### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14494124

Three-Phase

Catalog #: 01012OT3E256TC-W40

Frame : 254/6TC Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 282 lb
Protection degree : IP23 Moment of inertia (J) : 3.53 sq.ft.lb

Protection degree : IP23 Moment of inertia (J) : 3.53 sq.ft.lb				sq.ft.lb	
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	<b>/</b> []	1180	970	975	975
Slip [%]	Slip [%]		3.00	2.50	2.50
Rated torque [ft.lb]		44.5	54.1	53.9	53.9
Locked rotor torqu	Locked rotor torque [%]		190	210	229
Breakdown torque	[%]	300	229	229 260	
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 <sup>2</sup>		59.0 dB(A)			
	25%	89.4	88.3	88.3	88.3
Efficiency (%)	50%	90.2	88.6	88.6	88.6
Efficiency (70)	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
I OWEL FACIOI	75%	0.74	0.80	0.78	0.76
	100%	0.80	0.85	0.83	0.82

<u>Drive end</u> <u>Non drive end</u> : 6309 Z C3 6209 Z C3

Bearing type : 6309 Z C3 6209 Z C3 Sealing : Without Without

Bearing Seal Bearing Seal

Lubrication interval : 20000 h 20000 h Lubricant amount : 13 g 9 g Lubricant type : Mobil Polyrex EM Foundation loads

Max. traction
Max. compression

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.

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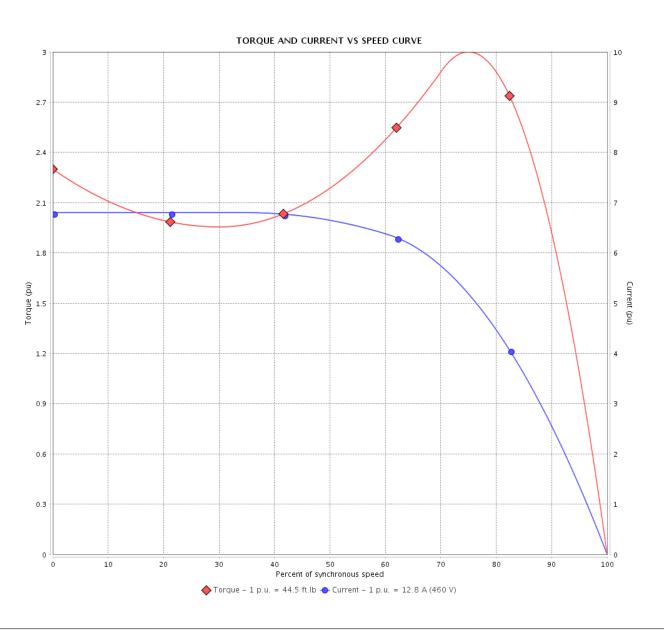
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494124

Catalog #: 01012OT3E256TC-W40



Performance : 230/460 V 60 Hz 6P 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 Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

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

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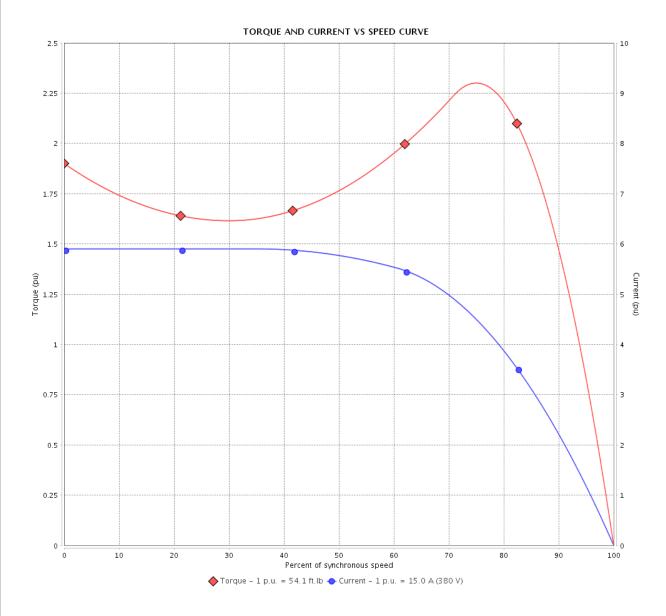
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494124

Catalog #: 01012OT3E256TC-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) Rated torque Insulation class : F : 54.1 ft.lb 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)

LOCKCO TOTOL UITK	. 2	03 (cold) 143 (flot)			
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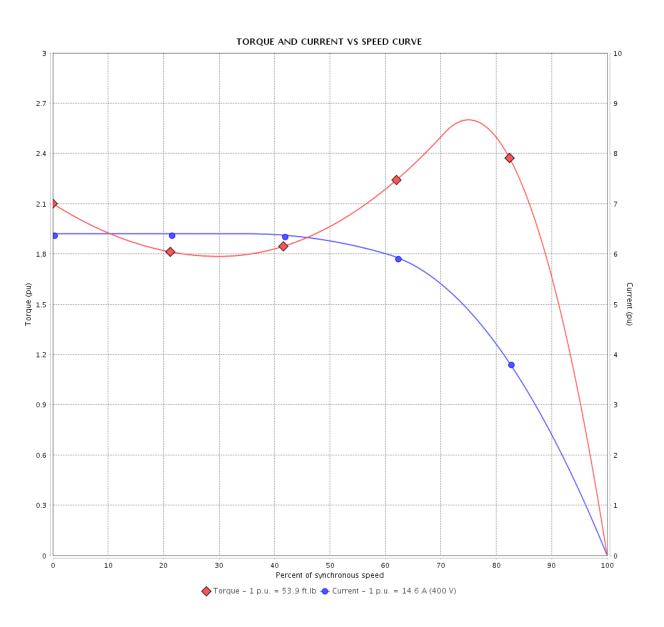


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14494124

Three-Phase

Catalog #: 01012OT3E256TC-W40



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

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

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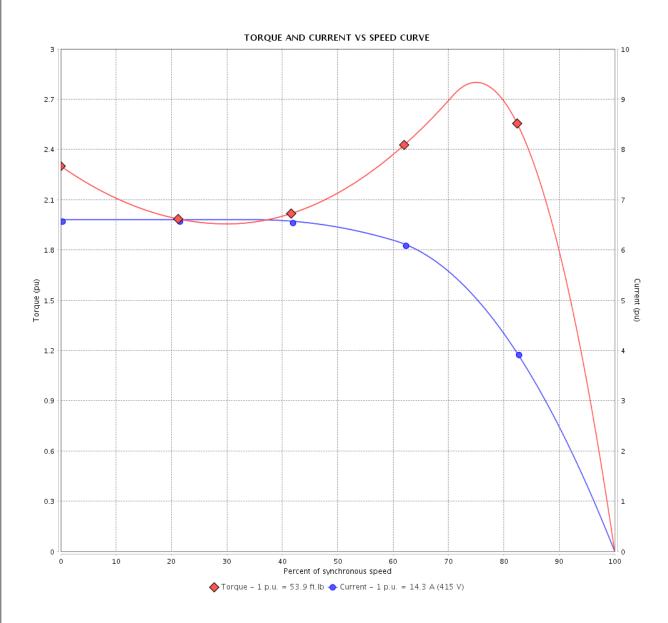


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14494124

Catalog #: 01012OT3E256TC-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)			

LOCKEU TOLOT LITTI	. 2	33 (Cold) 143 (110t)			
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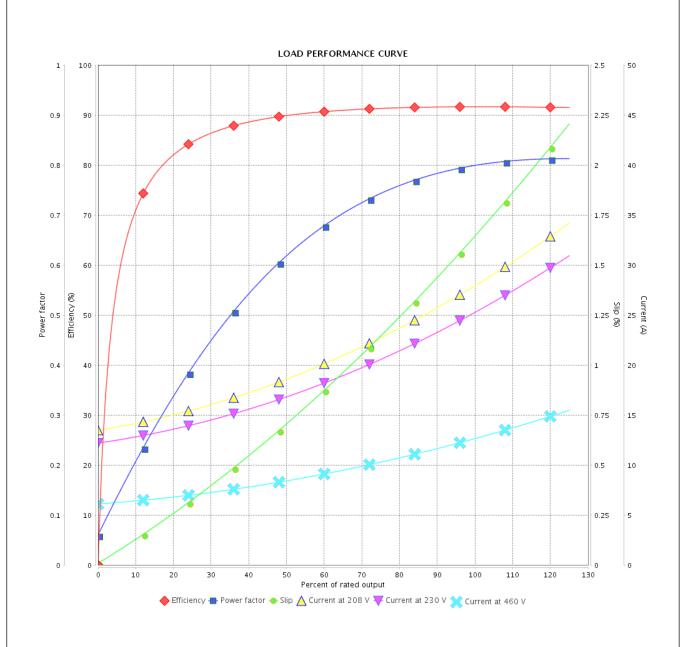
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494124

Catalog #: 01012OT3E256TC-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 Rated torque : 44.5 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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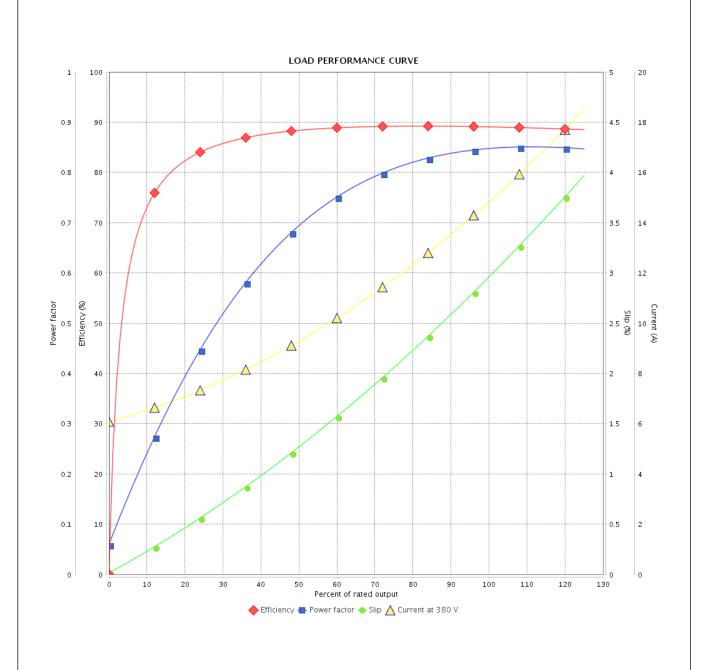


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14494124

Three-Phase

Catalog #: 01012OT3E256TC-W40



Performance	:	380 V 50 Hz 6P IE3				
Rated current	:	15.0 A	Moment o	f 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 %	Temperati	ıre rise	: 80 K	
Rated speed	:	970 rpm	Design		: B	
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Three-Phase

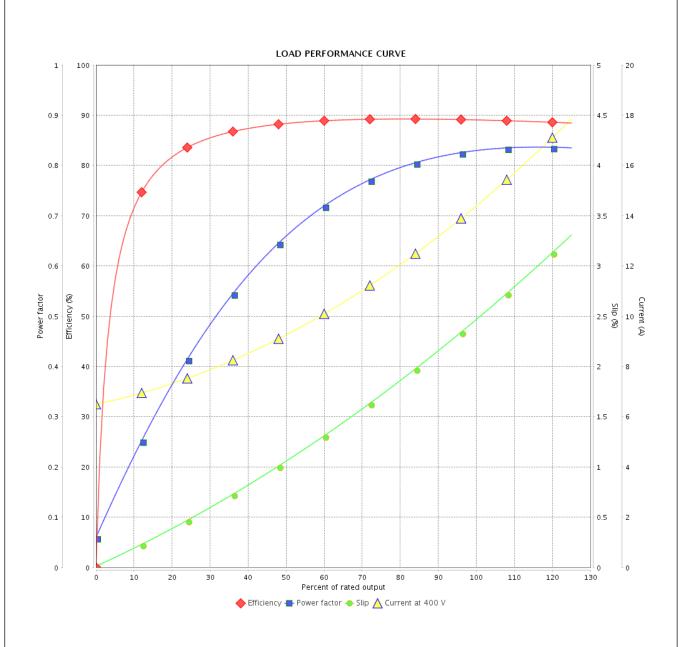
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Performance	: 4	100 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 5 jue : 2	14.6 A 5.4 53.9 ft.lb 210 % 260 % 075 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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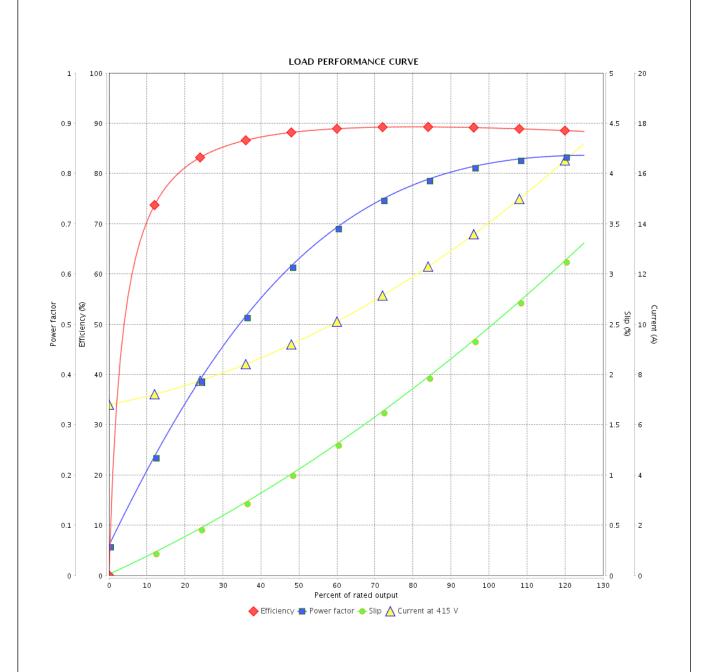


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Product line : W40 NEMA Premium Efficiency Product code : 14494124

Three-Phase

Catalog #: 01012OT3E256TC-W40



Performance	: 4	: 415 V 50 Hz 6P IE3				
Rated current	: 14.3 A		Moment of	f inertia (J)	: 3.53 sq.ft.lb	
LRC	: 6	.6	Duty cycle	)	: Cont.(S1)	
Rated torque	: 53	3.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torque : 28		80 %	Temperati	Temperature rise		
Rated speed	: 9	75 rpm	Design		: B	
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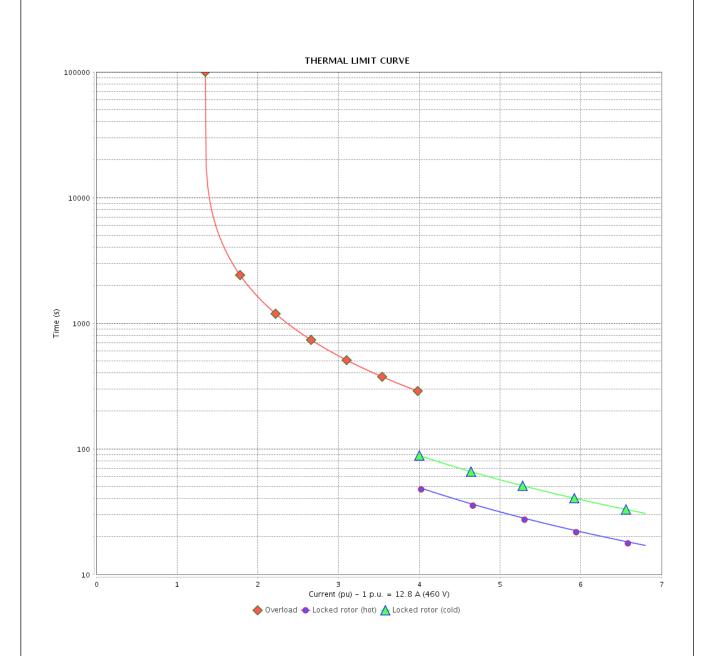


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14494124 01012OT3E25	56TC-W40
Performance	:	230/460 V 60 Hz 6P				
Rated current LRC Rated torque	:	25.6/12.8 A 6.8 44.5 ft.lb	Duty cycle Insulation	class	: 3.53 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie :	229 % 300 % 1180 rpm	Service fa Temperatu Design		: 1.25 : 80 K : B	
Heating constant						
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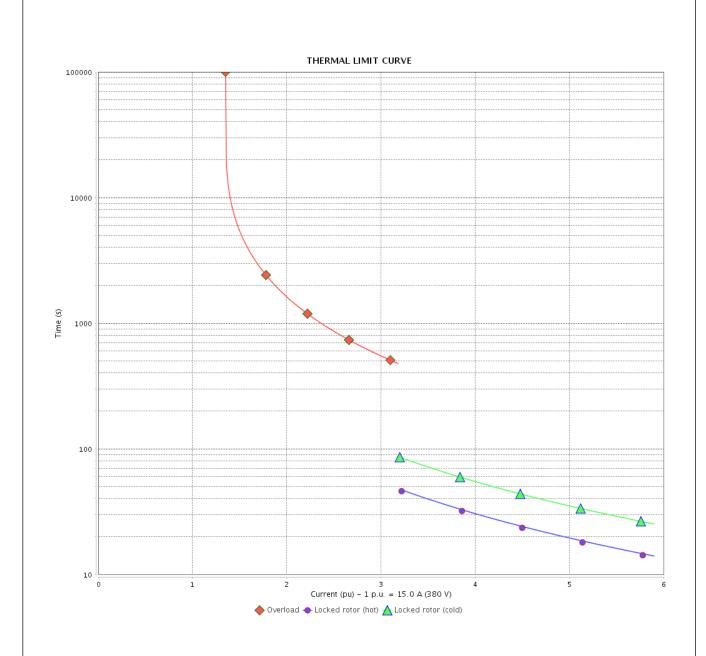


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Product line		W40 NEMA Premium Efficion hree-Phase	ency I	Product code :	14494124	
	''	illee-i ilase	(	Catalog # :	01012OT3E2	56TC-W40
Performance		80 V 50 Hz 6P IE3	Mamont	finartia (I)	. 2 52 og filb	
Rated current LRC	: 5.		Duty cycle	f inertia (J)	: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		4.1 ft.lb 90 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie : 22	29 %	Temperatu		: 80 K	
Rated speed		70 rpm	Design		: B	
Heating constant						
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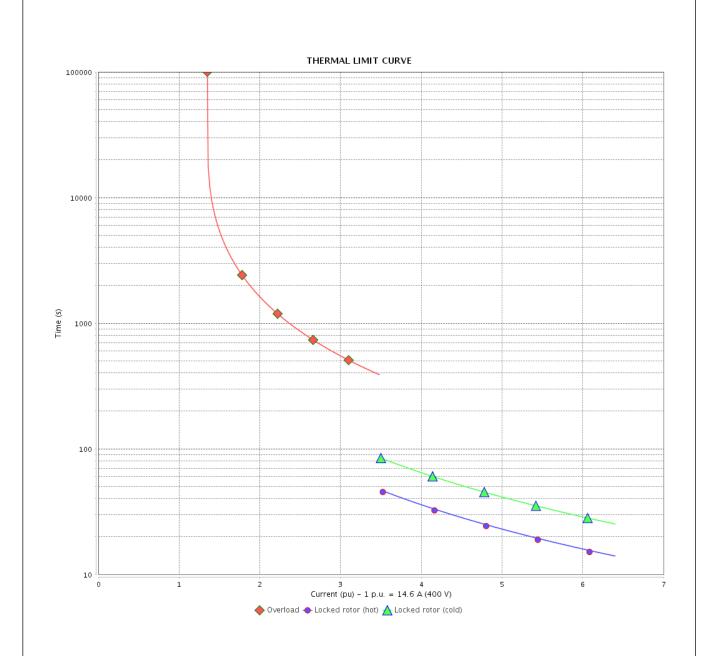


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Product line		W40 NEMA Premium Efficion Pree-Phase	ency I	Product code :	14494124	
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Performance		00 V 50 Hz 6P IE3		***********	0.50 6.11	
Rated current LRC	: 14 : 6.	4.6 A 4	Moment of Duty cycle	f inertia (J)	: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque		3.9 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		10 % 60 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		75 rpm	Design		: B	
Heating constant						
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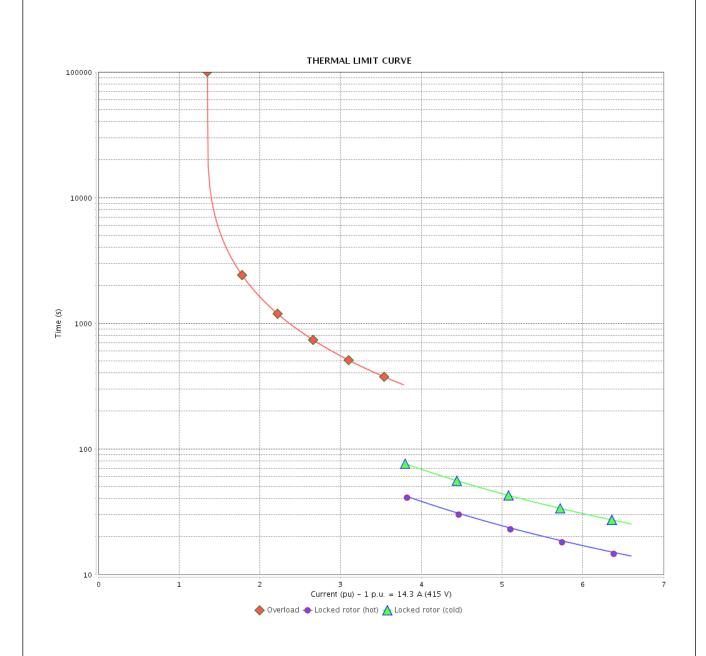


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14494124 01012OT3E25	56TC-W40
Performance Rated current		415 V 50 Hz 6P IE3 14.3 A	Moment	f inertia ( I)	· 3 53 ca ft lb	
Rated current LRC Rated torque Locked rotor tord	:	14.3 A 6.6 53.9 ft.lb 229 %	Duty cycle Insulation Service fa	class	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torqu	ue :	280 % 975 rpm	Temperati Design		: 80 K : B	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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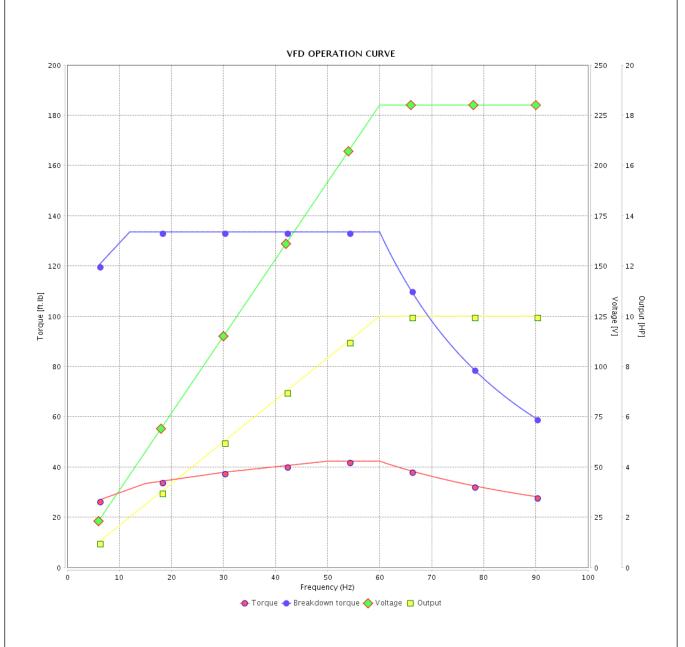
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494124

Catalog #: 01012OT3E256TC-W40

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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	
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

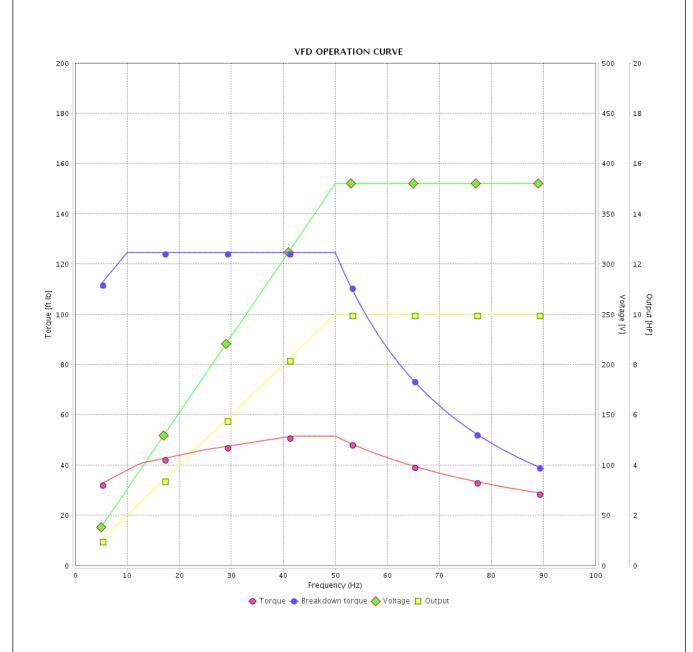
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Performance		: 380 V 50 Hz 6P	IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 15.0 A : 5.9 : 54.1 ft.lb : 190 % : 229 % : 970 rpm	Du Ins Se Ter	Duty cycle : Co Insulation class : F Service factor : 1.0 Temperature rise : 80		: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

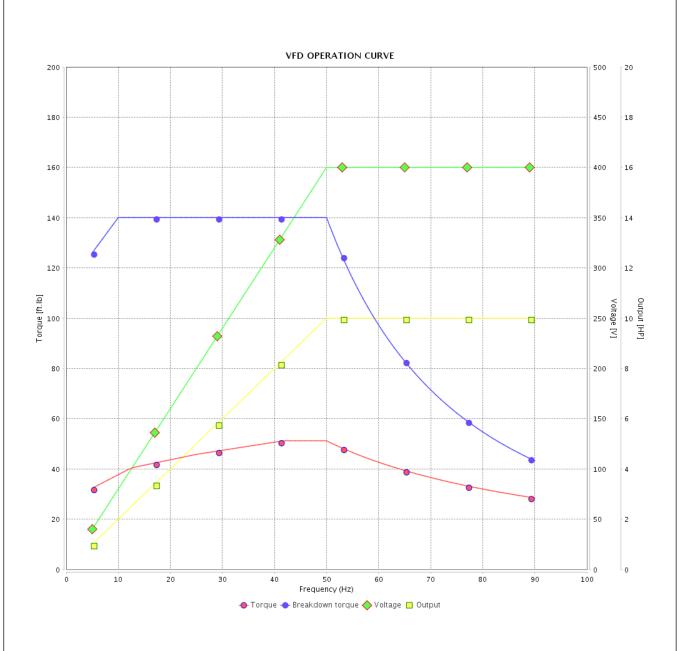
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494124

Catalog #: 01012OT3E256TC-W40

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Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 53 que : 21 ue : 26	4.6 A 4 3.9 ft.lb 10 % 60 % 75 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	
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#### Three Phase Induction Motor - Squirrel Cage



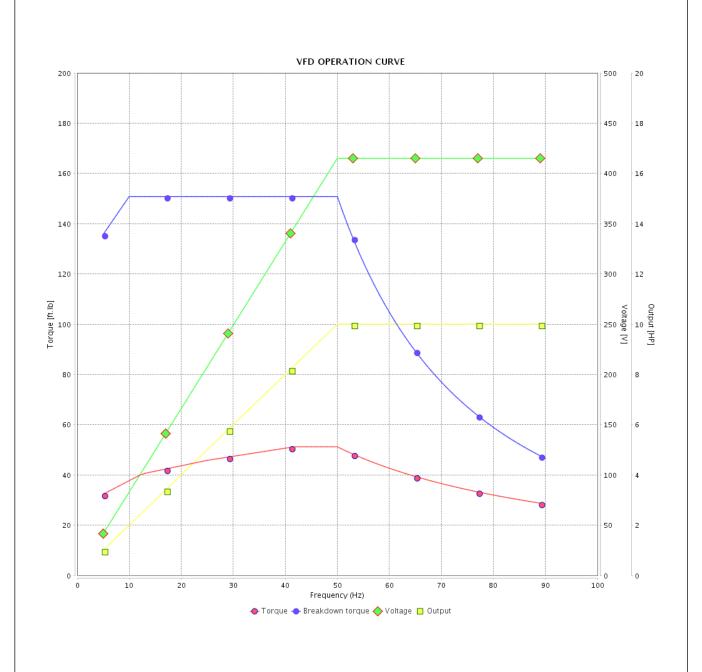
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 01012OT3E256TC-W40

14494124



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	ted current : 14.3 A Moment of		Moment of inertia (J) : 3.5			
LRC	: 6.	6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 53	3.9 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 22	29 %	Service fa	ctor	: 1.00	
Breakdown torque		30 %	Temperature rise		: 80 K	
Rated speed	: 97	75 rpm	Design		: B	
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