DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14270958

Three-Phase

Catalog #: 07536OT3G364TS-W40

Frame : 364/5TS 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 : 713 lb : IP23 : 6.40 sq.ft.lb Protection degree Moment of inertia (J)

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Design		: B					
Output [HP]		75	60	60	60		
Poles		2	2	2	2		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		460	380	400	415		
Rated current [A]		84.8	82.7	79.4	78.4		
L. R. Amperes [A]		560	579	588	588		
LRC [A]		6.6x(Code G)	7.0x(Code H)	7.4x(Code H)	7.5x(Code H)		
No load current [A]]	21.5	20.7	22.7	25.0		
Rated speed [RPN	1]	3555	2955	2963	2965		
Slip [%]		1.25	1.50	1.23	1.17		
Rated torque [ft.lb]		111	107				
Locked rotor torque [%]		200	190	220	220		
Breakdown torque	Breakdown torque [%]		229	250	280		
Service factor		1.25	1.00 1.00		1.00		
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		34s (cold) 19s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)		
Noise level ²		84.0 dB(A)					
	25%	91.0	90.5	90.2	89.7		
Efficiency (%)	50%	91.7	91.7	91.4	91.0		
Linciency (70)	75%	93.0	92.9	92.8	92.7		
100%		93.6	94.0	94.0	94.0		
	25%	0.56	0.56	0.51	0.47		
Power Factor	50%	0.77	0.78	0.73	0.69		
1 OWELL ACIO	75%	0.84	0.85	0.83	0.80		
	100%	0.87	0.88	0.87	0.85		

Drive end Non drive end Foundation loads

6314 C3 Bearing type 6212 Z C3 Max. traction : 663 lb Sealing Without : 1376 lb

Without Max. compression Bearing Seal Bearing Seal

14418 h 20000 h Lubrication interval 13 g Lubricant amount Lubricant type Mobil Polyrex EM

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.

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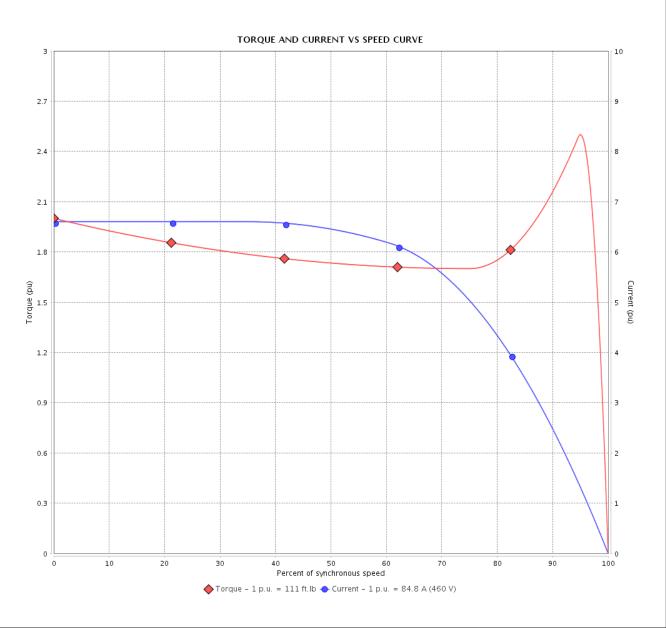
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270958

Catalog #: 07536OT3G364TS-W40



Performance : 460 V 60 Hz 2P Rated current : 84.8 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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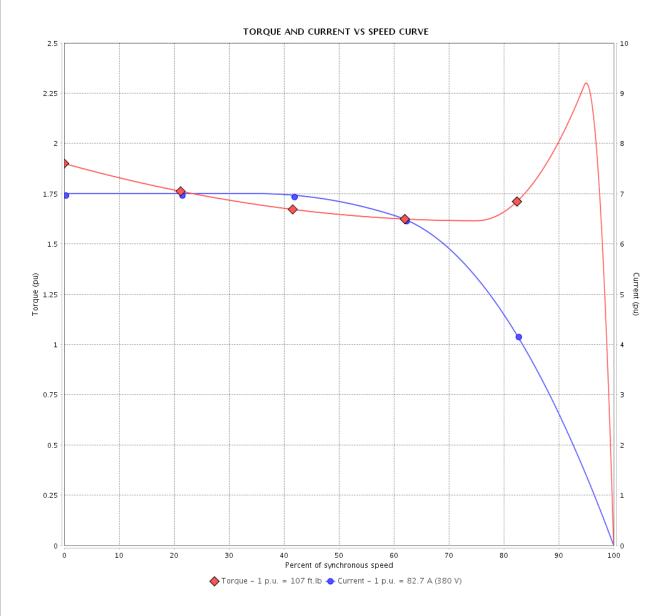
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270958

Catalog #: 07536OT3G364TS-W40



Performance : 380 V 50 Hz 2P IE3 Rated current : 82.7 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Rated torque : 107 ft.lb Insulation class : F Service factor : 1.00 Locked rotor torque : 190 % : 80 K Breakdown torque : 229 % Temperature rise : B Rated speed : 2955 rpm Design Locked rotor time : 27s (cold) 15s (hot)

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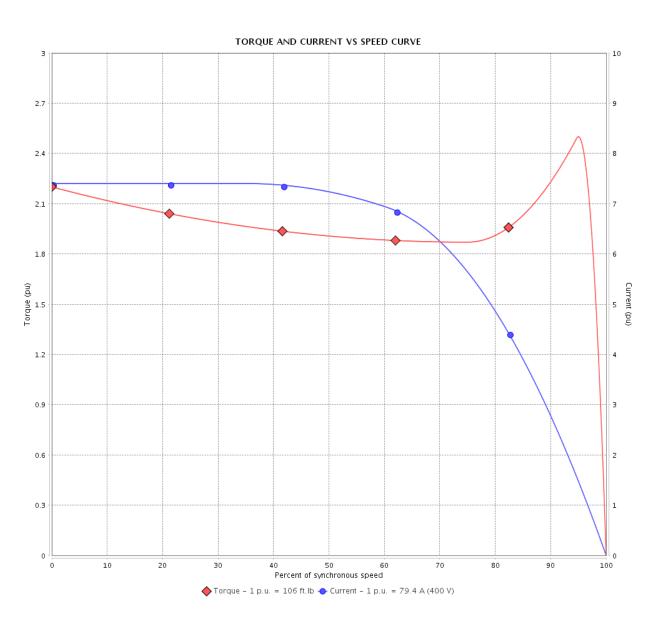
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270958

Catalog #: 07536OT3G364TS-W40



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 79.4 A	Moment of inertia (J)	: 6.40 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 106 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2963 rpm	Design	: B
	·		

Locked rotor time : 27s (cold) 15s (hot)

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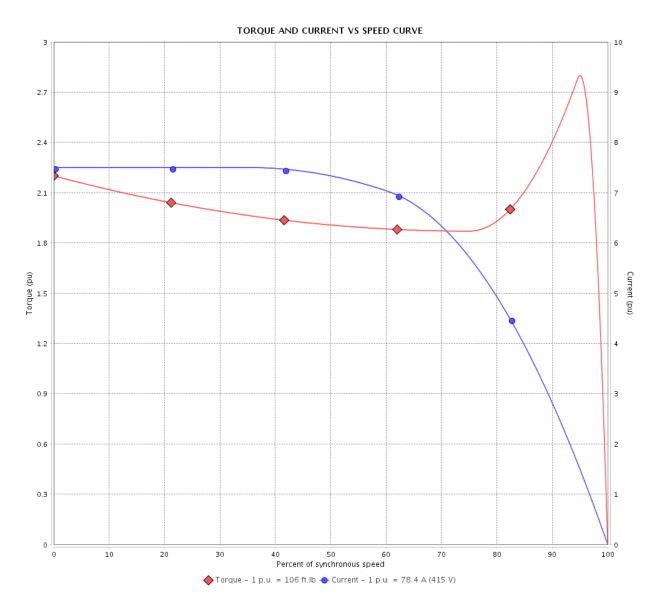


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14270958

Catalog #: 07536OT3G364TS-W40



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 78.4 A	Moment of inertia (J)	: 6.40 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 106 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2965 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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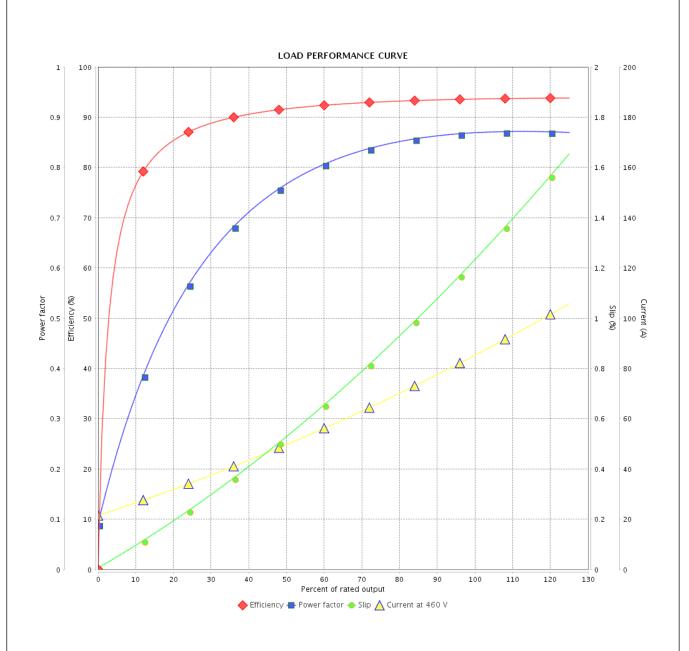
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Three-Phase

Product code: 14270958

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Performance	: 460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 84.8 A : 6.6 : 111 ft.lb : 200 % : 250 % : 3555 rpm	: 6.6 Duty cycle : Cont.(S1) : 111 ft.lb Insulation class : F : 200 % Service factor : 1.25 : 250 % Temperature rise : 80 K		
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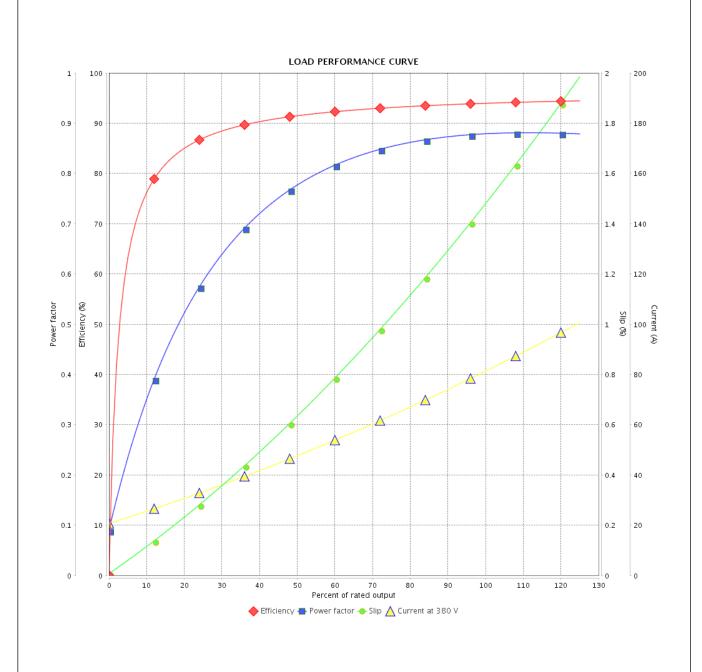


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14270958

Three-Phase

Catalog #: 07536OT3G364TS-W40



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 8:	: 82.7 A		Moment of inertia (J)		
LRC	: 7	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	29 %	Temperati	ure rise	: 80 K	
Rated speed	: 2	955 rpm	Design		: B	
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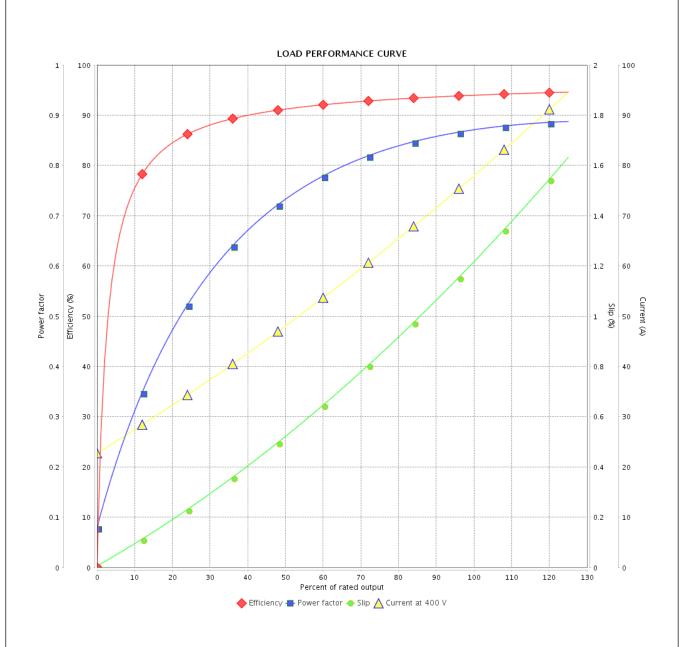
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Three-Phase

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 79.4 A : 7.4 : 106 ft.lb : 220 % : 250 % : 2963 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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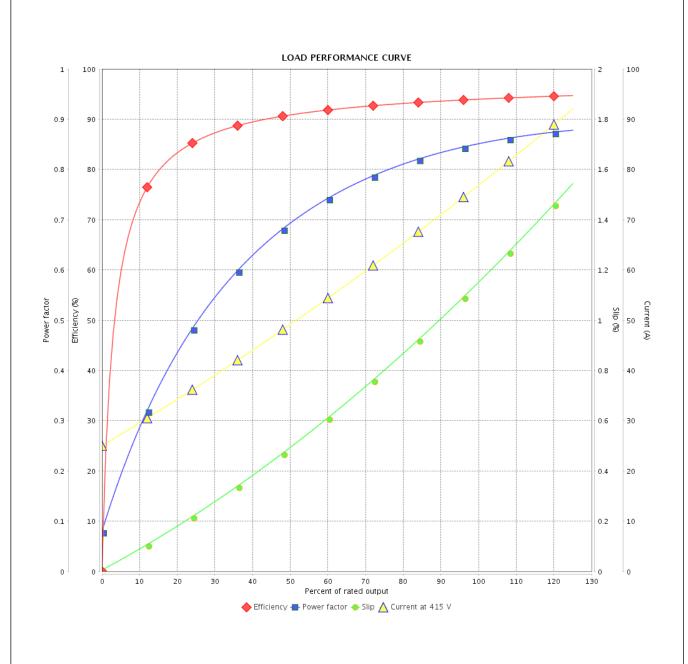


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14270958

Three-Phase

Catalog #: 07536OT3G364TS-W40



Performance	:	415 V 50 Hz 2P IE3				
Rated current	current : 78.4 A		Moment o	Moment of inertia (J)		
LRC	:	7.5	Duty cycle	}	: Cont.(S1)	
Rated torque	:	106 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	220 %	Service fa	ctor	: 1.00	
Breakdown torque	:	280 %	Temperature rise		: 80 K	
Rated speed	:	2965 rpm	Design		: B	
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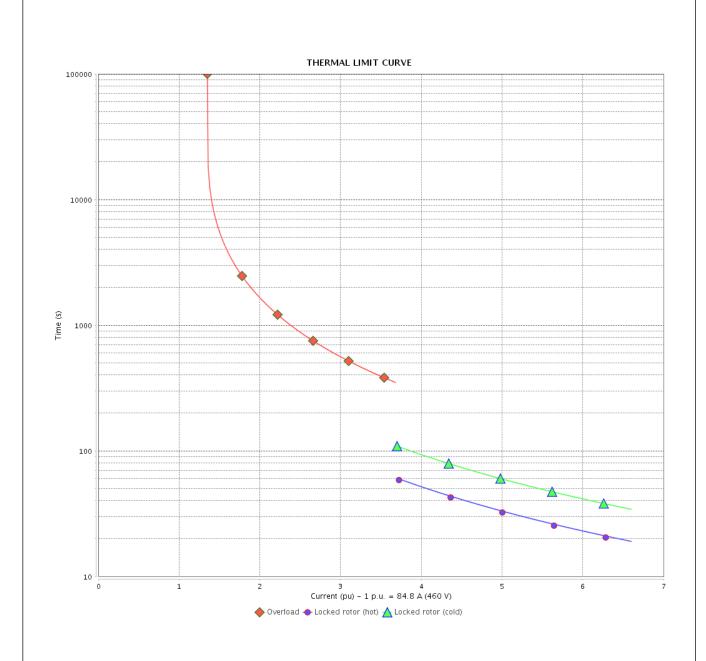


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Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14270958 07536OT3G3	64TS-W40
Performance		. 460 V 60 Uz 2D				
Rated current		: 460 V 60 Hz 2P : 84.8 A	Moment o	of inertia (J)	: 6.40 sq.ft.lb	
LRC		: 6.6	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		: 111 ft.lb : 200 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 250 %	Temperati		: 80 K	
Rated speed		: 3555 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summers		Performed	Checked	Date
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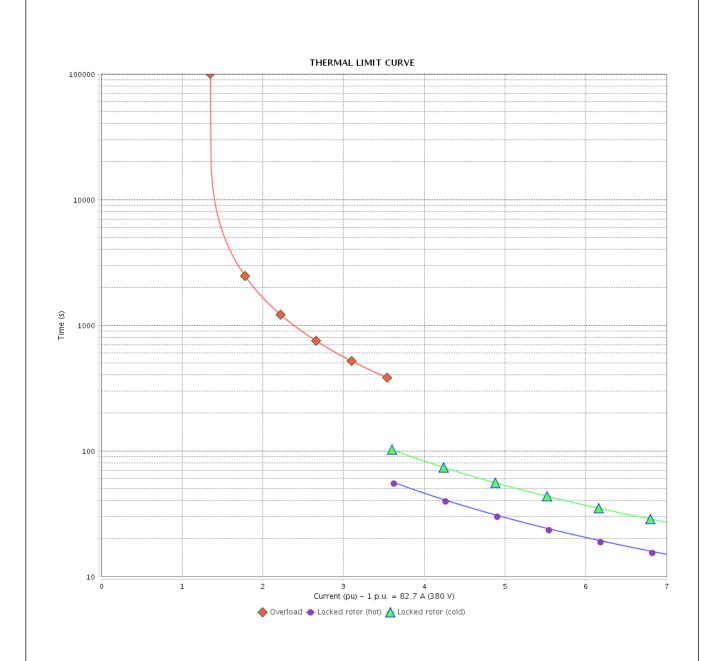


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	"	ilee-Filase	(Catalog # :	07536OT3G3	64TS-W40
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 82 : 7. : 10 ue : 19 e : 22	2.7 A	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant		,				
Cooling constant						
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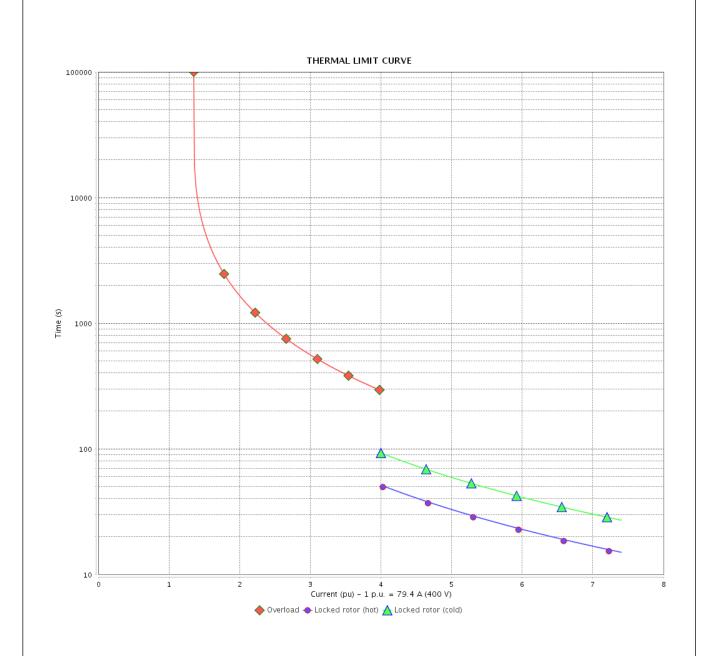


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Product line	:' T	W40 NEMA Premium Efficie hree-Phase		Product code : Catalog # :	14270958 07536OT3G30	64TS-W40
Performance		00 V 50 Hz 2P IE3				
Rated current LRC	: 7		Moment of Duty cycle		: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		06 ft.lb 20 %	Insulation Service fac		: F : 1.00	
Breakdown torqu		50 %	Temperatu		: 80 K	
Rated speed		963 rpm	Design		: B	
Heating constant						
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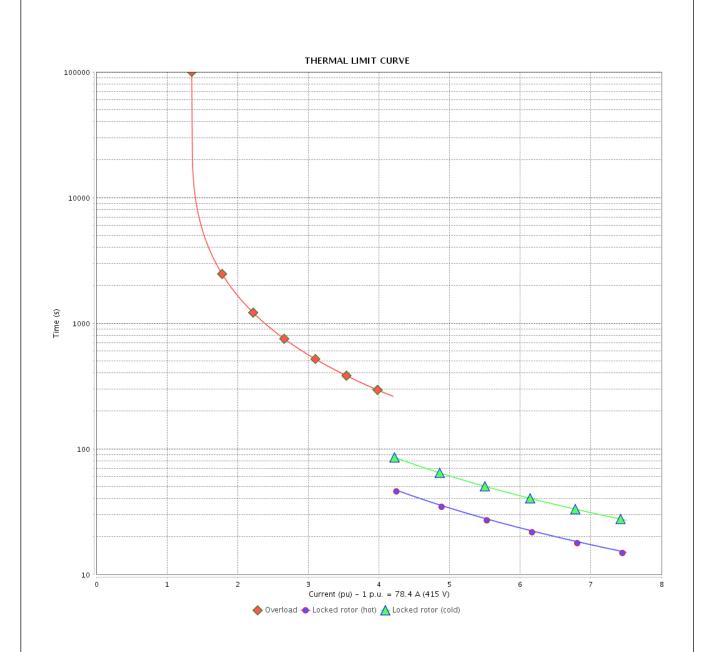


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14270958 07536OT3G3	64TS-W40
Performance		. AAE V 50 H- 0D I50				
Rated current		: 415 V 50 Hz 2P IE3 : 78.4 A	Moment o	of inertia (J)	: 6.40 sq.ft.lb	
LRC	:	: 7.5	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		: 106 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	: 280 %	Temperati		: 80 K	
Rated speed		: 2965 rpm	Design		: B	
Heating constant						
Cooling constant	<u>t</u>	Changes Commercial		Dorform	Chaskad	Data
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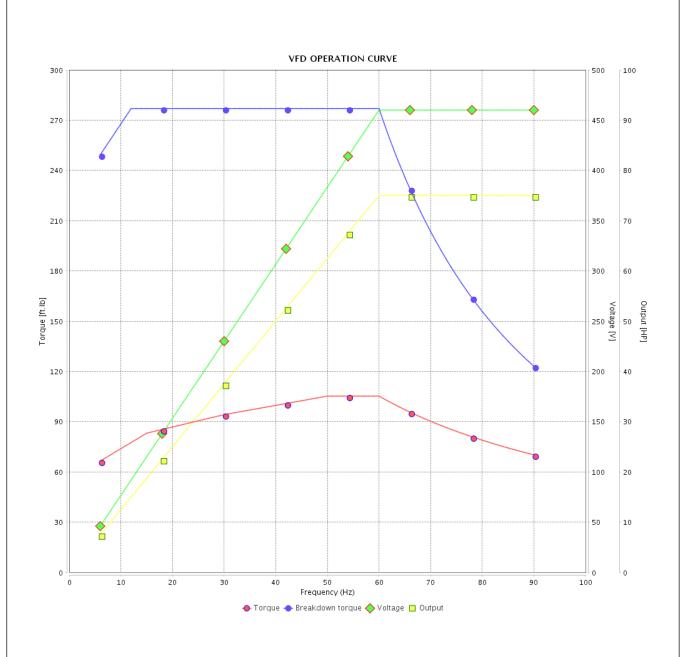
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270958

Catalog #: 07536OT3G364TS-W40



Performance	: 4	60 V 60 Hz 2P				
Rated current	: 8	: 84.8 A Moi		Moment of inertia (J)		
LRC	: 6	<u> </u>		;	: Cont.(S1)	
Rated torque	: 1	11 ft.lb	Insulation	class	: F	
Locked rotor torc	μe : 2	00 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie : 2	50 %	% Temperature rise		: 80 K	
Rated speed	: 3	555 rpm	Design		: B	
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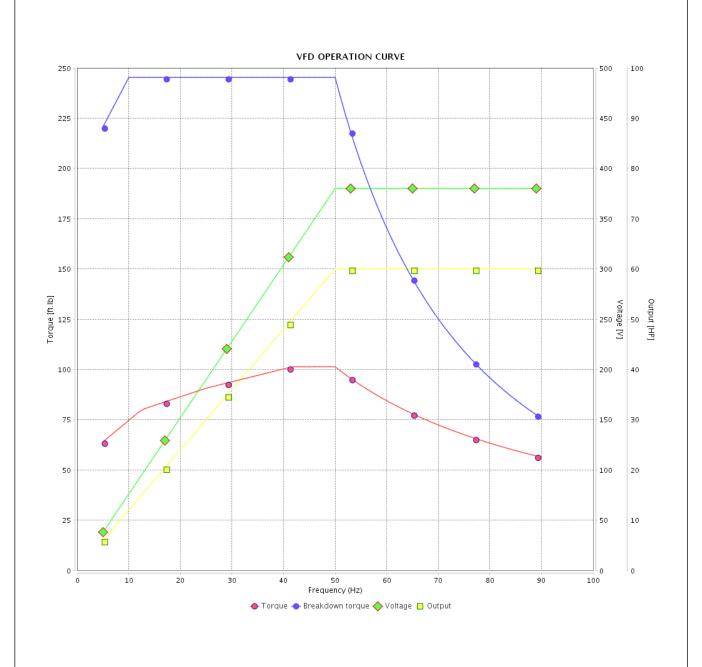
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roduct code: 14270958

Catalog #: 07536OT3G364TS-W40



Performance	: 3	: 380 V 50 Hz 2P IE3				
Rated current	: 82.7 A		Moment of	f inertia (J)	: 6.40 sq.ft.lb	
LRC	: 7.	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 10	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 19	90 %	Service fa	ctor	: 1.00	
Breakdown torque	·		: 80 K			
Rated speed	: 29	955 rpm	Design		: B	
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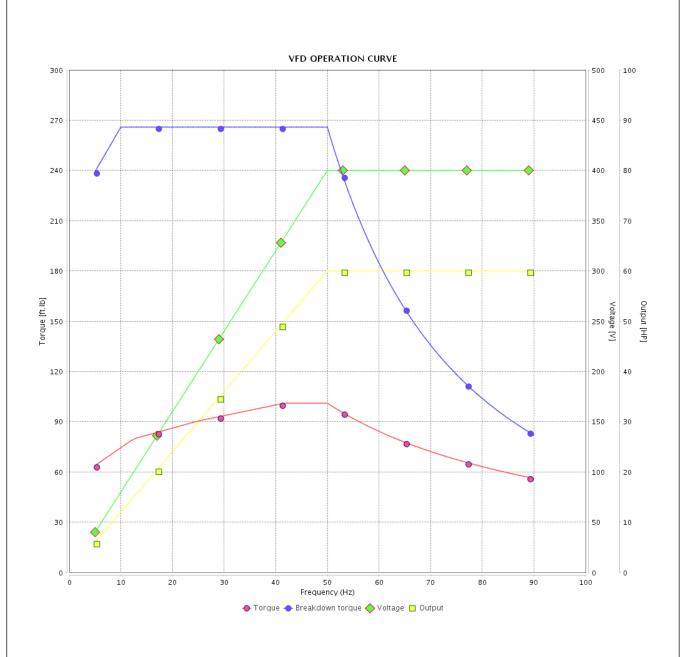
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270958

Catalog #: 07536OT3G364TS-W40

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Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 79.4 A : 7.4 : 106 ft.lb : 220 % : 250 % : 2963 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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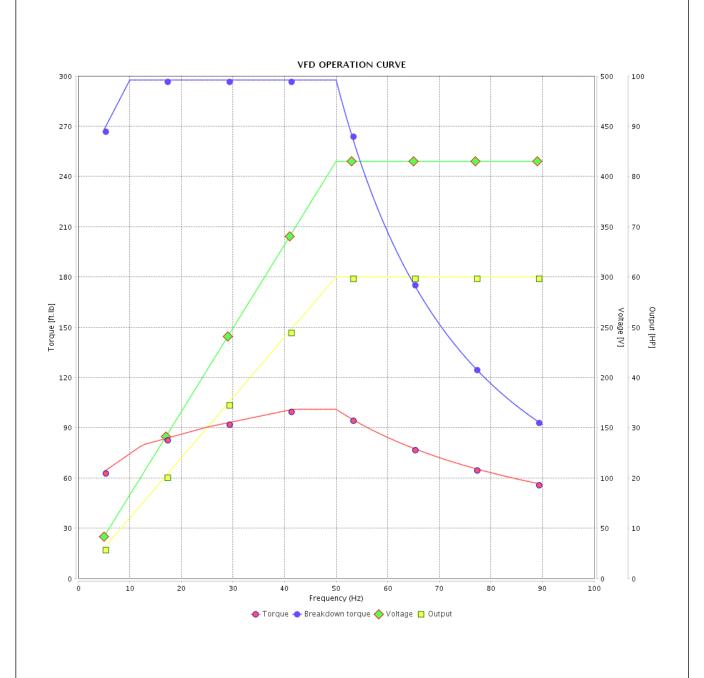
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Performance	:	415 V 50 Hz 2P IE3				
Rated current	lated current : 78.4 A		Moment o	Moment of inertia (J)		
LRC	:	7.5	Duty cycle	•	: Cont.(S1)	
Rated torque	:	106 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	220 %	Service fa	ctor	: 1.00	
Breakdown torqu	·		ure rise	: 80 K		
Rated speed	:	2965 rpm	Design		: B	
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