## **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) Rotation¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 415 lb

Protection degree : 1P23 Moment of inertia (J) : 4.52 sq.ft lb

Protection degree	Э	: IP23 Moment of inertia (J) : 4.52 sq.ft.lb			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]		29.0/14.5	14.3	15.4	16.2
Rated speed [RPM	Rated speed [RPM]		1465	1470	1470
Slip [%]	Slip [%]		2.33	2.00	2.00
Rated torque [ft.lb]		89.0	89.6	89.3	89.3
	Locked rotor torque [%]		240	270	280
Breakdown torque	Breakdown torque [%]		260	300	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 <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%	0.44	0.44	0.41	0.38
Power Factor	50%	0.70	0.70	0.66	0.63
1 OWELL ACIO	75%	0.80	0.80	0.78	0.75
	100%	0.84	0.85	0.83	0.81

Bearing type : <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

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.

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#### Three Phase Induction Motor - Squirrel Cage



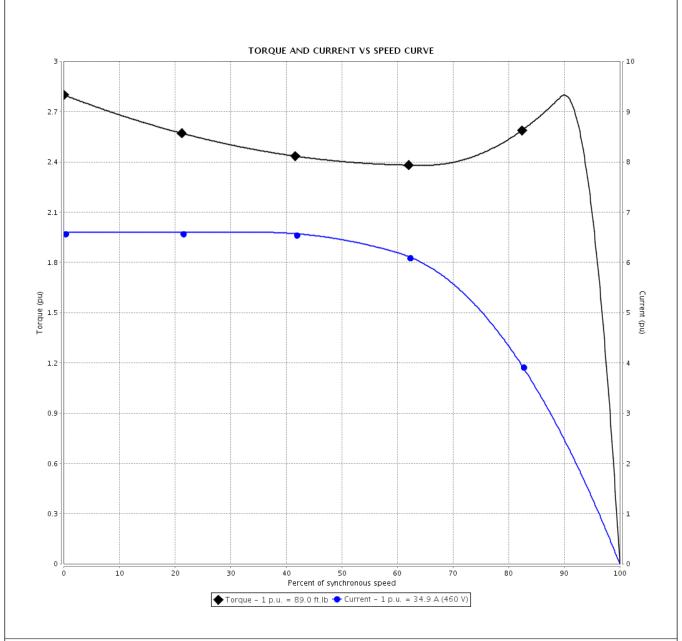
Customer :

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 : 280 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

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

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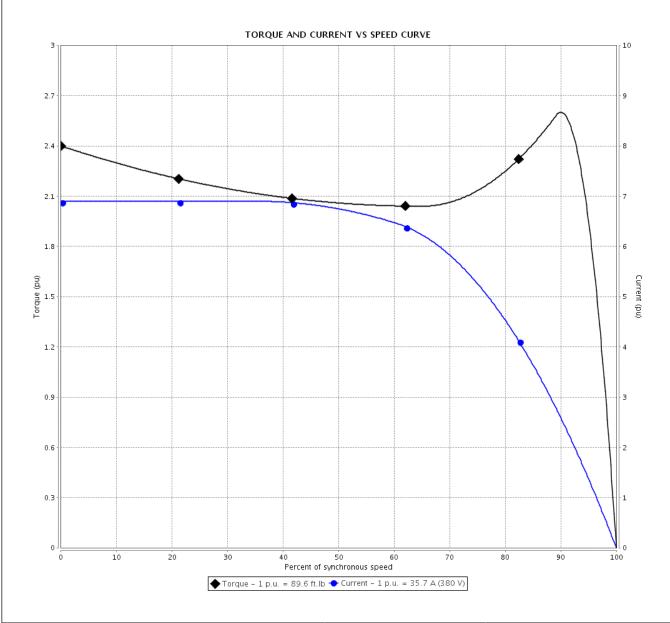
Customer

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) Insulation class Rated torque : 89.6 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time : 28s (cold) 16s (hot)

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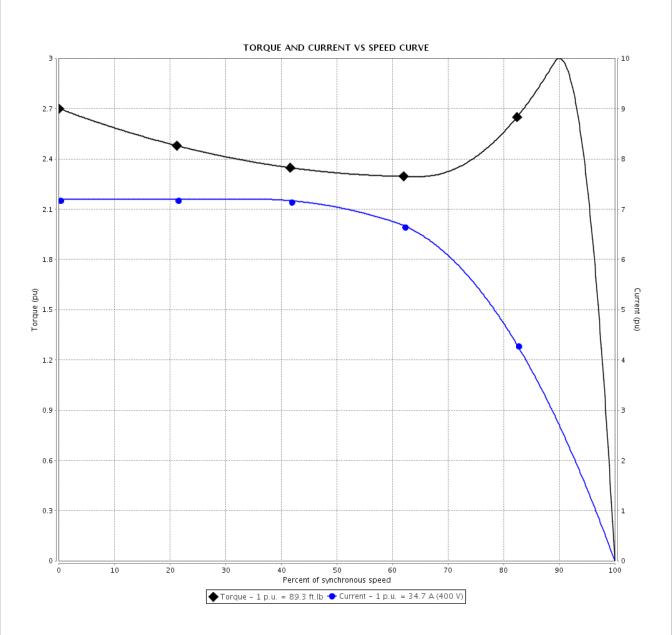
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40



: 400 V 50 Hz 4P IE3 Performance 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 : 270 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

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

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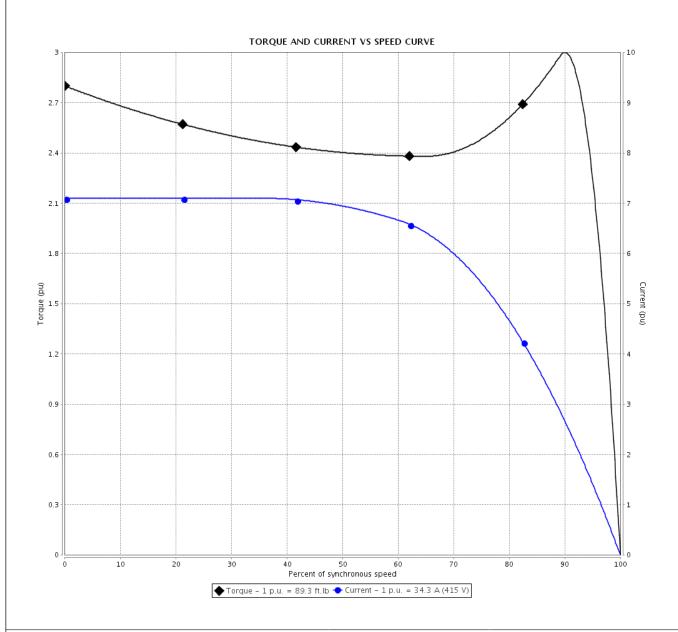
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40

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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	: 89.3 ft.lb	Insulation class	:F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B
Locked rotor time	: 30s (cold) 17s (hot)	L	

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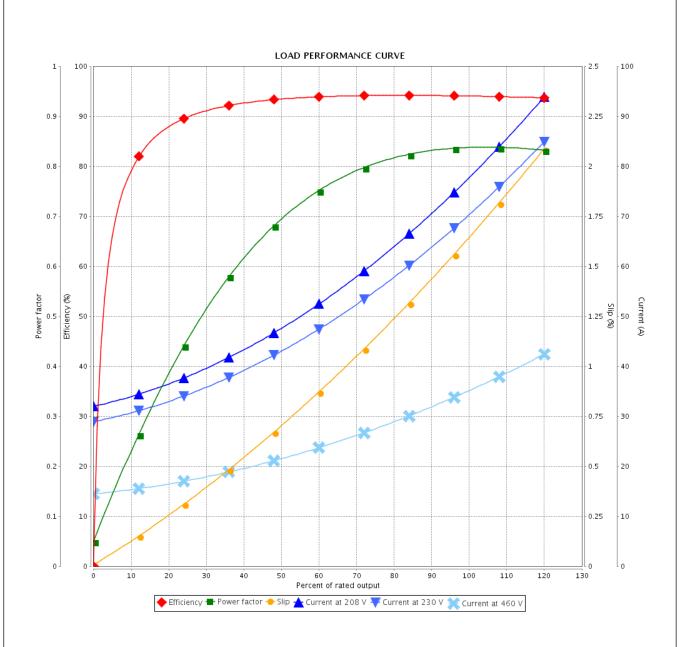
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40



Performance : 230/460 V 60 Hz		230/460 V 60 Hz 4F	Р			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que :	69.8/34.9 A 6.6 89.0 ft.lb 280 % 280 % 1770 rpm	Duty cycle : Cont If.lb Insulation class : F Service factor : 1.25		: 1.25 : 80 K	
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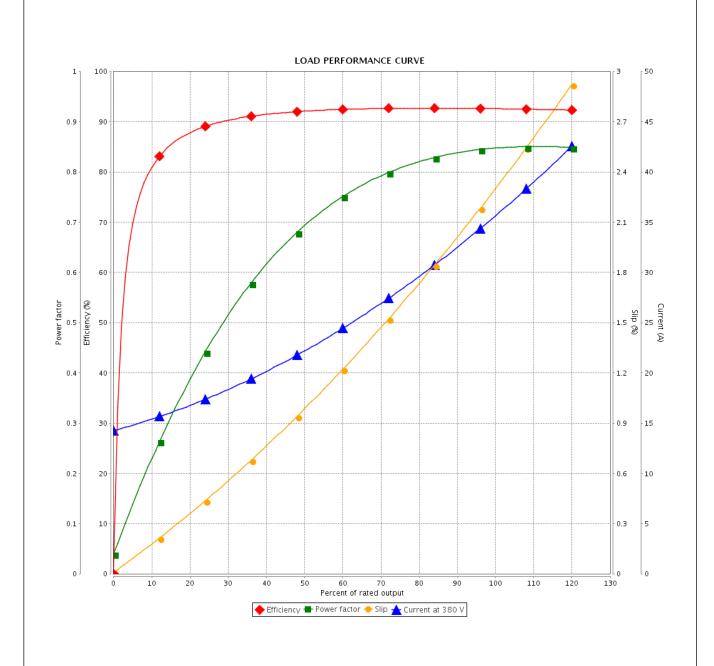
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40



Performance	: 3	: 380 V 50 Hz 4P IE3				
Rated current : 35.7 A		Moment of	f inertia (J)	: 4.52 sq.ft.lb		
LRC	: 6	5.9	Duty cycle	)	: Cont.(S1)	
Rated torque	: 8	39.6 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	240 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	260 %	Temperati	Temperature rise		
Rated speed	: ′	1465 rpm			: B	
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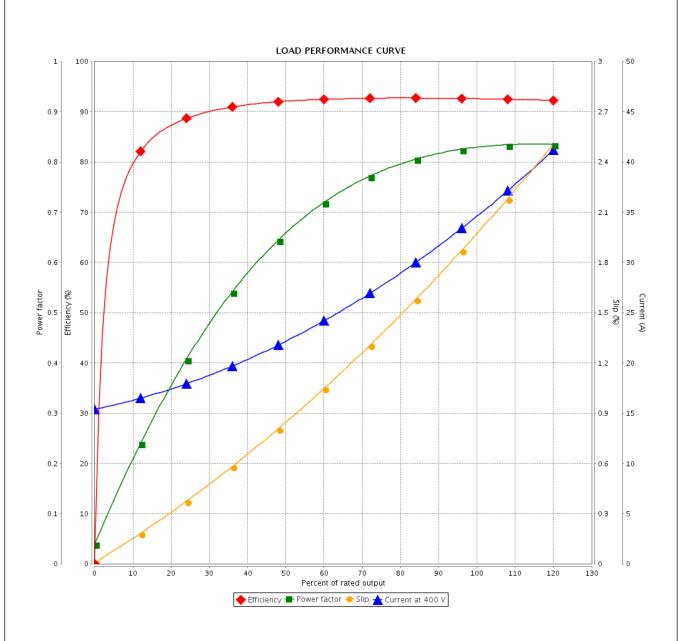
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

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Performance	ance : 400 V 50 Hz 4P IE3				
Rated current	: 34.7 A	Moment of	f inertia (J)	: 4.52 sq.ft.lb	
LRC	: 7.2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 89.3 ft.lb	Insulation	class	: F	
Locked rotor torque	: 270 %	Service fa	ctor	: 1.00	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
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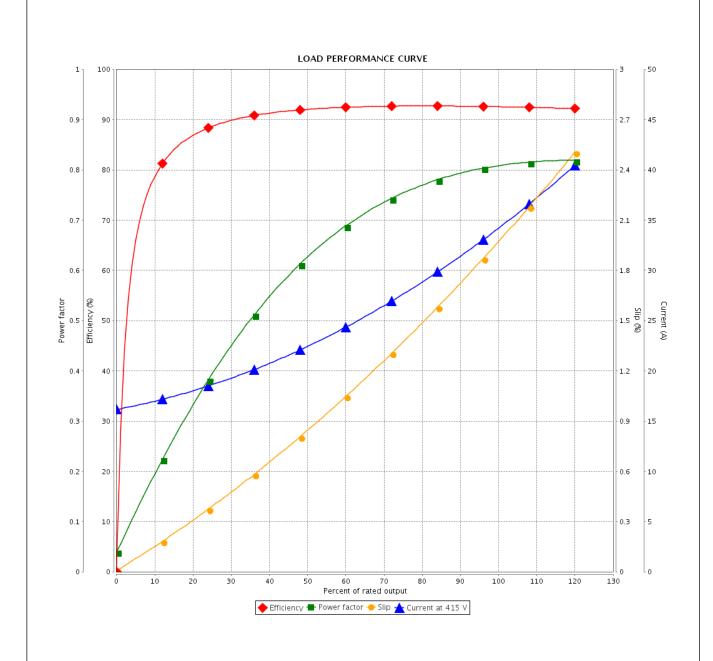
Customer

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		Momen	Moment of inertia (J)			
LRC	: 7.	.1	Duty cy	cle	: Cont.(S1)	
Rated torque	: 89	9.3 ft.lb	Insulation	on class	: F	
Locked rotor tord	que : 28	80 %	Service	factor	: 1.00	
Breakdown torque		00 %	% Temperature rise		: 80 K	
Rated speed	: 14	470 rpm Design			: B	
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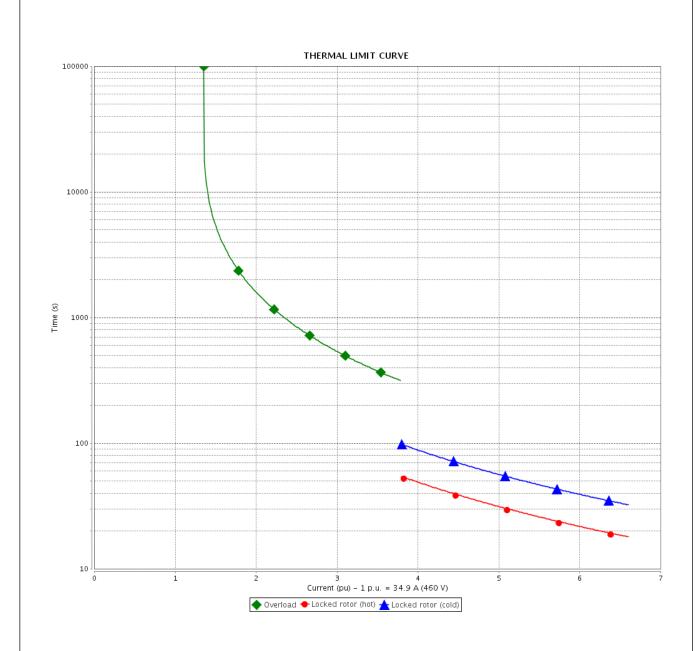


Customer		:				
Product line		: W40 JP Pump NEMA Prem	ium	Product code :	14486860	
Product line		Efficiency Three-Phase	iuiii	Froduct code .	14400000	
		,		Catalog # :	03018OT3E2	86JP-W40
Performance		230/460 V 60 Hz 4P				
Rated current LRC		69.8/34.9 A 6.6	Moment o	f inertia (J)	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque		89.0 ft.lb	Insulation		: F	
Locked rotor torc	jue :	280 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		280 %	Temperatu	ure rise	: 80 K : B	
		1770 rpm	Design		. D	
Heating constant						
Cooling constant	•					
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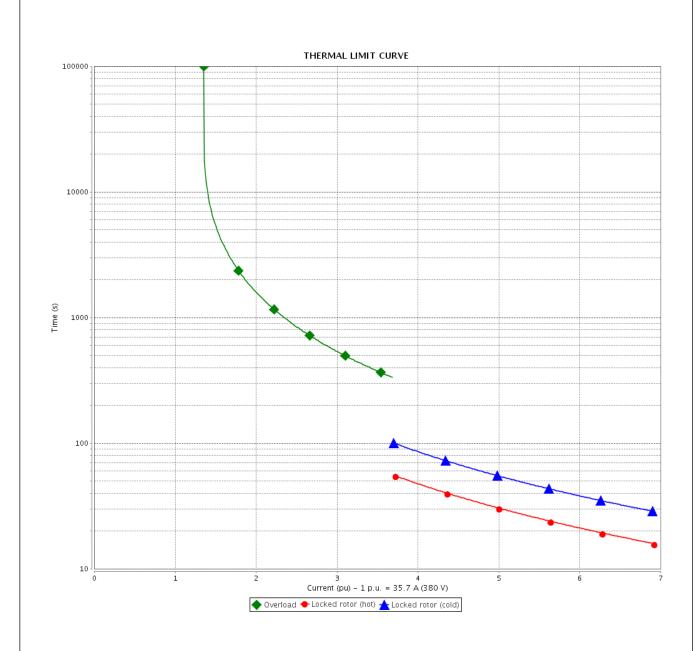


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Product line	: \ E1	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14486860	
			(	Catalog # :	03018OT3E2	86JP-W40
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35 : 6. : 89 ue : 24 e : 26 : 14	30 V 50 Hz 4P IE3 5.7 A 9 9.6 ft.lb 40 % 60 % 465 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant						
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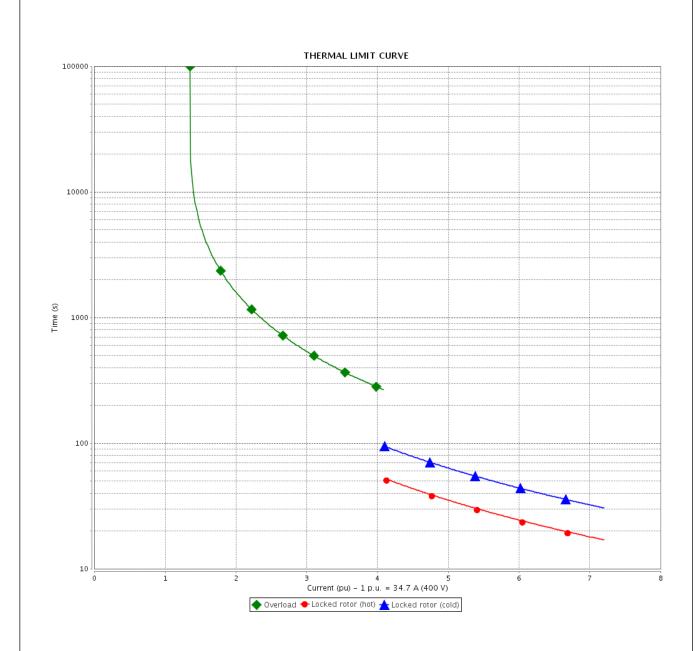


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14486860 030180T3E28	86JP-W40
Performance	:	400 V 50 Hz 4P IE3				
Rated current LRC	:	34.7 A 7.2	Duty cycle		: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		89.3 ft.lb 270 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ie :	300 % 1470 rpm	Temperati Design		: 80 K : B	
Heating constant						
Cooling constant Rev.	L	Changes Summary		Performed	Checked	Date
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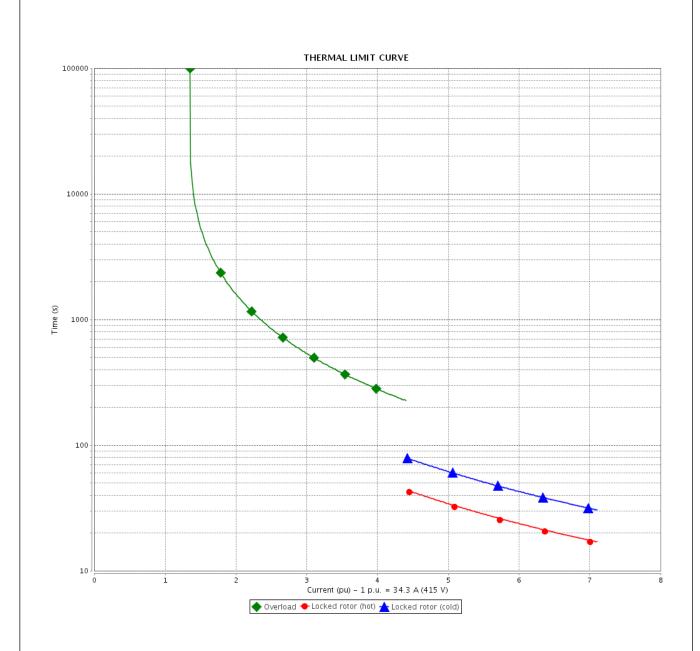


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Draduct line	. 1	A/40 ID Durer NEMA Drove	:		14400000	
Product line	: \ E1	W40 JP Pump NEMA Prem fficiency Three-Phase	ium i	Product code :	14486860	
		•	(	Catalog # :	03018OT3E2	86JP-W40
Performance		15 V 50 Hz 4P IE3	Managata	Limputia (I)	. 4 50 as # lb	
Rated current LRC	: 7.		Moment of Duty cycle		: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		9.3 ft.lb 30 %	Insulation Service fac	class	: F : 1.00	
Breakdown torqu	e : 30	00 %	Temperatu		: 80 K	
Rated speed		470 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Commercial	Γ	Dorform	Charles	Data
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### Three Phase Induction Motor - Squirrel Cage



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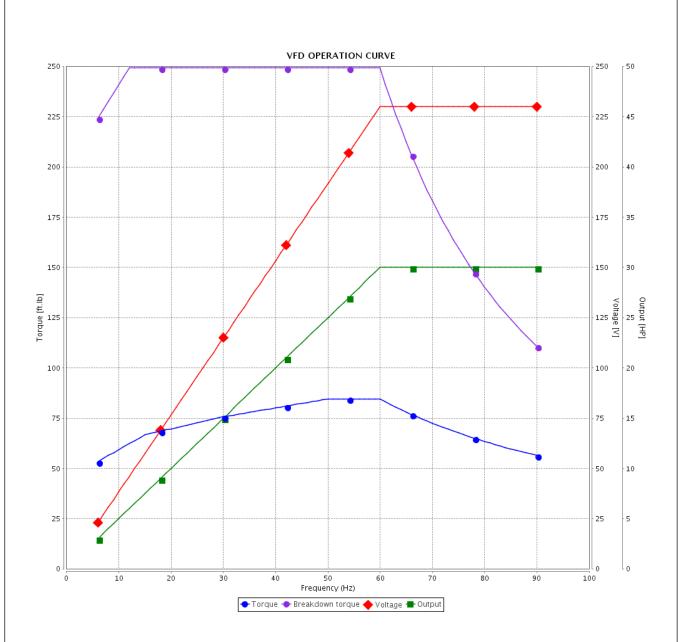
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40

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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 : F Rated torque Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

#### Three Phase Induction Motor - Squirrel Cage



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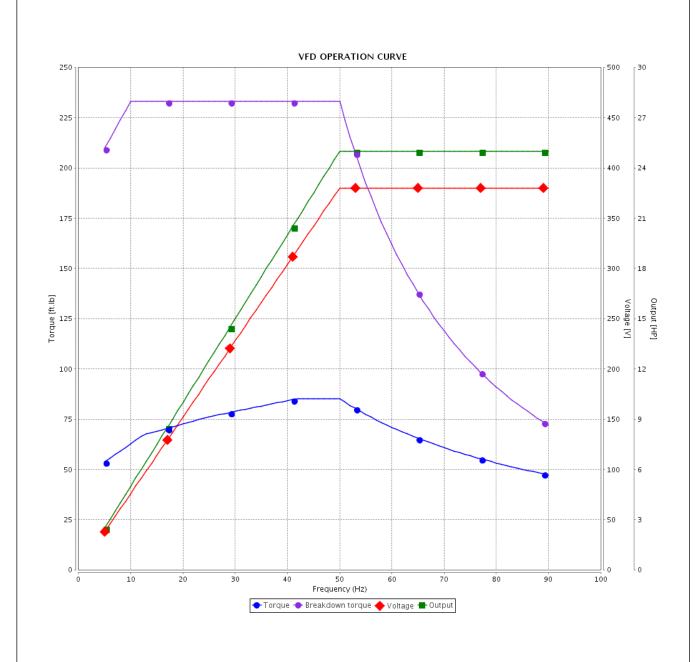
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40

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Performance : 380 V 50 Hz 4P IE3 : 35.7 A Rated current Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 89.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Performed Checked Rev. **Changes Summary** Date Performed by Checked by Revision Page

#### Three Phase Induction Motor - Squirrel Cage



Customer

Date

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Product line : W40 JP Pump NEMA Premium

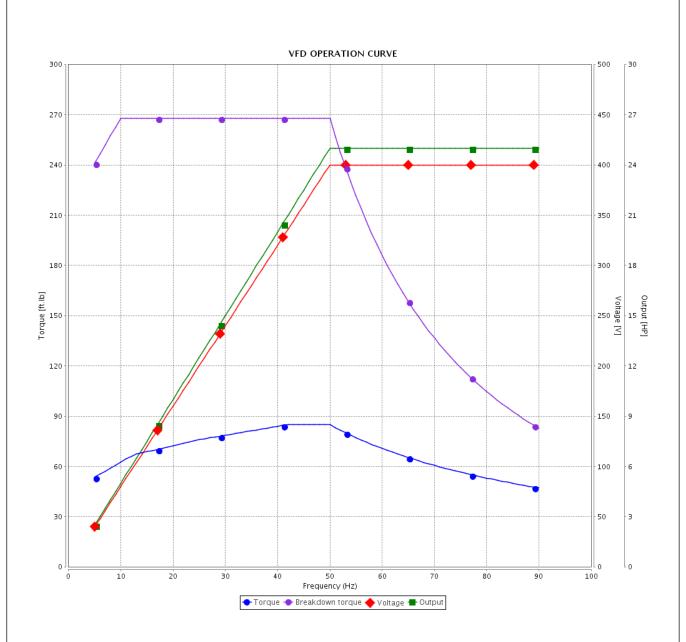
Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40

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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 Insulation class : 89.3 ft.lb : F Rated torque Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



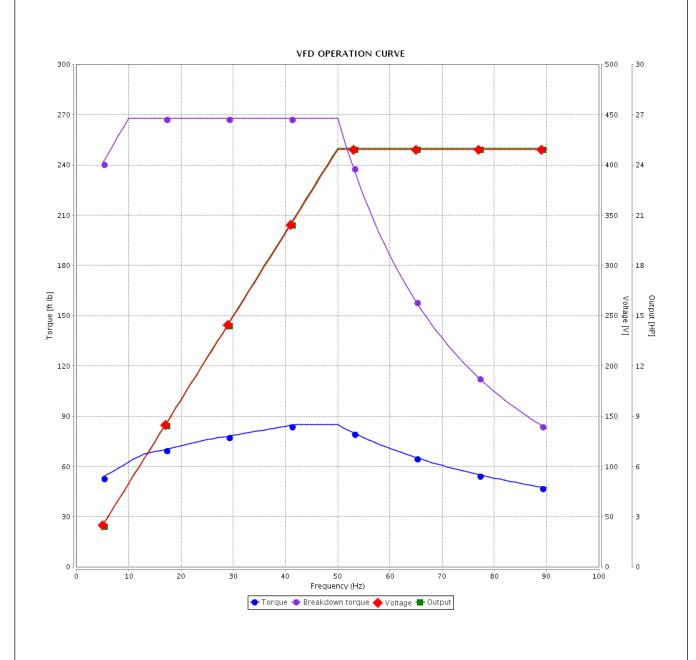
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486860

Catalog #: 03018OT3E286JP-W40



Performance	: 41	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7.1   [aue : 89.3 ft.lb   I   tor torque : 280 %		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
Rated speed		170 rpm	Design		: B	
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