DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14495708

Three-Phase

Catalog #: 03018OT3E286TC-W40

Frame : 284/6TC 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 : 405 lb
Protection degree : IP23 Moment of inertia (J) : 4.52 sq.ft.lb

Protection degree		: IP23	Moment of ine	Moment of inertia (J) : 4.52 sq.ft.lb		
Design		: B				
Output [HP]		30	25	25	25	
Poles		4	4	4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		69.8/34.9	35.7	34.7	34.3	
L. R. Amperes [A]		461/230	246	250	244	
LRC [A]		6.6x(Code G)	6.9x(Code H)	7.2x(Code H)	7.1x(Code H)	
No load current [A]	27.0/13.5	13.0	14.0	14.5	
Rated speed [RPN	/ 1]	1765 1.94	1465	1470	1470	
Slip [%]	Slip [%]		2.33	2.00	2.00	
Rated torque [ft.lb]		89.0	89.3	89.3	89.0	
Locked rotor torque [%]		280	229	260	280	
Breakdown torque	Breakdown torque [%]		240	270	300	
Service factor		1.25	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		32s (cold) 18s (hot)	28s (cold) 16s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	
Noise level ²		64.0 dB(A)				
	25%	93.4	92.0	92.0	92.0	
Efficiency (%)	50%	93.6	92.2	92.2	92.2	
Linciency (70)	75%	94.1	92.6	92.6	92.6	
100%		94.1	92.6	92.6	92.6	
	25%	0.45	0.46	0.42	0.39	
Power Factor	50%	0.70	0.70	0.66	0.63	
1 OWELL ACTOR	75%	0.80	0.80	0.78	0.75	
	100%	0.84	0.85	0.83	0.81	

Sealing : Without Without Bearing Seal Bearing Seal

Lubrication interval : 20000 h
Lubricant amount : 18 g 11 g
Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 77.2A SF 1.15 SFA 88.8A

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	14/04/2022			1 / 21	

Three Phase Induction Motor - Squirrel Cage



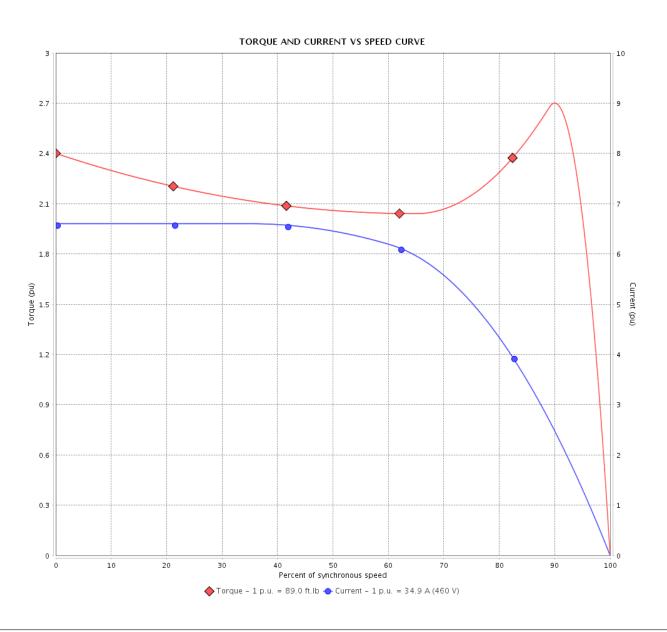
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495708

Catalog #: 03018OT3E286TC-W40



Performance : 230/460 V 60 Hz 4P Rated current : 69.8/34.9 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 89.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2 / 21	

Three Phase Induction Motor - Squirrel Cage

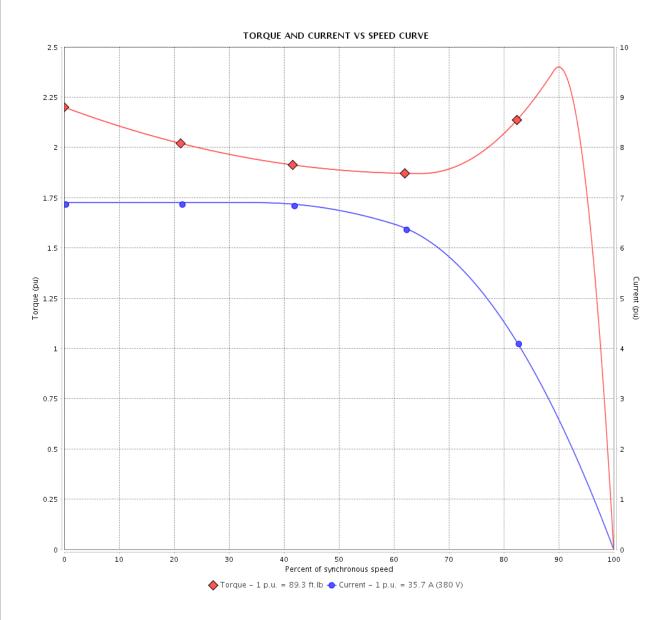


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14495708

Catalog #: 03018OT3E286TC-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 35.7 A	Moment of inertia (J)	: 4.52 sq.ft.lb	
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated torque	: 89.3 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (hot)			

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			3 / 21	

Three Phase Induction Motor - Squirrel Cage



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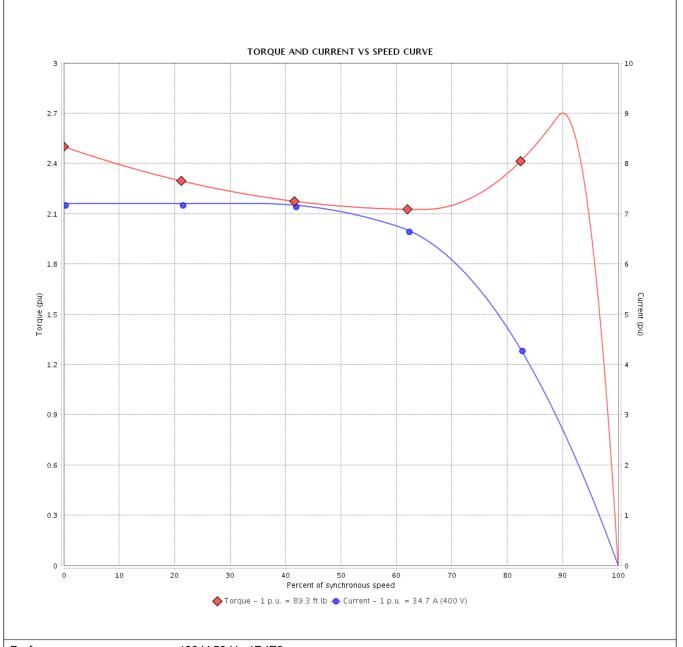
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495708

Catalog #: 03018OT3E286TC-W40

: B



Performance : 400 V 50 Hz 4P IE3 Rated current : 34.7 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.3 ft.lb : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K

Rated speed : 1470 rpm Design

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

 Rev.
 Changes Summary
 Performed
 Checked
 Date

 Performed by
 Page
 Revision

 Date
 14/04/2022
 4 / 21

Three Phase Induction Motor - Squirrel Cage



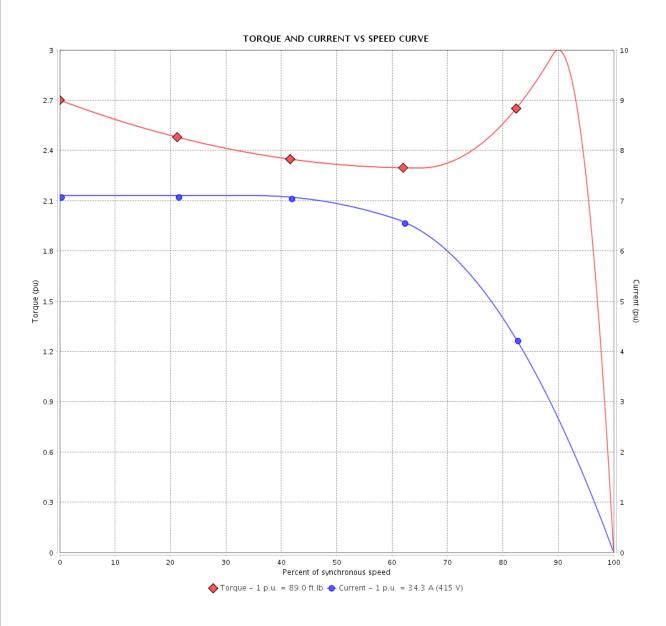
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495708

Catalog #: 03018OT3E286TC-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 34.3 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Rated torque : 89.0 ft.lb Insulation class : F : 280 % : 1.00 Locked rotor torque Service factor : 300 % : 80 K Breakdown torque Temperature rise : B Rated speed : 1470 rpm Design

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

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022	1		5 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

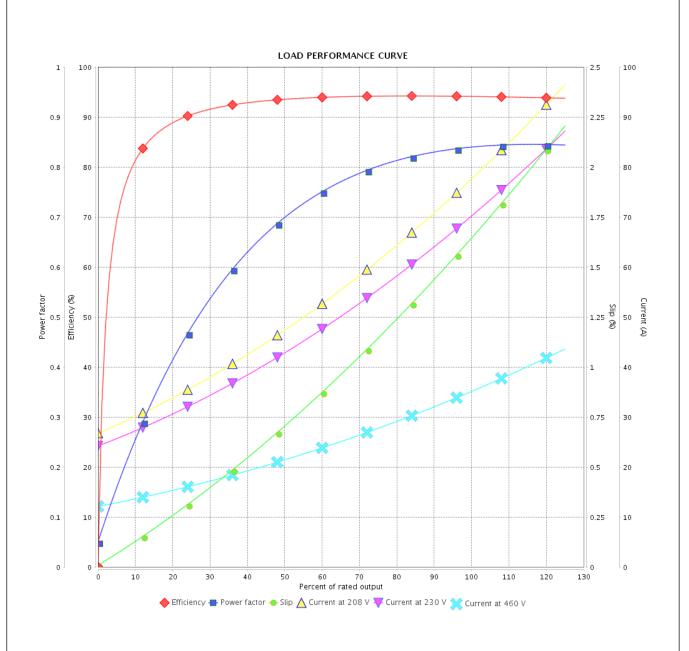
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495708

Catalog #: 03018OT3E286TC-W40

6/21



Performance	: 230/460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.8/34.9 A : 6.6 : 89.0 ft.lb : 280 % : 270 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 4.52 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	Perform	ed Checked	Date
Performed by				
Checked by			Page	Revision

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



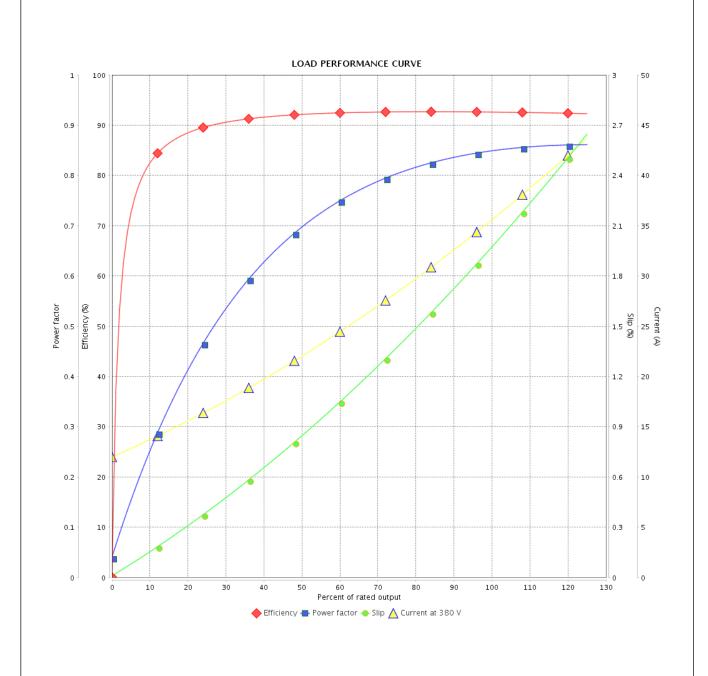
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog # : 03018OT3E286TC-W40

14495708



Performance	: 3	880 V 50 Hz 4P IE3				
Rated current	: 3	35.7 A	Moment of	Moment of inertia (J)		
LRC	: 6	6.9	Duty cycle	•	: Cont.(S1)	
Rated torque	: 8	9.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperature rise		: 80 K	
Rated speed	: 1	465 rpm	Design		: B	
Rev.		Changes Summary	l	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				7 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

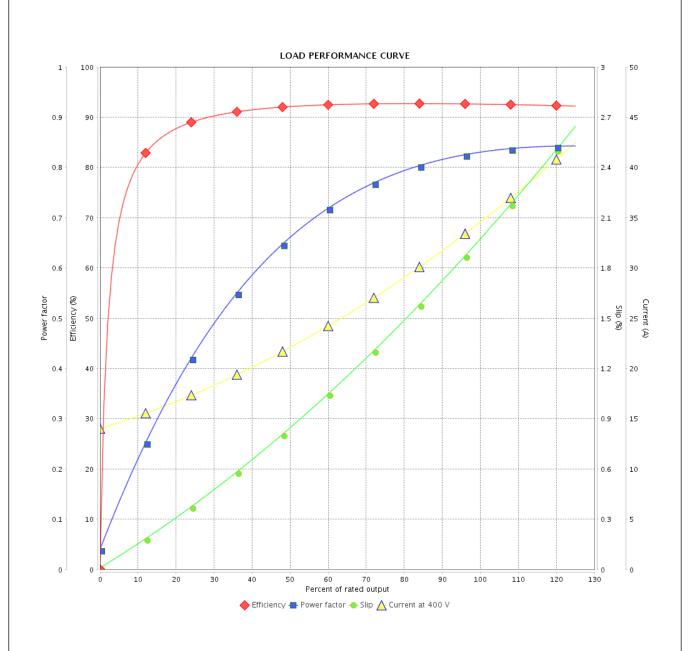
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495708

Catalog #: 03018OT3E286TC-W40

8 / 21



Performance	· 400 \/ 50 U= 4D IF2				
Periormance	. 400 V 50 HZ 4P IE3	: 400 V 50 Hz 4P IE3			
Rated current	: 34.7 A	Moment of	inertia (J)	: 4.52 sq.ft.lb	
LRC	: 7.2	Duty cycle		: Cont.(S1)	
Rated torque	: 89.3 ft.lb	Insulation of	lass	: F	
Locked rotor torque	: 260 %	Service fac	tor	: 1.00	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



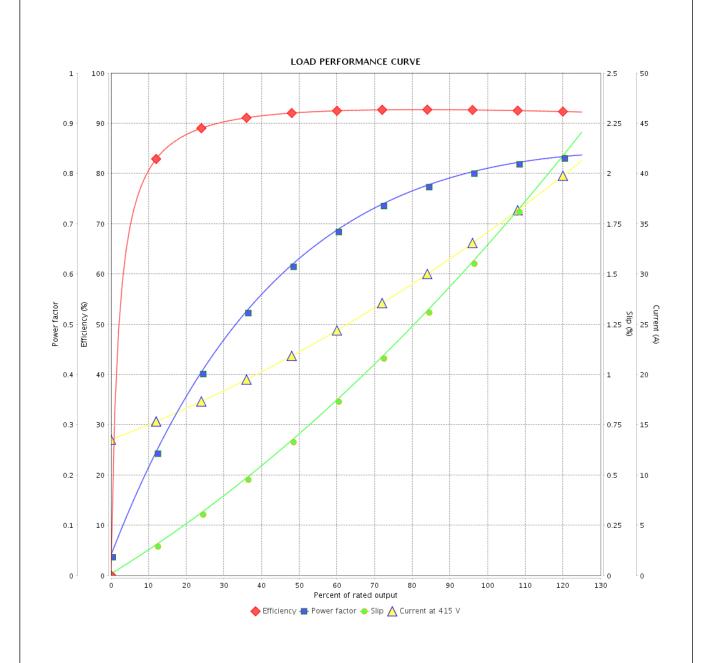
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14495708

Three-Phase

Catalog #: 03018OT3E286TC-W40

9/21



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.3 A : 7.1 : 89.0 ft.lb : 280 % : 300 % : 1470 rpm	Moment of ir Duty cycle Insulation cla Service facto Temperature Design	ass or	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

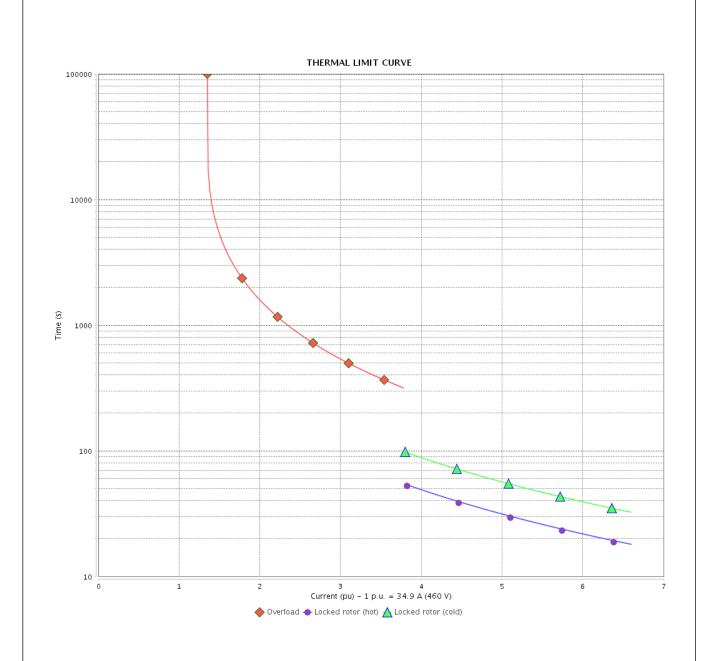


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14495708 03018OT3E28	36TC-W40
Performance		230/460 V 60 Hz 4P				
Rated current LRC Rated torque	:	69.8/34.9 A 6.6 89.0 ft.lb	Moment on Duty cycle Insulation		: 4.52 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que :	280 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		270 % 1765 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
Rev.	-	Changes Summary		Performed	Checked	Date
Performed by					,	
Checked by					Page	Revision
Date	14/04/2022				10 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			11 / 21	

Three Phase Induction Motor - Squirrel Cage

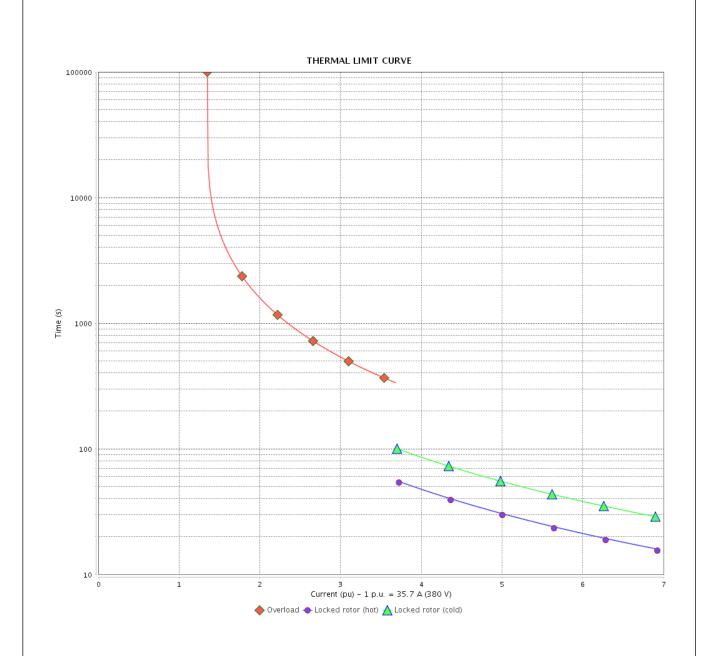


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14495708 03018OT3E28	86TC-W40
Performance	:	380 V 50 Hz 4P IE3				
Rated current LRC	:	35.7 A 6.9	Duty cycle		: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque		89.3 ft.lb	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		229 % 240 %	Temperatu		: 1.00 : 80 K	
Rated speed		1465 rpm	Design		: B	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
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Performed by					l .	
Checked by					Page	Revision
Date	14/04/2022				12 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			13 / 21	

Three Phase Induction Motor - Squirrel Cage

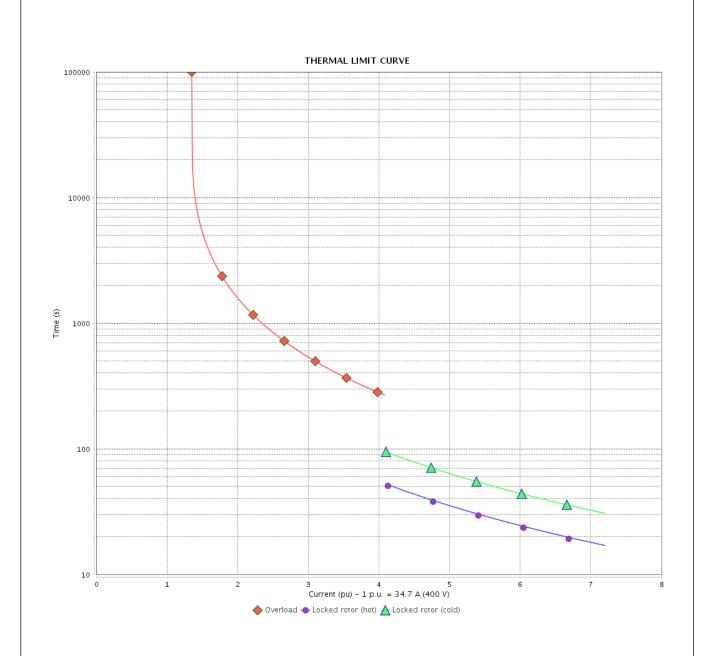


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14495708 03018OT3E28	36TC-W40
Performance	:	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque	:	34.7 A 7.2 89.3 ft.lb	Duty cycle Insulation	class	: 4.52 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie :	260 % 270 % 1470 rpm	Service fa Temperatu Design		: 1.00 : 80 K : B	
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Rev.		Changes Summary		Performed	Checked	Date
Performed by					Dogo	Povisios:
Checked by	14/04/2022	_			Page 14 / 21	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			15 / 21	

Three Phase Induction Motor - Squirrel Cage

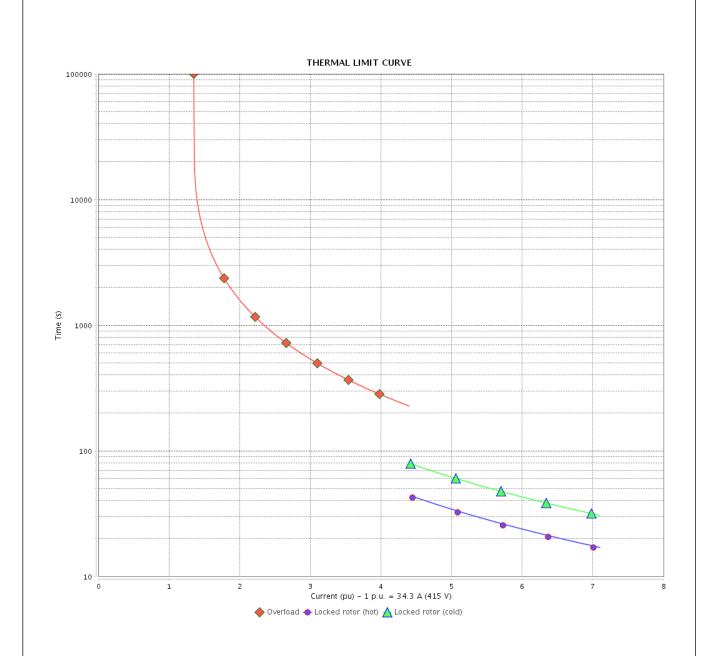


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14495708 03018OT3E28	36TC-W40
Performance		415 V 50 Hz 4P IE3				
Rated current LRC Rated torque	:	34.3 A 7.1 89.0 ft.lb	Duty cycle Insulation	class	: 4.52 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie :	280 % 300 % 1470 rpm	Service fa Temperatu Design		: 1.00 : 80 K : B	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					Pogo	Revision
Checked by	14/04/2022	_			Page 16 / 21	Kevision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	14/04/2022			17 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

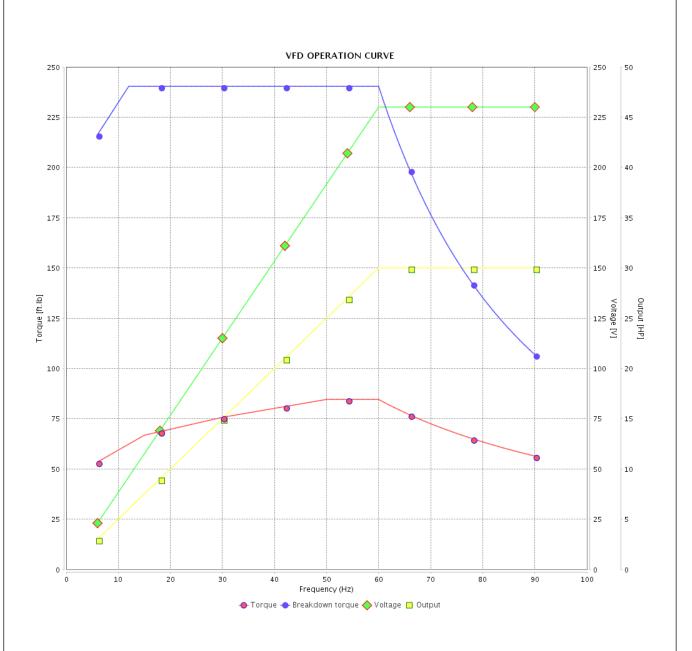
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495708

Catalog #: 03018OT3E286TC-W40

18/21



Performance	: 2	230/460 V 60 Hz 4P)				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		59.8/34.9 A 5.6 59.0 ft.lb 280 % 270 % 1765 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.52 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



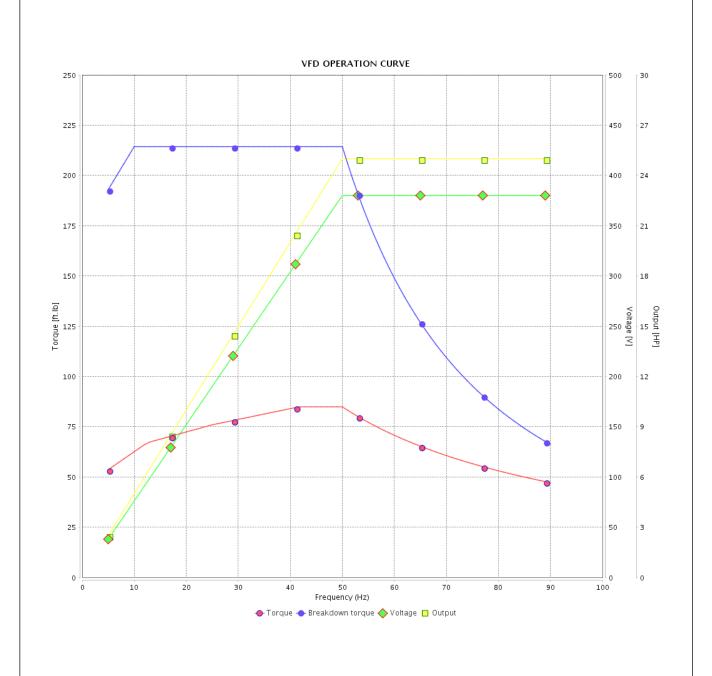
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Performance	: (380 V 50 Hz 4P IE3				
Rated current	rent : 35.7 A Mo		Moment of	Moment of inertia (J)		
LRC	: 6	5.9	Duty cycle		: Cont.(S1)	
Rated torque	: 8	39.3 ft.lb	Insulation class		: F	
Locked rotor torqu	e : 2	229 %	Service factor		: 1.00	
Breakdown torque	: 2	240 %	Temperature rise		: 80 K	
Rated speed	: '	1465 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
					_	
Checked by					Page	Revision
Date	14/04/2022				19 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

14/04/2022

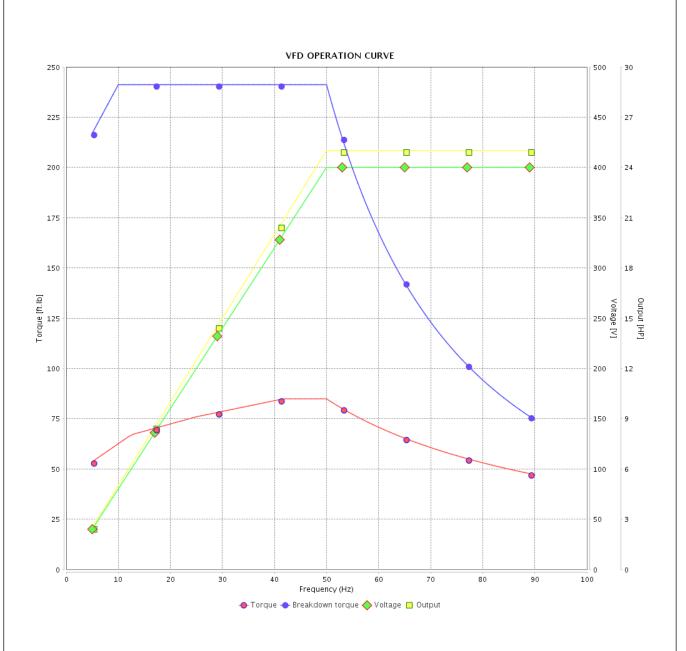
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495708

Catalog #: 03018OT3E286TC-W40

20 / 21



Performance : 400 V 50 Hz 4P IE3 : 34.7 A Rated current Moment of inertia (J) : 4.52 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 89.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



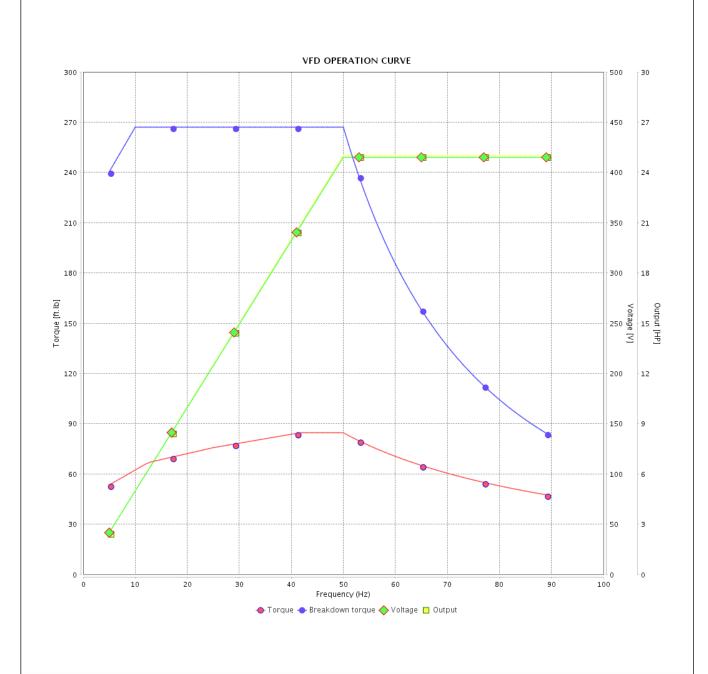
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Performance		415 V 50 Hz 4P IE3				
Rated current	ated current : 34.3 A		Moment o	Moment of inertia (J)		
LRC	:	7.1	Duty cycle		: Cont.(S1)	
Rated torque	:	89.0 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	280 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue :	300 %	Temperature rise		: 80 K	
Rated speed	:	1470 rpm	Design		: B	
Rev. Changes Summary		у	Performed	Checked	Date	
Performed by						
Checked by					Page	Revision
Date	14/04/2022				21 / 21	

