DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 04018OT3E324TSC-W40

14496819

Frame : 324TSC 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 : 574 lb
Protection degree : IP23 Moment of inertia (J) : 5.69 sq.ft.lb

Protection degree	е	: IP23	Moment of ine	ertia (J) : 5.69	sq.ft.lb
Design		: B			
Output [HP]		40	30	30	30
Poles	Poles		4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		95.2/47.6	43.3	42.2	41.7
L. R. Amperes [A]		590/295	290	283	313
LRC [A]		6.2x(Code G)	6.7x(Code H)	6.7x(Code H)	7.5x(Code J)
No load current [A]		37.0/18.5	18.3	20.3	22.1
Rated speed [RPN	/ 1]	1775 1.39	1475	1480	1480
Slip [%]	Slip [%]		1.67	1.33	1.33
Rated torque [ft.lb]		118	107	106	106
	Locked rotor torque [%]		229	260	280
Breakdown torque	[%]	240	270	300	330
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		23s (cold) 13s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	25s (cold) 14s (hot)
Noise level ²		66.0 dB(A)			
	25%	93.5	92.4	92.5	92.4
Efficiency (%)	50%	93.6	92.6	92.6	92.5
Linciency (70)	75%	94.1	93.0	93.0	93.0
100%		94.1	93.0	93.0	93.0
	25%	0.44	0.42	0.38	0.34
Power Factor	50%	0.70	0.68	0.63	0.59
1 OWCI I actor	75%	0.80	0.78	0.75	0.72
	100%	0.84	0.83	0.81	0.79

Drive end 6312 Z C3 Non drive end 6211 Z C3

Bearing type : 6312 Z C3 6211 Z C3 Sealing : Without Without

Bearing Seal Bearing Seal

Lubrication interval:20000 h20000 hLubricant amount:21 g11 gLubricant type:Mobil Polyrex EM

Foundation loads Max. traction Max. compression

Notes

USABLE @208V 105A SF 1.15 SFA 121A

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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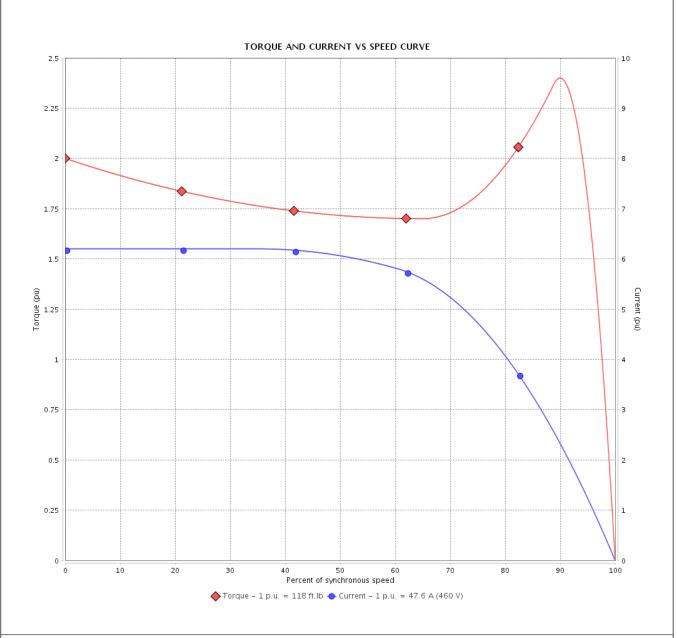
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496819

Catalog #: 04018OT3E324TSC-W40



Performance : 230/460 V 60 Hz 4P Rated current : 95.2/47.6 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 118 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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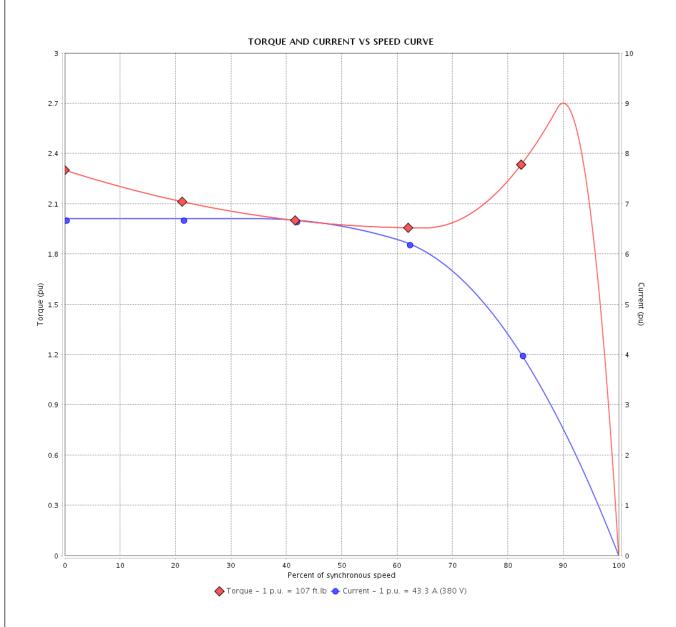


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14496819

Three-Phase

Catalog #: 04018OT3E324TSC-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 43.3 A	Moment of inertia (J)	: 5.69 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 1475 rpm	Design	: B	

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

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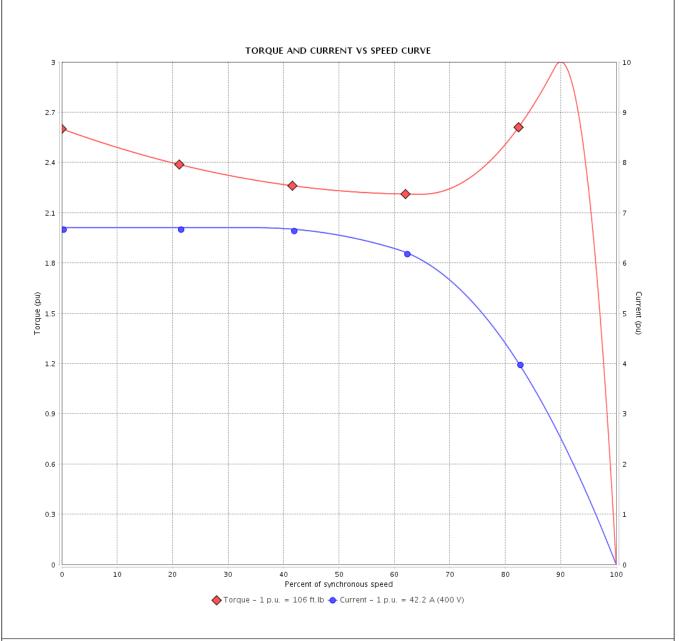
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496819

Catalog #: 04018OT3E324TSC-W40



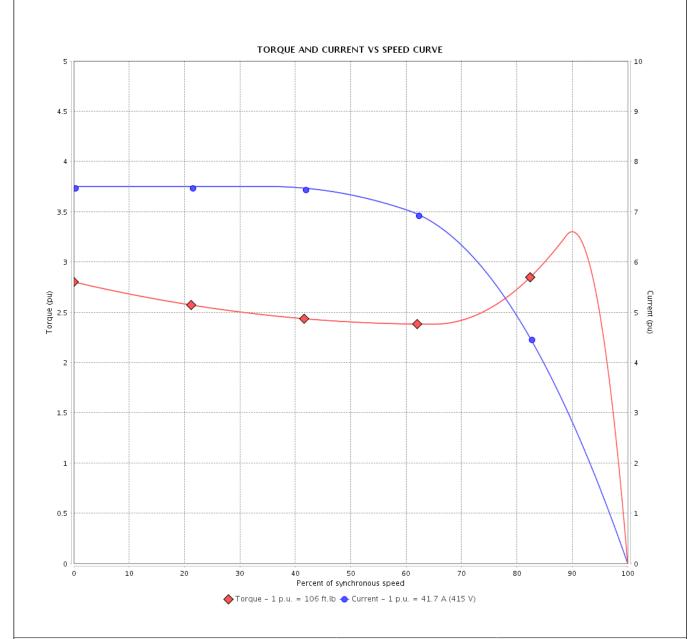
Performance : 400 V 50 Hz 4P IE3 Rated current : 42.2 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 260 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

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

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Performance : 415 V 50 Hz 4P IE3 Rated current : 41.7 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 106 ft.lb : F : 280 % Locked rotor torque Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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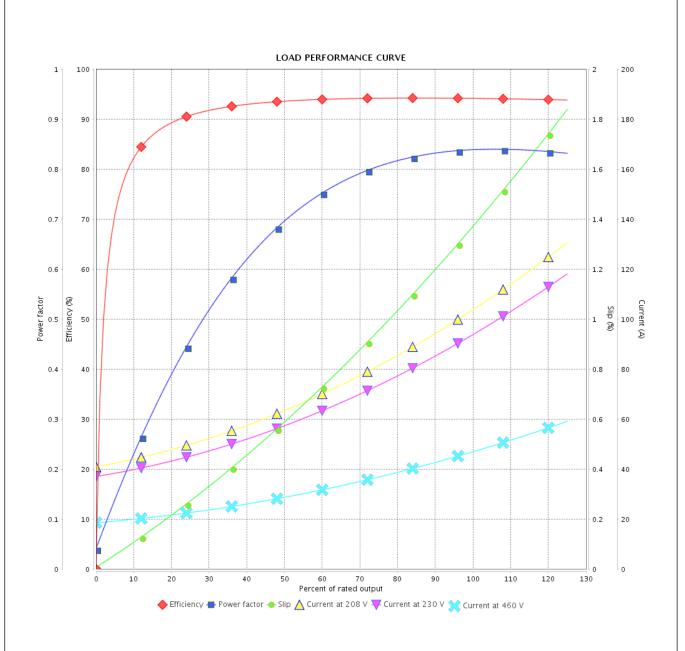
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496819

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Performance : 230/460 V 60 Hz 4P Rated current : 95.2/47.6 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** Duty cycle : 6.2 : Cont.(S1) : 118 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

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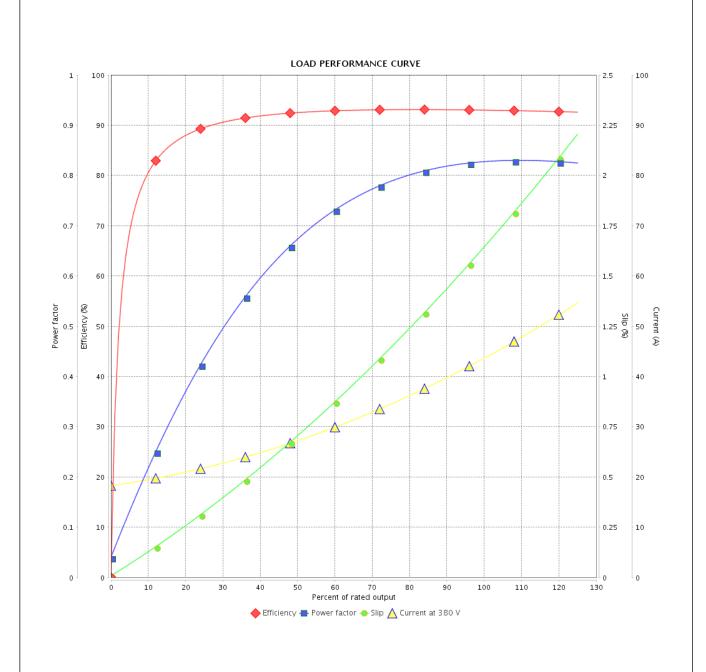


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14496819

Three-Phase

Catalog #: 04018OT3E324TSC-W40



Performance	: 3	880 V 50 Hz 4P IE3				
Rated current	: 4	3.3 A	Moment o	f inertia (J)	: 5.69 sq.ft.lb	
LRC	: 6	6.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	229 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	270 %	6 Temperature rise		: 80 K	
Rated speed	: 1	475 rpm	Design		: B	
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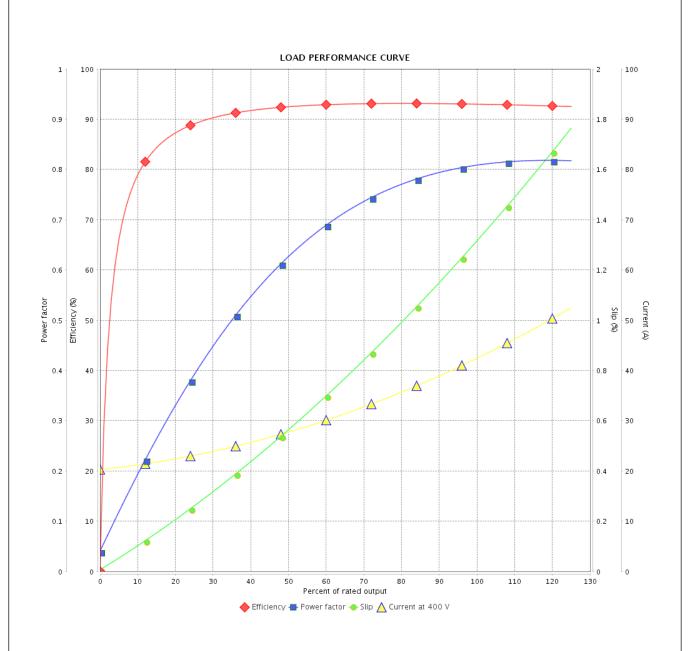
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496819

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Performance : 400 V 50 Hz 4P IE3 Rated current : 42.2 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage

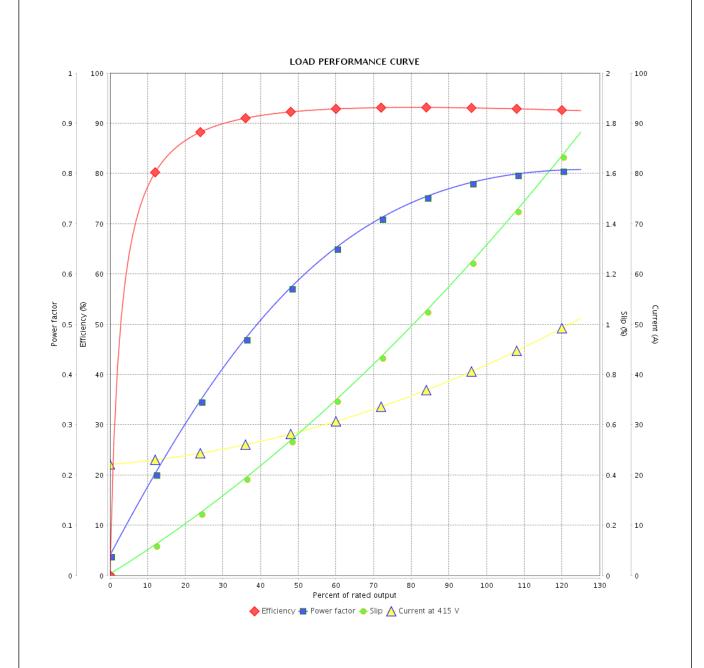


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Product line : W40 NEMA Premium Efficiency Product code : 14496819

Three-Phase

Catalog #: 04018OT3E324TSC-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 4	1.7 A	Moment o	f inertia (J)	: 5.69 sq.ft.lb	
LRC	: 7		Duty cycle	` '	: Cont.(S1)	
Rated torque	: 1	06 ft.lb	Insulation		: F	
Locked rotor torque	e : 2	80 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	30 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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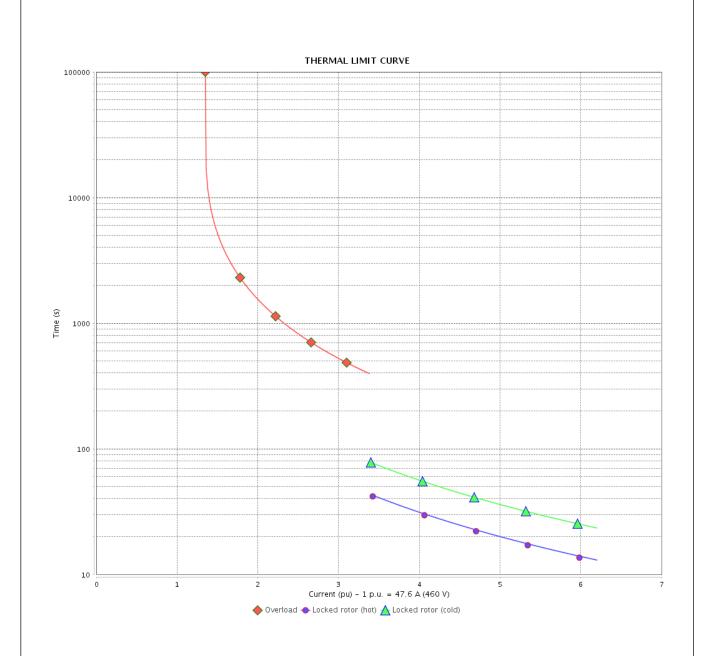


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Product line	: W40 NEMA Premium Efficie Three-Phase		14496819	04T00 \\\\\\
		Catalog # :	04018OT3E32	241SC-W40
Performance	: 230/460 V 60 Hz 4P	Manager Court Co	. 5.00	
Rated current LRC	: 95.2/47.6 A : 6.2	Moment of inertia (J) Duty cycle	: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 118 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.25	
Breakdown torque Rated speed	: 240 % : 1775 rpm	Temperature rise Design	: 80 K : B	
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Heating constant Cooling constant				
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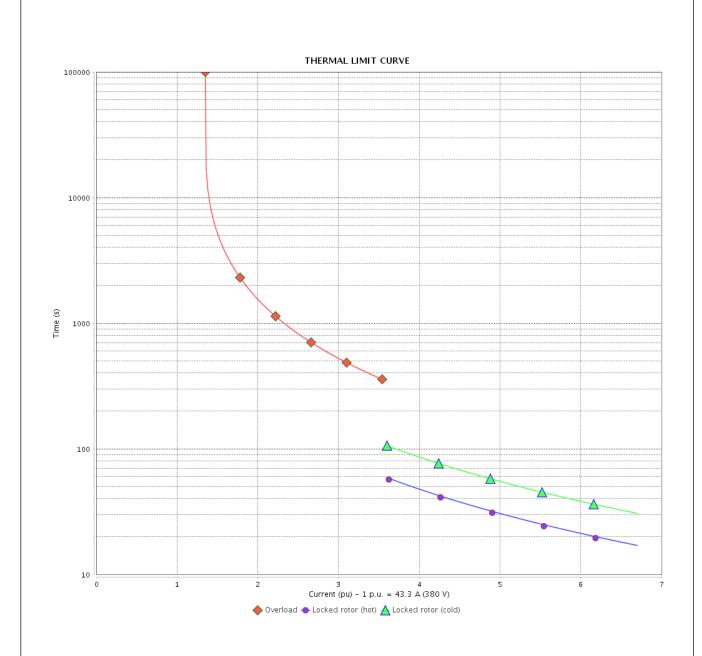


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Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14496819	
	'''	ilee-i ilase	(Catalog # :	04018OT3E3	24TSC-W40
Performance		80 V 50 Hz 4P IE3				
Rated current LRC	: 43 : 6.	3.3 A 7	Moment of Duty cycle	f inertia (J)	: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 10	07 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		29 % 70 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		175 rpm	Design		: B	
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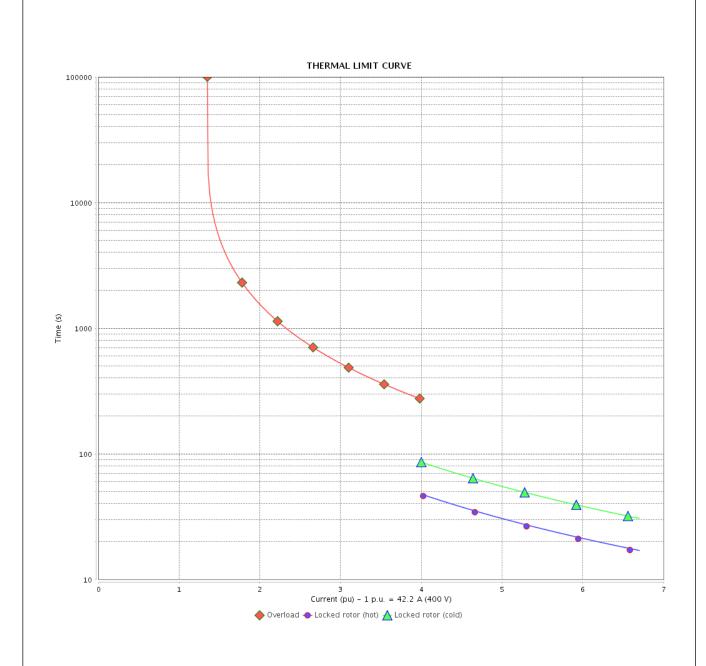


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Product line		N40 NEMA Premium Efficie nree-Phase	ency I	Product code :	14496819	
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Performance		00 V 50 Hz 4P IE3				
Rated current LRC	: 42 : 6.	2.2 A 7	Moment of Duty cycle	f inertia (J)	: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 10	06 ft.lb	Insulation	class	: F	
Locked rotor torq		60 %	Service fac	ctor	: 1.00	
Breakdown torqu Rated speed		00 % 480 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
Cooling constant						
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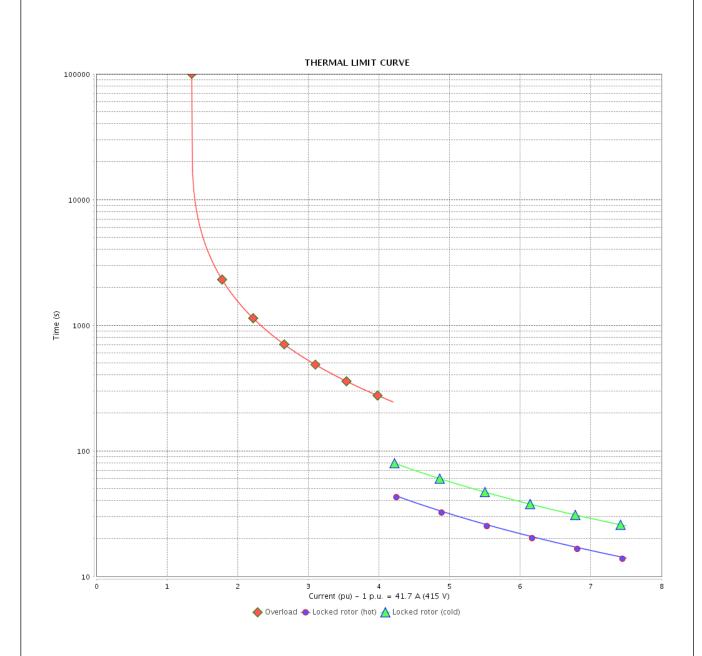


Customer	:			
Product line	: W40 NEMA Premium Effic Three-Phase	eiency Product code :	14496819	
		Catalog #:	04018OT3E3	24TSC-W40
Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.7 A : 7.5 : 106 ft.lb : 280 % : 330 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant Cooling constant				
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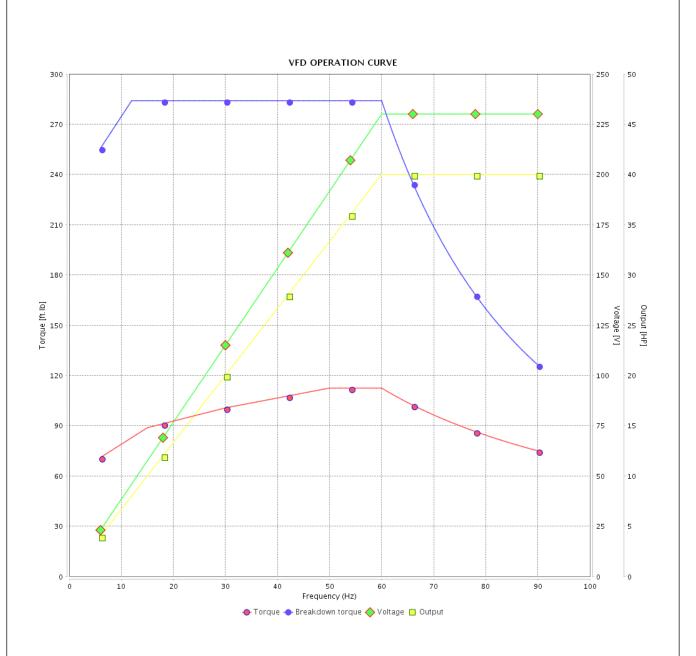
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496819

Catalog #: 04018OT3E324TSC-W40

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Performance	: 230/460 V 60 Hz 4P				
Rated current	: 95.2/47.6 A	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
LRC	: 6.2				
Rated torque	: 118 ft.lb				
Locked rotor torque	: 200 %				
Breakdown torque	: 240 %				
Rated speed	: 1775 rpm				
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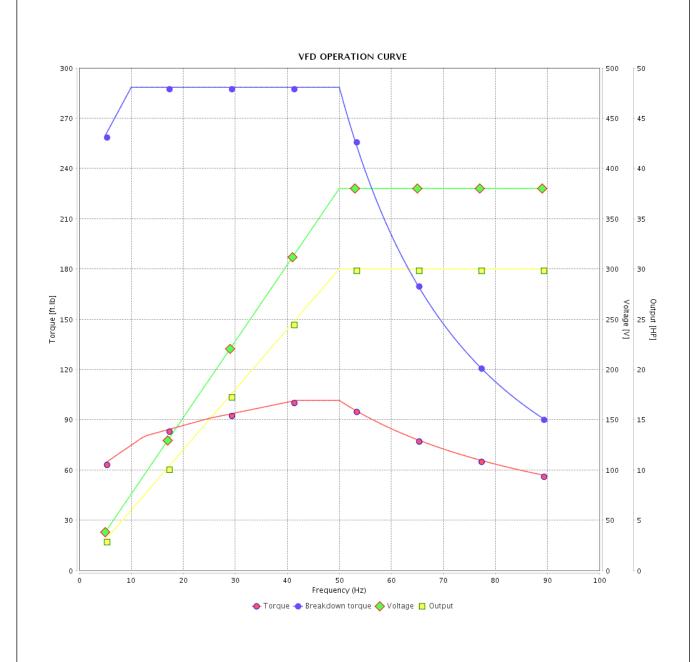
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Catalog #: 04018OT3E324TSC-W40

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Performance	: 380 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.3 A : 6.7 : 107 ft.lb : 229 % : 270 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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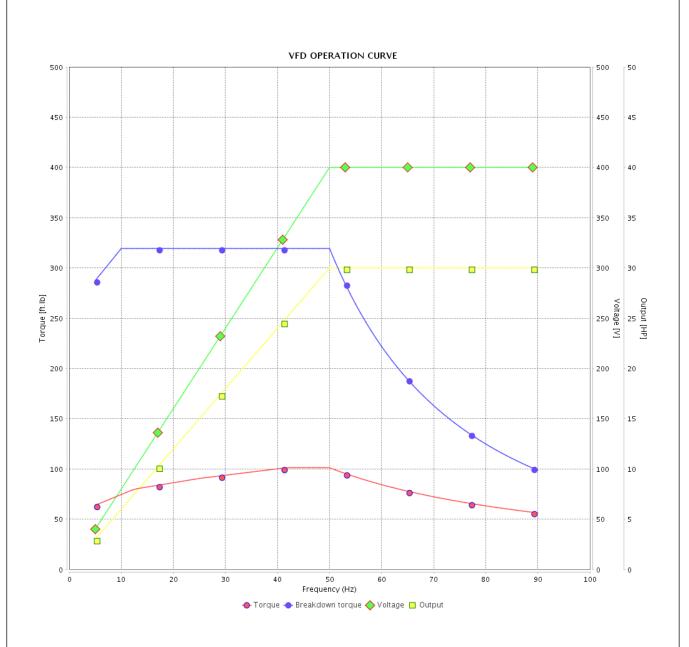
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496819

Catalog #: 04018OT3E324TSC-W40

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 42.2 A : 6.7 : 106 ft.lb : 260 % : 300 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Rev.	: 1480 rpm Changes Summary	Design	Performed	: B	Date
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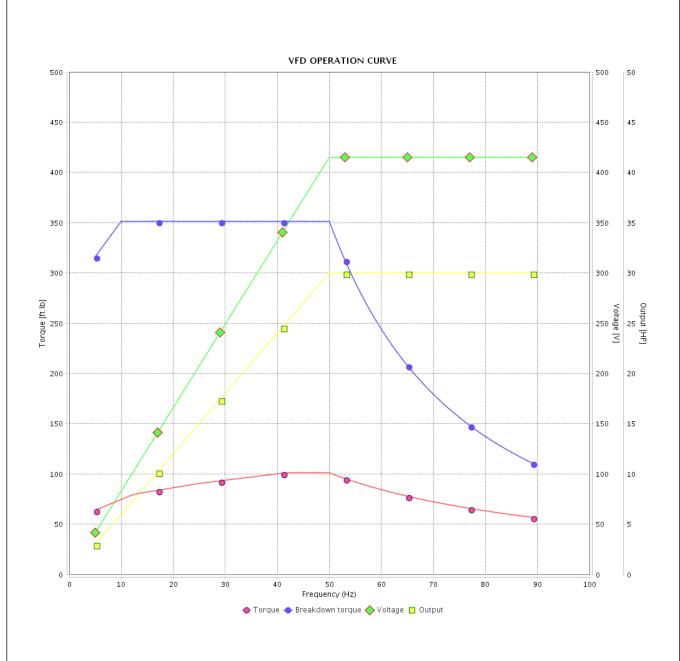
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Three-Phase

Catalog #: 04018OT3E324TSC-W40

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.7 A : 7.5 : 106 ft.lb : 280 % : 330 % : 1480 rpm	Duty cycle Insulation class Service factor Temperature rise		: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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