DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14494123

Three-Phase

Catalog #: 01012OT3E256T-W40

Frame : 254/6T 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

: 1000 m.a.s.l. Approx. weight³ : 267 lb Altitude : 3.53 sq.ft.lb

Protection degree

: IP23 Moment of inertia (J)

Design		: B			
Output [HP]		10	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]		25.6/12.8	15.0	14.6	14.3
L. R. Amperes [A]		174/87.0	88.5	93.4	94.4
LRC [A]		6.8x(Code H)	5.9x(Code G)	6.4x(Code H)	6.6x(Code H)
No load current [A]]	12.2/6.10	6.10	6.50	6.80
Rated speed [RPN	1]	1180	970	975	975
Slip [%]		1.67	3.00	2.50	2.50
Rated torque [ft.lb]		44.5	54.1	53.9	53.9
Locked rotor torqu	e [%]	229	190	210	229
Breakdown torque	[%]	300	229	260	280
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²		59.0 dB(A)			
	25%	89.4	88.3	88.3	88.3
Noise level ² Efficiency (%)	50%	90.2	88.6	88.6	88.6
	75%	91.0	89.0	89.0	89.0
	100%	91.7	89.1	89.1	89.1
	25%	0.37	0.44	0.41	0.38
Power Factor	50%	0.62	0.70	0.66	0.63
Power Factor	75%	0.74	0.80	0.78	0.76
	100%	0.80	0.85	0.83	0.82

Max. compression

Non drive end Foundation loads **Drive** end Bearing type 6309 Z C3 6209 Z C3 Max. traction

Sealing Without Without

Bearing Seal Bearing Seal 20000 h Lubrication interval 20000 h

Lubricant amount 9 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 28.3A SF 1.15 SFA 32.6A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			1 / 21	

Three Phase Induction Motor - Squirrel Cage



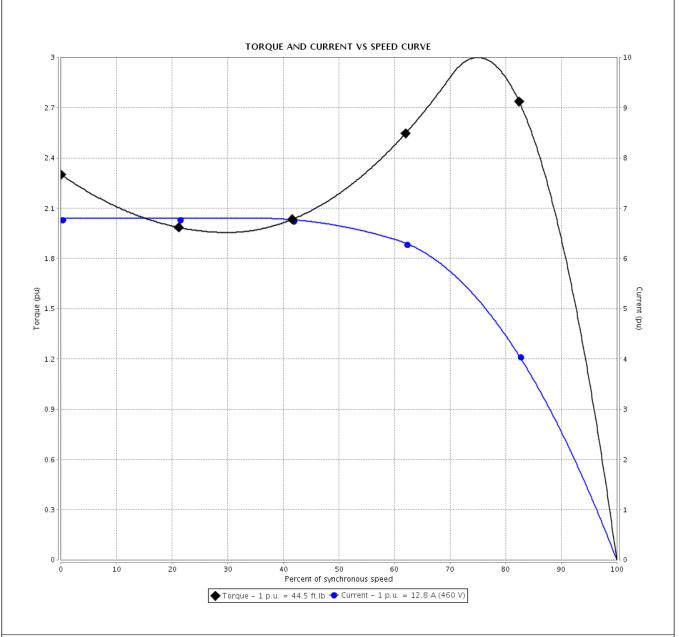
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494123

Catalog #: 01012OT3E256T-W40



: 230/460 V 60 Hz 6P Performance Rated current : 25.6/12.8 A Moment of inertia (J) : 3.53 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F : 229 % Service factor Locked rotor torque : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			2 / 21	

Three Phase Induction Motor - Squirrel Cage



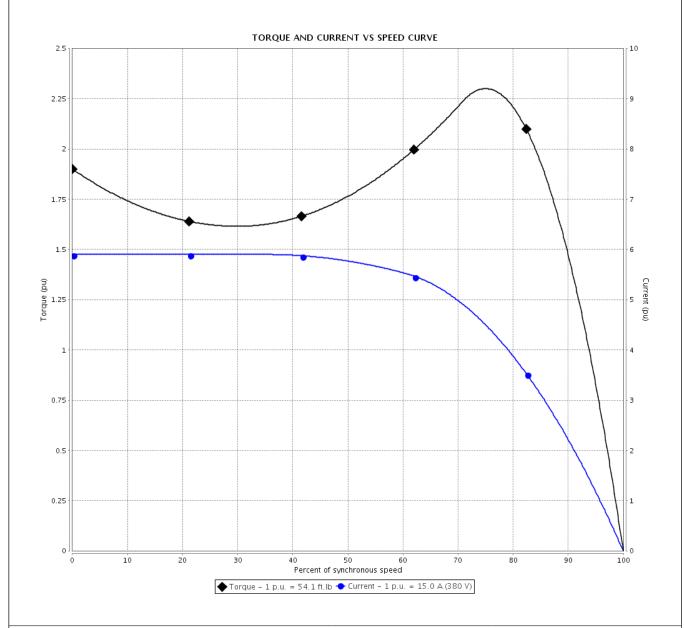
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494123

Catalog #: 01012OT3E256T-W40



Performance : 380 V 50 Hz 6P IE3 Rated current : 15.0 A Moment of inertia (J) : 3.53 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 54.1 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 : 80 K Breakdown torque : 229 % Temperature rise : B Rated speed : 970 rpm Design Locked rotor time : 25s (cold) 14s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			3 / 21	

Three Phase Induction Motor - Squirrel Cage



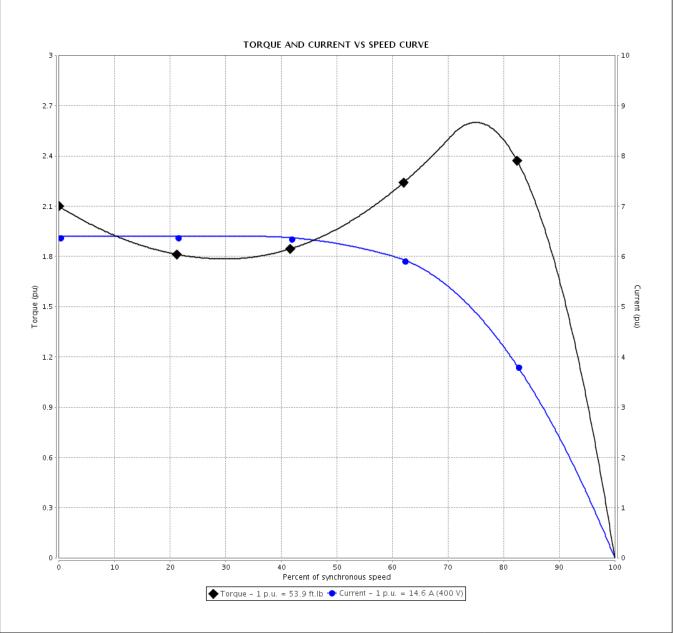
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494123

Catalog #: 01012OT3E256T-W40



Performance	: 400 V 50 Hz 6P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.6 A : 6.4 : 53.9 ft.lb : 210 % : 260 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B
Locked reter time	: 25s (cold) 14s (bot)		

Locked rotor time : 25s (cold) 14s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			4 / 21	

Three Phase Induction Motor - Squirrel Cage

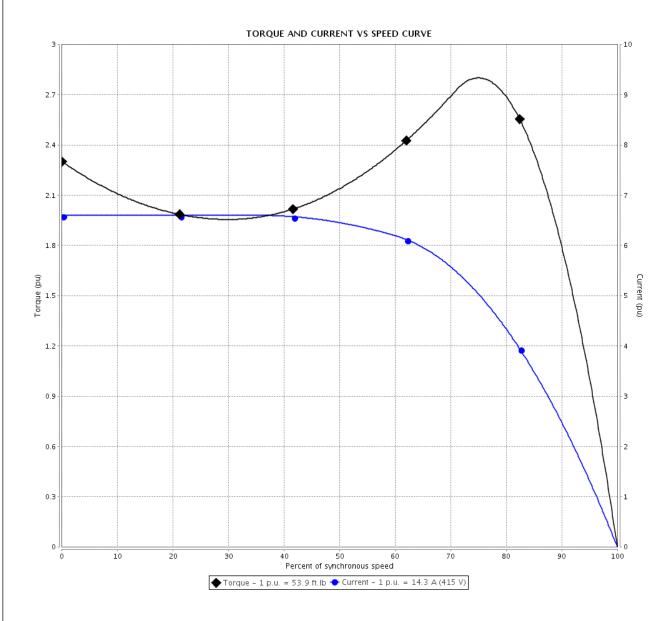


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Product line : W40 NEMA Premium Efficiency

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Catalog #: 01012OT3E256T-W40



Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 14.3 A	Moment of inertia (J)	: 3.53 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 53.9 ft.lb	Insulation class	:F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B
Locked rotor time	· 25s (cold) 14s (hot)		

Locked fotol tilli	. 2	03 (0010) 143 (1101)			
Rev.		Changes Summary	Performed	Checked	Date
Checked by				Page	Revision
Date	11/04/2020			5 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

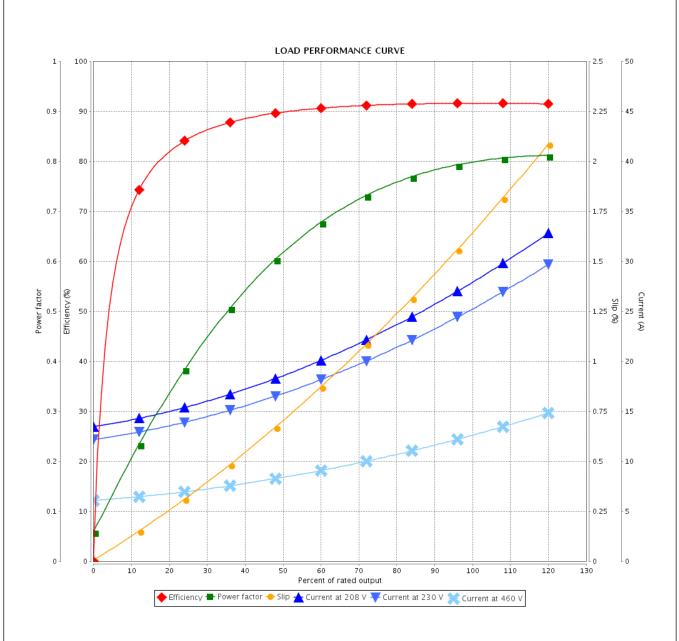
11/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494123

Catalog #: 01012OT3E256T-W40



Performance : 230/460 V 60 Hz 6P : 25.6/12.8 A Rated current Moment of inertia (J) : 3.53 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class : 44.5 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

6/21

Three Phase Induction Motor - Squirrel Cage

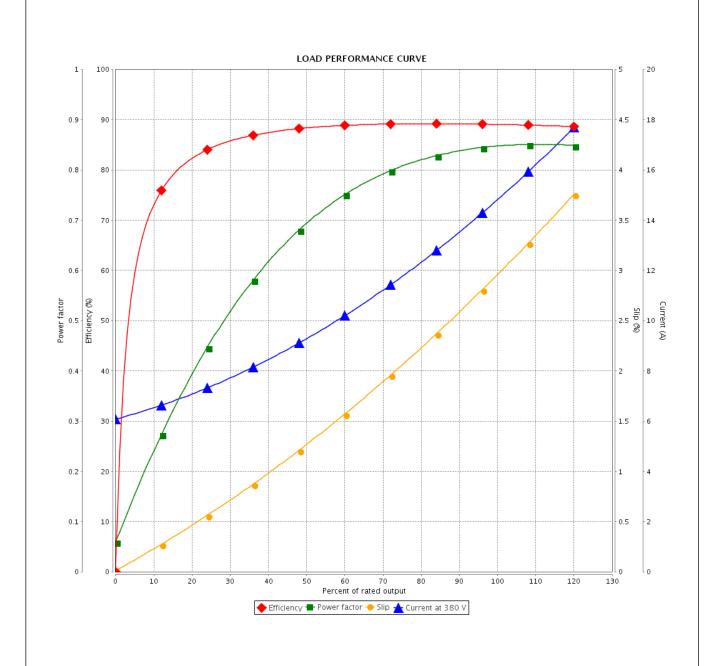


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Product line : W40 NEMA Premium Efficiency

Product code: 14494123

Catalog #: 01012OT3E256T-W40



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 1:	5.0 A	Moment o	Moment of inertia (J)		
LRC	: 5	.9	Duty cycle	, ,	: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque	: 5	4.1 ft.lb	Insulation		: F ` ´	
Locked rotor torqu	ie : 1	90 %	Service fa	ctor	: 1.00	
•		29 %	Temperati	Temperature rise		
Rated speed	: 9	70 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020	1			7 / 21	

Three Phase Induction Motor - Squirrel Cage



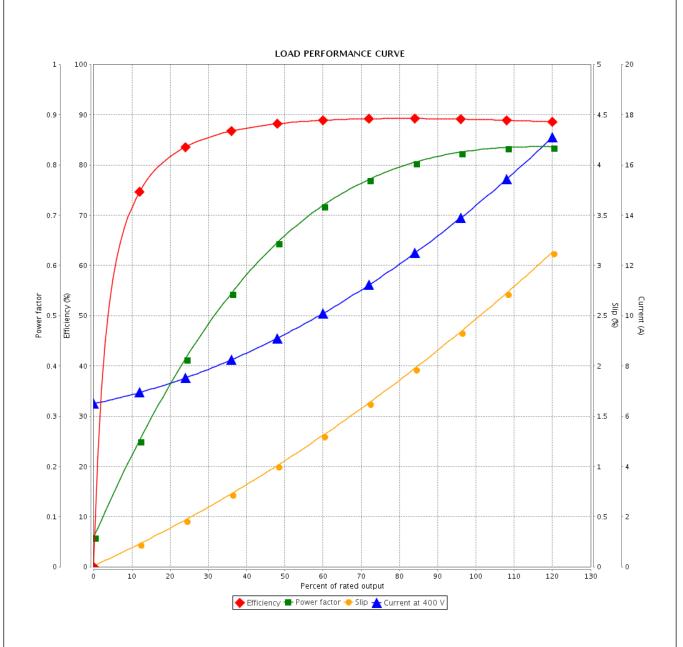
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494123

Catalog #: 01012OT3E256T-W40



Performance	: 4	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 5 jue : 2	4.6 A .4 3.9 ft.lb 10 % 60 % 75 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by						

Checked by			Page	Revision
Date	11/04/2020		8 / 21	
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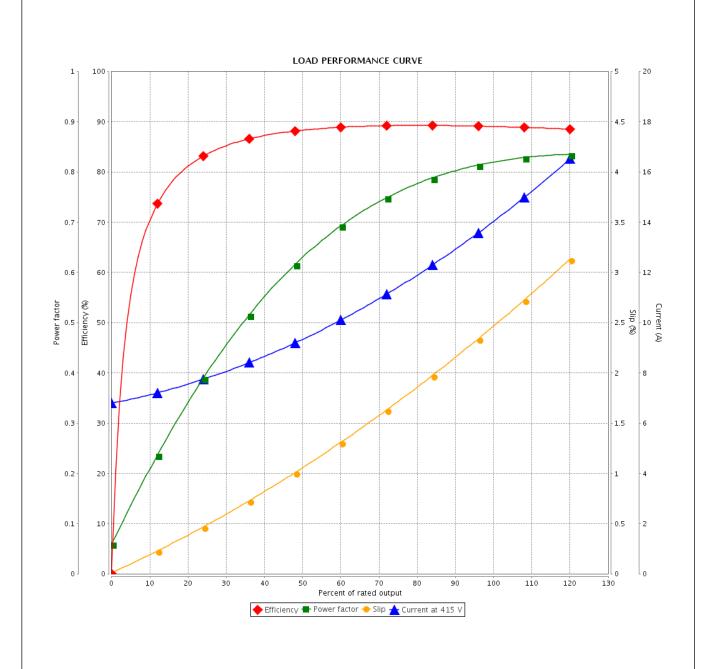
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 01012OT3E256T-W40

14494123



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 1	4.3 A	Moment o	of inertia (J)	: 3.53 sq.ft.lb	
LRC	: 6	.6	Duty cycle	•	: Cont.(S1)	
Rated torque	: 5	3.9 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	29 %	Service fa	ictor	: 1.00	
Breakdown torque		80 %	Temperati	Temperature rise		
Rated speed	: 9	75 rpm	Design		: B	
Rev.		Changes Summar	ту	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				9 / 21	

Three Phase Induction Motor - Squirrel Cage

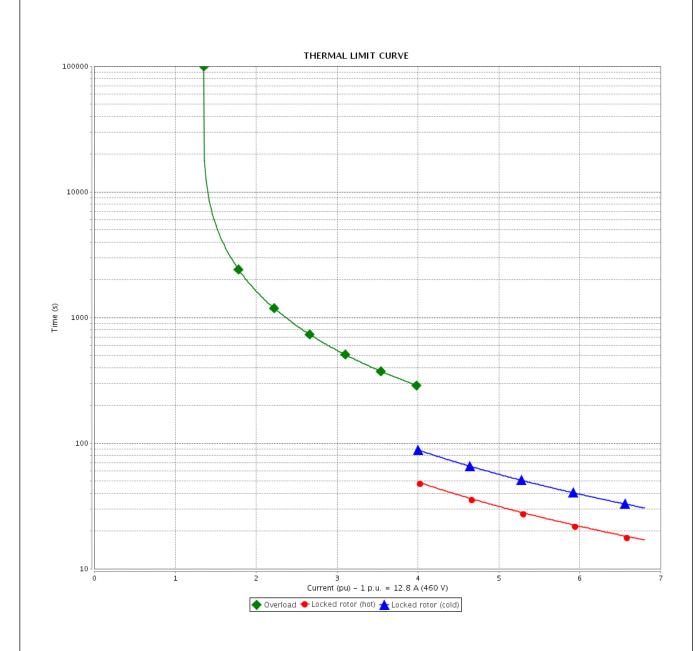


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Product line		: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14494123	
				Catalog # :	01012OT3E2	56T-W40
Performance		230/460 V 60 Hz 6P				
Rated current LRC		25.6/12.8 A 6.8	Moment of Duty cycle	of inertia (J)	: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque	:	44.5 ft.lb	Insulation	class	: F	
Locked rotor toro		229 %	Service fa		: 1.25	
Breakdown torqu Rated speed		300 % 1180 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant		•	Ü			
Cooling constant						
Rev.	•	Changes Summary	<u> </u>	Performed	Checked	Date
					-	
Performed by						
Checked by					Page	Revision
Date	11/04/2020				10 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			11 / 21	

Three Phase Induction Motor - Squirrel Cage

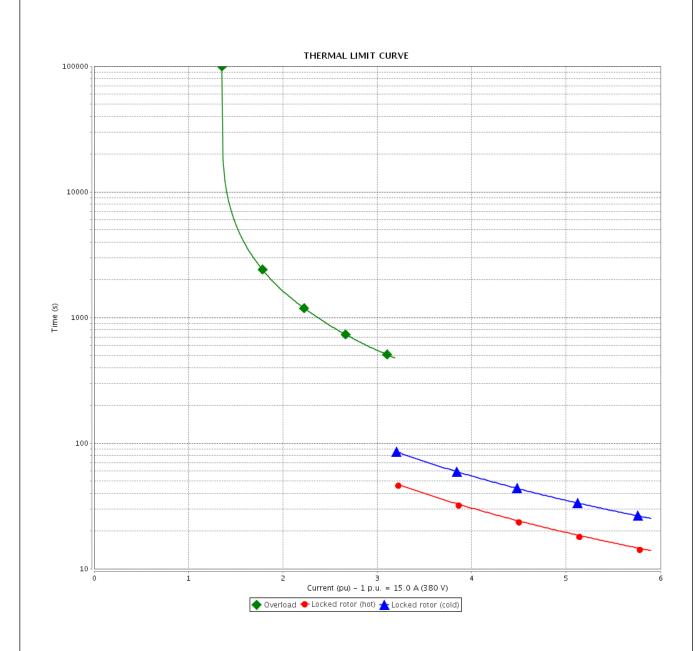


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Customer	:					
Product line		N40 NEMA Premium Efficie nree-Phase	ency f	Product code :	14494123	
	''	ircc-i riasc	(Catalog # :	01012OT3E2	56T-W40
Performance		30 V 50 Hz 6P IE3	Magazza	Finantic (1)	. 2.50 6.0	
Rated current LRC	: 15 : 5.	5.0 A 9	Moment of Duty cycle	r inertia (J)	: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque	: 54	1.1 ft.lb	Insulation	class	: F	
Locked rotor torq		90 %	Service fac		: 1.00	
Breakdown torqu Rated speed		29 % 70 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant	:					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020	1			12 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			13 / 21	

Three Phase Induction Motor - Squirrel Cage

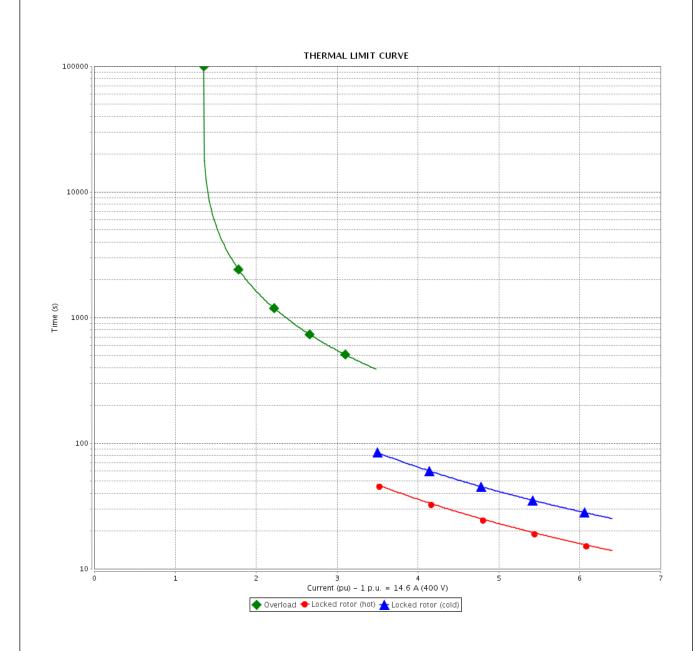


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Product line	: \ Tł	W40 NEMA Premium Efficie hree-Phase	•	Product code :	14494123 01012OT3E2	56T-W40
				Catalog #:	01012O13E2	561-W4U
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed Heating constan	: 14 : 6. : 53 que : 26 ue : 26 : 97	00 V 50 Hz 6P IE3 4.6 A 4 3.9 ft.lb 10 % 60 % 75 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Cooling constant	<u> </u>	Changes Summary		Performed	Checked	Date
Performed by Checked by	44/04/2222	-			Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			15 / 21	

Three Phase Induction Motor - Squirrel Cage

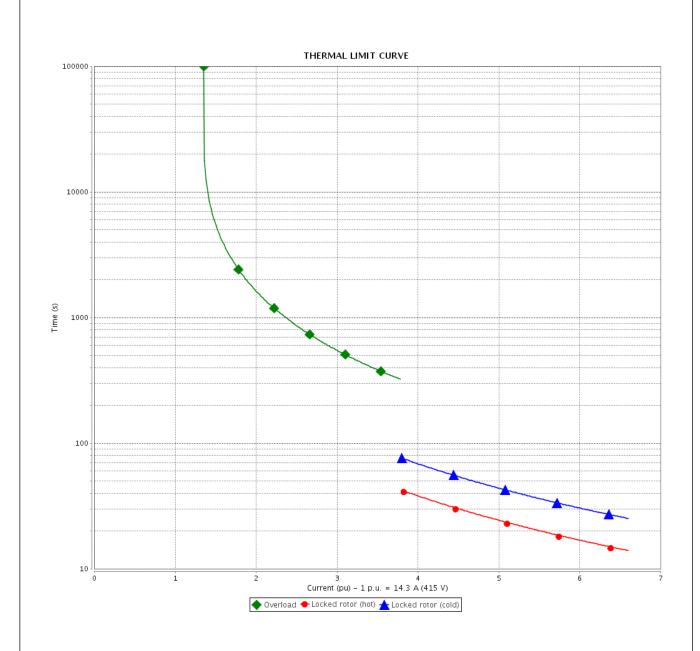


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Product line	: \ TI	W40 NEMA Premium Efficie hree-Phase	•	Product code :	14494123 01012OT3E2	56T-W40
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 14 : 6. : 53 que : 22 ue : 28 : 97	15 V 50 Hz 6P IE3 4.3 A 6 3.9 ft.lb 29 % 80 % 75 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by	44/04/2222	-	1		Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			17 / 21	

Three Phase Induction Motor - Squirrel Cage



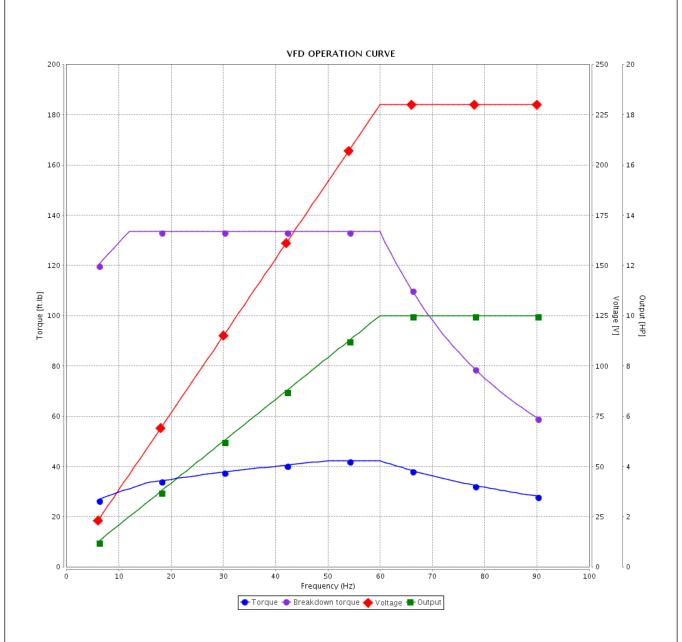
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494123

Catalog #: 01012OT3E256T-W40



Performance	: 230/460 V 60 Hz 6P	·			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 25.6/12.8 A : 6.8 : 44.5 ft.lb : 229 % : 300 % : 1180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.53 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	,	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

18/21

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage



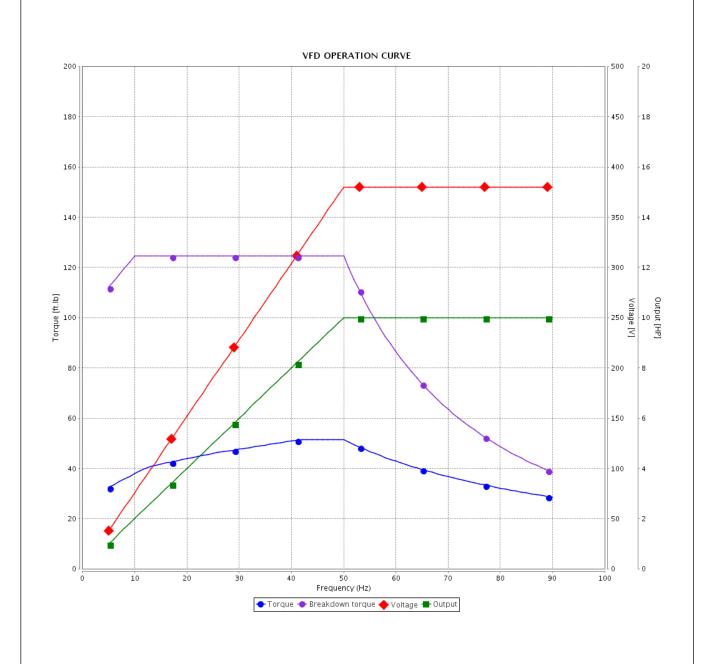
Customer

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Three-Phase

Product code: 14494123

Catalog #: 01012OT3E256T-W40



Performance	:	380 V 50 Hz 6P IE3				
Rated current	:	15.0 A	0 A Moment of inertia (J)		: 3.53 sq.ft.lb	
LRC	:	5.9	Duty cycle)	: Cont.(S1)	
Rated torque	:	54.1 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	190 %	Service fa	ctor	: 1.00	
Breakdown torque	:	229 %	Temperature rise		: 80 K	
Rated speed	:	970 rpm	Design		: B	
Rev.		Changes Summary	l l	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	11/04/2020				19 / 21	

Three Phase Induction Motor - Squirrel Cage



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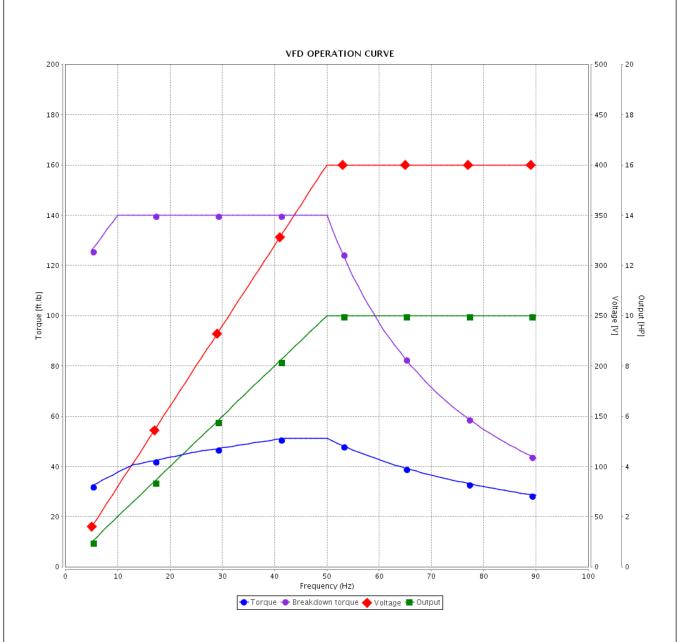
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494123

Catalog #: 01012OT3E256T-W40

20 / 21



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.6 A : 6.4 : 53.9 ft.lb : 210 % : 260 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage

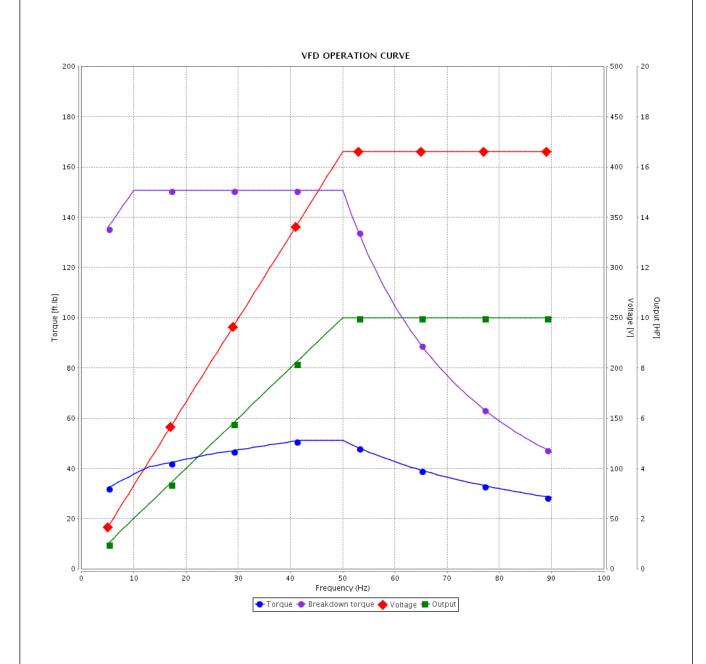


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Product code: 14494123

Catalog #: 01012OT3E256T-W40



Performance	: 4	15 V 50 Hz 6P IE3	;			
Rated current		4.3 A			: 3.53 sq.ft.lb	
LRC Rated torque	: 6 : 5	.o 3.9 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torqu		29 %	Service fa		: 1.00	
Breakdown torque		80 %	10111-101		: 80 K	
Rated speed	: 9	75 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				21 / 21	