## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40

Frame : 284/6JP Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 416 lb
Protection degree : IP23 Moment of inertia (J) : 4.52 sq.ft.lb

Protection degre	е	: IP23	Moment of ine	ertia (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	Rated speed [RPM]		1465	1470	1470
Slip [%]		1.94	2.33	2.00	2.00 89.0
Rated torque [ft.lb]		89.0	89.3	89.3 89.3	
	Locked rotor torque [%]		229	260	280
Breakdown torque	[%]	270	240	270	300
Service factor		1.25	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 <sup>2</sup>		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
i ower i actor	75%	0.80	0.80	0.78	0.75
	100%	0.84	0.85	0.83	0.81

<u>Drive end</u> <u>Non drive end</u> Foundation loads : 6311 Z C3 6211 Z C3 Max. traction

Sealing : Without Without Max. compression

Bearing Seal Bearing Seal

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

Notes

Bearing type

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



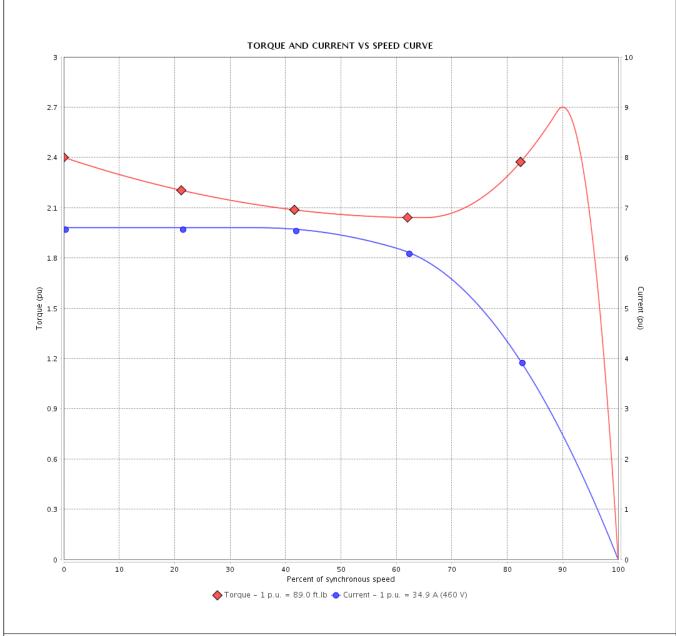
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-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



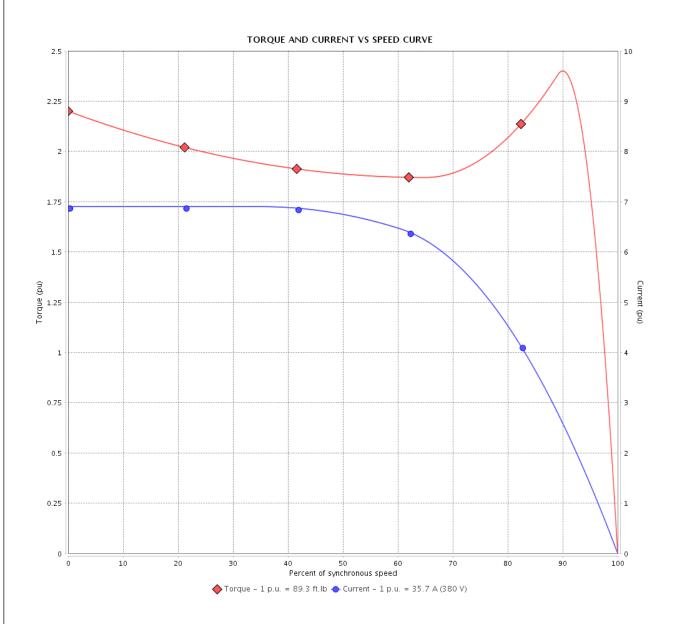
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-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



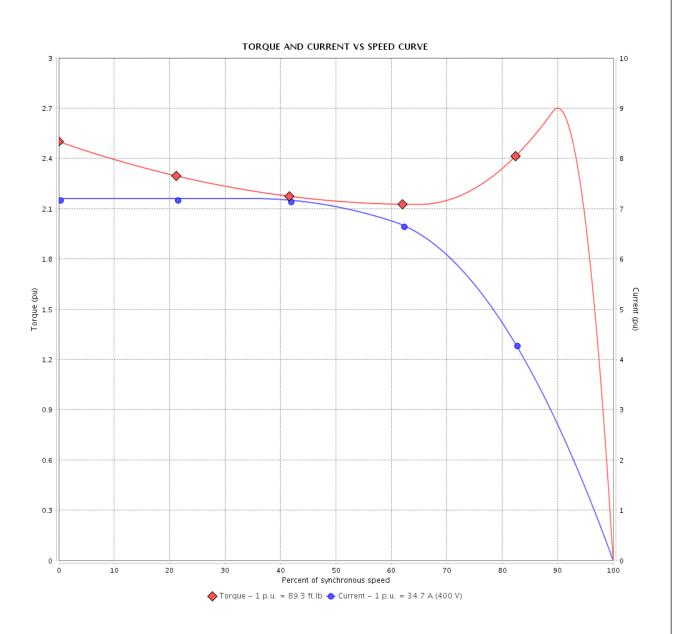
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40



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 Service factor Locked rotor torque : 260 % : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Locked rotor time

: 30s (cold) 17s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 21	

#### Three Phase Induction Motor - Squirrel Cage



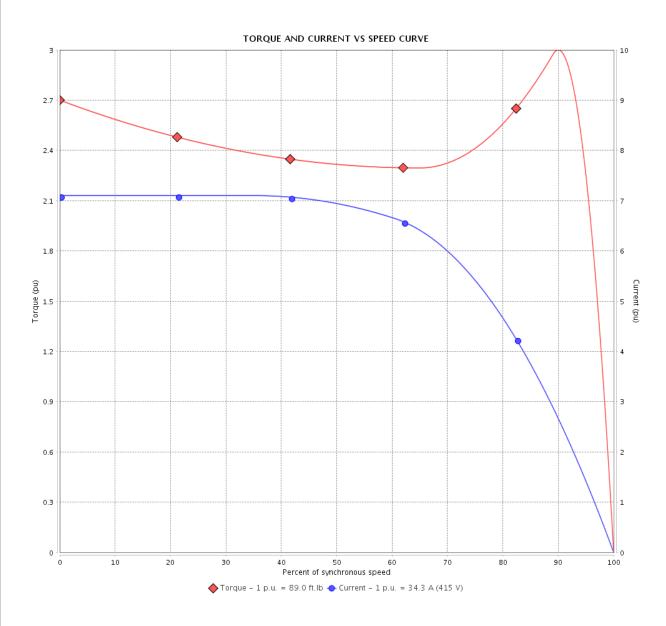
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-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) : 89.0 ft.lb Insulation class Rated torque : F : 280 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 300 % Temperature rise : B Rated speed : 1470 rpm Design

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

LOCKCU TOTOL TITLE		03 (cold) 173 (flot)			
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 :

Date

14/04/2022

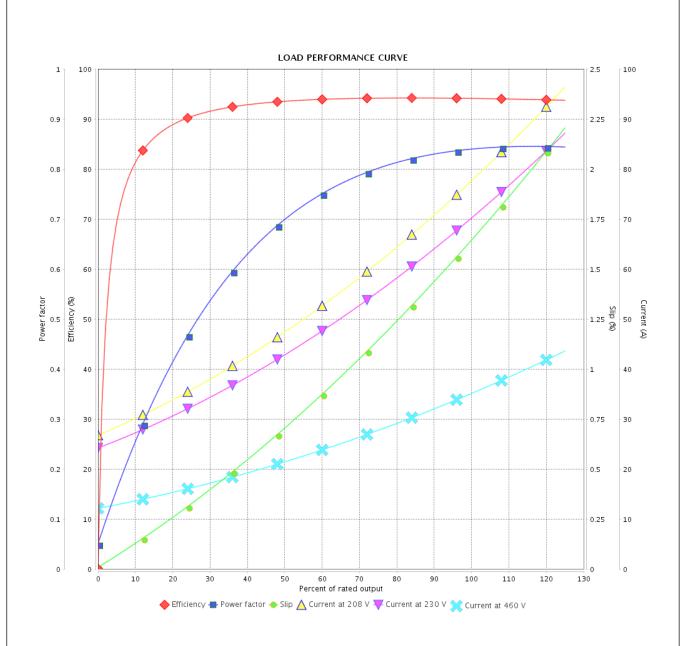
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40

6/21



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 Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

#### Three Phase Induction Motor - Squirrel Cage



Customer

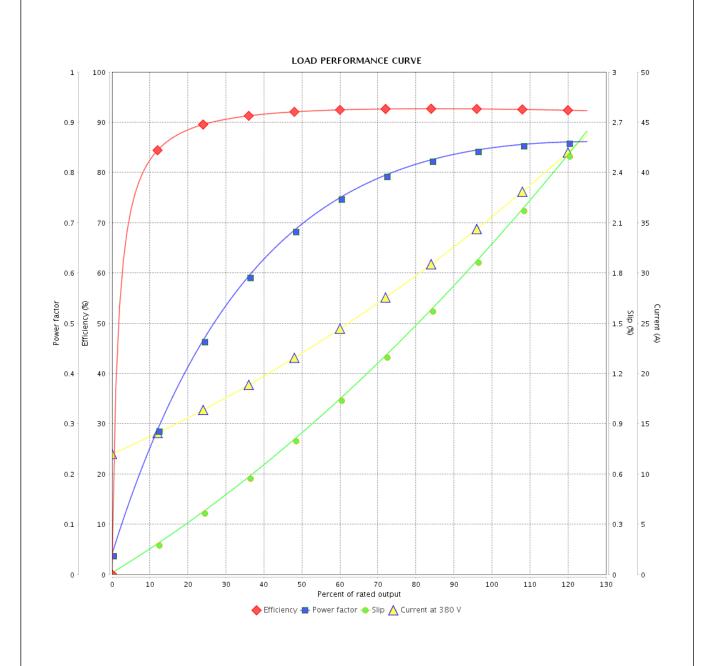
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40

7/21



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

Date

14/04/2022

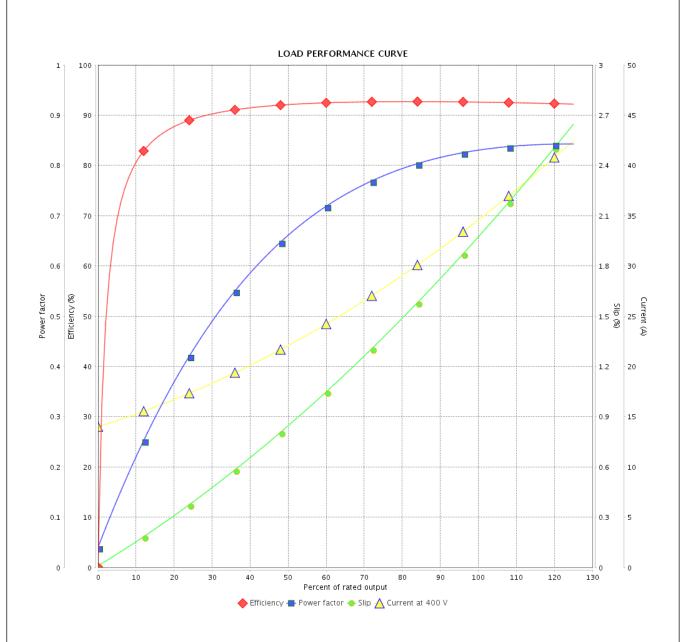
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40

8 / 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 Rated torque : F 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 Checked by Revision Page

#### Three Phase Induction Motor - Squirrel Cage



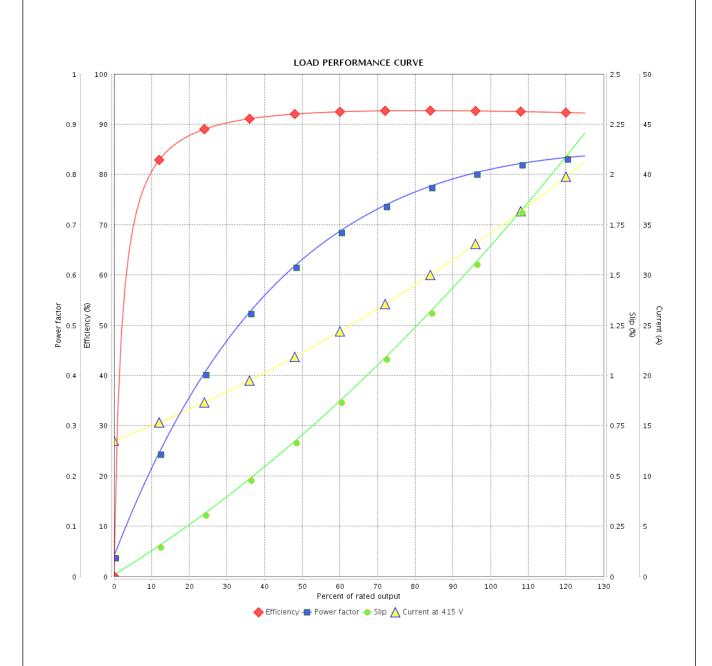
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40



Performance	erformance : 415 V 50 Hz 4P IE3					
Rated current	: 3	34.3 A	Moment o	f inertia (J)	: 4.52 sq.ft.lb	
LRC	: 7	<b>7</b> .1	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 8	39.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	280 %	Service fa	ctor	: 1.00	
Breakdown torque	: : 3	300 %	Temperati	Temperature rise		
Rated speed	: 1	1470 rpm Design			: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by		7			Page	Revision
Date	14/04/2022				9 / 21	

### Three Phase Induction Motor - Squirrel Cage

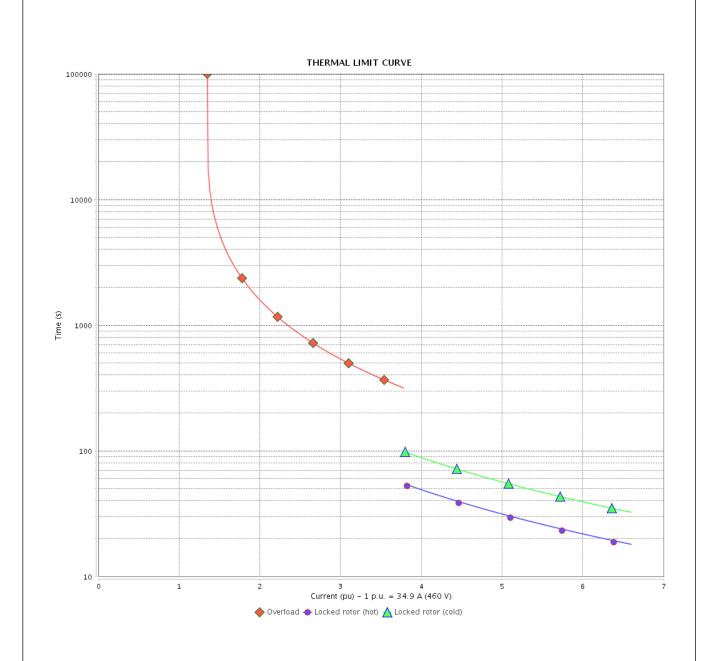


Customer	:				
Product line	: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code :	14486860 03018OT3E2	996 ID WAO
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Performance	: 230/460 V 60 Hz 4P				
	: 69.8/34.9 A : 6.6	Moment of	f inertia (J)	: 4.52 sq.ft.lb	
Rated torque	: 89.0 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
	: 280 % : 270 %	Service far Temperatu		: 1.25 : 80 K	
	: 1765 rpm	Design	5 5	: B	
Heating constant					
Cooling constant					
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Rev.	Changes Summary		Performed	Checked	Date
	Changes Summary		Performed	Checked	Date

## 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

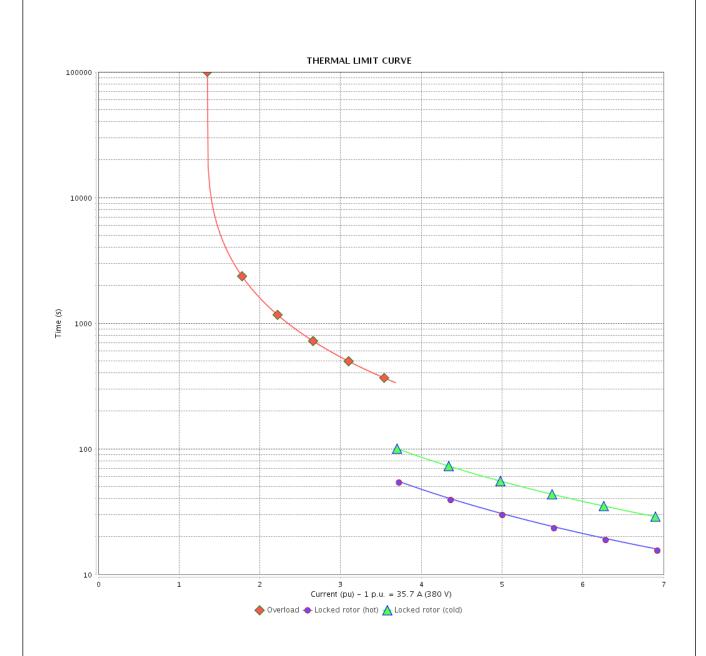


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14486860 03018OT3E28	86JP-W40
Performance	:	380 V 50 Hz 4P IE3				
Rated current LRC	:	35.7 A 6.9	Duty cycle		: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		89.3 ft.lb 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ie :	240 % 1465 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summani		Performed	Checked	Date
		Changes Summary		renomea	Checked	Dale
Performed by						
Checked by	14/04/2022				Page 12 / 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			13 / 21	

### Three Phase Induction Motor - Squirrel Cage

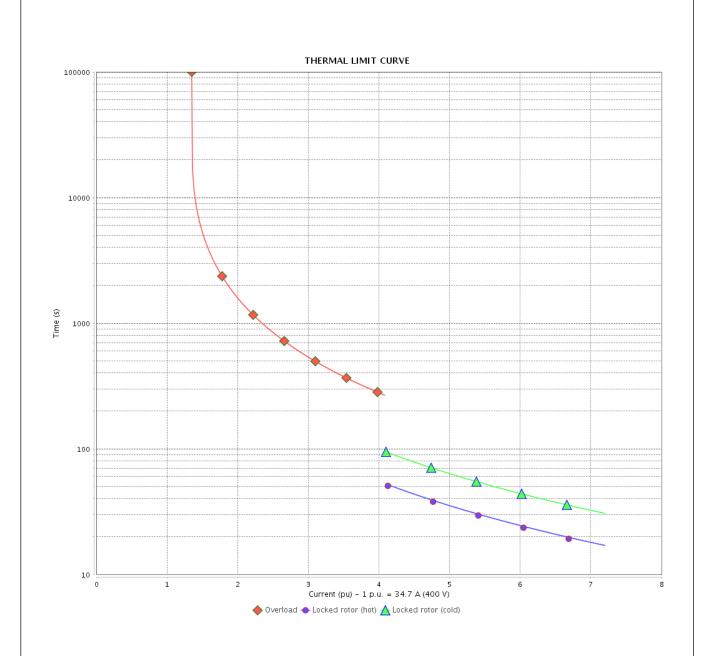


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14486860 03018OT3E28	36JP-W40
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Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 34.7 A	Moment o	of inertia (J)	: 4.52 sq.ft.lb	
LRC Rated torque		: 7.2 : 89.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 260 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 270 % : 1470 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				14 / 21	

## 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

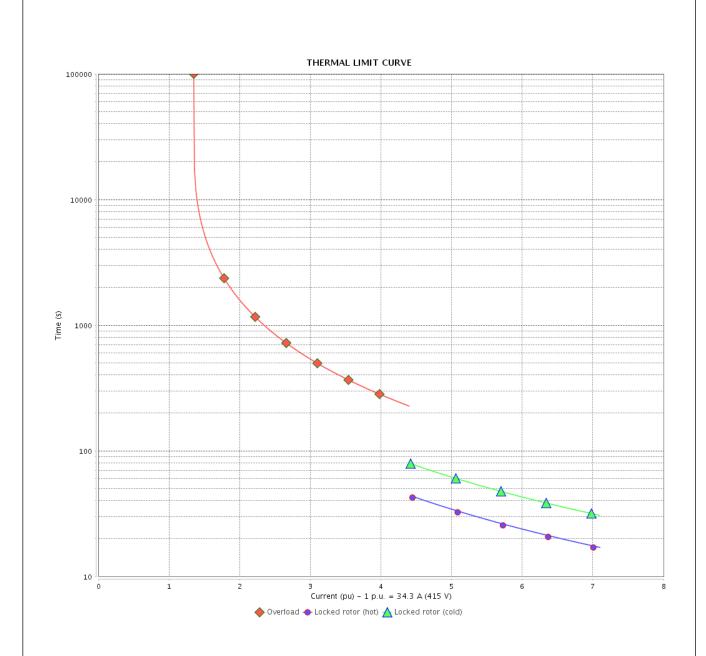


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Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	lium	Product code :	14486860	
		,		Catalog # :	03018OT3E2	86JP-W40
Performance		415 V 50 Hz 4P IE3			4.50 611	
Rated current LRC		34.3 A 7.1	Moment of Duty cycle	f inertia (J)	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque	:	89.0 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		280 % 300 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		1470 rpm	Design	116 119C	: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				16 / 21	

## 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 :

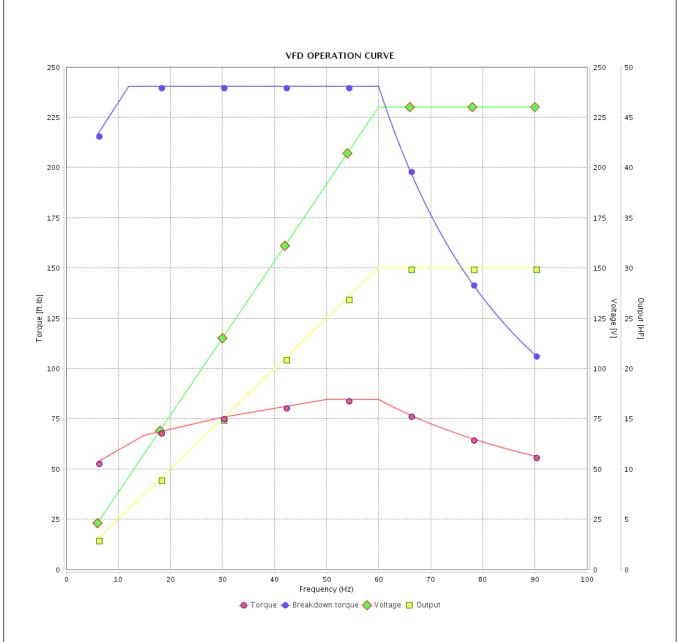
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40

18/21



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.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



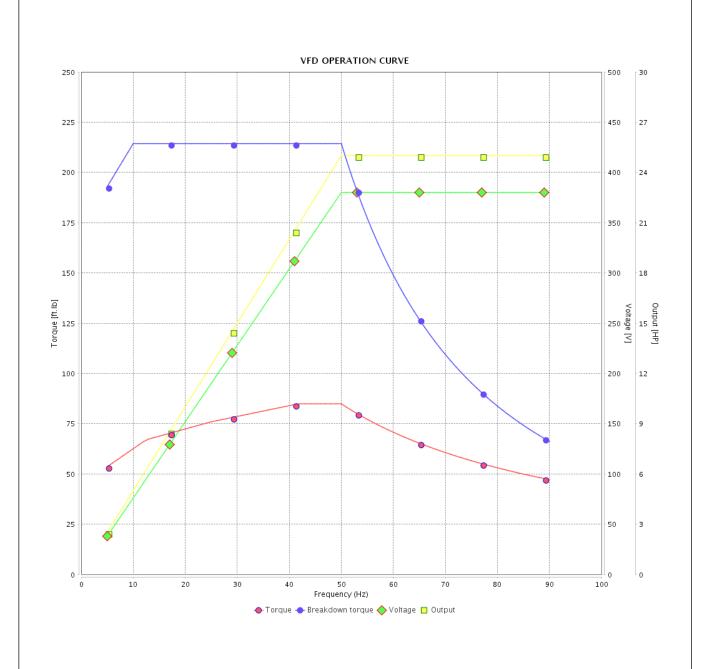
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40



Performance	: 38	: 380 V 50 Hz 4P IE3				
Rated current	: 38	: 35.7 A		Moment of inertia (J)		
LRC	: 6.	.9	Duty cycle	•	: Cont.(S1)	
Rated torque	: 89	9.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 24	40 %	Temperature rise		: 80 K	
Rated speed	: 14	465 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	14/04/2022	1			19 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Revision

Page

20 / 21

Customer :

Checked by

Date

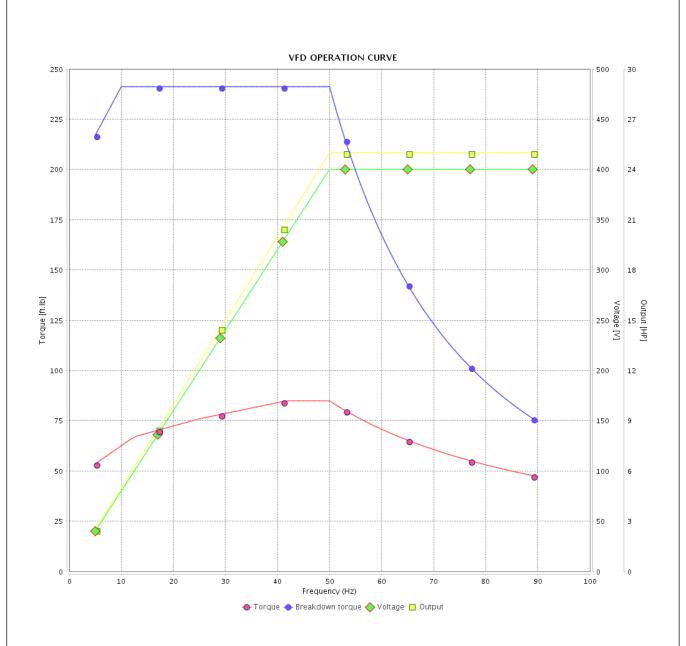
14/04/2022

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 34.7 A 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 **Changes Summary** Date Performed by

#### Three Phase Induction Motor - Squirrel Cage



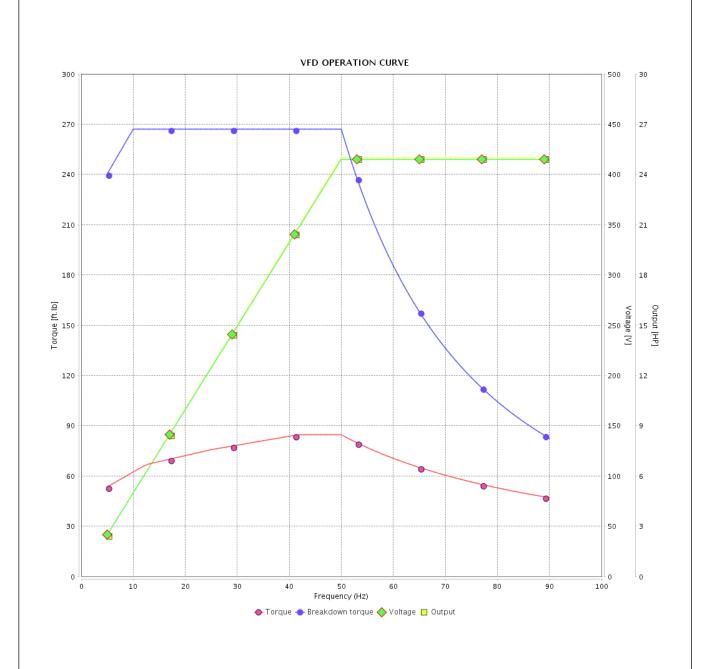
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7 : 8 e : 2 : 3	4.3 A 1 9.0 ft.lb 80 % 00 % 470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary	I	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				21 / 21	

