DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 15036OT3G405TSC-W40

14272544

Frame : 404/5TSC Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ Altitude : 905 lb

Protection degree : IP23 Moment of inertia (J) : 8.80 sq.ft.lb					
Design		: B			
Output [HP]		150	100	100	100
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		167	137	133	133
L. R. Amperes [A]		1102	986	1051	1117
LRC [A]		6.6x(Code G)	7.2x(Code H)	7.9x(Code J)	8.4x(Code K)
No load current [A]]	40.0	43.8	43.7	48.9
Rated speed [RPM	1]	3552	2960	2965	2965
Slip [%]		1.33	1.33	1.17	1.17
Rated torque [ft.lb]	Rated torque [ft.lb]		177	177	177
Locked rotor torqu	Locked rotor torque [%]		229	250	270
Breakdown torque	[%]	250	290	330	360
Service factor		1.25	1.00 1.00		1.00 80 K
Temperature rise		80 K	80 K	80 K 80 K	
Locked rotor time		16s (cold) 9s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)
Noise level ²		84.0 dB(A)			
	25%	93.5	93.3	92.6	91.8
Efficiency (%)	50%	93.6	93.7	93.2	92.7
Efficiency (70)	75%	94.1	94.4	94.2	93.9
	100%	94.1	94.7	94.7	94.7
	25%	0.58	0.51	0.47	0.43
Power Factor	50%	0.79	0.76	0.70	0.65
1 OWELL ACIO	75%	0.86	0.85	0.81	0.77
	100%	0.88	0.88	0.86	0.83

Drive end Non drive end Foundation loads

Bearing type 6314 C3 6212 Z C3 Max. traction : 1459 lb Without Sealing Without Max. compression : 2364 lb

Bearing Seal Bearing Seal

14418 h 20000 h Lubrication interval 13 g Lubricant amount Lubricant type Mobil Polyrex EM

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



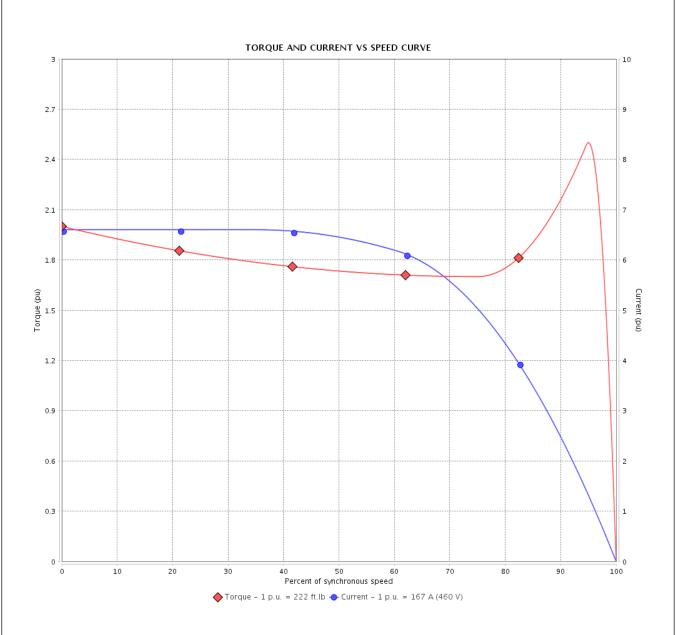
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272544

Catalog #: 15036OT3G405TSC-W40



Performance : 460 V 60 Hz 2P Rated current : 167 A Moment of inertia (J) : 8.80 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 222 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3552 rpm Design : B

Locked rotor time : 16s (cold) 9s (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

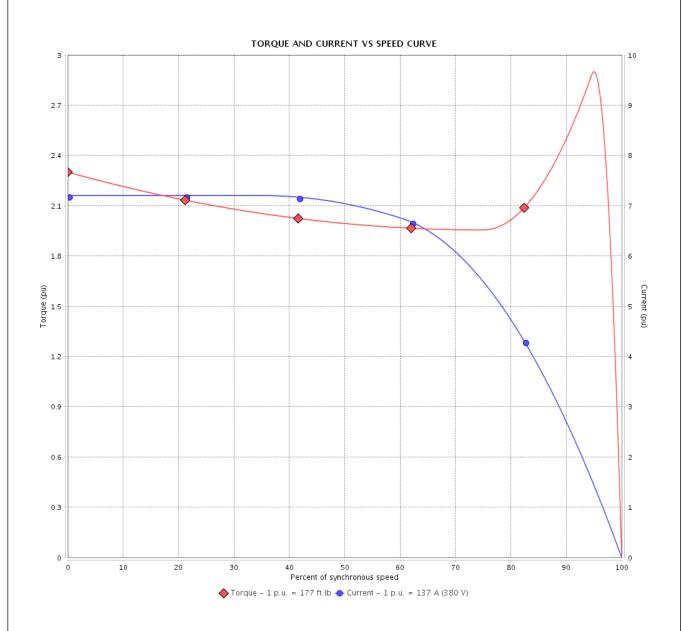
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #:

14272544

15036OT3G405TSC-W40



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 137 A	Moment of inertia (J)	: 8.80 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 2960 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

Locked rotor time : 21s (cold) 12s (hot)

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

Three Phase Induction Motor - Squirrel Cage



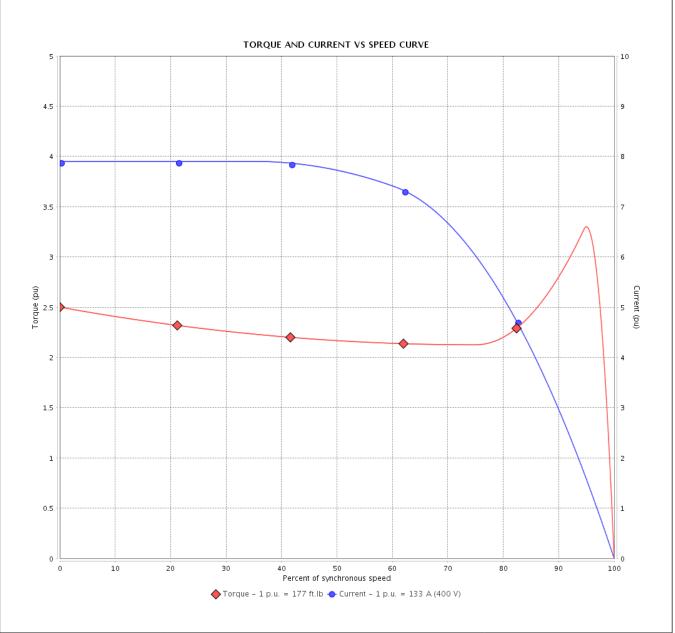
Customer :

Product line : W40 NEMA Premium Efficiency F

Three-Phase

Product code: 14272544

Catalog #: 15036OT3G405TSC-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 133 A Moment of inertia (J) : 8.80 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 177 ft.lb : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : B : 2965 rpm Design

Locked rotor time : 19s (cold) 11s (hot)

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

Three Phase Induction Motor - Squirrel Cage

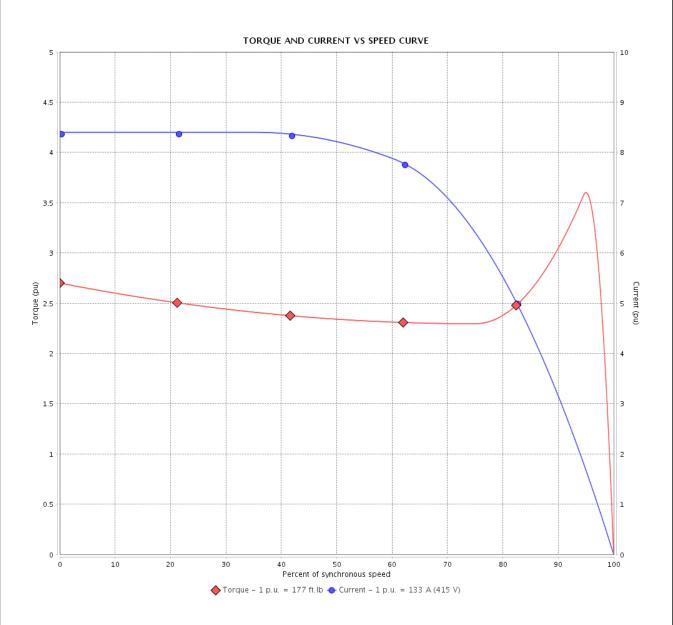


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272544

Three-Phase

Catalog #: 15036OT3G405TSC-W40



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 133 A	Moment of inertia (J)	: 8.80 sq.ft.lb	
LRC	: 8.4	Duty cycle	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	:F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 360 %	Temperature rise	: 80 K	
Rated speed	: 2965 rpm	Design	: B	

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

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5 / 21	

Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 21

Customer :

Checked by

Date

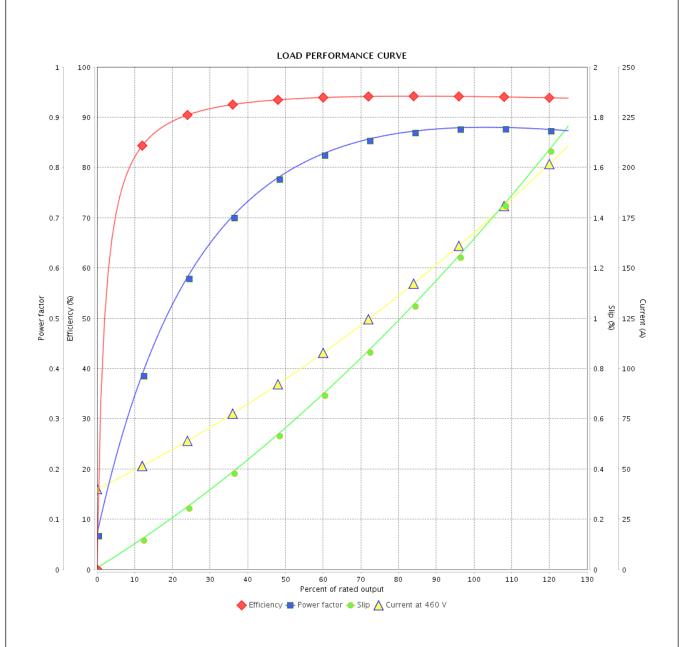
13/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272544

Catalog #: 15036OT3G405TSC-W40



Performance : 460 V 60 Hz 2P : 167 A Rated current Moment of inertia (J) : 8.80 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 222 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3552 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

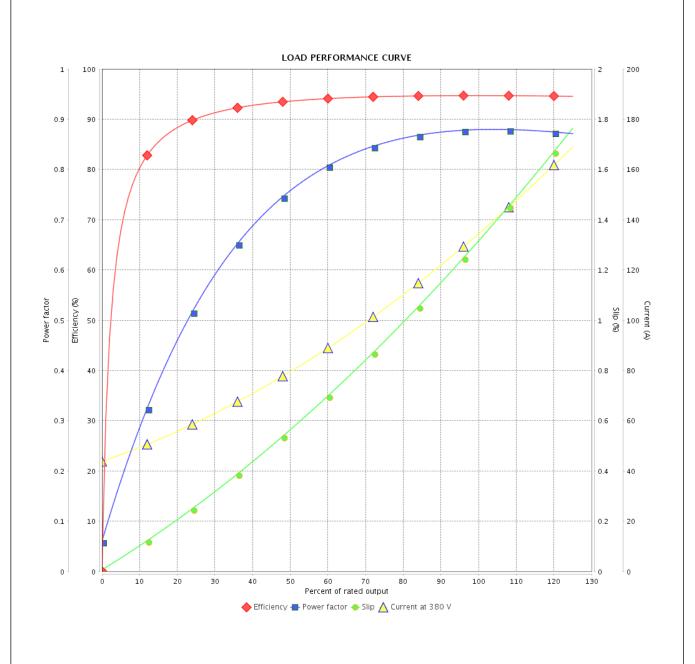


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272544

Three-Phase

Catalog #: 15036OT3G405TSC-W40



Performance	::	: 380 V 50 Hz 2P IE3				
Rated current	:	137 A	Moment o	f inertia (J)	: 8.80 sq.ft.lb	
LRC	: '	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	177 ft.lb	Insulation	class	: F	
Locked rotor torque		229 %	Service fa	ctor	: 1.00	
Breakdown torque	e ::	290 %	Temperati	Temperature rise		
Rated speed	::	2960 rpm	m 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



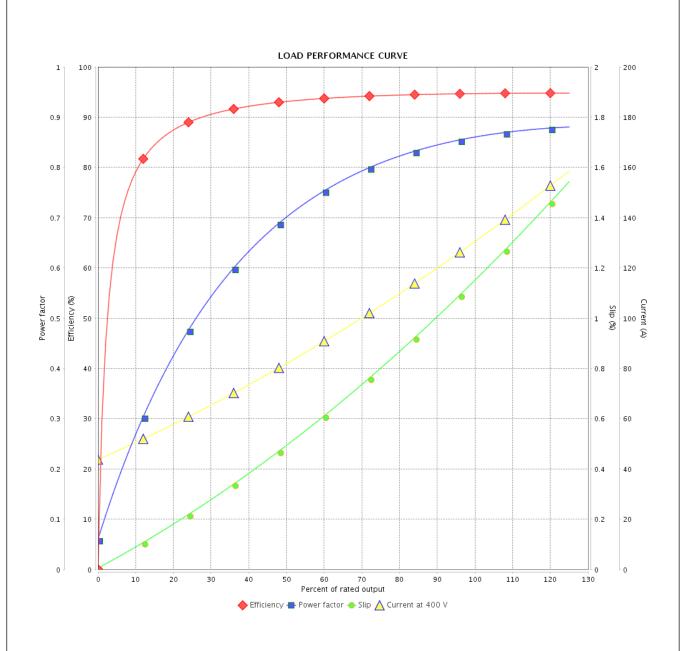
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272544

Catalog #: 15036OT3G405TSC-W40



Performance	: 4	: 400 V 50 Hz 2P IE3				
Rated current : 133 A		33 A	Moment of	of inertia (J)	: 8.80 sq.ft.lb	
LRC	: 7	'.9	Duty cycle	е	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torque : :		250 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 3	30 %	Temperat	Temperature rise		
Rated speed	: 2	: 2965 rpm Design		: B		
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022	1			8 / 21	

Three Phase Induction Motor - Squirrel Cage

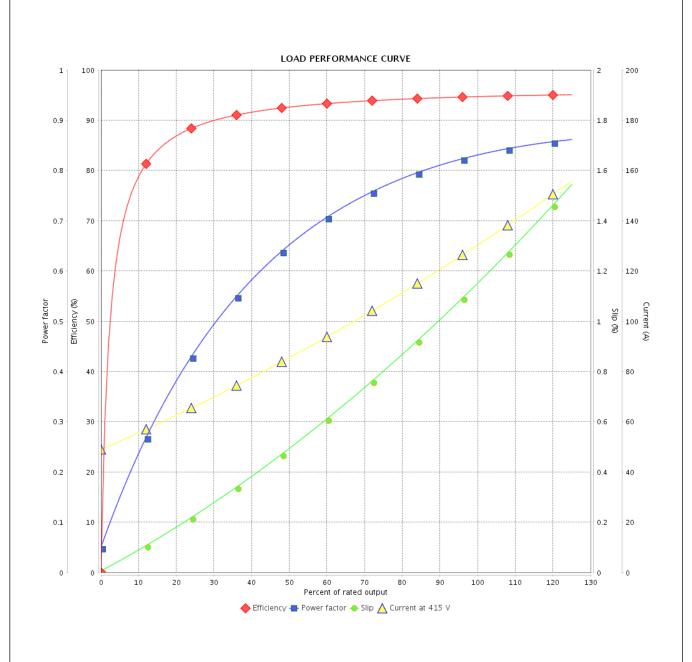


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272544

Three-Phase

Catalog #: 15036OT3G405TSC-W40



Performance	erformance : 415 V 50 Hz 2P IE3					
Rated current	: 1	33 A	Moment o	f inertia (J)	: 8.80 sq.ft.lb	
LRC	: 8	.4	Duty cycle	:	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torque : 270 %		70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	60 %	Temperature rise		: 80 K	
Rated speed	: 2	: 2965 rpm		Design		
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				9 / 21	

Three Phase Induction Motor - Squirrel Cage

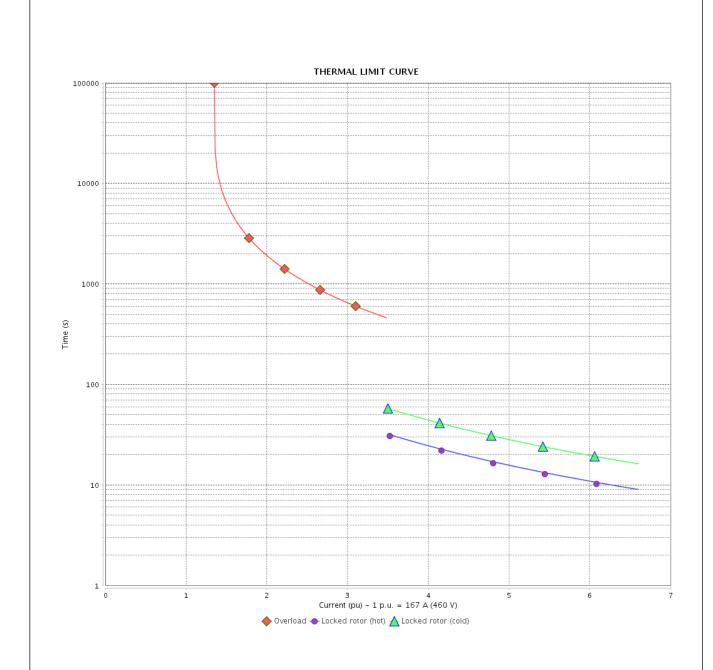


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Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14272544 15036OT3G4	05TSC-W40
Performance		: 460 V 60 Hz 2P				
Rated current LRC	:	: 167 A : 6.6	Duty cycle		: 8.80 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 222 ft.lb : 200 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue :	: 250 %	Temperati		: 80 K	
Rated speed	:	: 3552 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	13/04/2022				10 / 21	

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

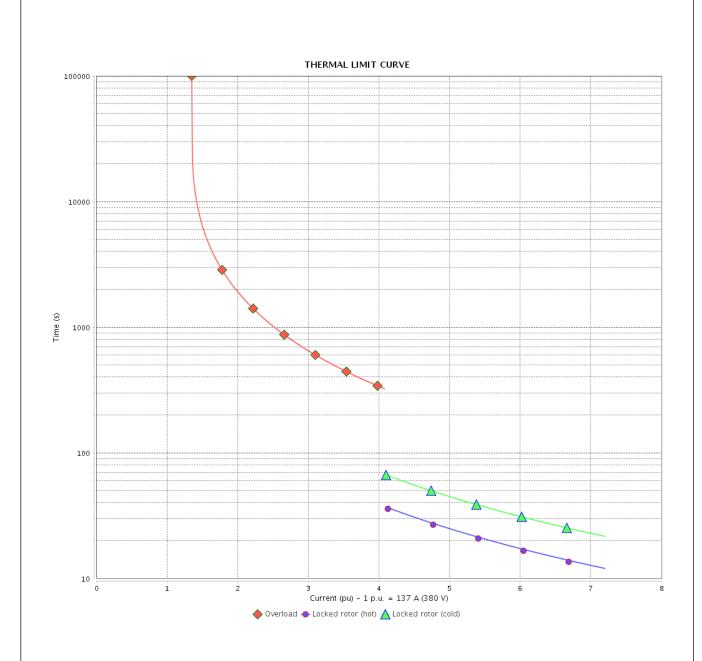


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Product line		W40 NEMA Premium Efficionree-Phase		Product code :	14272544	05700 1440
				Catalog # :	15036OT3G4	051SC-W40
Performance		30 V 50 Hz 2P IE3				
Rated current LRC	: 13 : 7.	37 A 2	Moment of Duty cycle	f inertia (J)	: 8.80 sq.ft.lb : Cont.(S1)	
Rated torque	: 17	77 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		29 % 90 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed		960 rpm	Design	110 110 0	: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Performed by					Dogo	Dovicio:
Checked by	40/04/0007				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			13 / 21	

Three Phase Induction Motor - Squirrel Cage

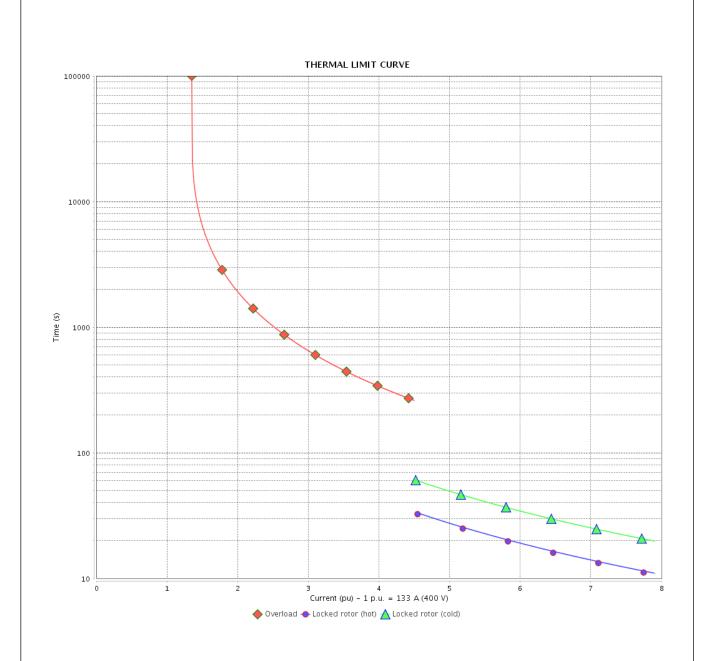


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14272544 15036OT3G4	05TSC-W40
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC	:	: 133 A : 7.9	Duty cycle		: 8.80 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 177 ft.lb : 250 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 250 % : 330 %	Temperati		: 1.00 : 80 K	
Rated speed		: 2965 rpm	Design		: B	
Heating constant						
Cooling constant	t 	Changes Commercial		Dorform	Charles I	Data
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
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

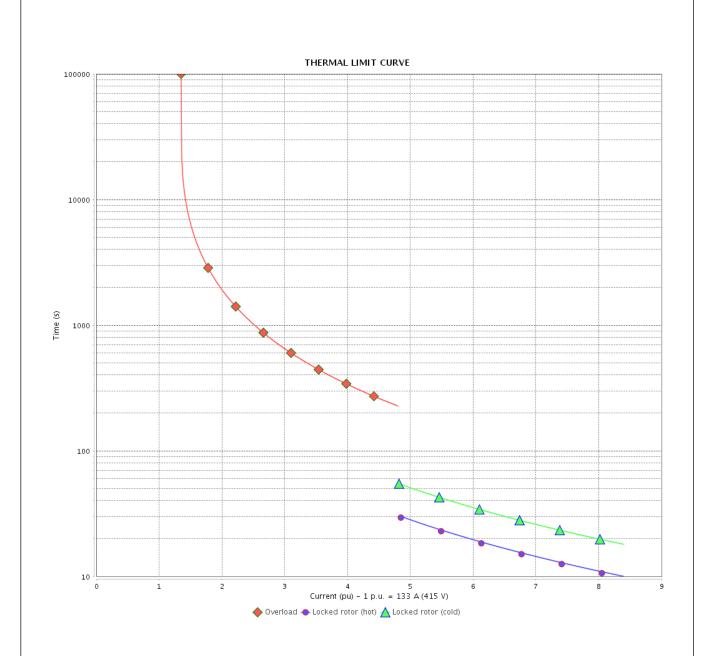


Customer	:					
Product line	: \ Ti	W40 NEMA Premium Efficion hree-Phase		Product code :	14272544 15036OT3G4	05TSC-W40
Performance		15 V 50 Hz 2P IE3				
Rated current LRC	: 8.		Moment of Duty cycle		: 8.80 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc		77 ft.lb 70 %	Insulation Service fac		: F : 1.00	
Breakdown torqu Rated speed	ie : 30	60 % 965 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Data	12/04/2022	1			16 / 21	

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

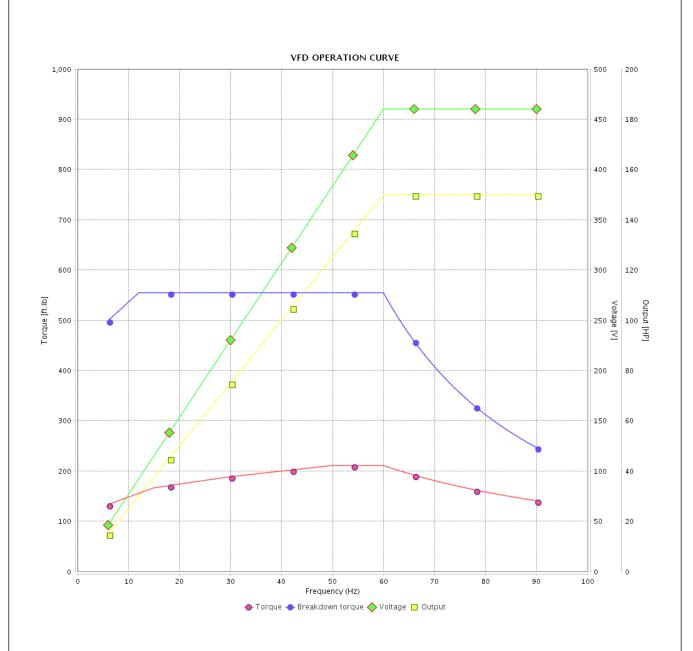
13/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272544

Catalog #: 15036OT3G405TSC-W40



Performance : 460 V 60 Hz 2P : 167 A Rated current Moment of inertia (J) : 8.80 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 222 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3552 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



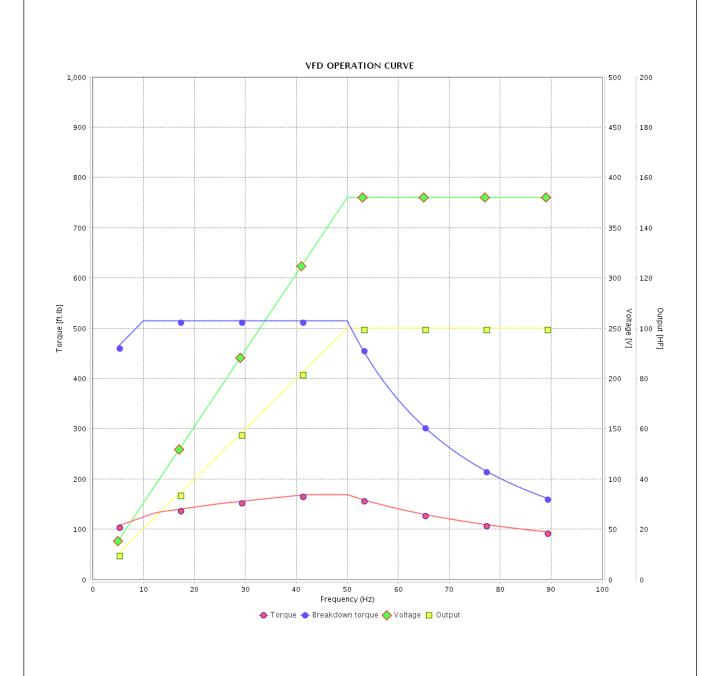
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Three-Phase

Catalog #: 15036OT3G405TSC-W40

14272544



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 1:	: 137 A Moment of		f inertia (J)	: 8.80 sq.ft.lb	
LRC	: 7.	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 29	90 %	Temperati	Temperature rise		
Rated speed	: 29	960 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022	1			19 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

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Three-Phase

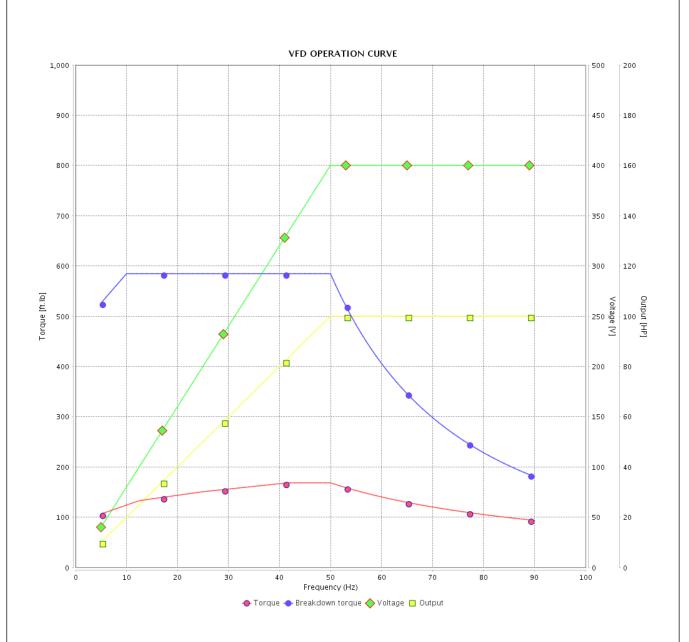
Product code: 14272544

Catalog #: 15036OT3G405TSC-W40

Page

20 / 21

Revision



Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 133 A : 7.9 : 177 ft.lb : 250 % : 330 % : 2965 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 8.80 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary	у	Performed	Checked	Date
Performed by					·	

Three Phase Induction Motor - Squirrel Cage

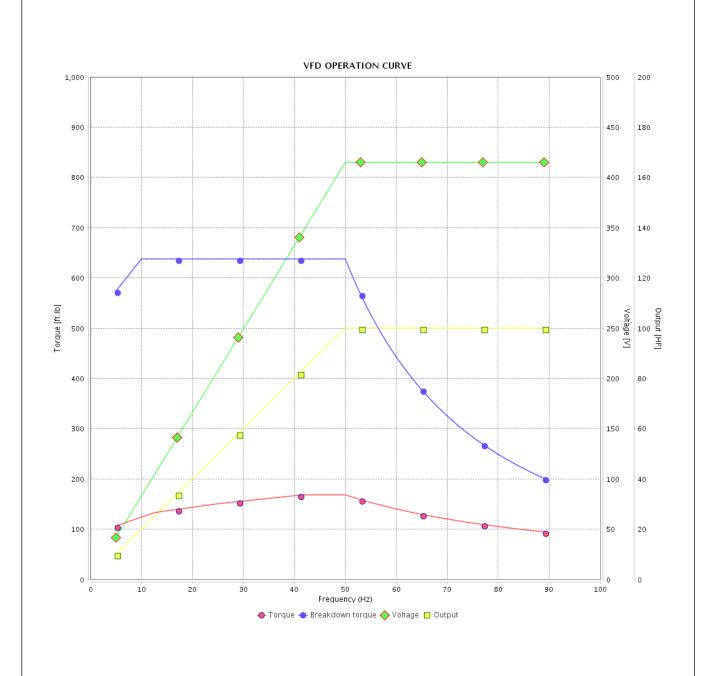


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272544

Three-Phase

Catalog #: 15036OT3G405TSC-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 1	33 A	Moment o	f inertia (J)	: 8.80 sq.ft.lb	
LRC	: 8	.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	60 %	Temperati	Temperature rise		
Rated speed	: 2	965 rpm	Design		: B	
Rev. Changes Su		Changes Summary		Performed	Checked	Date
- · · · · · ·		1				
Performed by						
Checked by					Page	Revision
Date	13/04/2022	1			21 / 21	

