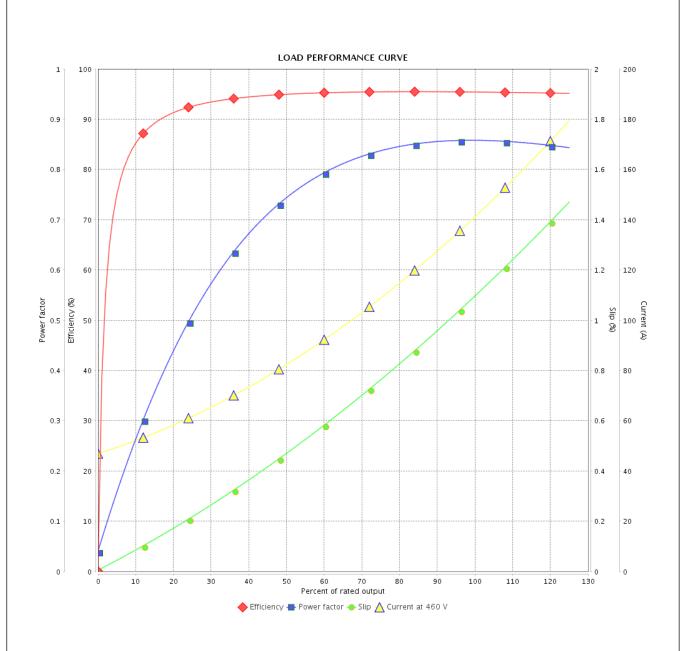
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272881

Catalog #: 12518OT3G405TC-W40

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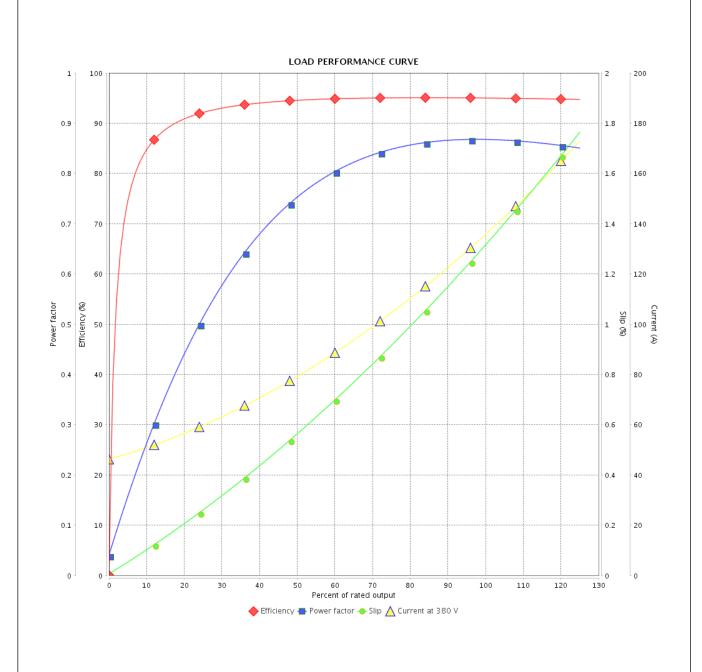
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Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272881

Three-Phase



Performance	erformance : 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)	: Cont.(S1)	
Rated torque	: 3	55 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 24	40 %	Service fa	ctor	: 1.00	
Breakdown torque	: 20	60 %	Temperati	Temperature rise		
Rated speed	: 14	480 rpm Design		: B		
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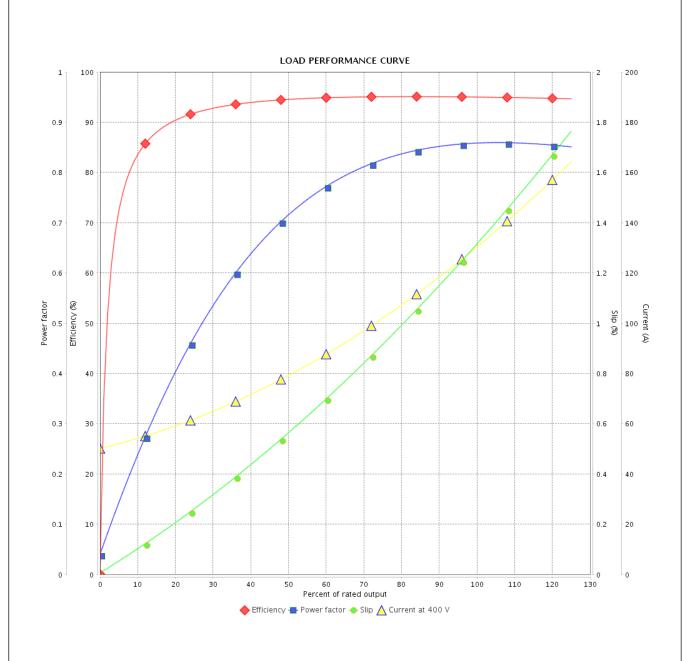


Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272881



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current		33 A	1	of inertia (J)	: 25.5 sq.ft.lb	
LRC	: 7	7.7	Duty cycle	9	: Cont.(S1)	
Rated torque	: 3	55 ft.lb	Insulation	class	: F	
Locked rotor torg	jue : 2	70 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 3	: 300 % Temperature rise : 1480 rpm Design		re rise : 80 K		
Rated speed	: 1				: B	
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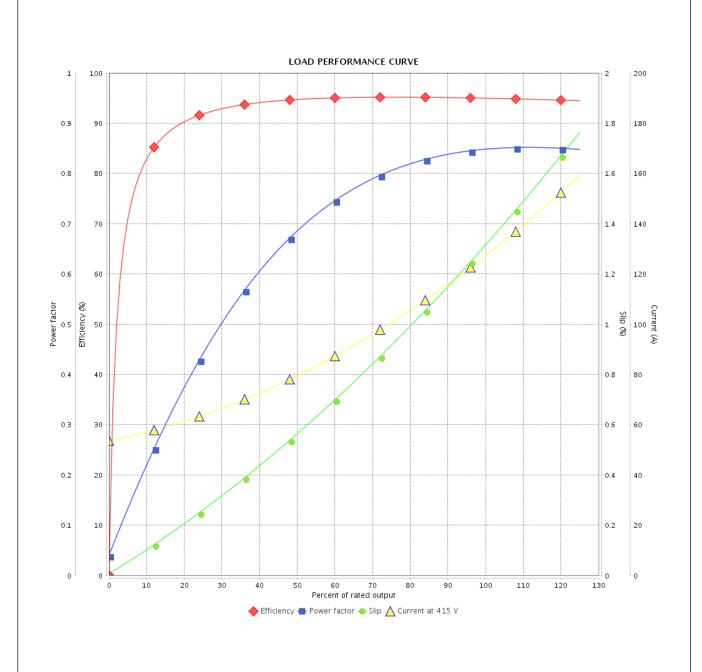
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Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272881

Three-Phase



Performance	erformance : 415 V 50 Hz 4P IE3					
Rated current : 129 A		Moment of	Moment of inertia (J)			
LRC	: 8.	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	55 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 29	90 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 3:	20 %	Temperati	Temperature rise		
Rated speed	: 14	480 rpm Design		: B		
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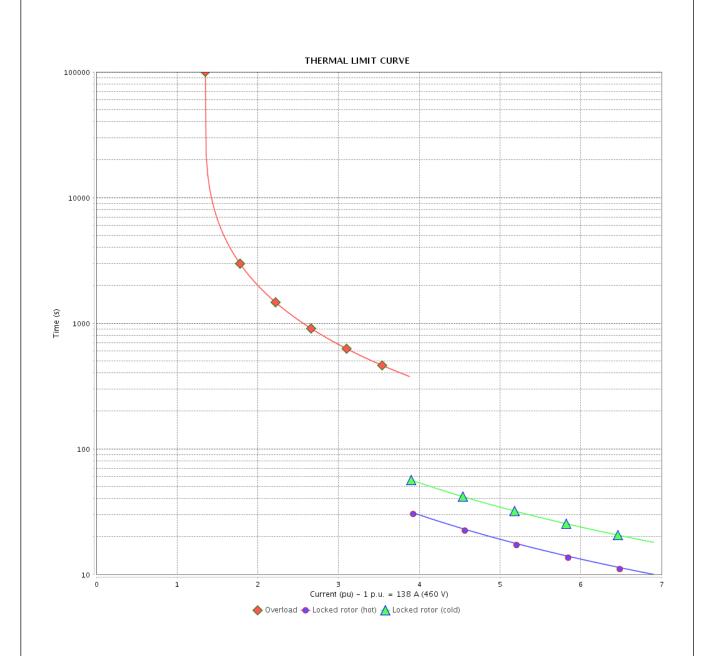


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272881 12518OT3G4	05TC-W40
Performance		460 V 60 Hz 4P	N4	Charles (I)	05.5 6.11	
Rated current LRC		138 A 6.9	Moment o Duty cycle	f inertia (J)	: 25.5 sq.ft.lb : Cont.(S1)	
Rated torque	:	369 ft.lb	Insulation	class	: F	
Locked rotor tord		270 % 260 %	Service fa		: 1.25 : 80 K	
Breakdown torqu Rated speed		260 % 1780 rpm	Temperatu Design	116 1196	: 80 K : B	
Heating constant						
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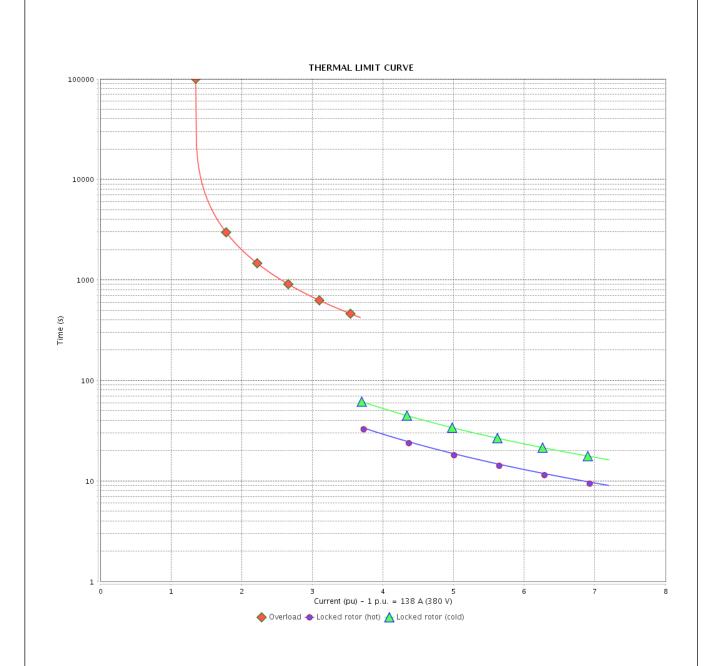


Customer		:					
Product line		: W40 NEMA Premium Efficiency		Product code :	14272881		
		Three-Phase					
				Catalog # :	12518OT3G4	051C-VV40	
Performance	:	: 380 V 50 Hz 4P IE3					
Rated current	:	: 138 A	Moment o	of inertia (J)	: 25.5 sq.ft.lb		
LRC		: 7.2 : 355 ft.lb	Duty cycle Insulation		: Cont.(S1)		
Rated torque Locked rotor torc		: 355 π.id : 240 %	Service fa		: F : 1.00		
Breakdown torqu	ie :	: 260 %	Temperati		: 80 K		
Rated speed	•	: 1480 rpm	Design		: B		
Heating constant							
Cooling constant	t						
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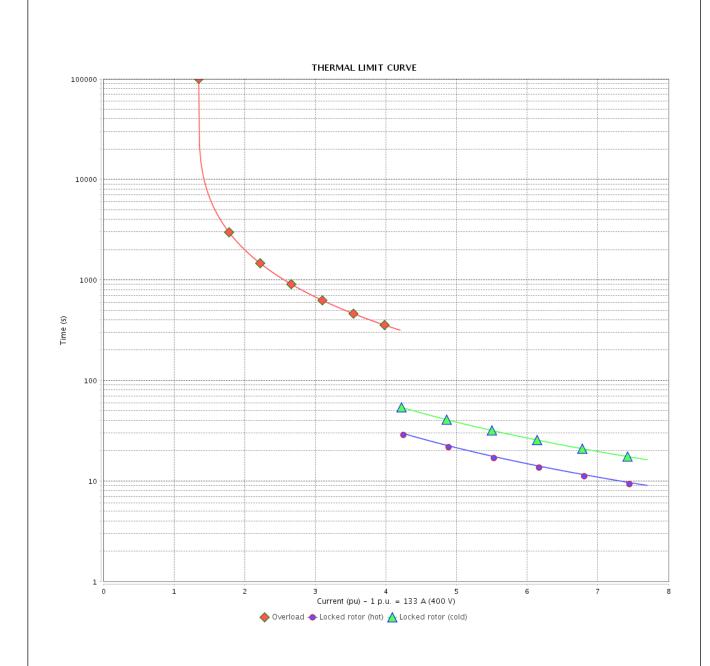


Customer	:					
Product line	:	W40 NEMA Premium Efficie Three-Phase		Product code :	14272881 12518OT3G4	05TC-W40
Performance	: 4	400 V 50 Hz 4P IE3				
Rated current LRC	: 1 : 7	133 A 7.7	Moment of Duty cycle		: 25.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord	que : 2	355 ft.lb 270 %	Insulation Service fac	ctor	: F : 1.00	
Breakdown torqu Rated speed		300 % 1480 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant	L	Changes Summary		Performed	Checked	Date
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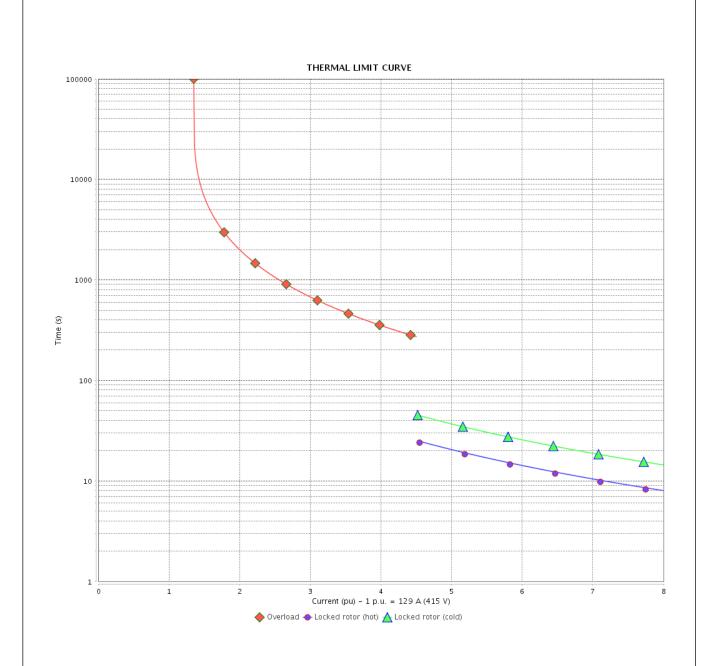


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase	ency	Product code :	14272881	
				Catalog # :	12518OT3G4	05TC-W40
Performance		: 415 V 50 Hz 4P IE3		<u> </u>		
Rated current LRC		: 129 A : 8.0	Moment o	of inertia (J)	: 25.5 sq.ft.lb : Cont.(S1)	
Rated torque		: 355 ft.lb	Insulation	class	: F	
Locked rotor tord		: 290 % : 320 %	Service fa		: 1.00 : 80 K	
Breakdown torqu Rated speed		: 320 % : 1480 rpm	Temperati Design	uic IISC	: 80 K	
Heating constan						
Cooling constant						
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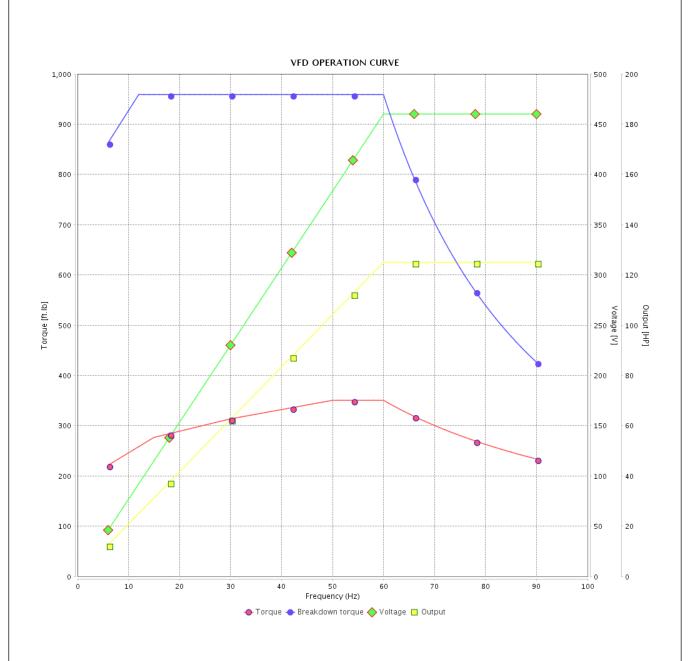


Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272881



Performance	: 46	60 V 60 Hz 4P				
Rated current	ated current : 138 A		Moment of inertia (J)		: 25.5 sq.ft.lb	
LRC	: 6.	9	Duty cycle	* *		
Rated torque			, ,			
Locked rotor torque : 270 %		70 %	Service fa	ctor	: 1.25	
		60 %	Temperature rise		: 80 K	
Rated speed		780 rpm	Design		: B	
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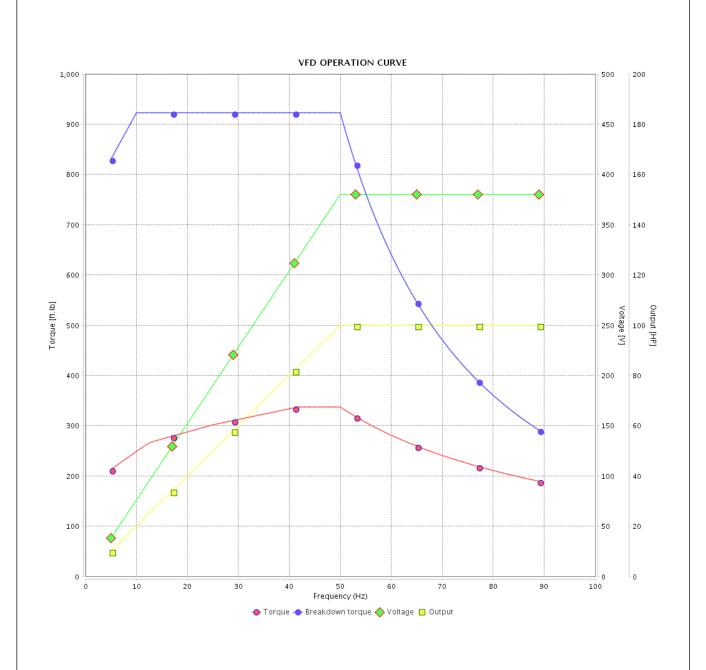
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog # : 12518OT3G405TC-W40

14272881



Performance	Performance : 380 V 50 Hz 4P IE3					
Rated current		138 A	Moment o	Moment of inertia (J)		
LRC		7.2	Duty cycle	}	: Cont.(S1)	
Rated torque	:	355 ft.lb	Insulation class		: F	
Locked rotor torque		240 %	Service fa	Service factor		
Breakdown torque	::	260 %	Temperature rise		: 80 K	
Rated speed	:	1480 rpm	Design		: B	
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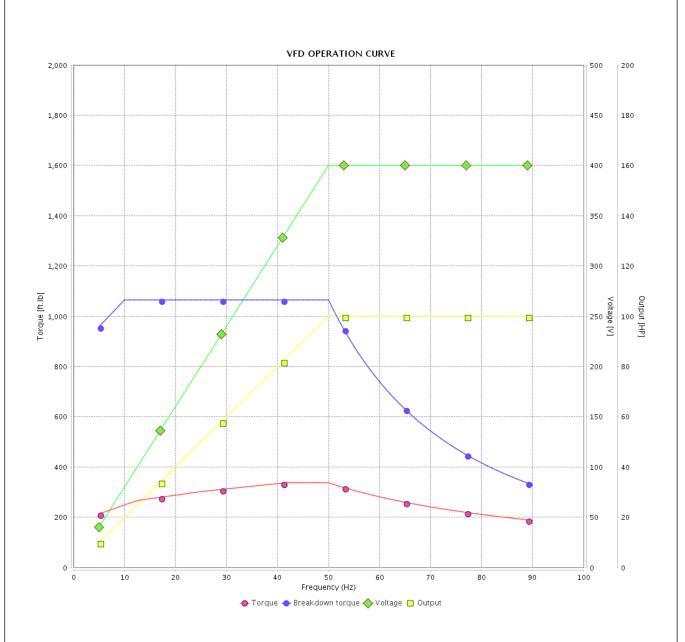
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272881

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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	
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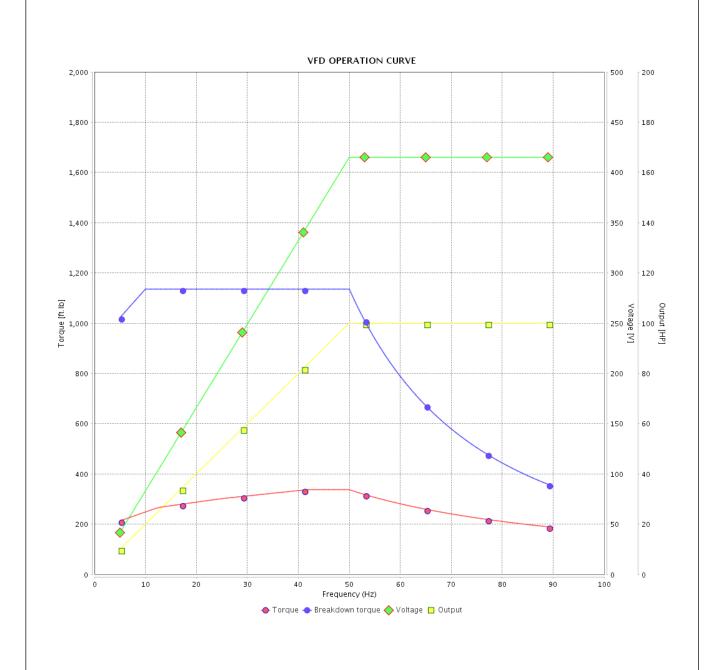


Customer

Product line : W40 NEMA Premium Efficiency Pr

Three-Phase

Product code: 14272881



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	ited current : 129 A		Moment o	Moment of inertia (J)		
LRC	: 8.	0	Duty cycle	;	: Cont.(S1)	
Rated torque : 35		55 ft.lb	Insulation class		: F	
		90 %	Service factor		: 1.00	
Breakdown torque : 3		20 %	Temperature rise		: 80 K	
Rated speed	: 14	180 rpm	Design		: B	
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