DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14495149

Three-Phase

Catalog #: 02518OT3E284TS-W40

Frame : 284TS 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 : 350 lb

Protection degree : IP23 Moment of inertia (J) : 3.71 sq.ft.lb

Protection degree		: IP23	Moment of Ine	enia (J) : 3.71	sq.π.ib
Design		: B			
Output [HP] 25		25	20	20	20
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		59.0/29.5	29.5	28.7	28.0
L. R. Amperes [A]		372/186	171	192	190
LRC [A]		6.3x(Code G)	5.8x(Code G)	6.7x(Code H)	6.8x(Code J)
No load current [A]		22.0/11.0	10.0	11.0	12.0
Rated speed [RPM]	1765	1465	1470	1475
Slip [%]		1.94	2.33	2.00	1.67
Rated torque [ft.lb]		74.2	71.4	71.2	71.2
Locked rotor torque	e [%]	250	229	250	270
Breakdown torque	[%]	270	250	290	300
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		64s (cold) 36s (hot)	70s (cold) 39s (hot)	64s (cold) 36s (hot)	61s (cold) 34s (hot)
Noise level ²		64.0 dB(A)			
	25%	92.8	91.5	91.5	91.5
Efficiency (%)	50%	93.0	91.7	91.7	91.7
Linciency (70)	75%	93.6	92.1	92.1	92.1
	100%	93.6	92.1	92.1	92.1
	25%	0.45	0.46	0.42	0.38
Power Factor	50%	0.69	0.69	0.65	0.62
I OWELL ACTOL	75%	0.80	0.79	0.77	0.74
	100%	0.84	0.84	0.82	0.81

Bearing type Drive end Son drive end Four Bearing type : 6311 Z C3 6211 Z C3 Ma

Without Without Bearing Seal

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

Foundation loads Max. traction Max. compression

Notes

Sealing

USABLE @208V 65.2A SF 1.15 SFA 75.0A

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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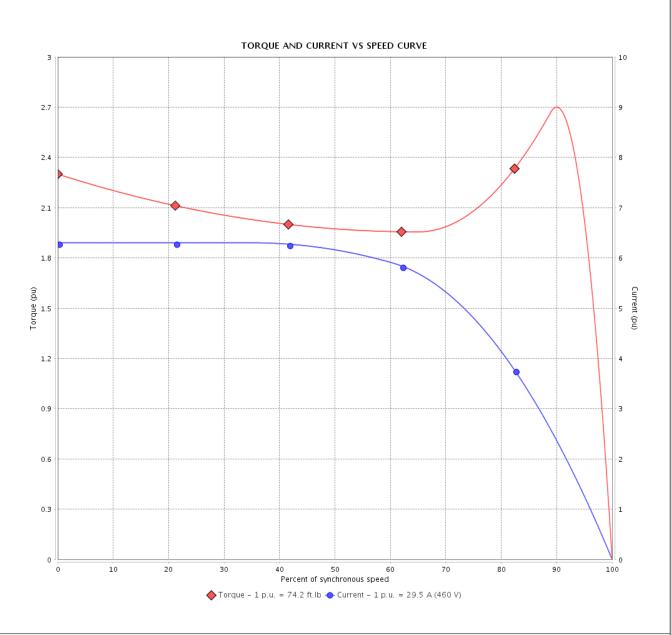
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495149

Catalog #: 02518OT3E284TS-W40



Performance : 230/460 V 60 Hz 4P Rated current : 59.0/29.5 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

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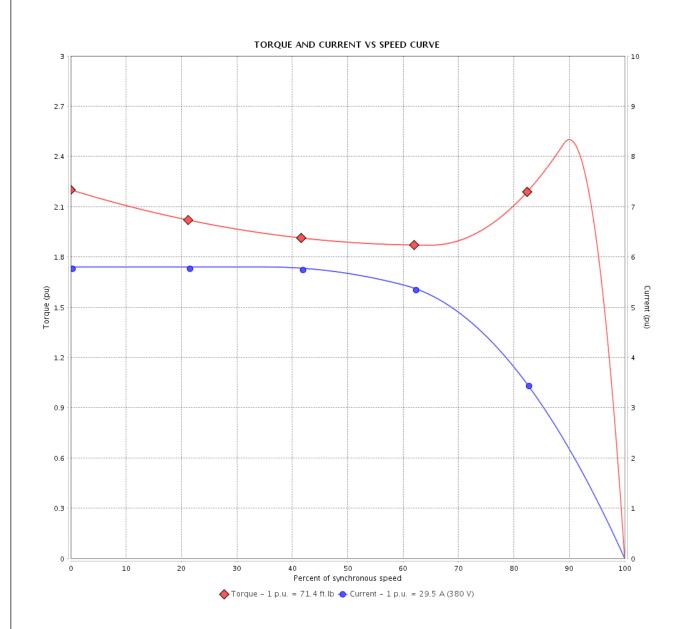
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Customer

Product line : W40 NEMA Premium Efficiency Product code: 14495149

Catalog #: 02518OT3E284TS-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 29.5 A	Moment of inertia (J)	: 3.71 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 71.4 ft.lb	Insulation class	:F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: B	
Locked rotor time	: 70s (cold) 39s (hot)			

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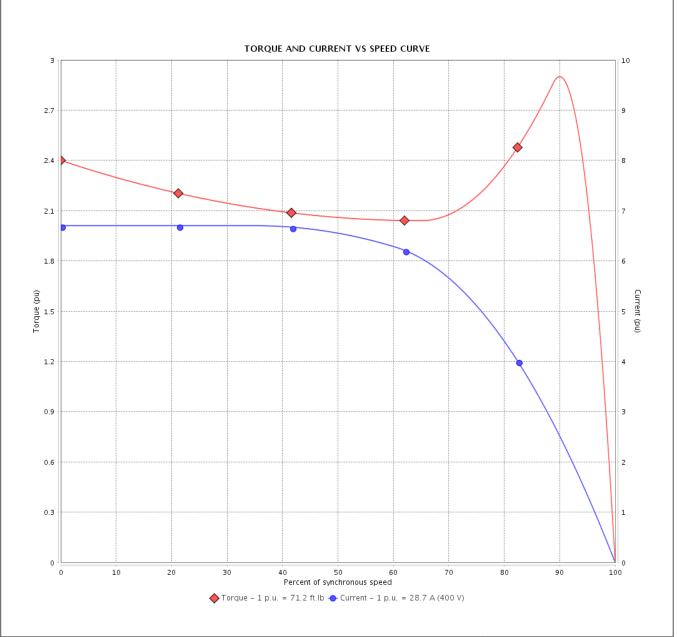
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495149

Catalog #: 02518OT3E284TS-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 28.7 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 71.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Locked rotor time : 64s (cold) 36s (hot)

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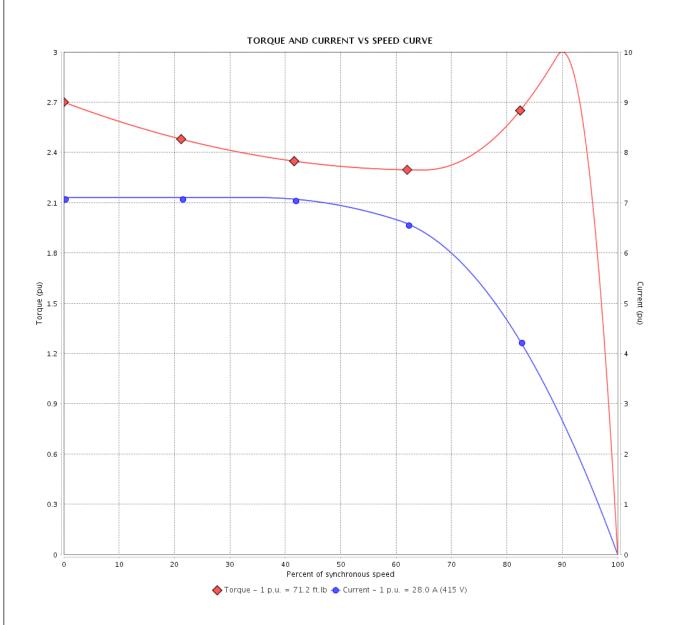


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14495149

Catalog #: 02518OT3E284TS-W40



Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 28.0 A	Moment of inertia (J)	: 3.71 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 71.2 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B
Locked rotor time	: 61s (cold) 34s (hot)		

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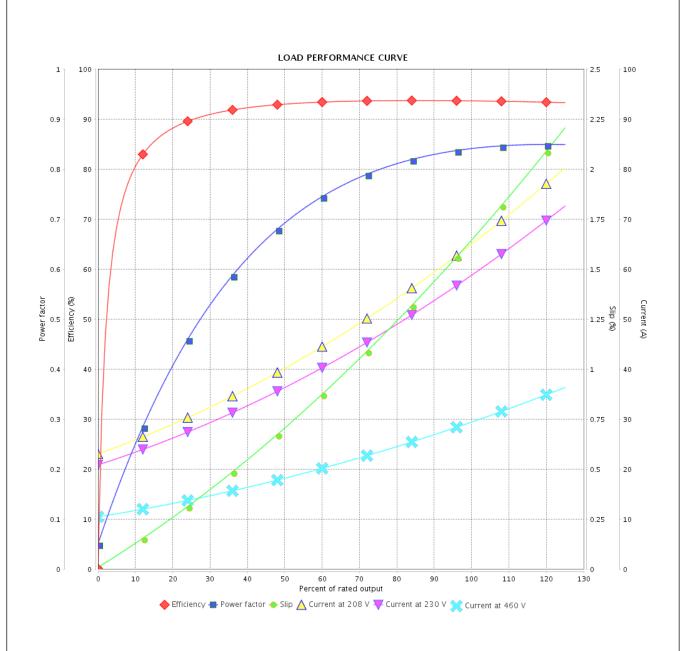
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495149

Catalog #: 02518OT3E284TS-W40

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Performance	: 23	: 230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 74 que : 25 ue : 27	9.0/29.5 A 3 4.2 ft.lb 50 % 70 % 765 rpm	1		: 1.25 : 80 K			
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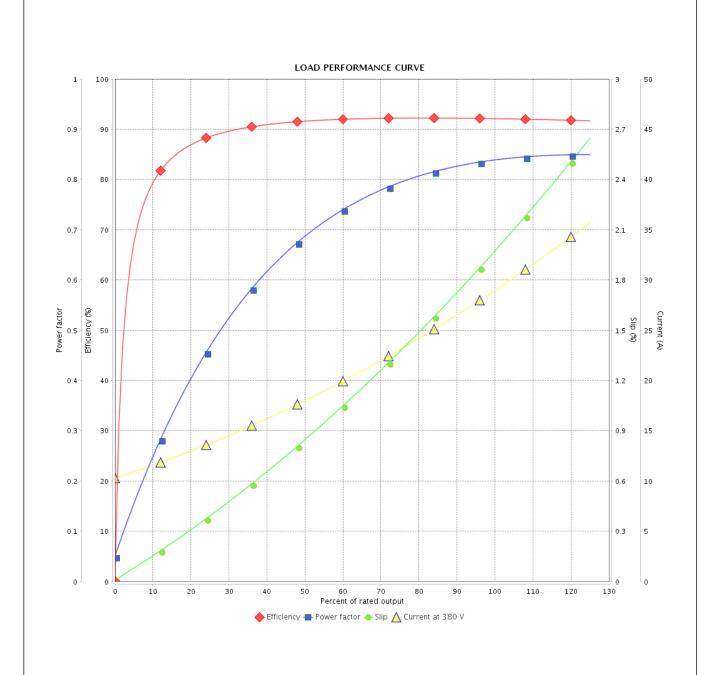
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14495149

Three-Phase

Catalog #: 02518OT3E284TS-W40

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 29.5 A	Moment o	f inertia (J)	: 3.71 sq.ft.lb	
LRC	: 5.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 71.4 ft.lb	Insulation	class	: F	
Locked rotor torque	: 229 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 250 %			: 80 K	
Rated speed	: 1465 rpm	Design		: B	
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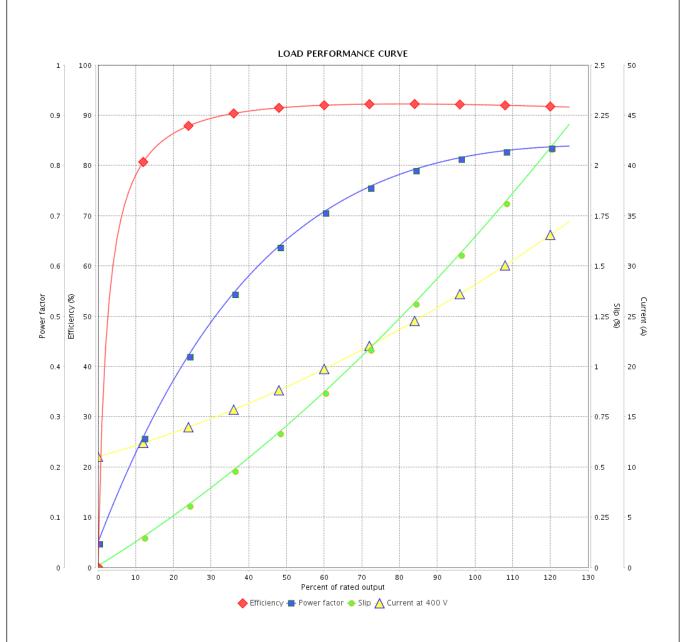
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Three-Phase

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Performance : 400 V 50 Hz 4P IE3 Rated current : 28.7 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.7 : 71.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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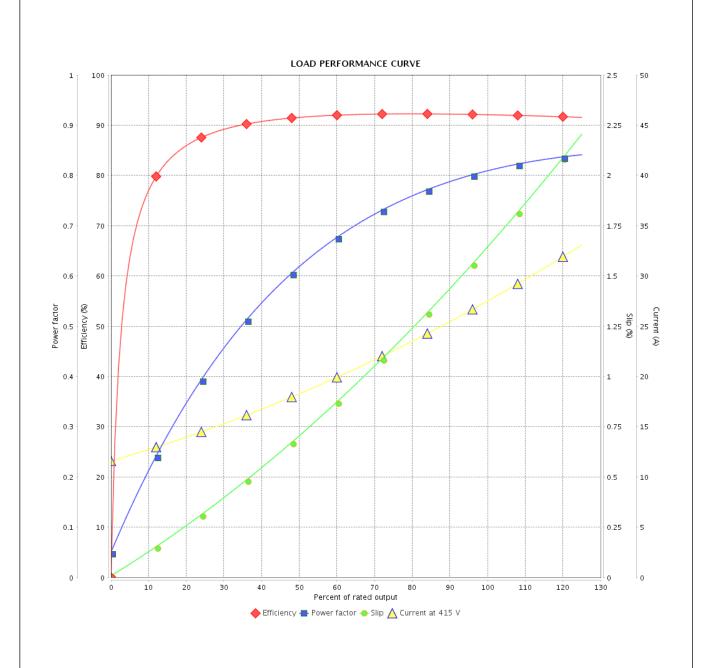
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14495149

Three-Phase

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.0 A : 6.8 : 71.2 ft.lb : 270 % : 300 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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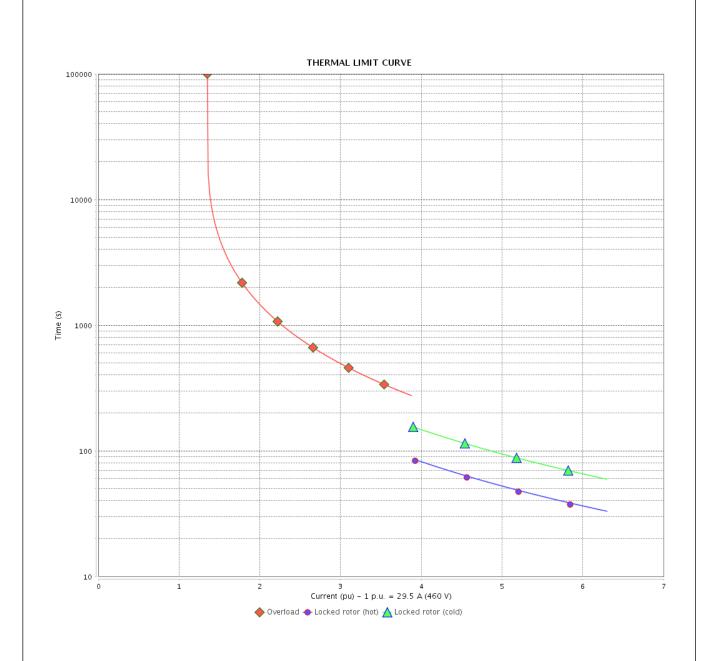


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14495149 02518OT3E28	34TS-W40
Performance		230/460 V 60 Hz 4P				
Rated current LRC	:	59.0/29.5 A 6.3	Duty cycle		: 3.71 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		74.2 ft.lb 250 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		270 %	Temperatu		: 80 K	
Rated speed	:	1765 rpm	Design		: B	
Heating constant Cooling constant						
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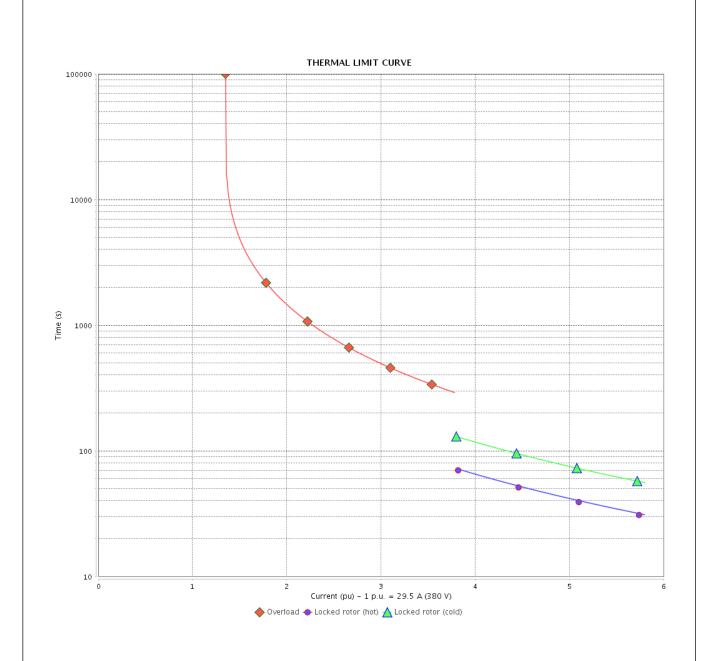


Customer	:				
Product line	: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14495149 02518OT3E2	84TS-W40
Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 29.5 A	Moment o	f inertia (J)	: 3.71 sq.ft.lb	
LRC Rated torque	: 5.8 : 71.4 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 250 % : 1465 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant	r ··				
Cooling constant					
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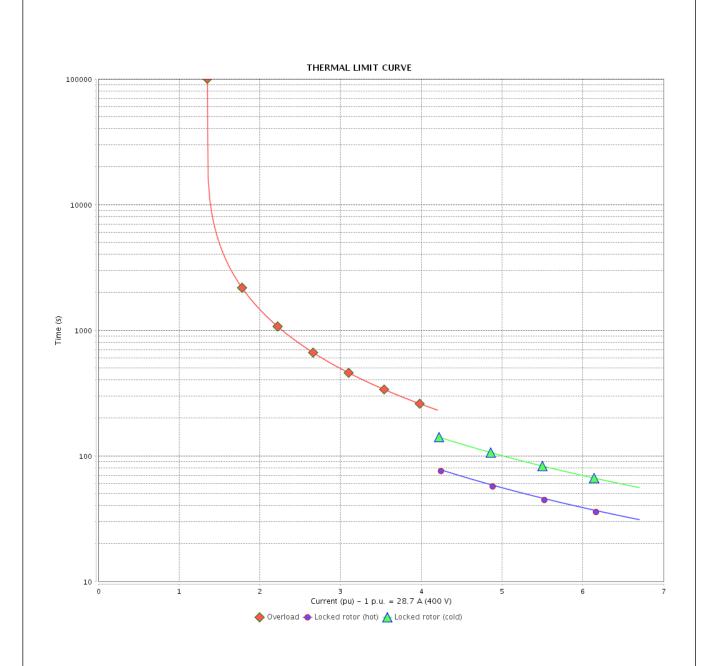


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14495149 02518OT3E28	34TS-W40
Performance		400 V 50 Hz 4P IE3				
Rated current LRC	:	28.7 A 6.7	Duty cycle		: 3.71 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord Breakdown torqu Rated speed	que : ue :	71.2 ft.lb 250 % 290 % 1470 rpm	Insulation Service fa Temperati Design	ctor	: F : 1.00 : 80 K : B	
Heating constant	t		-			
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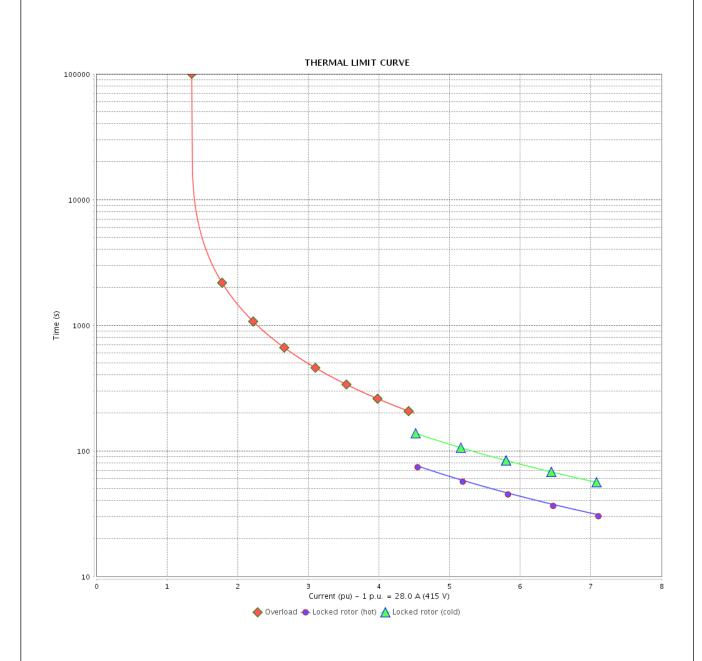


Customer	:				
Product line	: W40 NEMA Premium Effici Three-Phase		roduct code :	14495149 02518OT3E2	84TS-W40
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC	: 28.0 A : 6.8	Moment of i Duty cycle	nertia (J)	: 3.71 sq.ft.lb : Cont.(S1)	
Rated torque	: 71.2 ft.lb	Insulation cl		: F	
Locked rotor torque Breakdown torque	: 270 % : 300 %	Service fact Temperature		: 1.00 : 80 K	
Rated speed	: 1475 rpm	Design	. 1130	: B	
Heating constant					
Cooling constant			-	1	
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Product line : W40 NEMA Premium Efficiency

Three-Phase

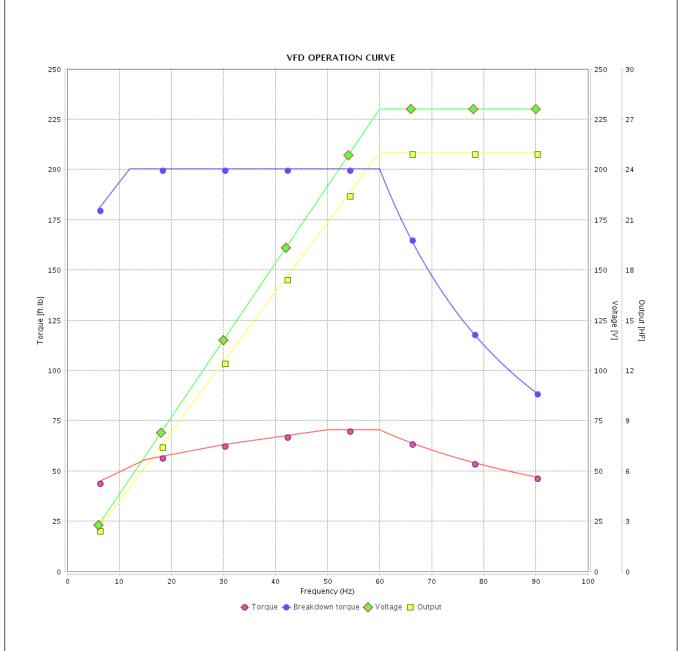
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Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 74 ue : 2! e : 2	9.0/29.5 A .3 4.2 ft.lb 50 % 70 % 765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.71 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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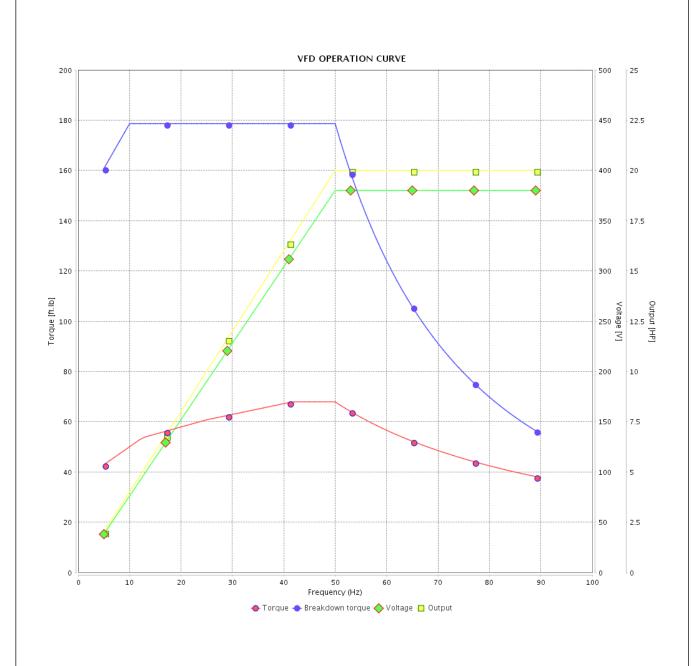
Customer

Product line : W40 NEMA Premium Efficiency F

Three-Phase

Product code: 14495149

Catalog #: 02518OT3E284TS-W40



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 2	9.5 A Moment of ir		of inertia (J) : 3.71 sq.ft.lb		
LRC	: 5	.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	1.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	29 %	Service fa	ctor	: 1.00	
Breakdown torque : 250 %		50 %	Temperature rise		: 80 K	
Rated speed		465 rpm	Design		: B	
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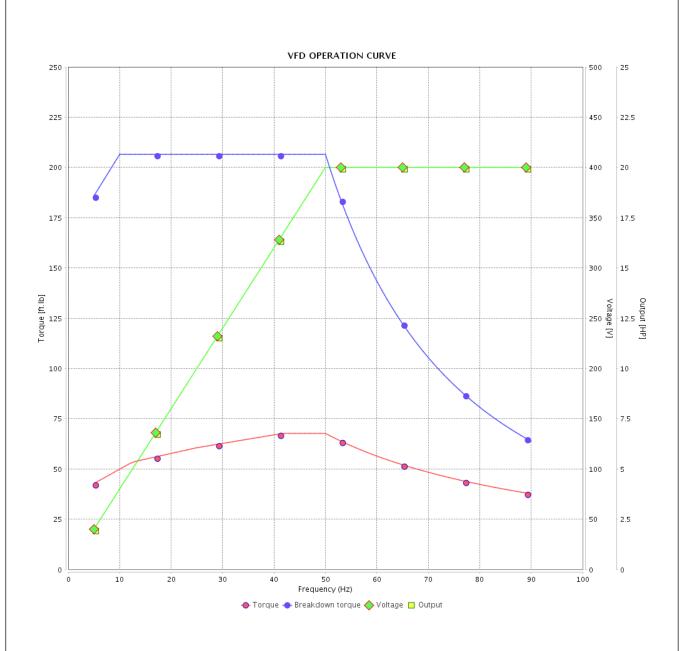
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495149

Catalog #: 02518OT3E284TS-W40

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.7 A : 6.7 : 71.2 ft.lb : 250 % : 290 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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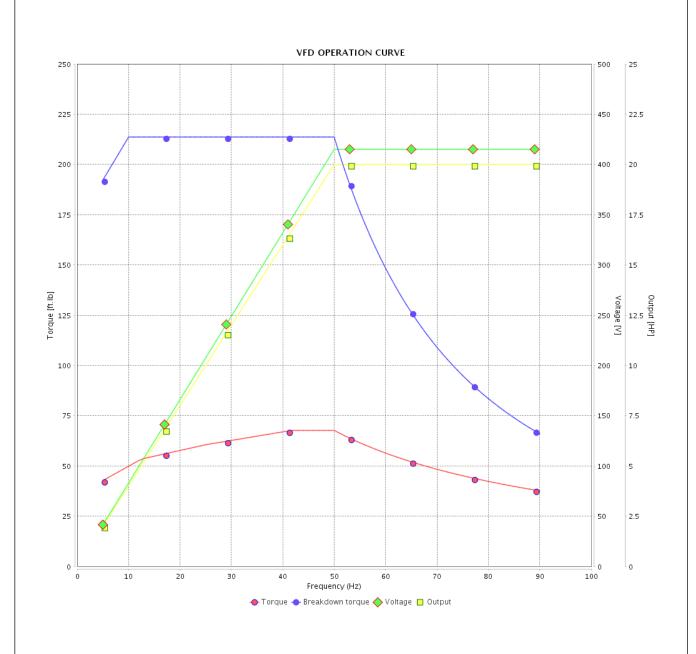
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code : 14495149

Catalog #: 02518OT3E284TS-W40



Performance : 415 V 50 Hz 4P IE3 : 28.0 A Rated current Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 71.2 ft.lb Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

