DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 01512OT3E284T-W40G

14501322

Frame : 284T Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 317 lb
Protection degree : IP23 Moment of inertia (J) : 4.80 sq.ft.lb

Protection degre	е	: IP23	Moment of inertia (J) : 4.80 sq.ft.lb		
Design		: B			
Output [HP]		15	10	10	10
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		36.8/18.4	15.8	15.4	15.4
L. R. Amperes [A]		232/116	115	116	122
LRC [A]		6.3x(Code G)	7.3x(Code J)	7.5x(Code K)	7.9x(Code K)
No load current [A]	15.6/7.80	7.80	8.40	8.90
Rated speed [RPN	/ []	1180	980	985	985
Slip [%]		1.67	2.00	1.50	1.50
Rated torque [ft.lb]	Rated torque [ft.lb]		53.6	53.6 53.3	
Locked rotor torque [%]		260	290	330	360
Breakdown torque	Breakdown torque [%]		320	350	380
Service factor		1.25	1.00		
Temperature rise		80 K	80 K	80 K 80 K	
Locked rotor time		28s (cold) 16s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)
Noise level ²		59.0 dB(A)			
	25%	90.8	88.3	88.4	88.4
Efficiency (%)	50%	91.0	88.6	88.6	88.6
Efficiency (%)	75%	91.7	89.0	89.0	89.0
	100%	91.7	89.1	89.1	89.1
	25%	0.42	0.37	0.33	0.31
Power Factor	50%	0.67	0.62	0.58	0.55
FOWEI FACIOI	75%	0.77	0.75	0.71	0.68
	100%	0.82	0.81	0.79	0.76

Bearing Seal Bearing Seal

Lubrication interval : 20000 h 20000 h

Lubrication interval:20000 h20000 hLubricant amount:18 g11 gLubricant type:Mobil Polyrex EM

Notes

USABLE @208V 40.7A SF 1.15 SFA 46.8A

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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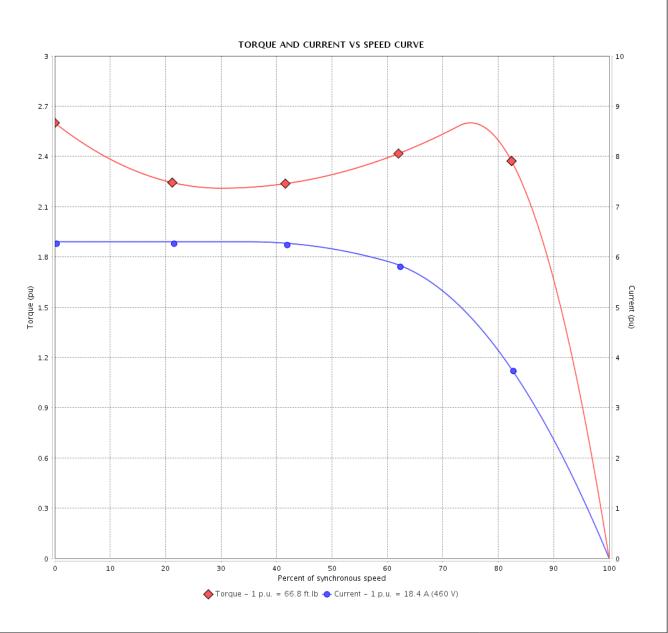
Customer :

Product line : W40 NEMA Premium Efficiency Produ

Three-Phase

Product code: 14501322

Catalog #: 01512OT3E284T-W40G



Performance : 230/460 V 60 Hz 6P Rated current : 36.8/18.4 A Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 66.8 ft.lb : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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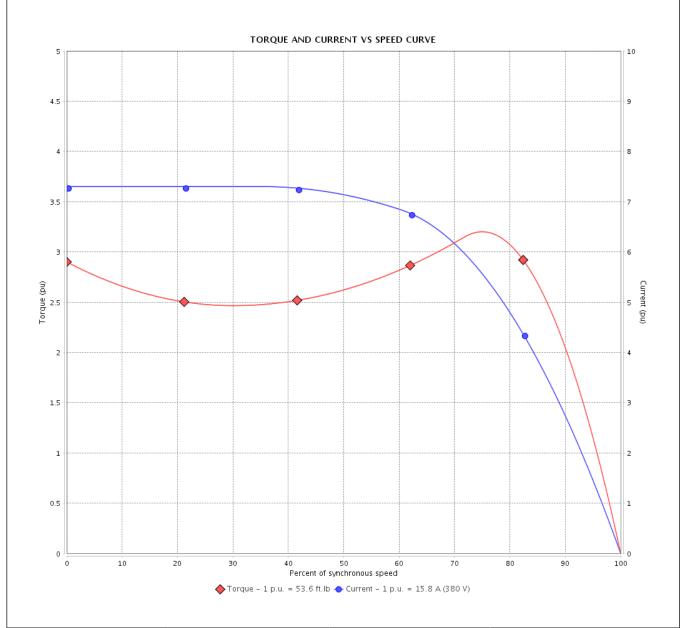
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14501322

01512OT3E284T-W40G Catalog #:



Performance	: 380 V 50 Hz 6P IE3		
Rated current	: 15.8 A	Moment of inertia (J)	: 4.80 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 53.6 ft.lb	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B
Locked roter time	: 32s (sold) 18s (hot)		

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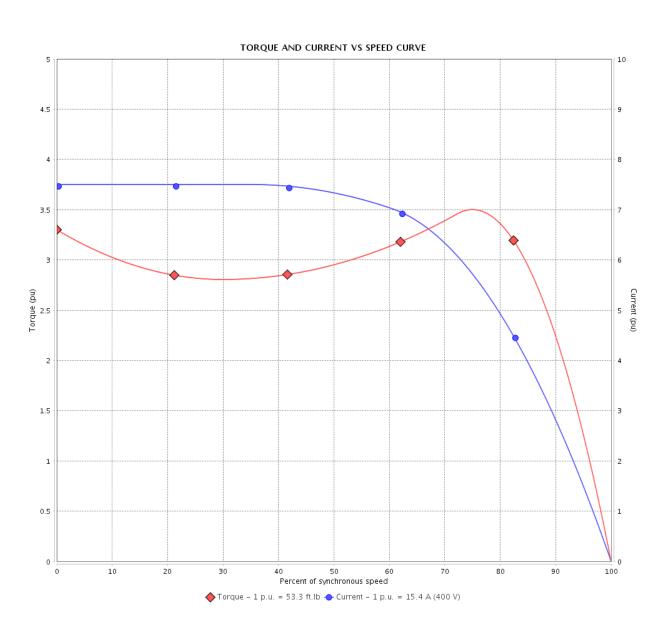


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14501322

Three-Phase

Catalog #: 01512OT3E284T-W40G



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 15.4 A	Moment of inertia (J)	: 4.80 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation class	:F	
Locked rotor torque	: 330 %	Service factor	: 1.00	
Breakdown torque	: 350 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)			

Locked rotor time : 32s (cold) 18s (hot)

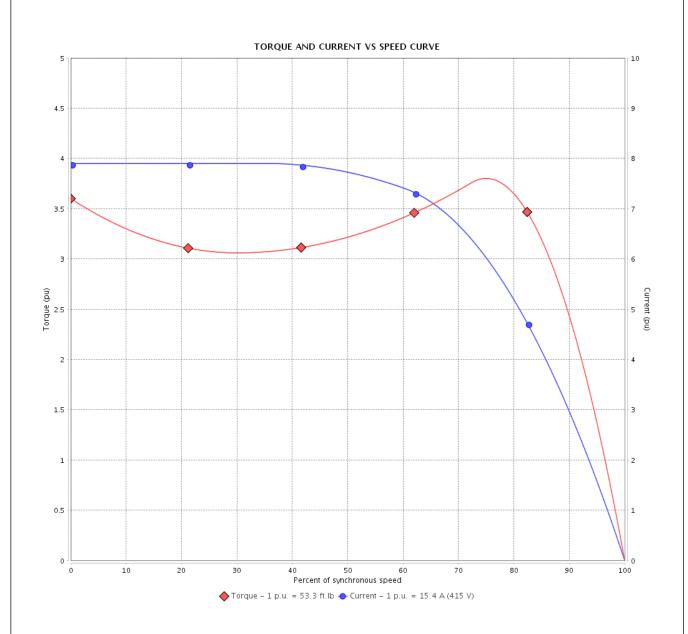
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Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase : W40 NEMA Premium Efficiency Catalog # : 01512OT3E284T-W40G



Performance : 415 V 50 Hz 6P IE3 Rated current : 15.4 A Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.3 ft.lb : F : 360 % Locked rotor torque Service factor : 1.00 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 28s (cold) 16s (hot)

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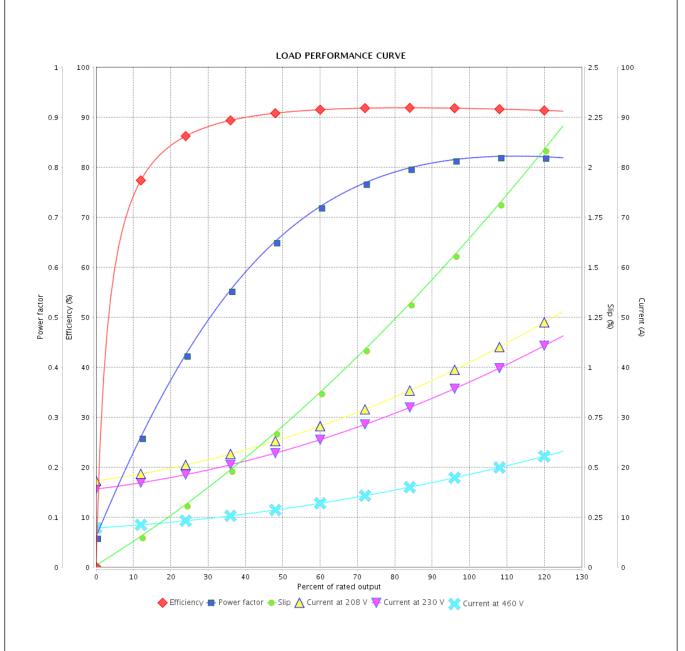
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Three-Phase

Product code: 14501322

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Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.8/18.4 A : 6.3 : 66.8 ft.lb : 260 % : 260 % : 1180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.80 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Checked by

Date

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Product line : W40 NEMA Premium Efficiency Product code : 14501322

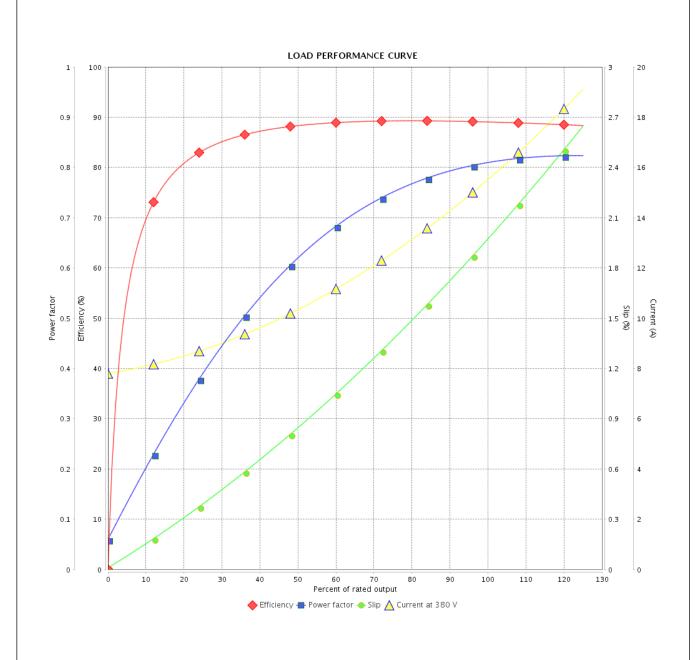
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Performance	: 380 V 50 Hz 6P I	E2			
renomance	. 300 V 30 HZ 0F I	<u> </u>			
Rated current	: 15.8 A	Moment of in	ertia (J)	: 4.80 sq.ft.lb	
LRC	: 7.3	Duty cycle		: Cont.(S1)	
Rated torque : 53.6 ft.lb		Insulation cla	ISS	: F	
Locked rotor torque : 290 %		Service factor	Service factor : 1.00		
Breakdown torque : 320 %		Temperature	Temperature rise : 80 K		
Rated speed	: 980 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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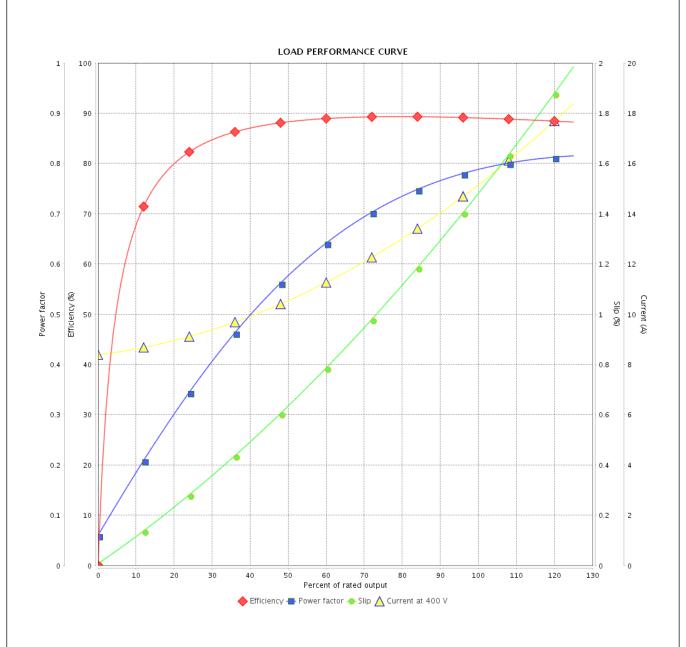
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501322

Catalog #: 01512OT3E284T-W40G



Performance : 400 V 50 Hz 6P IE3 : 15.4 A Rated current Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : 53.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 330 % Service factor : 1.00 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Rev. Performed Checked Date **Changes Summary**

Three Phase Induction Motor - Squirrel Cage



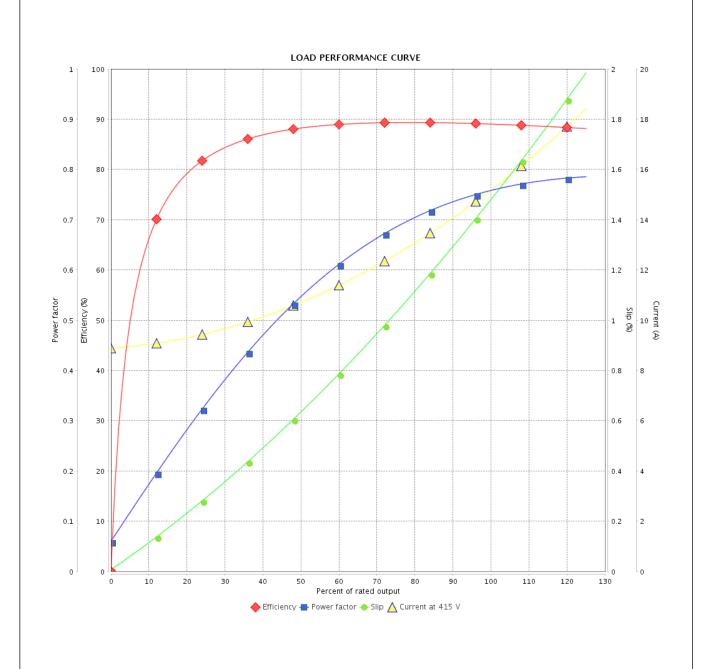
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 01512OT3E284T-W40G

14501322



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 15	5.4 A	Moment o	Moment of inertia (J)		
LRC	: 7.	9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 53	3.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 36	80 %	Service fa	ctor	: 1.00	
Breakdown torque		30 %	Temperature rise		: 80 K	
Rated speed	: 98	35 rpm	Design		: B	
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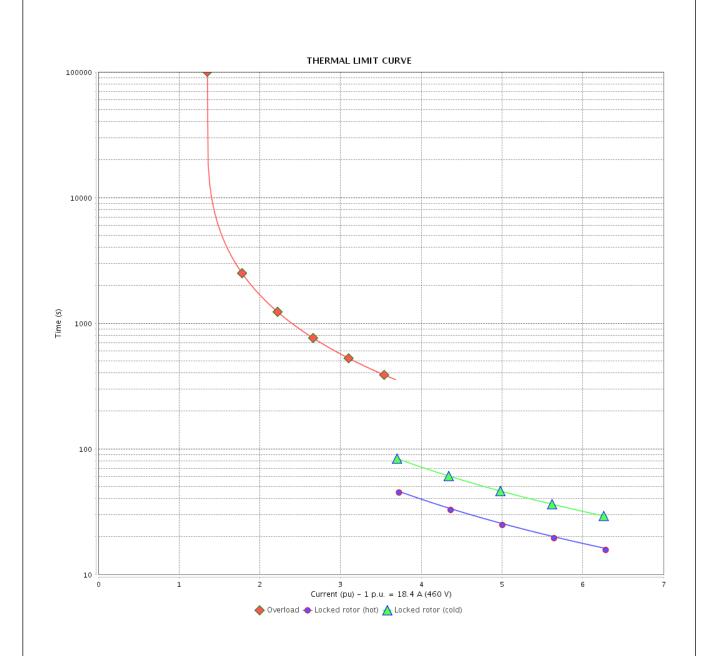


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Customer	:					
Product line	: \ Tr	N40 NEMA Premium Efficie nree-Phase	ency F	Product code :	14501322	
	''	iice-i iiase	(Catalog # :	01512OT3E2	84T-W40G
Performance		80/460 V 60 Hz 6P	Momont of	finartic (1)	. 4 90 oz # lb	
Rated current LRC	: 36 : 6.	3.8/18.4 A 3	Moment of Duty cycle	r inerτia (J)	: 4.80 sq.ft.lb : Cont.(S1)	
Rated torque	: 66	6.8 ft.lb	Insulation	class	: F	
Locked rotor torq		60 %	Service fac		: 1.25	
Breakdown torqu Rated speed		80 % 80 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant			-			
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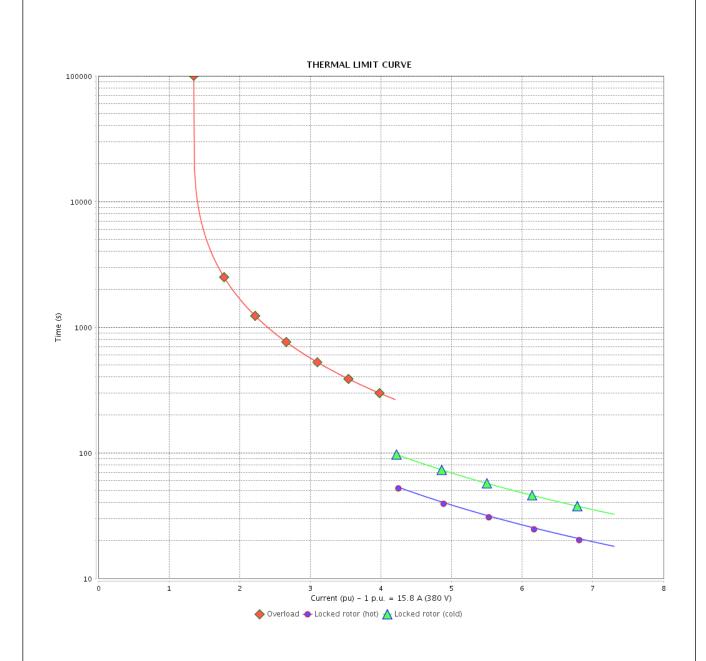


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14501322 01512OT3E28	34T-W40G
Performance		380 V 50 Hz 6P IE3 15.8 A	Moment -	finartic (I)	. 4 90 00 # 15	
Rated current LRC	:	7.3	Duty cycle		: 4.80 sq.ft.lb : Cont.(S1)	
Rated torque		53.6 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		290 % 320 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		980 rpm	Design		: B	
Heating constant						
Cooling constant	τ	Changes Cummer:		Dorform	Charles	Doto
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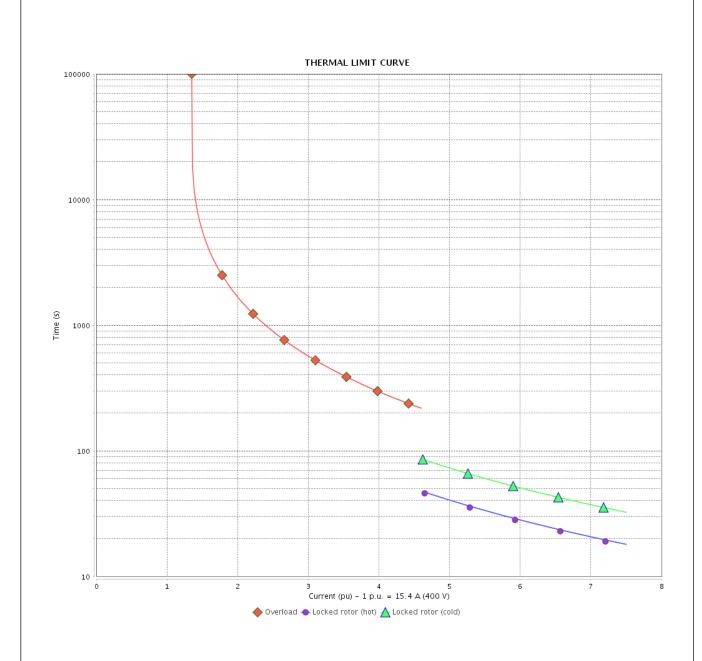


Customer	:				
Product line	: W40 NEMA Premium Effici Three-Phase	ency Prod	uct code :	14501322	
	THIEE-FHASE	Cata	log # :	01512OT3E284	1T-W40G
Performance	: 400 V 50 Hz 6P IE3	Moment of in	tio (I)	· 4 90 55 ft lb	
Rated current LRC	: 15.4 A : 7.5	Moment of iner Duty cycle	тıа (J)	: 4.80 sq.ft.lb : Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation class	3	: F	
Locked rotor torque	: 330 %	Service factor		: 1.00	
Breakdown torque Rated speed	: 350 % : 985 rpm	Temperature ris		: 80 K : B	
Heating constant					
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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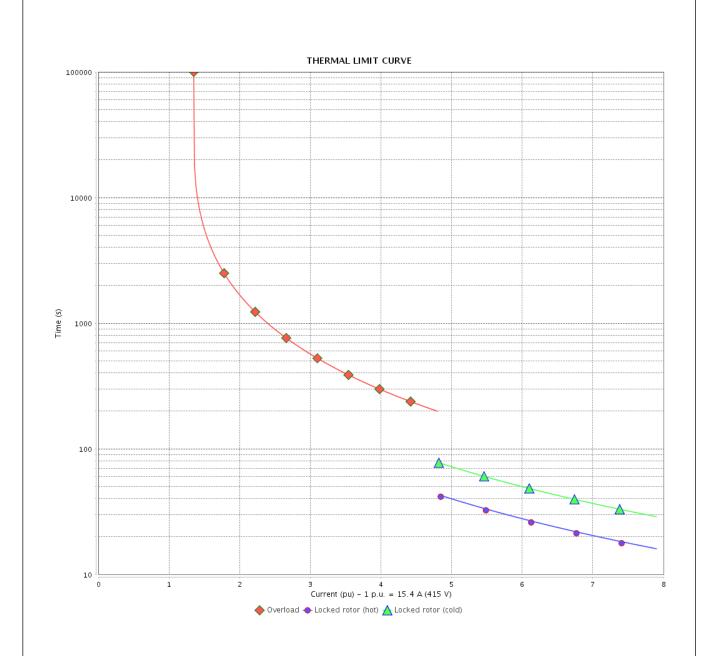


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Product line		W40 NEMA Premium Efficion hree-Phase	ency I	Product code :	14501322	
	''	illee-Filase	(Catalog # :	01512OT3E28	34T-W40G
Performance		15 V 50 Hz 6P IE3				
Rated current LRC	: 15 : 7.	5.4 A .9	Moment of Duty cycle	f inertia (J)	: 4.80 sq.ft.lb : Cont.(S1)	
Rated torque	: 50	3.3 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		60 % 80 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		85 rpm	Design		: B	
Heating constant						
Cooling constant		Change O		Derf 1	Ohl !	D-4-
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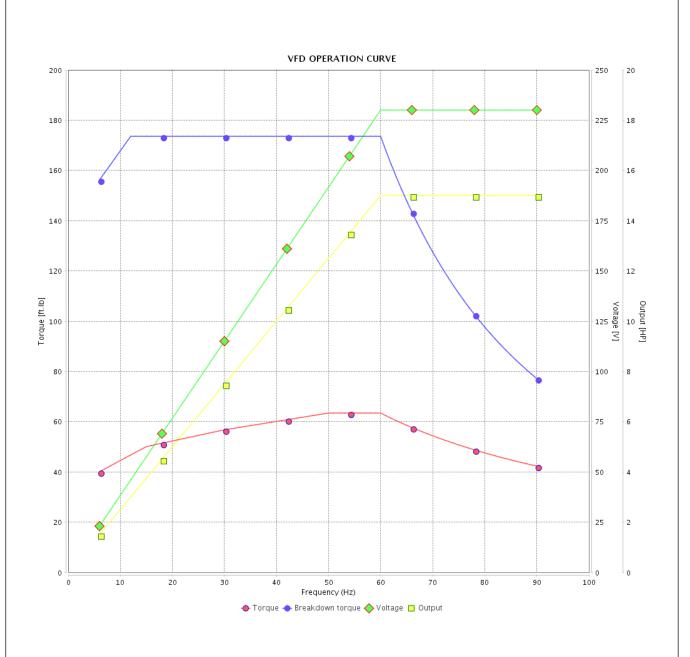
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501322

Catalog #: 01512OT3E284T-W40G

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Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.8/18.4 A : 6.3 : 66.8 ft.lb : 260 % : 260 % : 1180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.80 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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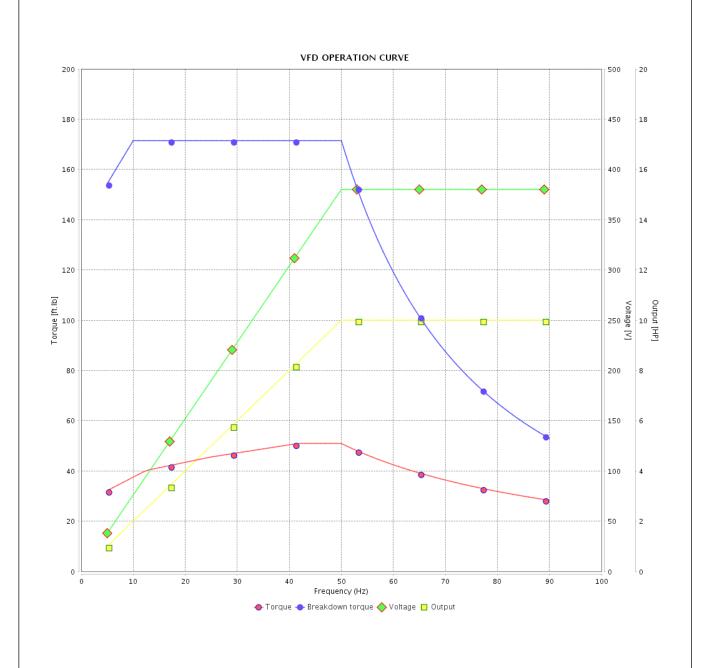
Customer

Product line : W40 NEMA Premium Efficiency Produ

Three-Phase

Product code: 14501322

Catalog #: 01512OT3E284T-W40G



Performance	: 3	: 380 V 50 Hz 6P IE3				
Rated current	: 15.8 A		Moment o	Moment of inertia (J)		
LRC	: 7	.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	3.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	20 %	Temperature rise		: 80 K	
Rated speed	: 9	80 rpm	l :		: B	
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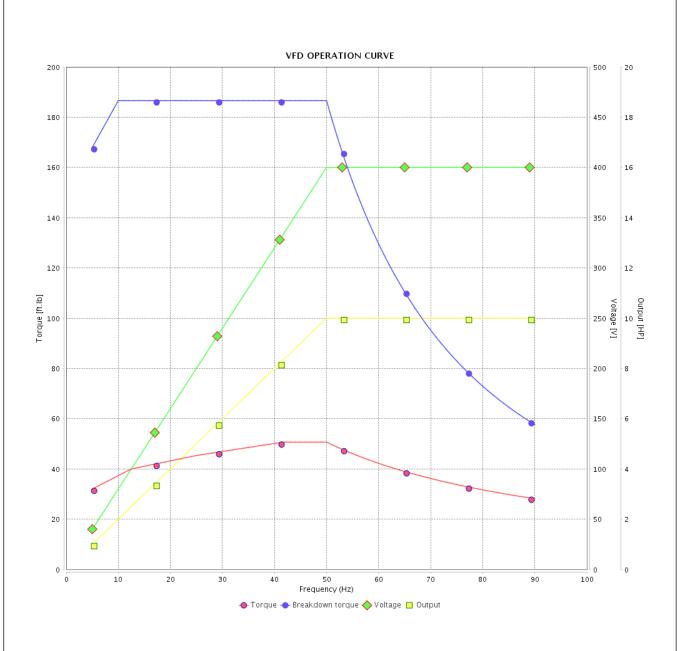
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501322

Catalog #: 01512OT3E284T-W40G

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.4 A : 7.5 : 53.3 ft.lb : 330 % : 350 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.80 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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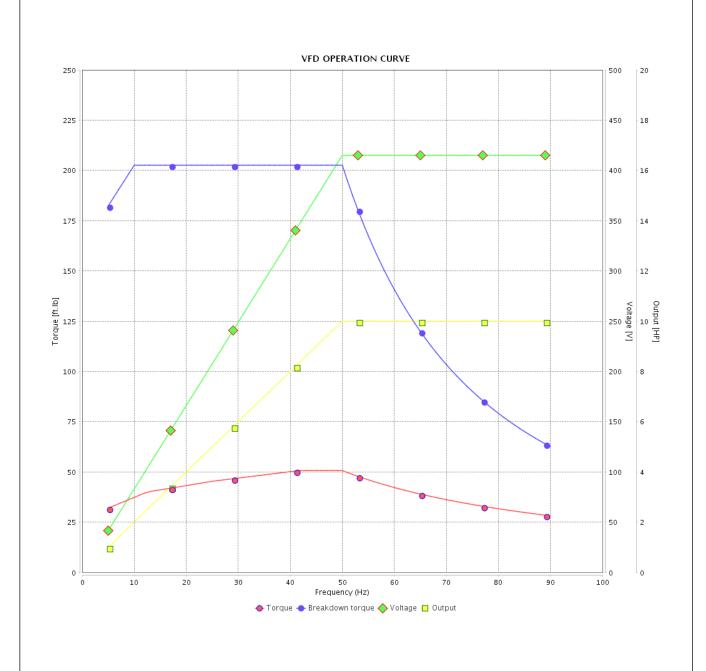
Customer

Product line : W40 NEMA Premium Efficiency Pro

Three-Phase

Product code: 14501322

Catalog #: 01512OT3E284T-W40G



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 1	5.4 A	Moment o	Moment of inertia (J)		
LRC	: 7	. .9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	3.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 3	60 %	Service fa	ctor	: 1.00	
Breakdown torque		880 %	Temperature rise		: 80 K	
Rated speed	: 9	185 rpm	Design		: B	
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