DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 15018OT3G444TSC-W40

14285009

Frame : 444/5TSC 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 : 1381 lb

Protection degree : IP23 Moment of inertia (J) : 42.1 sq.ft.lb

125
4
50
415
158
1138
7.2x(Code H)
66.5
1485
1.00
442
240
290
1.00
80 K
39s (cold) 22s (hot)
95.0
95.1
95.3
95.3
0.42
0.68
0.78
0.83

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6314 C3 6212 Z C3 Max. traction : 2727 lb Sealing : Without Without Max. compression : 4107 lb

Bearing Seal Bearing Seal

Lubrication interval:20000 h20000 hLubricant amount:27 g13 gLubricant type:Mobil Polyrex EM

Lubricant type : Mobil Polyr

Notes

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	13/04/2022			1 / 21	

Three Phase Induction Motor - Squirrel Cage



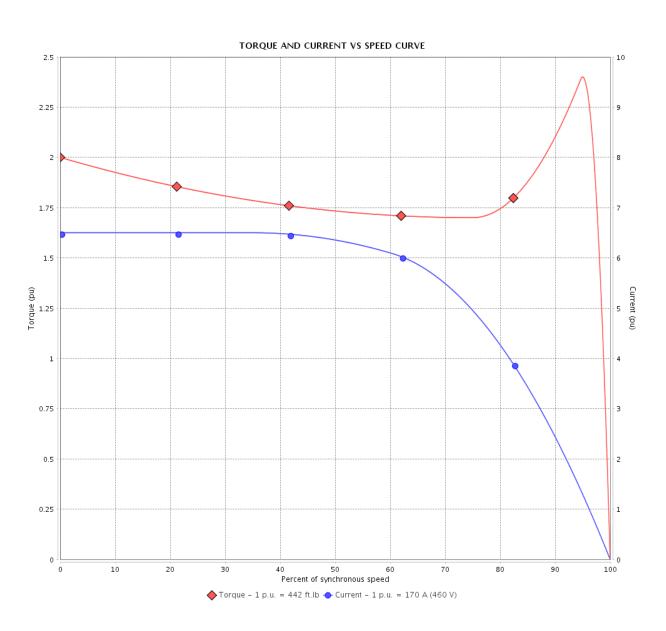
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285009

Catalog #: 15018OT3G444TSC-W40



Performance	: 460 V 60 Hz 4P		
Rated current	: 170 A	Moment of inertia (J)	: 42.1 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 442 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1784 rpm	Design	: B
Locked rotor time	: 39s (cold) 22s (hot)	1	

Locked rotor time : 39s (cold) 22s (hot)

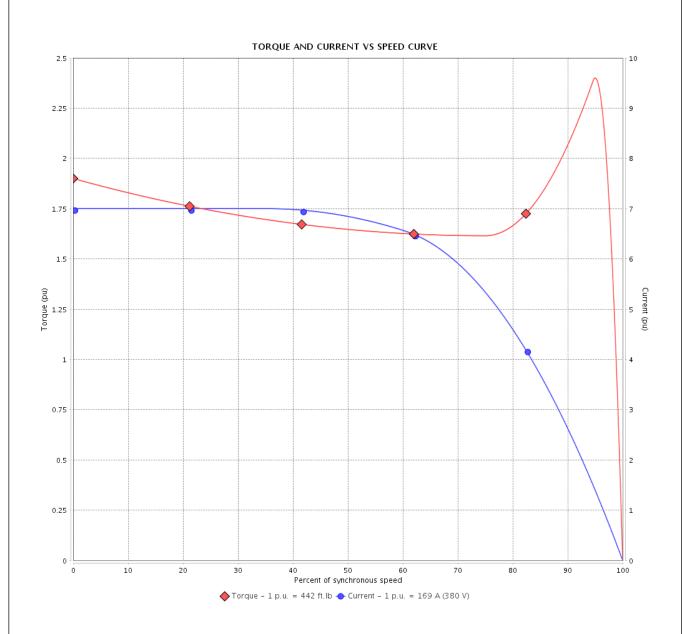
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14285009

> Catalog #: 15018OT3G444TSC-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 169 A	Moment of inertia (J)	: 42.1 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 442 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1485 rpm	Design	: B	
Locked rotor time	: 37s (cold) 21s (hot)			-

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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022	_		3 / 21	

Three Phase Induction Motor - Squirrel Cage

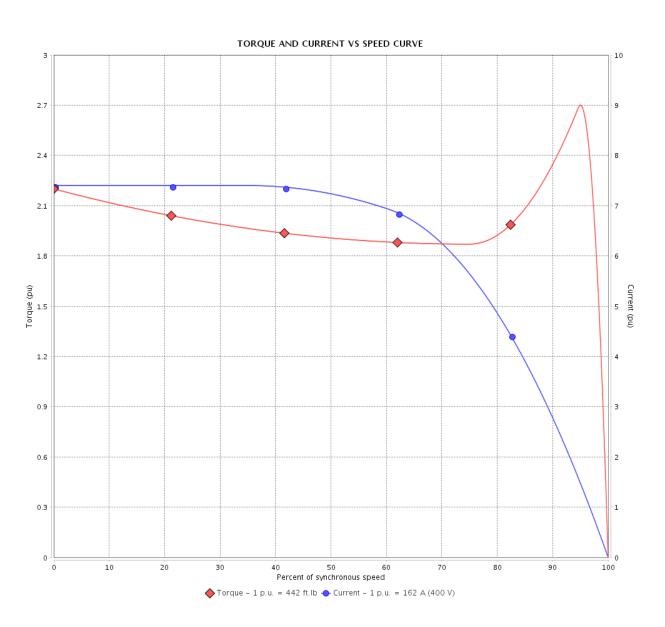


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14285009

Three-Phase

Catalog #: 15018OT3G444TSC-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 162 A Moment of inertia (J) : 42.1 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 442 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 21	



Revision

Page

5/21

Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 14285009 Three-Phase Catalog #: 15018OT3G444TSC-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 442 ft.lb ◆ Current - 1 p.u. = 158 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 158 A Moment of inertia (J) : 42.1 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 442 ft.lb : F : 240 % Locked rotor torque Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Locked rotor time : 39s (cold) 22s (hot) Date Performed Checked Rev. **Changes Summary**

Performed by Checked by

Date

13/04/2022

Three Phase Induction Motor - Squirrel Cage



Customer :

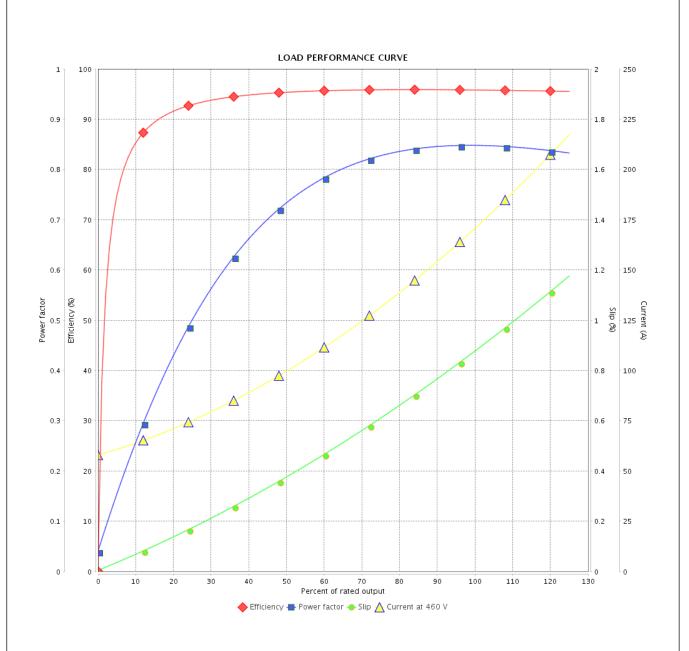
Product line : W40 NEMA Premium Efficiency P

Three-Phase

Product code: 14285009

Catalog #: 15018OT3G444TSC-W40

6/21



Performance	: 4	60 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		70 A .5 42 ft.lb 00 % 40 % 784 rpm	Duty cycle : Co Insulation class : F Service factor : 1.3		: 1.25 : 80 K	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

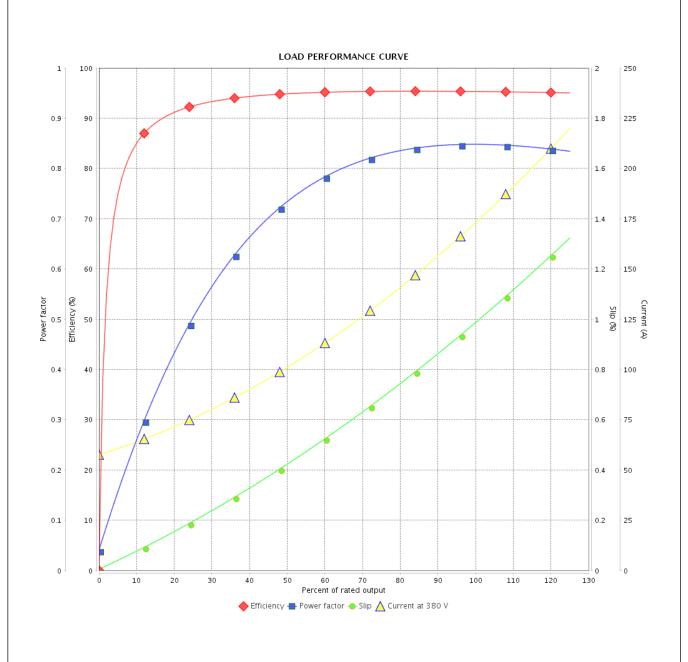


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14285009

Three-Phase

Catalog #: 15018OT3G444TSC-W40



Performance	: 3	880 V 50 Hz 4P IE3				
Rated current	: 1	69 A	Moment o	f inertia (J)	: 42.1 sq.ft.lb	
LRC	: 7	' .0	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	42 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperati	Temperature rise		
Rated speed	: 1	485 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				7 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

13/04/2022

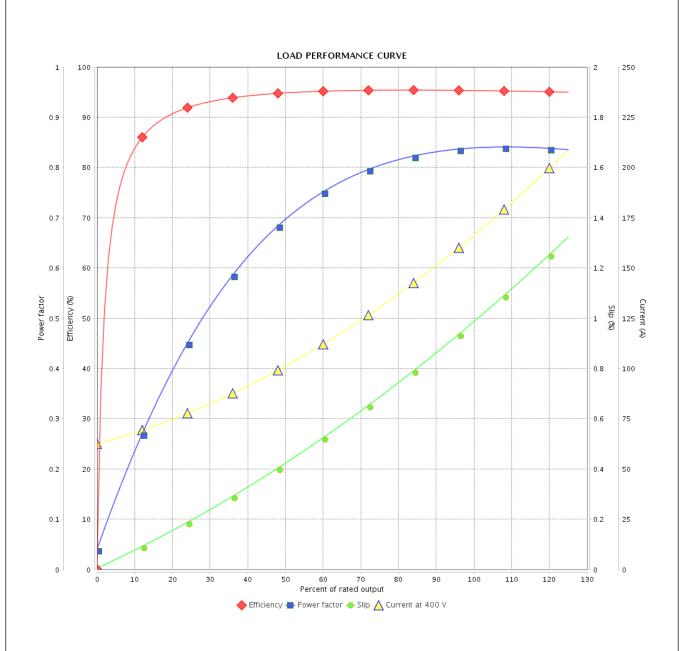
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285009

Catalog #: 15018OT3G444TSC-W40

8 / 21



Performance : 400 V 50 Hz 4P IE3 : 162 A Rated current Moment of inertia (J) : 42.1 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 442 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



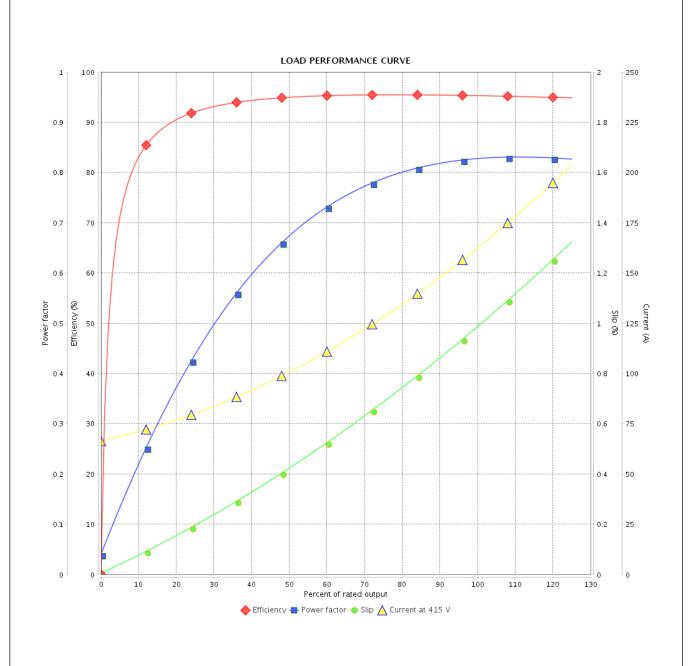
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog # : 15018OT3G444TSC-W40

14285009



Performance	: 4	415 V 50 Hz 4P IE3				
Rated current	: .	158 A	Moment o	f inertia (J)	: 42.1 sq.ft.lb	
LRC	: 7	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	442 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	240 %	Service fa	Service factor		
Breakdown torque	: 2	290 %	Temperati	Temperature rise		
Rated speed	: '	1485 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				9 / 21	

Three Phase Induction Motor - Squirrel Cage

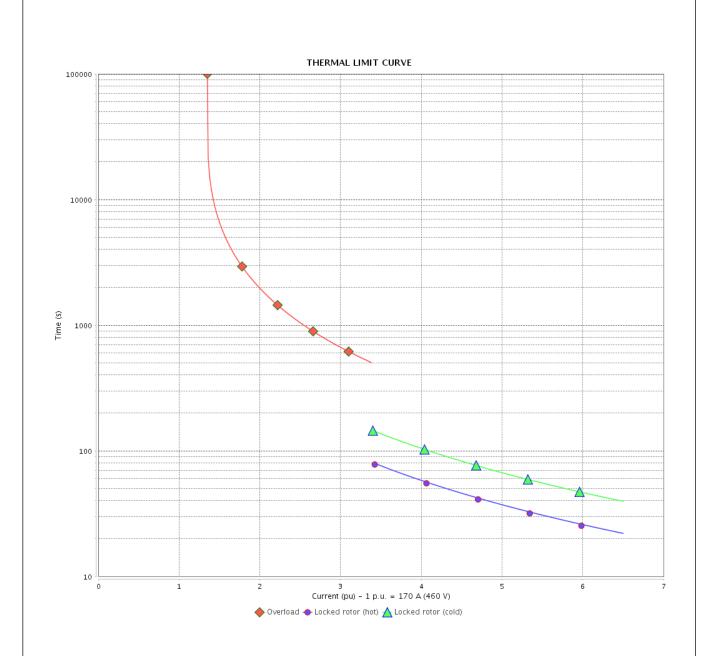


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Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14285009	
	''	ilee i ilaee	(Catalog # :	15018OT3G4	44TSC-W40
Performance		60 V 60 Hz 4P				
Rated current LRC	: 17 : 6.	70 A 5	Moment of Duty cycle	f inertia (J)	: 42.1 sq.ft.lb : Cont.(S1)	
Rated torque		12 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 40 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		784 rpm	Design		: B	
Heating constant						
Cooling constant		01 0				
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
D-4	40/04/0000				10 / 04	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			11 / 21	

Three Phase Induction Motor - Squirrel Cage

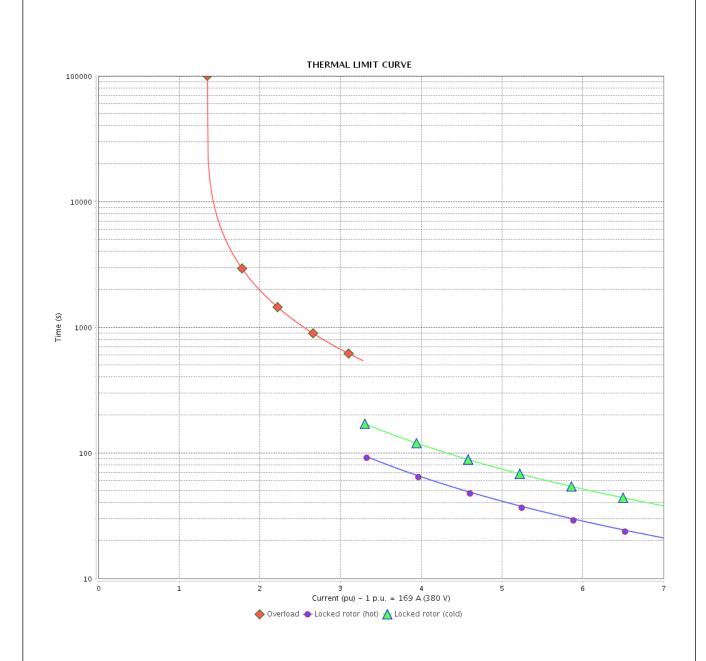


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Product line		N40 NEMA Premium Effici	ency I	Product code :	14285009	
	TI	nree-Phase	(Catalog # :	15018OT3G4	44TSC-W40
Performance		30 V 50 Hz 4P IE3	Marrie	finantic (1)	. 40 4 = · 6 II	
Rated current LRC	: 16 : 7.	69 A 0	Moment of Duty cycle	f inertia (J)	: 42.1 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	12 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		90 % 40 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		185 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
D-4	40/04/0000	-			40.404	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			13 / 21	

Three Phase Induction Motor - Squirrel Cage

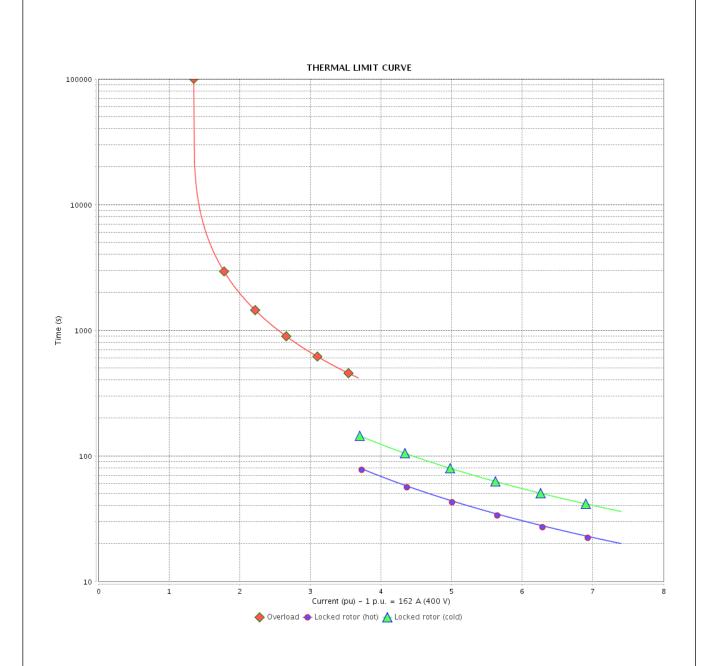


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Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14285009 15018OT3G4	44TSC-W40
Performance		: 400 V 50 Hz 4P IE3	N4	Construction (II)	40.4 6.11	
Rated current LRC		: 162 A : 7.4	Duty cycle		: 42.1 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 442 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 270 %	Temperati		: 80 K	
Rated speed		: 1485 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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Performed by				1		
Checked by					Page	Revision
Date	13/04/2022				14 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			15 / 21	

Three Phase Induction Motor - Squirrel Cage

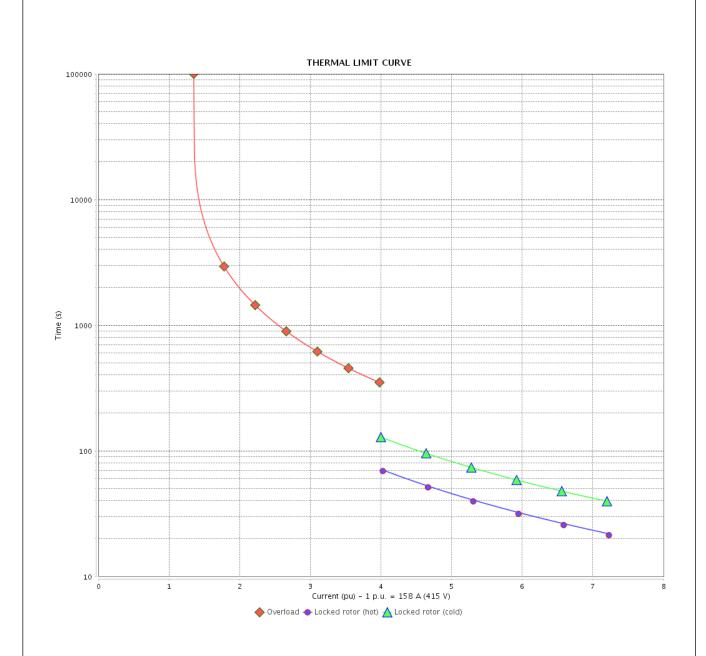


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code :	14285009 15018OT3G4	44TSC-W40
				Catalog # :	15018OT3G4	44TSC-W40
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant	ue que	415 V 50 Hz 4P IE3 158 A 7.2 442 ft.lb 240 % 290 % 1485 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 42.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
Performed by Checked by	13/04/2022				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	13/04/2022			17 / 21	

Three Phase Induction Motor - Squirrel Cage



Revision

Page

18 / 21

Customer :

Checked by

Date

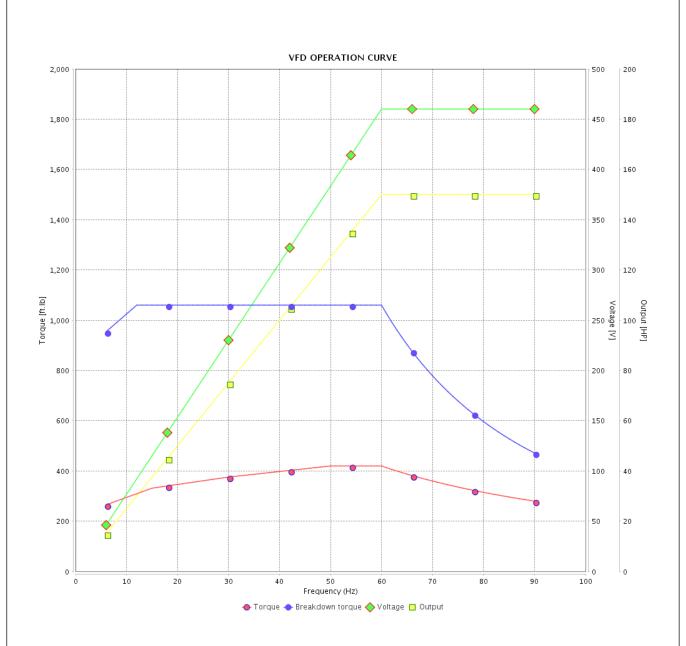
13/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285009

Catalog #: 15018OT3G444TSC-W40



Performance : 460 V 60 Hz 4P : 170 A Rated current Moment of inertia (J) : 42.1 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 : 442 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1784 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

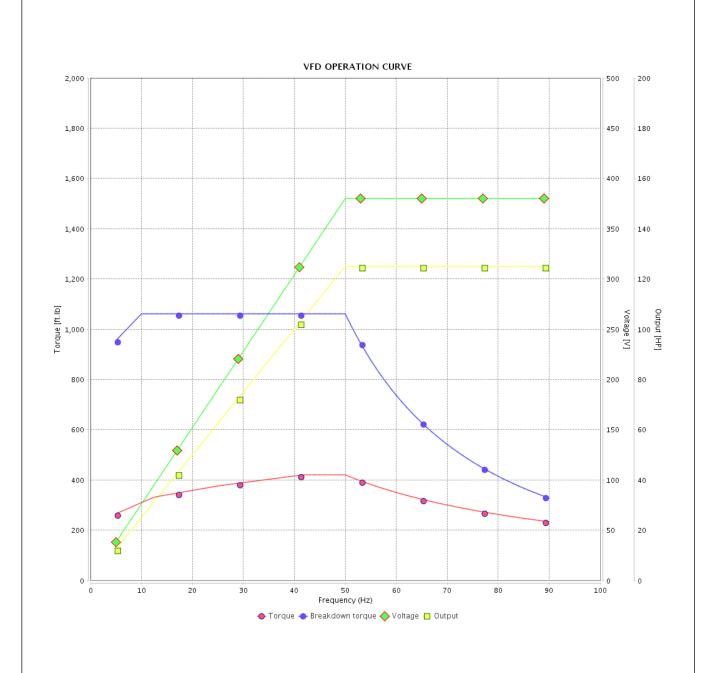


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14285009

Three-Phase

Catalog #: 15018OT3G444TSC-W40



Performance	: 3	380 V 50 Hz 4P IE3			,		
Rated current : 169 A				f inertia (J)	: 42.1 sq.ft.lb		
LRC :7			Duty cycle	` '	: Cont.(S1)		
		.6 42 ft. b	Insulation		: F		
Locked rotor torqu	e :1	190 %	Service factor		: 1.00		
Breakdown torque		240 %	Temperati	Temperature rise		: 80 K	
Rated speed		485 rpm	Design	Design			
Rev.		Changes Summa	ry	Performed	Checked	Date	
Performed by							
Checked by		_			Page	Revision	
Date	13/04/2022				19 / 21		

Three Phase Induction Motor - Squirrel Cage



Customer :

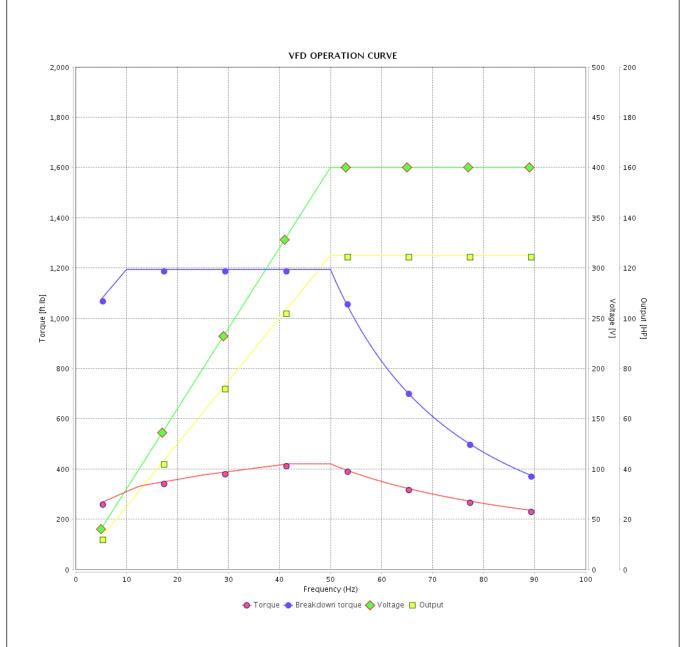
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285009

Catalog #: 15018OT3G444TSC-W40

20 / 21



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current : 162 A LRC : 7.4 Rated torque : 442 ft.lb Locked rotor torque : 220 % Breakdown torque : 270 % Rated speed : 1485 rpm		4 42 ft.lb 20 % 70 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 42.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

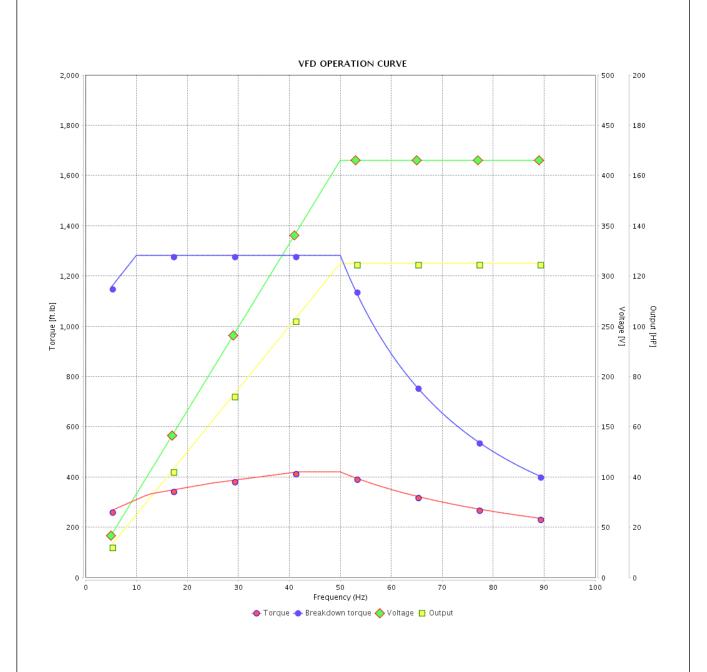


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14285009

Three-Phase

Catalog #: 15018OT3G444TSC-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 1	158 A Moment of inertia (J)		f inertia (J)	: 42.1 sq.ft.lb	
LRC : 7.2		.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	42 ft.lb	Insulation class		: F	
Locked rotor tord	que : 2	40 %	Service factor		: 1.00	
Breakdown torque : 290		90 %	Temperati	Temperature rise		
Rated speed	: 1	185 rpm Design		: B		
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				21 / 21	

