DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40

Frame : 284/6JP

Insulation class

Duty cycle : Cont.(S1) : -20°C to +40°C Ambient temperature

Altitude : 1000 m.a.s.l. Cooling method : IC01 - ODP

Mounting : F-1

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line Approx. weight³ : 369 lb

Protection degree		: IP23 Moment of		ertia (J) : 2.02 sq.ft.lb		
Design		: B				
Output [HP]		40	30	30	30	
Poles		2	2	2	2	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		93.6/46.8	41.9	40.7	40.2	
L. R. Amperes [A]		608/304	302	309	310	
LRC [A]		6.5x(Code G)	7.2x(Code H)	7.6x(Code J)	7.7x(Code J)	
No load current [A]]	29.8/14.9	14.3	15.8	17.0	
Rated speed [RPM	Rated speed [RPM]		2950	2960	2960	
Slip [%]		1.53	1.67	1.33	1.33	
Rated torque [ft.lb]		59.3	53.4	53.2	53.2	
Locked rotor torque [%]		190	210	229	250	
Breakdown torque	Breakdown torque [%]		280	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		14s (cold) 8s (hot)	250s (cold) 139s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	
Noise level ²		73.0 dB(A)				
	25%	91.5	88.6	88.7	88.9	
Efficiency (%)	50%	91.7	90.0	90.1	90.2	
Efficiency (70)	75%	92.4	91.4	91.4	91.5	
100%		92.4	92.8	92.8	92.8	
	25%	0.51	0.49	0.45	0.41	
Power Factor	50%	0.76	0.73	0.70	0.65	
1 OWEL FACIOI	75%	0.84	0.82	0.79	0.76	
	100%	0.87	0.86	0.84	0.82	

Drive end Non drive end 6311 Z C3 6211 Z C3

Bearing type Sealing Without Without

Bearing Seal Bearing Seal

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

Foundation loads Max. traction Max. compression

Notes

USABLE @208V 104A SF 1.15 SFA 119A

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	12/04/2022			1 / 21	

Three Phase Induction Motor - Squirrel Cage



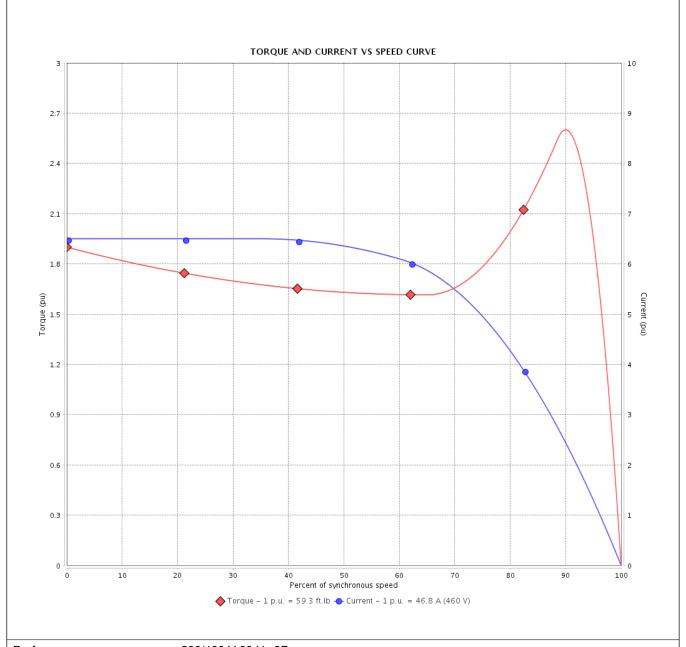
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40



Performance : 230/460 V 60 Hz 2P Rated current : 93.6/46.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 190 % Service factor : 1.25

Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B

Locked rotor time : 14s (cold) 8s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2 / 21	

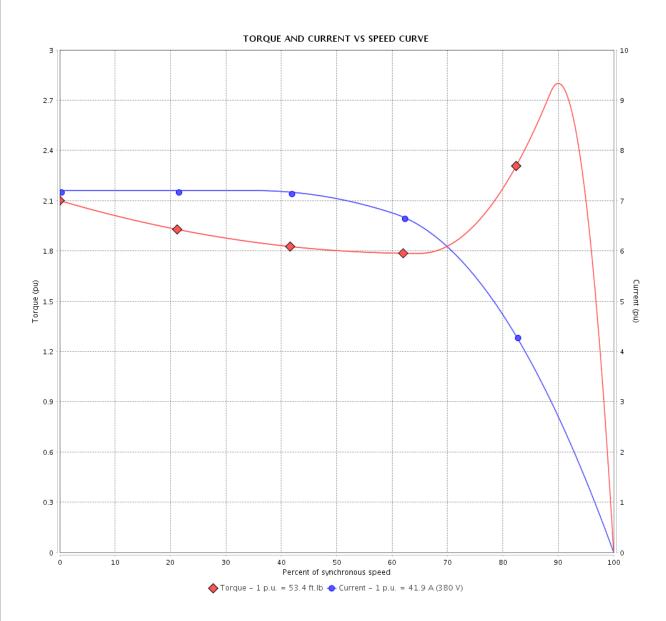
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium Product code : 14487052 Efficiency Three-Phase

Catalog # : 04036OT3E286JP-W40



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 41.9 A	Moment of inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 53.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2950 rpm	Design	: B	

Locked rotor time : 250s (cold) 139s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			3 / 21	

Three Phase Induction Motor - Squirrel Cage



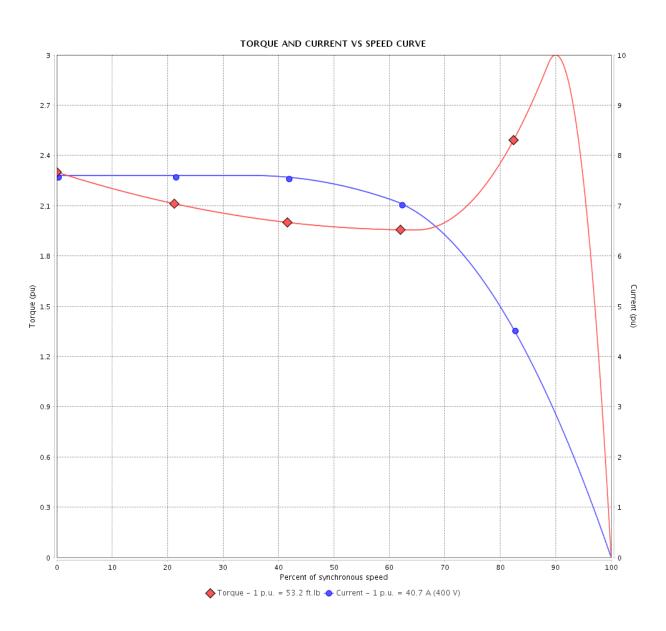
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 40.7 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 53.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

Locked rotor time : 14s (cold) 8s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 21	

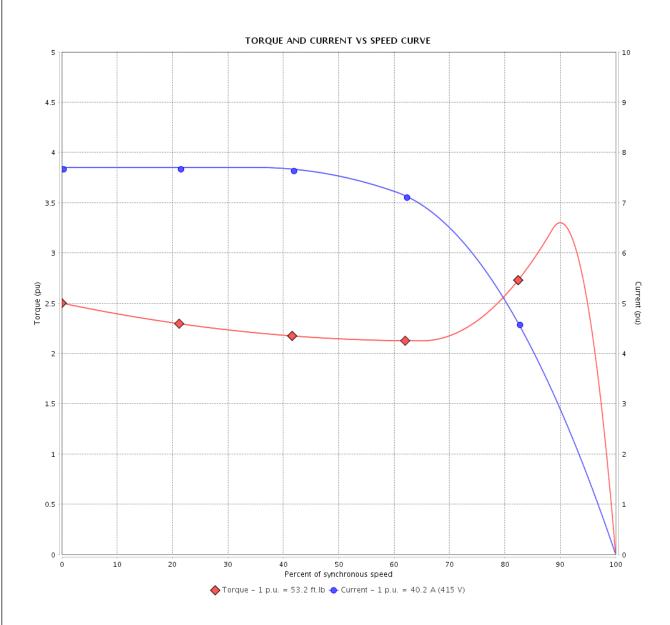
Efficiency Three-Phase

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14487052

> Catalog #: 04036OT3E286JP-W40



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 40.2 A	Moment of inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7.7	Duty cycle	: Cont.(S1)	
Rated torque	: 53.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 2960 rpm	Design	: B	
Locked rotor time	: 14s (cold) 8s (hot)			

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			5 / 21	

Three Phase Induction Motor - Squirrel Cage



Revision

Page

6/21

Customer :

Checked by

Date

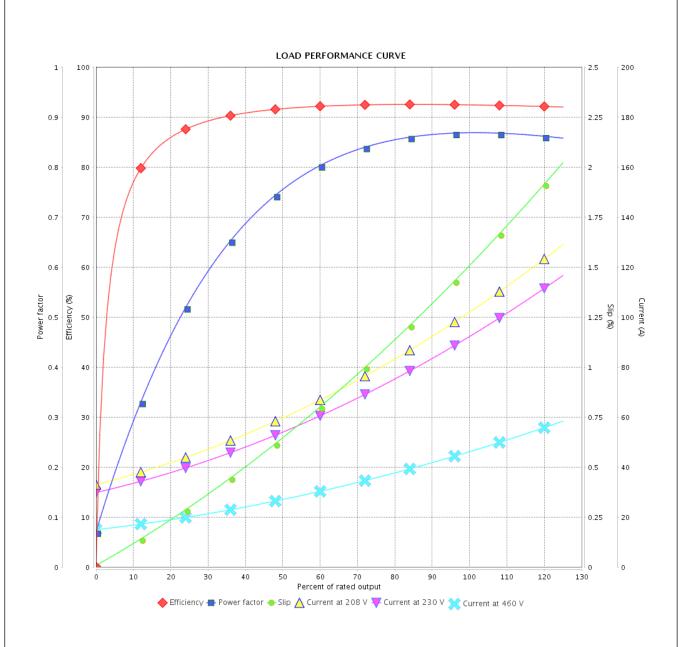
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40



Performance : 230/460 V 60 Hz 2P Rated current : 93.6/46.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** Duty cycle : 6.5 : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



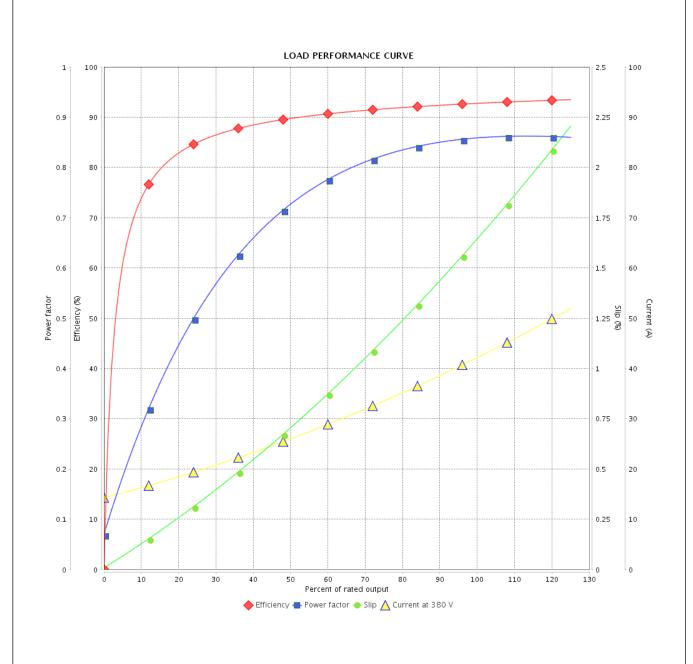
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40



Performance	:	380 V 50 Hz 2P IE3				
Rated current	: -	41.9 A	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
LRC	:	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	53.4 ft.lb	Insulation	class	:F	
Locked rotor torque	e ::	210 %	Service fa	ctor	: 1.00	
Breakdown torque	::	280 %	Temperati	Temperature rise		
Rated speed	•	2950 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	12/04/2022				7 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

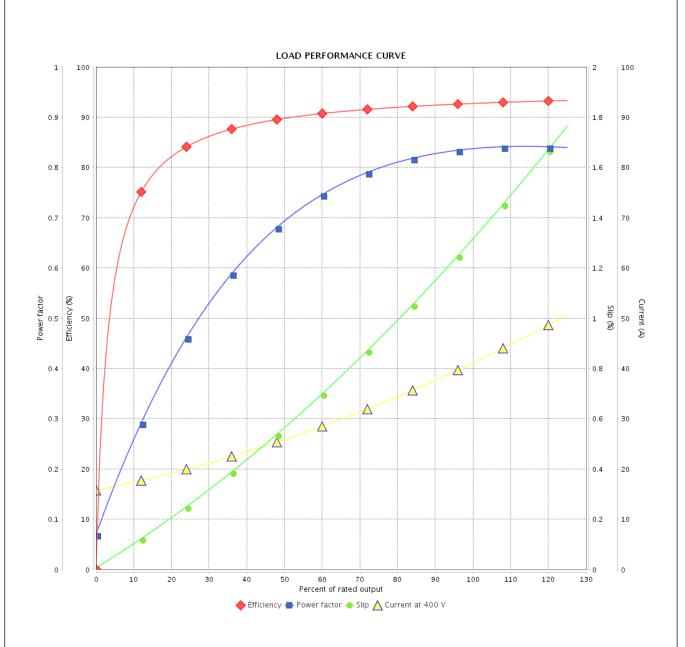
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40

8 / 21



Performance	: 4	400 V 50 Hz 2P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ::	40.7 A 7.6 53.2 ft.lb 229 % 300 % 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by Checked by					Page	Revision

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



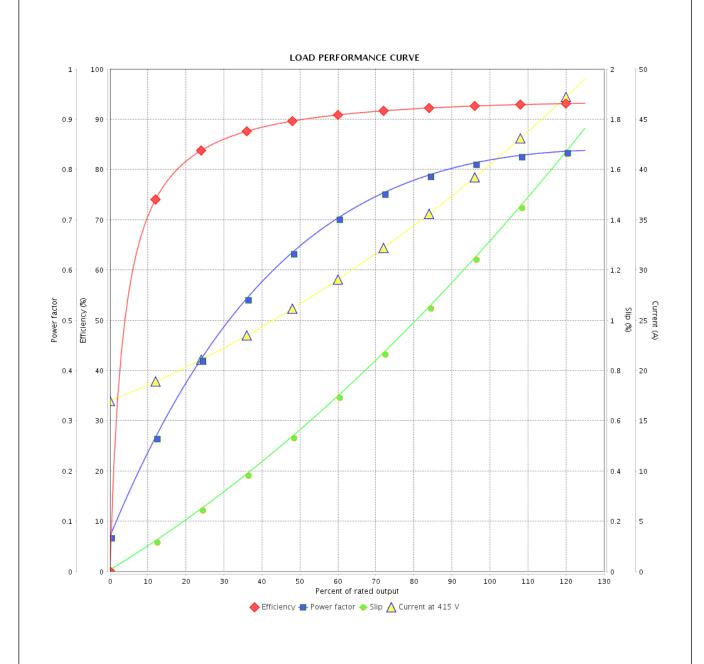
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40



Performance	: 4	: 415 V 50 Hz 2P IE3				
Rated current	: 4	40.2 A	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7	7.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: :	53.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: :	330 %	Temperati	Temperature rise		
Rated speed	: 2	2960 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				9 / 21	

Three Phase Induction Motor - Squirrel Cage

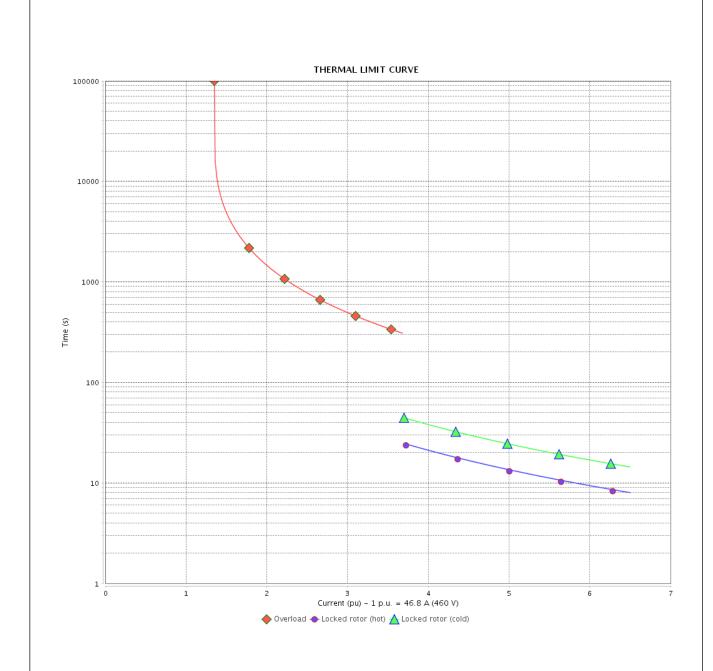


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Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	iiuiii	Froduct code .	14467032	
		,		Catalog # :	04036OT3E2	86JP-W40
Performance	:	230/460 V 60 Hz 2P				
Rated current		93.6/46.8 A	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
LRC Rated torque		6.5 59.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torg	jue :	190 %	Service fa	ctor	: 1.25	
Breakdown torqu		260 %	Temperati	ure rise	: 80 K : B	
Rated speed		3545 rpm	Design		. D	
Heating constant						
Cooling constant		Change Course		Dorf !	Ohl !	Data
Rev.		Changes Summary		Performed	Checked	Date
Performed by					I	
Checked by					Page	Revision
Date	12/04/2022				10 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			11 / 21	

Three Phase Induction Motor - Squirrel Cage

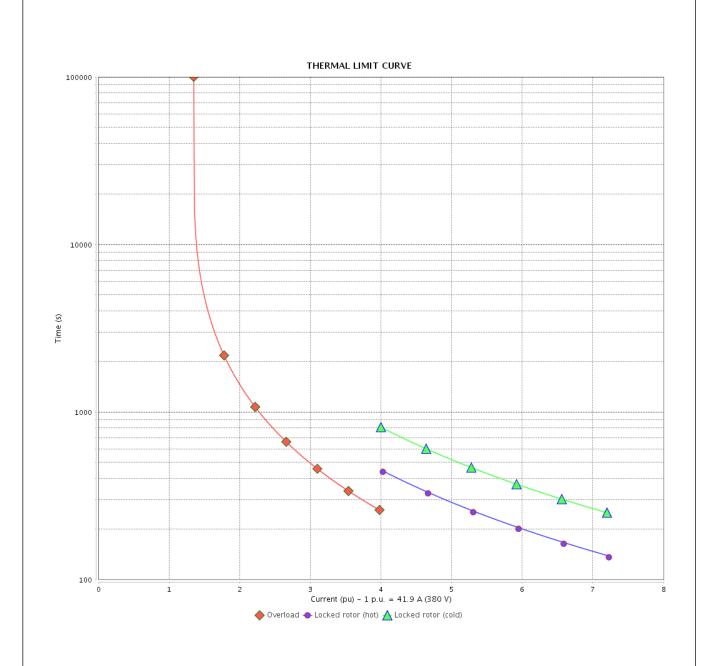


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Product line	: \ Ei	N40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14487052	
		•	(Catalog # :	04036OT3E2	86JP-W40
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7. : 50 ue : 20 e : 28	1.9 A 2 3.4 ft.lb 10 % 30 % 950 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant			-			
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
		- Changes Summary		· chomica	5.100K04	Date
Performed by Checked by					Page	Revision
Data	12/04/2022	1			12 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			13 / 21	

Three Phase Induction Motor - Squirrel Cage

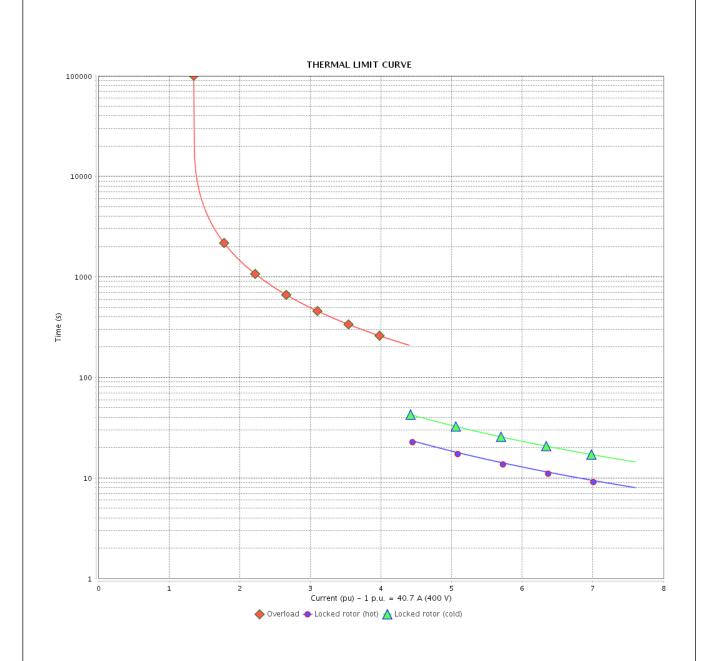


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Product line	. 1	N40 JP Pump NEMA Prem	ium	Product code :	14487052	
Froduct line	 Et	fficiency Three-Phase				
			(Catalog # :	04036OT3E28	36JP-W40
Performance		00 V 50 Hz 2P IE3		<u> </u>		
Rated current LRC	: 40 : 7.).7 A 6	Moment of Duty cycle	f inertia (J)	: 2.02 sq.ft.lb : Cont.(S1)	
Rated torque	: 50	3.2 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		29 % 00 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		960 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
D-/	40/04/0000				. 490	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			15 / 21	

Three Phase Induction Motor - Squirrel Cage

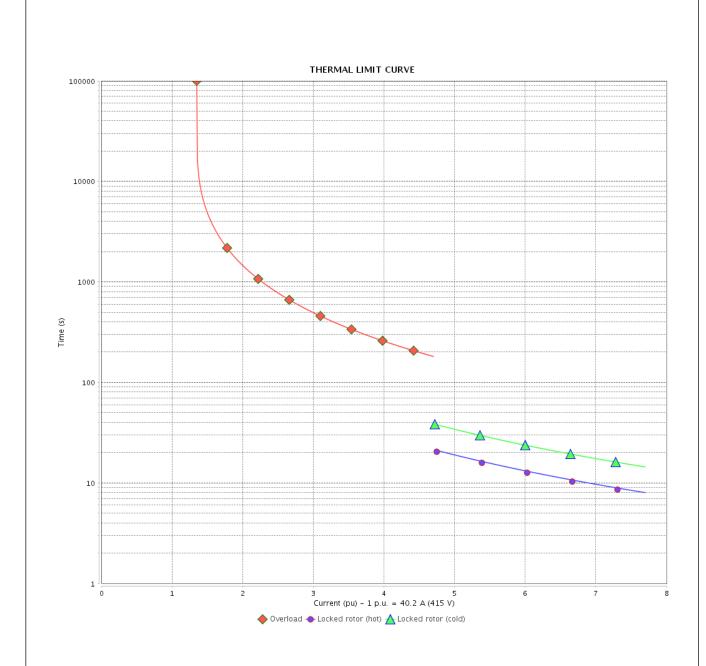


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Product line	: W Eff	/40 JP Pump NEMA Premiciency Three-Phase	iium	Product code :	14487052	
			ı	Catalog # :	04036OT3E28	36JP-W40
Performance		5 V 50 Hz 2P IE3		· · · · · · · · · · · · · · · · · · ·	0.00 6.11	
Rated current LRC	: 40. : 7.7		Moment o Duty cycle	f inertia (J)	: 2.02 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	.2 ft.lb	Insulation	class	: F	
Locked rotor torqu Breakdown torque			Service fa Temperatu		: 1.00 : 80 K	
Rated speed		60 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.	(Changes Summary		Performed	Checked	Date
	1					
Performed by					5	5
Checked by	12/04/2022				Page 16 / 21	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			17 / 21	

Three Phase Induction Motor - Squirrel Cage



Revision

Page

Customer :

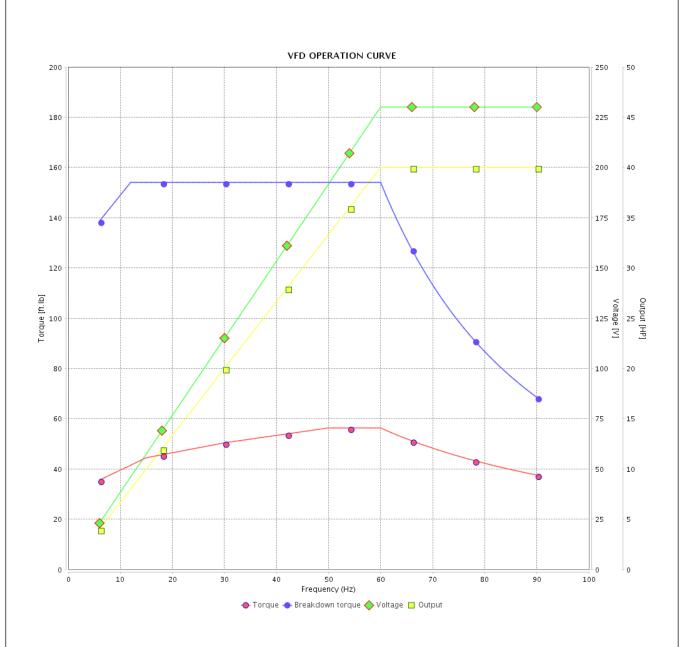
Checked by

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40



Performance : 230/460 V 60 Hz 2P Rated current : 93.6/46.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class : 59.3 ft.lb : F Rated torque Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



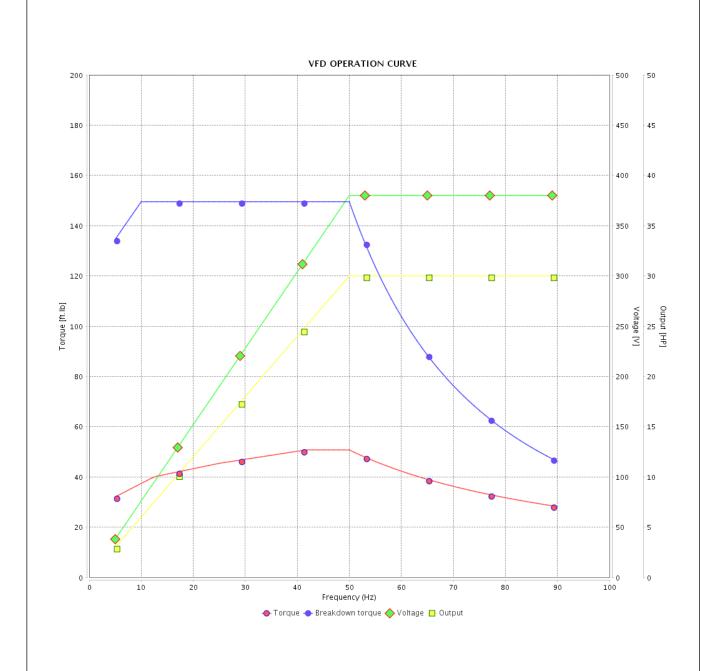
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40



Performance	: 38	80 V 50 Hz 2P IE3				
Rated current	: 4	: 41.9 A Moment of inertia (J)		Moment of inertia (J) : 2.02 sq.ft.		
LRC	: 7.	2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 53	3.4 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2 ⁻	10 %	Service fa	ictor	: 1.00	
Breakdown torque	e : 28	80 %	Temperati	ure rise	: 80 K	
Rated speed	: 29	950 rpm	Design		: B	
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	12/04/2022	1			19 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

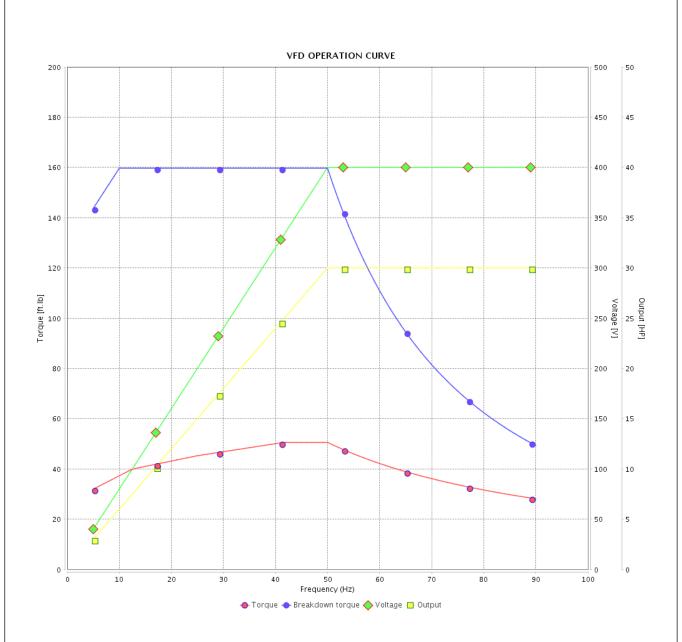
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40

20 / 21



Performance : 400 V 50 Hz 2P IE3 Rated current : 40.7 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class : 53.2 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



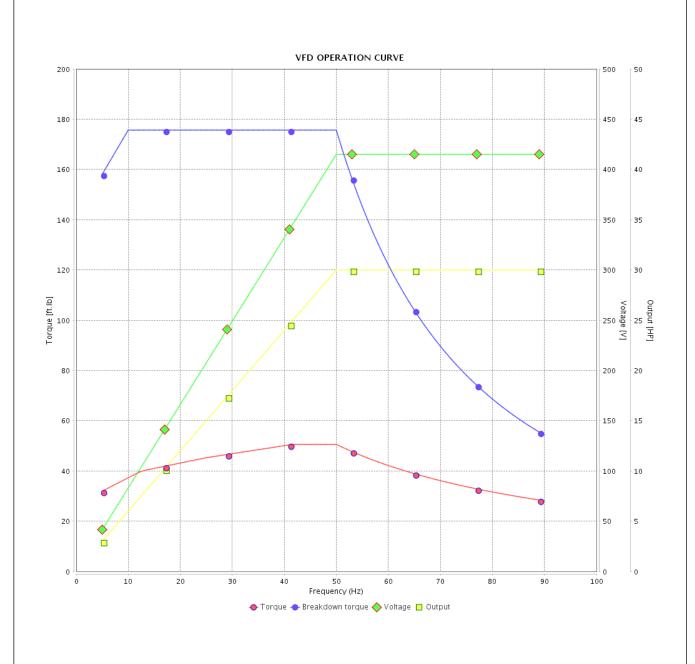
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14487052

Catalog #: 04036OT3E286JP-W40



Performance	• /	115 V 50 Hz 2P IE3	,		7	
Rated current	: 4	10.2 A	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7	7.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	53.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	330 %	Temperature rise		: 80 K	
Rated speed	: 2	2960 rpm	Design		: B	
Rev.	-	Changes Summar	ту	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				21 / 21	

