DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14495934

Three-Phase

Catalog #: 03036OT3E284TSC-W40

Frame : 284TSC 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 : 310 lb

Protection degree : IP23 Moment of inertia (J) : 1.59 sq.ft.lb

Protection degree	е	: IP23	Moment of ine	ertia (J) : 1.59	sq.ft.lb
Design		: B			
Output [HP]		30	25	25	25
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		70.0/35.0	35.0	34.0	33.6
L. R. Amperes [A]		441/221	231	238	225
LRC [A]		6.3x(Code G)	6.6x(Code G)	7.0x(Code H)	6.7x(Code H)
No load current [A]]	25.8/12.9	11.0	13.0	14.0
Rated speed [RPN	1]	3550	2940	2950	2955
Slip [%]	Slip [%]		2.00	1.67	1.50
Rated torque [ft.lb]		44.4	44.7	44.5	44.4
Locked rotor torque [%]		180	170	190	200
Breakdown torque	Breakdown torque [%]		240	260	270
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)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	16s (cold) 9s (hot)
Noise level ²		73.0 dB(A)			
	25%	90.0	88.0	88.2	88.3
Efficiency (%)	50%	90.2	89.7	89.8	89.8
Efficiency (70)	75%	91.7	90.7	90.8	90.8
	100%	91.7	92.4	92.4	92.4
	25%	0.47	0.51	0.45	0.42
Power Factor	50%	0.73	0.75	0.70	0.66
I OWEI FACIOI	75%	0.82	0.83	0.80	0.77
	100%	0.86	0.87	0.85	0.83

Max. compression

Drive end 6311 Z C3 Non drive end 6311 Z C3 Foundation loads Max. traction

Sealing : Without Without

Bearing Seal Bearing Seal

Bearing Seal Bearing Seal : 20000 h 20000 h

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

Notes

Bearing type

USABLE @208V 77.4A SF 1.15 SFA 89.0A

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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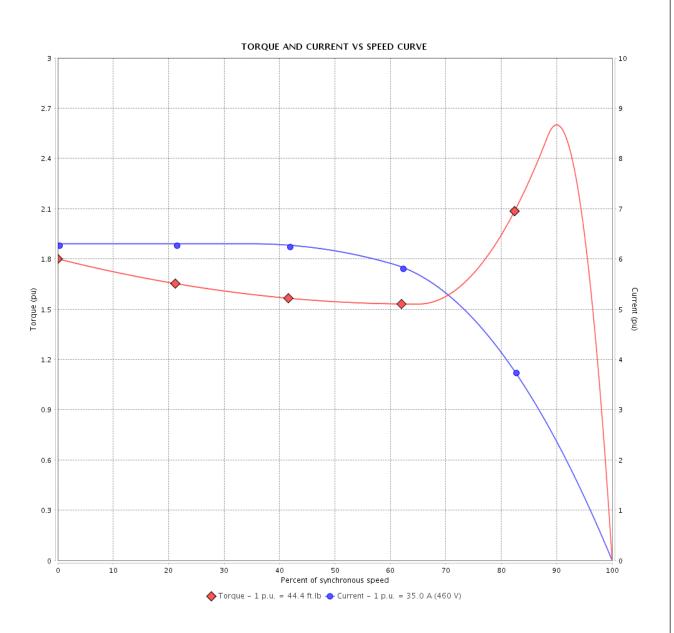


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14495934

Three-Phase

Catalog #: 03036OT3E284TSC-W40



Performance : 230/460 V 60 Hz 2P Rated current : 70.0/35.0 A Moment of inertia (J) : 1.59 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 44.4 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 180 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B

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

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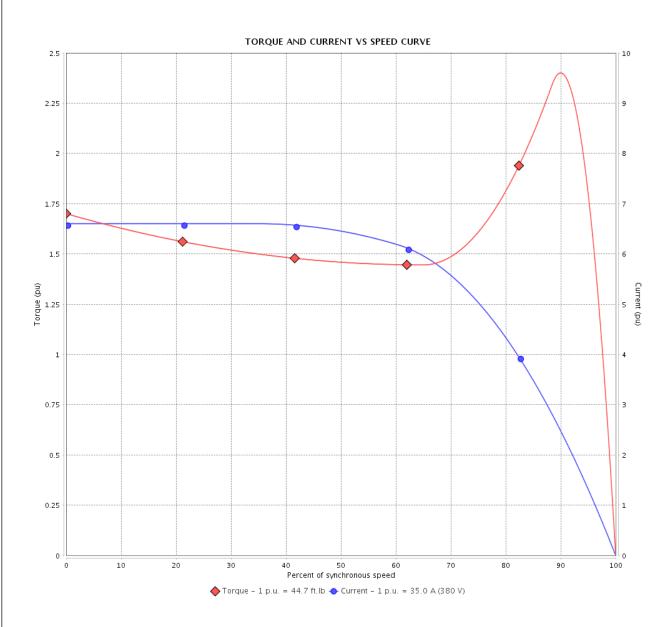


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14495934

Three-Phase

Catalog #: 03036OT3E284TSC-W40



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 35.0 A	Moment of inertia (J)	: 1.59 sq.ft.lb	
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque	: 44.7 ft.lb	Insulation class	:F	
Locked rotor torque	: 170 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 2940 rpm	Design	: B	

Locked rotor time : 12s (cold) 7s (hot)

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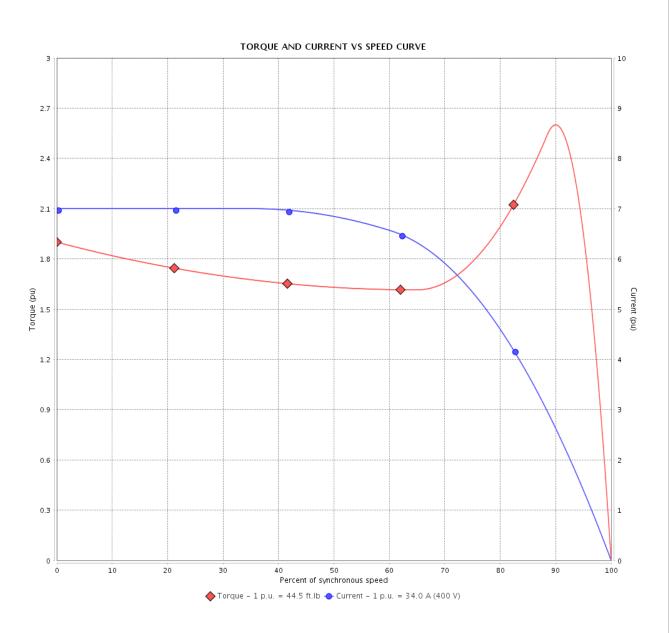
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495934

Catalog #: 03036OT3E284TSC-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 34.0 A Moment of inertia (J) : 1.59 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B

Locked rotor time : 12s (cold) 7s (hot)

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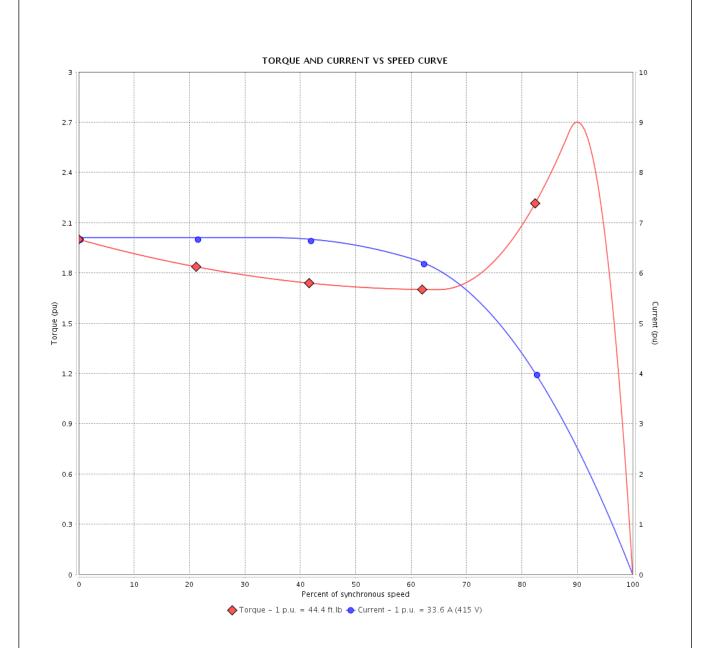


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Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14495934
Three-Phase

Catalog #:



Performance	: 415 V 50 Hz 2P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.6 A : 6.7 : 44.4 ft.lb : 200 % : 270 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.59 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B
Locked rotor time	: 16s (cold) 9s (hot)		

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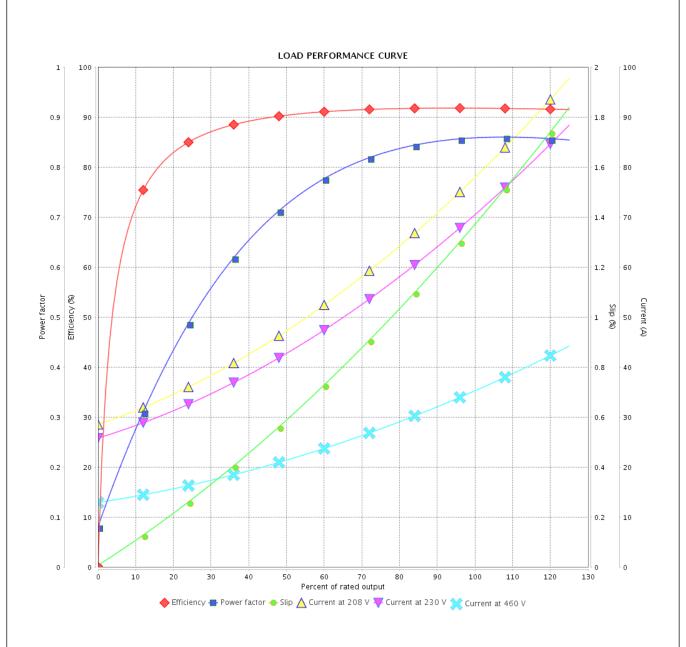
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Three-Phase

Product code: 14495934

Catalog #: 03036OT3E284TSC-W40



Performance : 230/460 V 60 Hz 2P : 70.0/35.0 A Rated current Moment of inertia (J) : 1.59 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 44.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

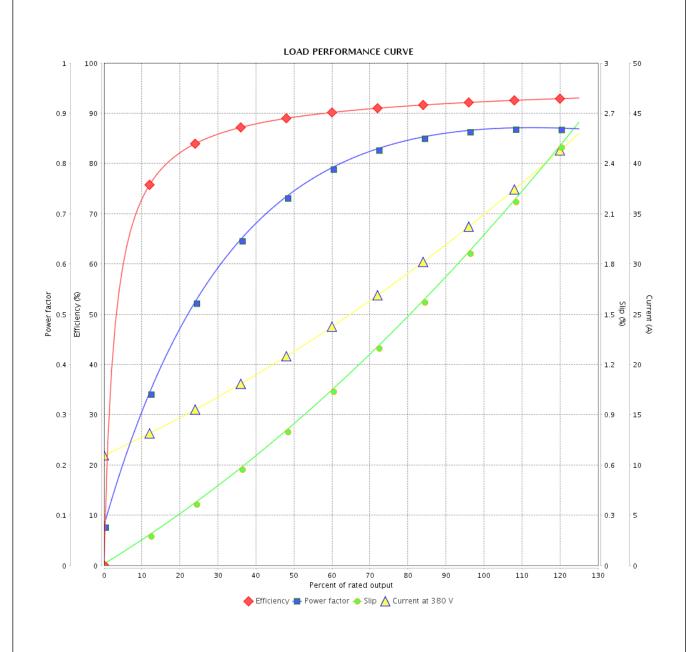
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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.0 A : 6.6 : 44.7 ft.lb : 170 % : 240 % : 2940 rpm	Moment of Duty cycle Insulation Service fa Temperature Design	class ctor	: 1.59 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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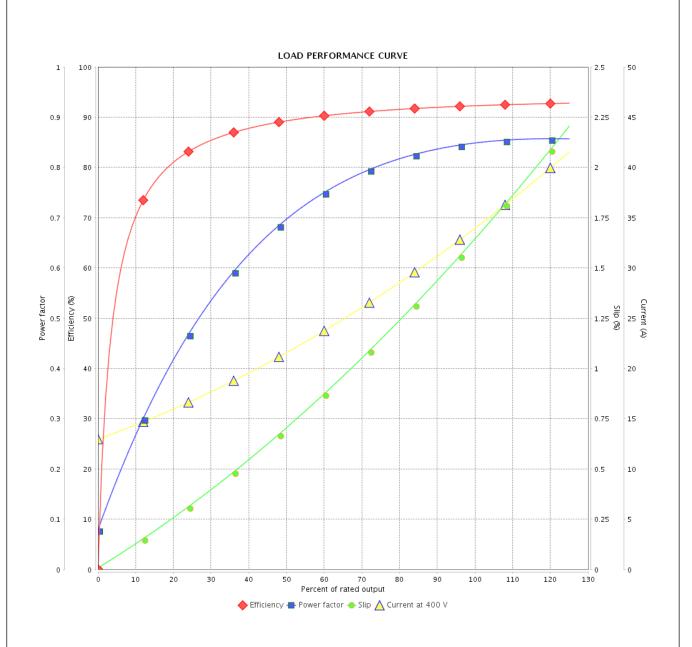
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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.0 A : 7.0 : 44.5 ft.lb : 190 % : 260 % : 2950 rpm	Moment of inertia (J) : 1.59 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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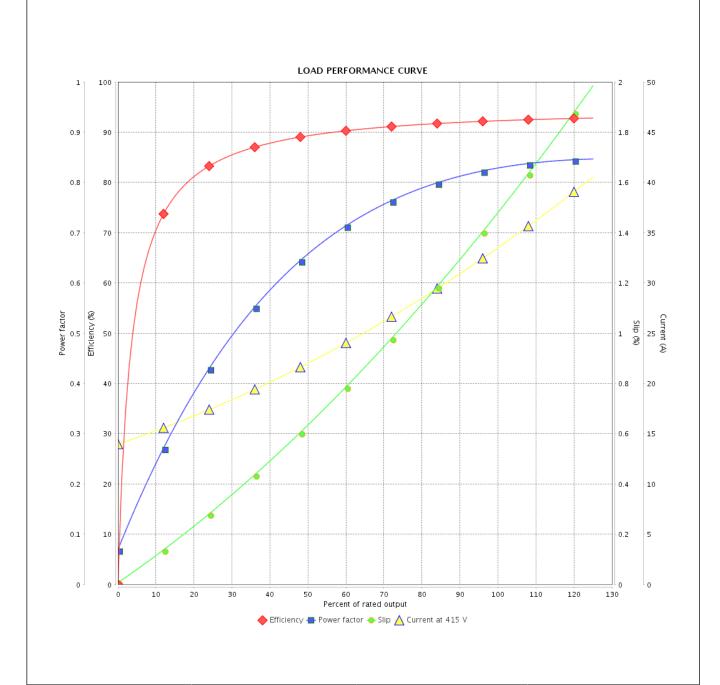


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Product line : W40 NEMA Premium Efficiency Product code : 14495934

Three-Phase

Catalog #: 03036OT3E284TSC-W40



Performance		415 V 50 Hz 2P IE3				
Rated current	Rated current : 33.6 A		Moment o	f inertia (J)	: 1.59 sq.ft.lb	
LRC	:	6.7	Duty cycle	;	: Cont.(S1)	
Rated torque	:	44.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue :	200 %	Service fa	ctor	: 1.00	
Breakdown torque		270 %	Temperati	Temperature rise		
Rated speed	:	2955 rpm	Design		: B	
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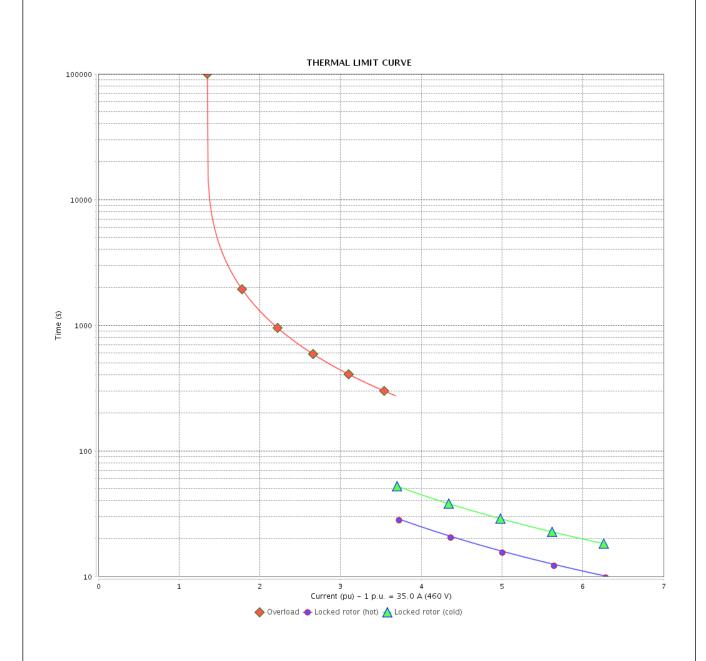


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14495934 03036OT3E28	34TSC-W40
Dawfarmana		230/460 V 60 Hz 2P				
Performance Rated current		70.0/35.0 A	Momonto	f inertia (J)	: 1.59 sq.ft.lb	
LRC		6.3	Duty cycle	i ilierila (J)	: Cont.(S1)	
Rated torque		44.4 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		180 % 260 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		3550 rpm	Design		: B	
Heating constant						
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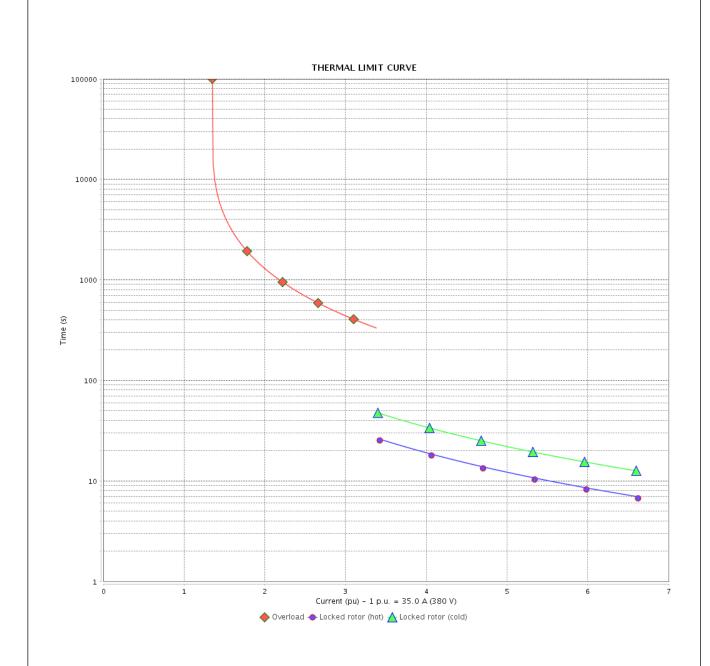


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Product line		N40 NEMA Premium Efficie	ency I	Product code :	14495934	
	Ti	nree-Phase	(Catalog # :	03036OT3E2	84TSC-W40
Performance		30 V 50 Hz 2P IE3	Momant	finartic (I)	· 1 E0 oc # lb	
Rated current LRC	: 6.		Moment of Duty cycle		: 1.59 sq.ft.lb : Cont.(S1)	
Rated torque		1.7 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 40 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed		940 rpm	Design		: B	
Heating constant						
Cooling constant						_
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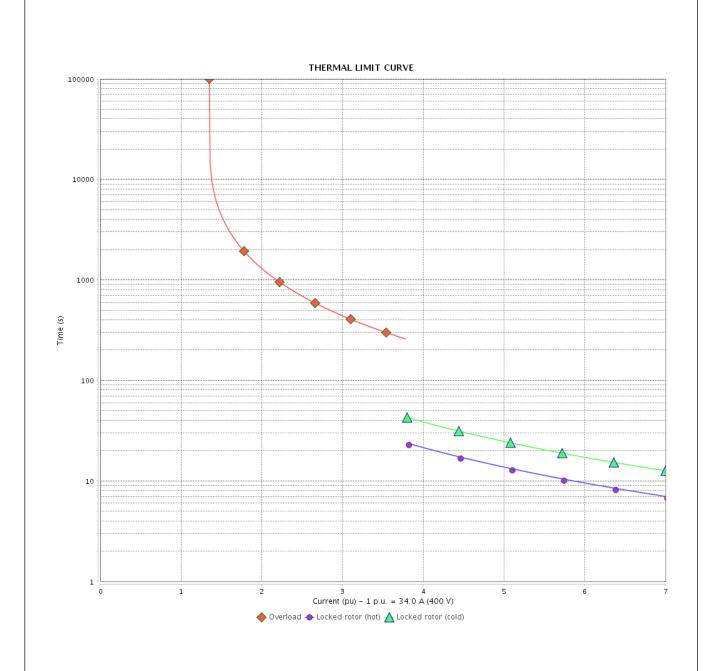


					
Customer	:				
Product line	: W40 NEMA Premium Efficie Three-Phase		Product code :	14495934	
		(Catalog # :	03036OT3E2	84TSC-W40
	: 400 V 50 Hz 2P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 34.0 A : 7.0 : 44.5 ft.lb : 190 % : 260 % : 2950 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 1.59 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					
Cooling constant					
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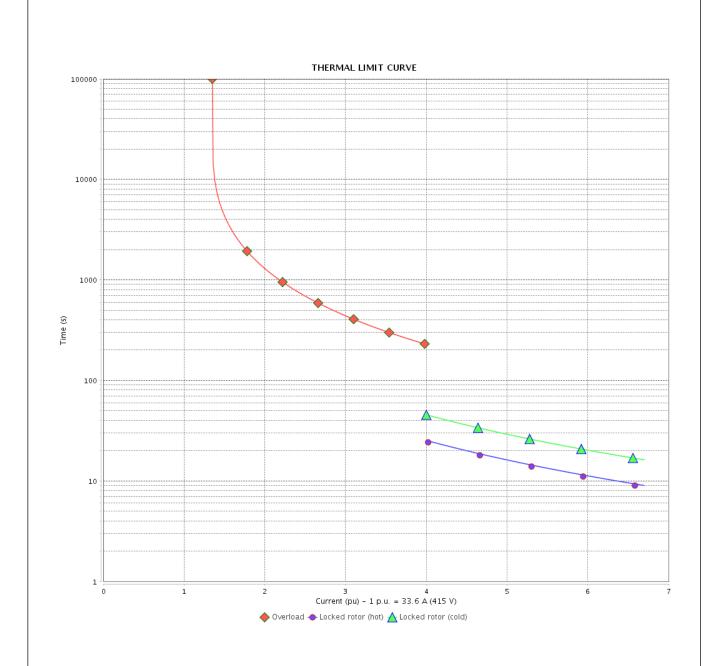


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	''	ilee-Filase	(Catalog # :	03036OT3E28	84TSC-W40
Performance		15 V 50 Hz 2P IE3	Magazza	linautic (I)	. 4 50 6 11	
Rated current LRC	: 6.	3.6 A 7 4.4 ft.lb	Moment of Duty cycle Insulation		: 1.59 sq.ft.lb : Cont.(S1) : F	
Rated torque Locked rotor torq		1.4 π.ib 00 %	Service fac		: F : 1.00	
Breakdown torqu		70 %	Temperatu		: 80 K	
Rated speed		955 rpm	Design		: B	
Heating constant					<u> </u>	
Cooling constant		Change Comme	Т	Dorf '	Ob I - I	Data
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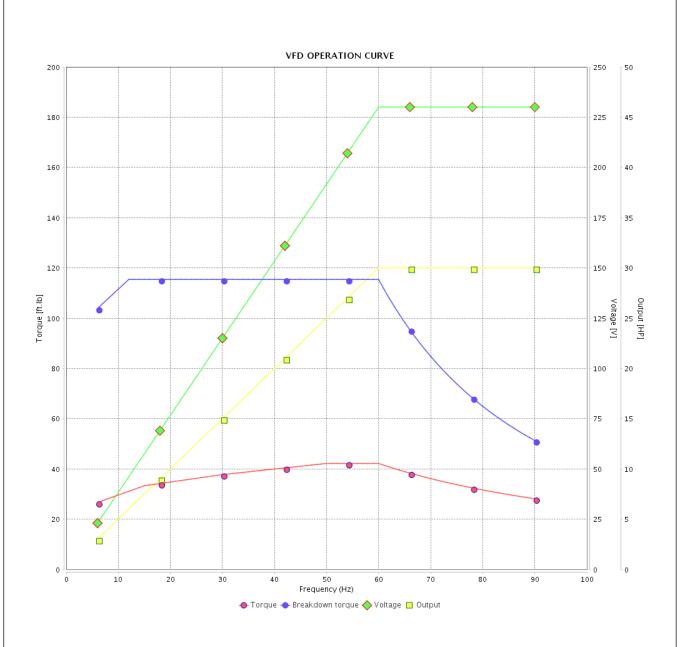
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Performance	:	230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: :ue :e :	70.0/35.0 A 6.3 44.4 ft.lb 180 % 260 % 3550 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 1.59 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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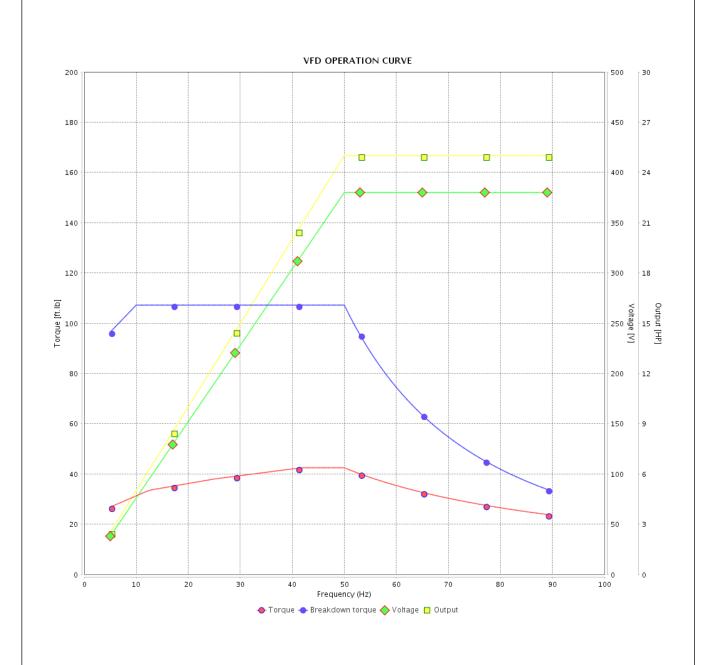
Product line : W40 NEMA Premium Efficiency Product code :

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Product code: 14495934

Catalog #: 03036OT3E284TSC-W40

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.0 A : 6.6 : 44.7 ft.lb : 170 % : 240 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.59 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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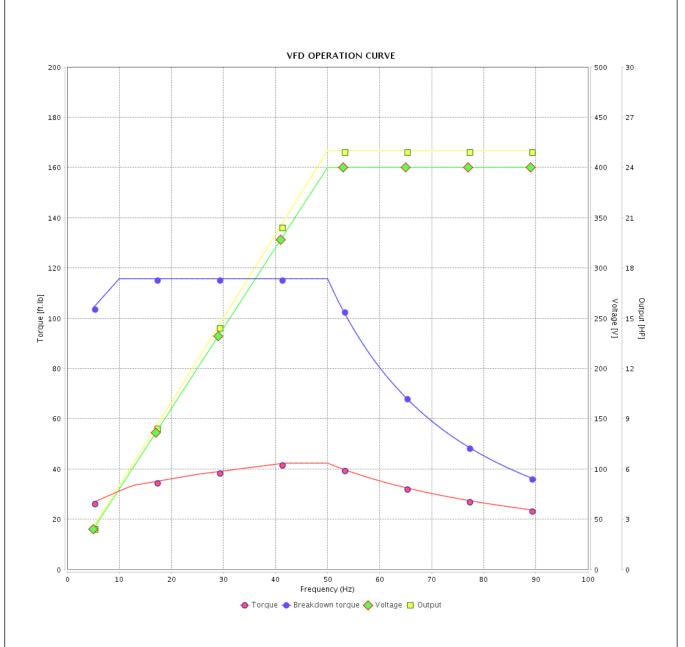
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Performance	:	400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: ::::::::::::::::::::::::::::::::::::	34.0 A 7.0 44.5 ft.lb 190 % 260 % 2950 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.59 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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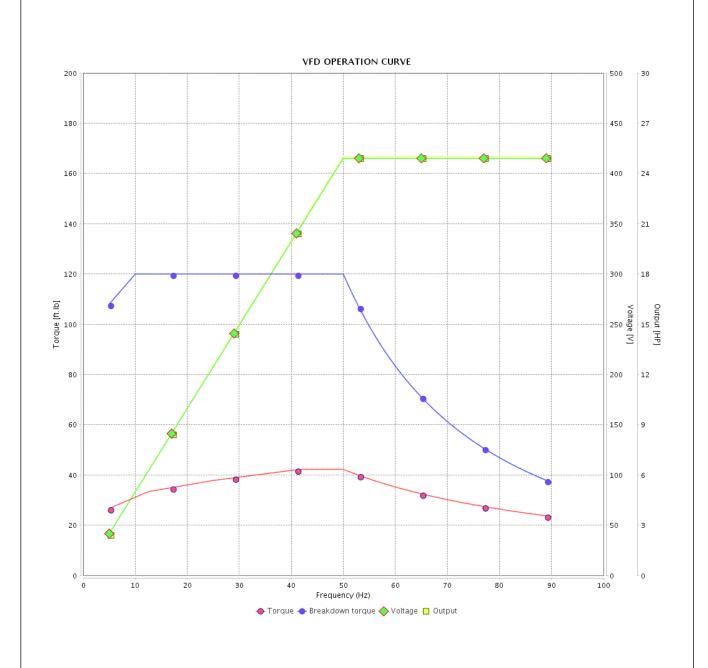
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Three-Phase

Product code: 14495934

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D (45.450.11.00.150	·			
Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 3	3.6 A	Moment o	f inertia (J)	: 1.59 sq.ft.lb	
LRC	: 6	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	4.4 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	00 %	% Service factor		: 1.00	
Breakdown torque	e : 2	70 % Temperature rise		: 80 K		
Rated speed	: 2	955 rpm	Design		: B	
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