DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836814

Catalog #: 03018OT3E286JPV-W40

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

Insulation class : F Mounting : W-6

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 : 410 lb
Protection degree : IP23 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	1465	1470	1470
Slip [%]		1.94	2.33	2.00	2.00
Rated torque [ft.lb]		89.0	89.3	89.3	89.0
Locked rotor torqu	Locked rotor torque [%]		229	260	280
Breakdown torque	[%]	270	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
Elliciency (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 OWELL ACIOI	75%	0.80	0.80	0.78	0.75
	100%	0.84	0.85	0.83	0.81

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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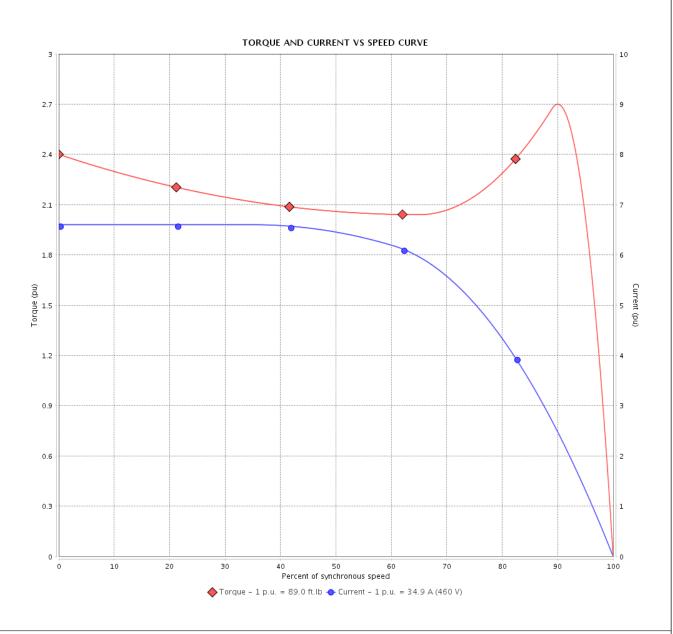
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836814

Catalog #: 03018OT3E286JPV-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)

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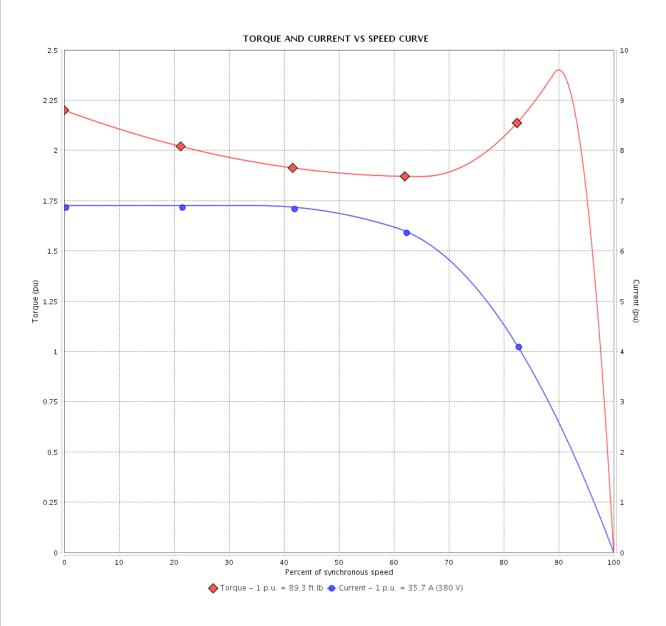
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836814

Catalog #: 03018OT3E286JPV-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 : 89.3 ft.lb : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K : B Rated speed : 1465 rpm Design

Locked rotor time : 28s (cold) 16s (hot)

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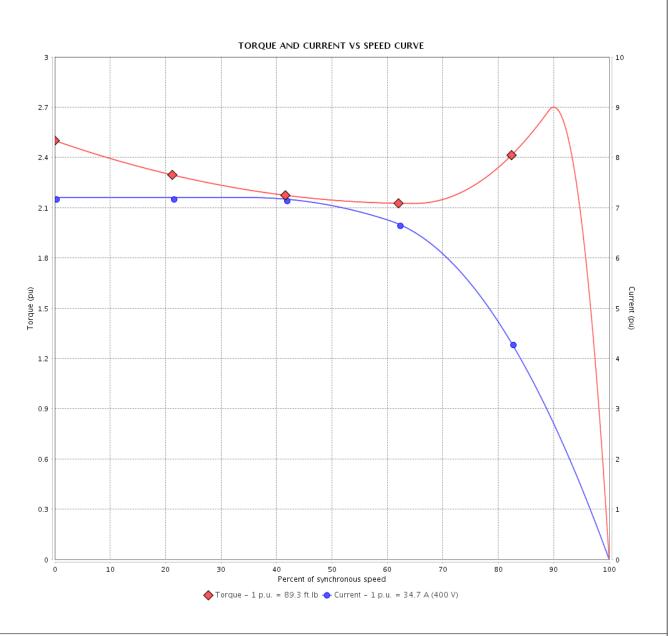
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836814

Catalog # : 03018OT3E286JPV-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)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JP Pump NEMA Premium Product code: 14836814 Efficiency Three-Phase Catalog #: 03018OT3E286JPV-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 89.0 ft.lb ◆ Current - 1 p.u. = 34.3 A (415 V) 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) Insulation class Rated torque : 89.0 ft.lb : F : 280 % Locked rotor torque Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot) Date Performed Checked Rev. **Changes Summary** Performed by Checked by Revision Page 14/04/2022 5/21 Date

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Customer :

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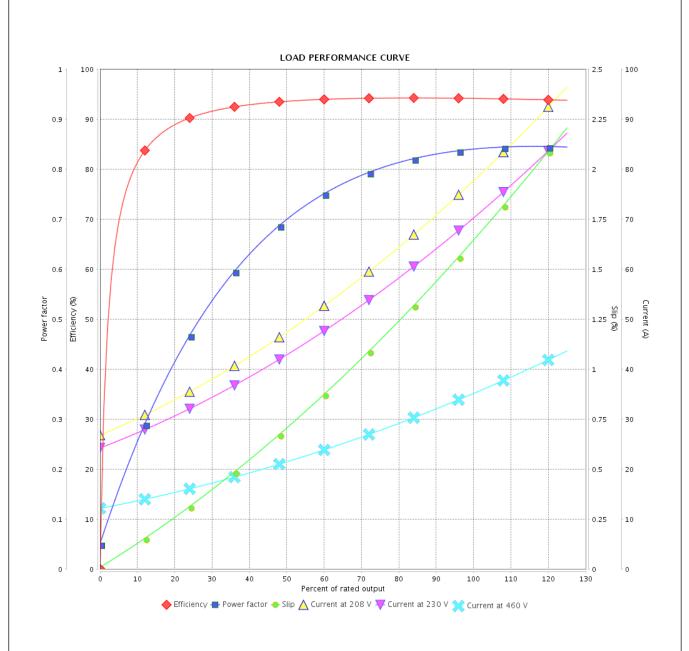
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Efficiency Three-Phase

Product code: 14836814

Catalog # : 03018OT3E286JPV-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 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

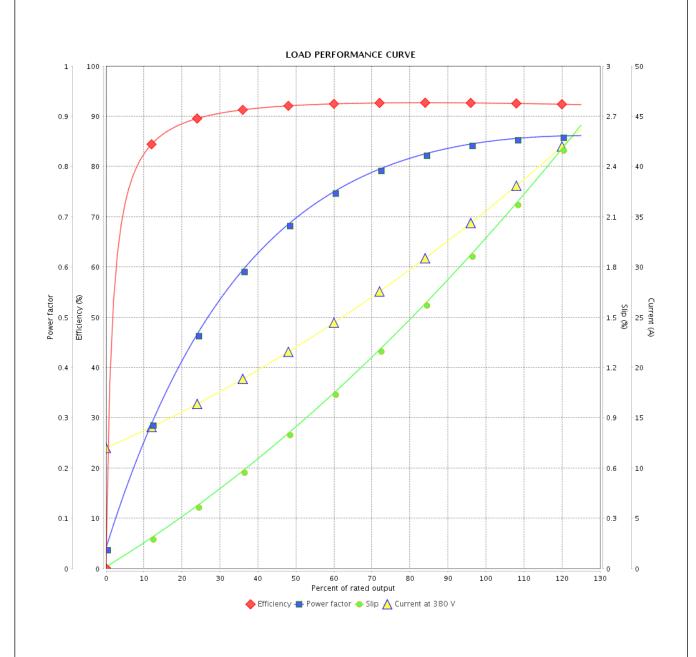
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836814

Catalog #: 03018OT3E286JPV-W40

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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 Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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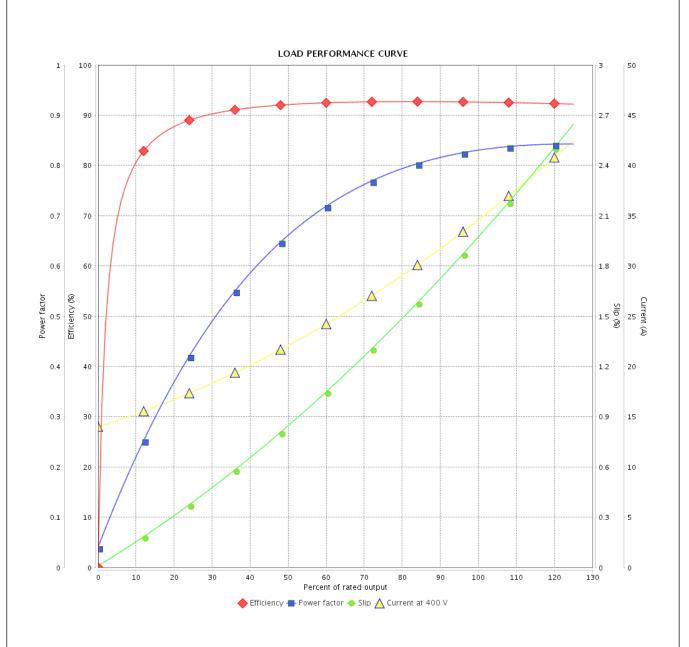
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Efficiency Three-Phase

Product code: 14836814

Catalog #: 03018OT3E286JPV-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	: 7.2	Duty cycle		: Cont.(S1)	
Rated torque	: 89.3 ft.lb	Insulation c	lass	: F	
Locked rotor torque	: 260 %	Service factor		: 1.00	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
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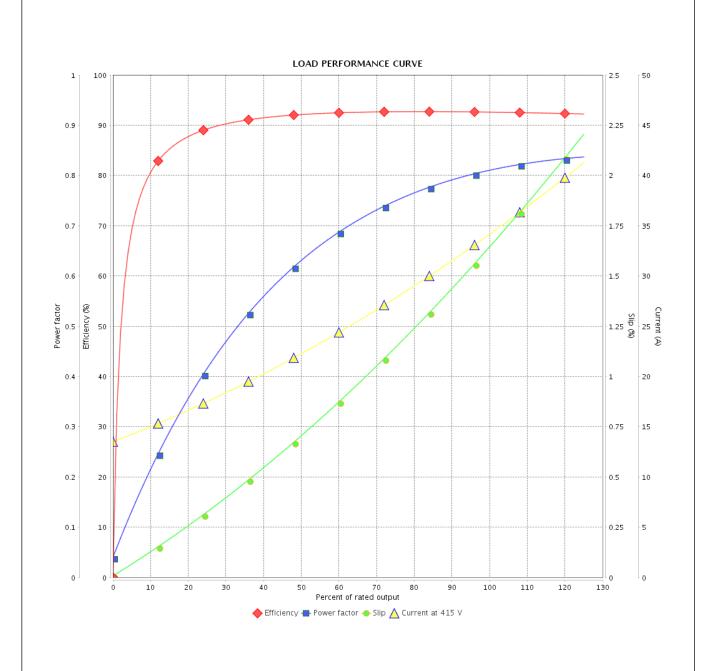
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836814

03018OT3E286JPV-W40 Catalog #:



Performance	: 4	115 V 50 Hz 4P IE3				
Rated current	: 3	34.3 A	Moment o	f inertia (J)	: 4.52 sq.ft.lb	
LRC	: 7	7.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	39.0 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	280 %	Service fa	ctor	: 1.00	
Breakdown torque		300 %	Temperati	Temperature rise		
Rated speed	: 1	1470 rpm	Design		: B	
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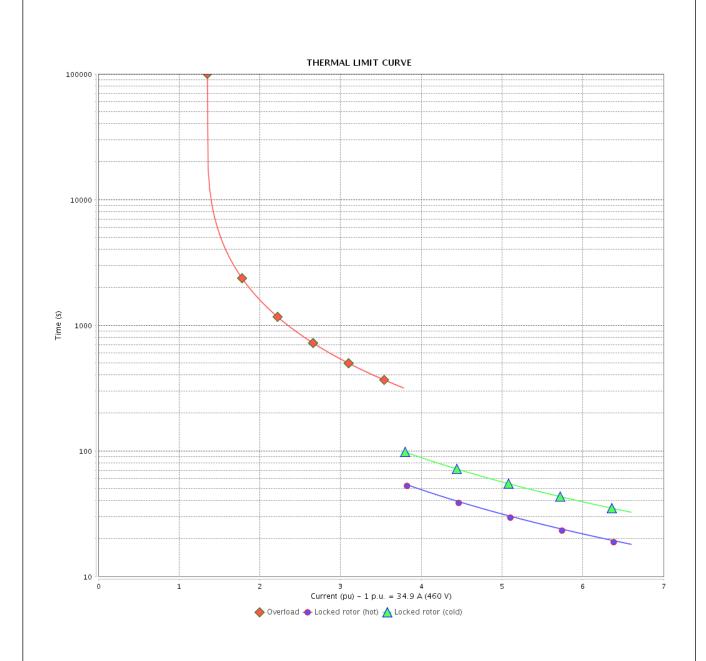


Customer	:					
Product line	: \ E1	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14836814 03018OT3E2	36JPV-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 69 : 6. : 89 ue : 28 e : 27 : 17	30/460 V 60 Hz 4P 9.8/34.9 A 6 9.0 ft.lb 30 % 70 % 765 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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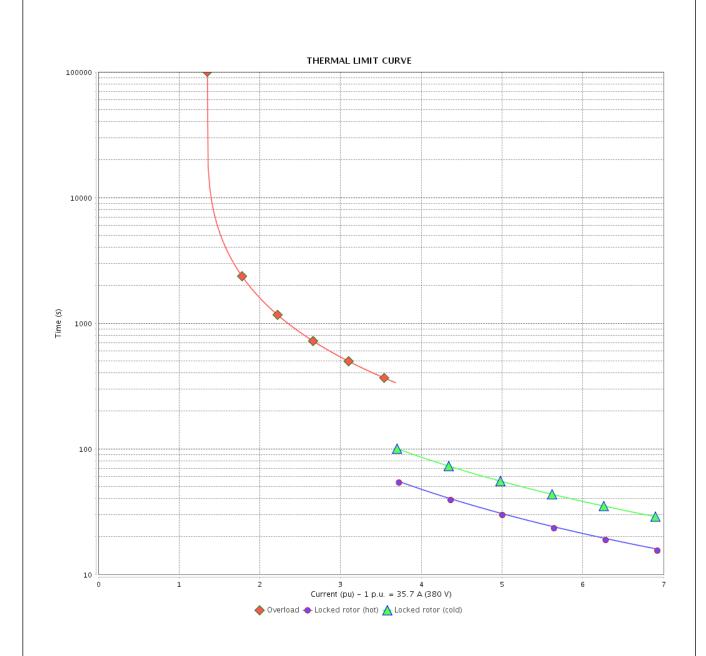


Customer	:					
Product line	:' E	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code : Catalog # :	14836814 03018OT3E28	36JPV-W40
Performance		80 V 50 Hz 4P IE3				
Rated current LRC	: 6		Duty cycle	f inertia (J)	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		9.3 ft.lb 29 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqt		29 % 40 %	Temperatu		: 1.00 : 80 K	
Rated speed	: 1	465 rpm	Design		: B	
Heating constant Cooling constant						
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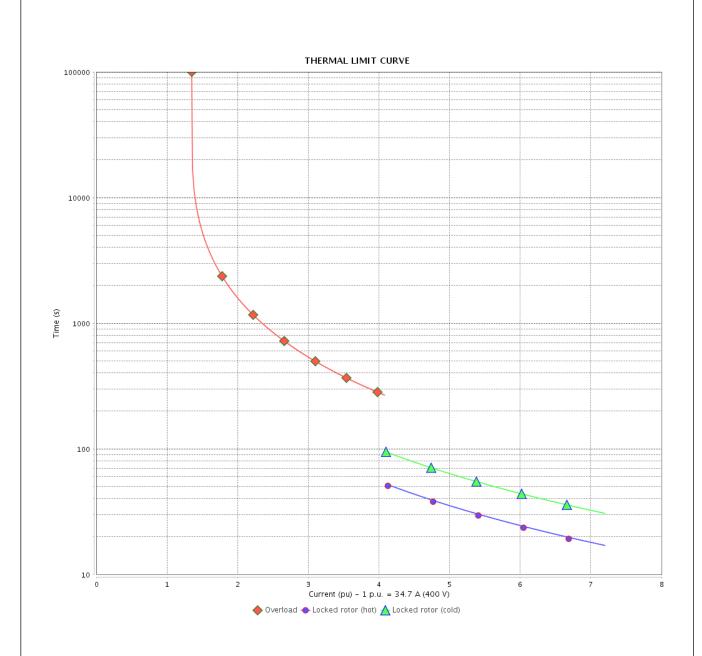


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	nium	Product code :	14836814	
		•		Catalog # :	03018OT3E2	86JPV-W40
D (400 \ / 50 \ \ 4D \ \ F0				
Performance		: 400 V 50 Hz 4P IE3 : 34.7 A	Moment	of inartia (I)	: 4 52 og ft lb	
Rated current LRC		: 7.2	Duty cycle		: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque		: 89.3 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 260 % : 270 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 1470 rpm	Design	u. 0 1100	: B	
Heating constan						
Cooling constant						
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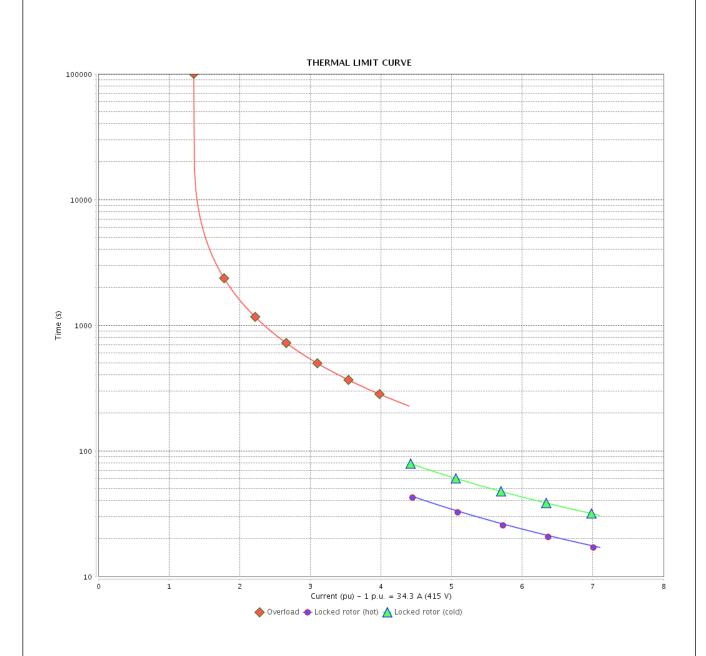


Customer	:					
Product line	: \ E1	N40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14836814 03018OT3E2	86JPV-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 3 ² : 7. : 89 ue : 28 e : 30 : 1 ²	15 V 50 Hz 4P IE3 4.3 A 1 9.0 ft.lb 30 % 00 % 470 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 Rev.		Changes Summary		Performed	Checked	Date
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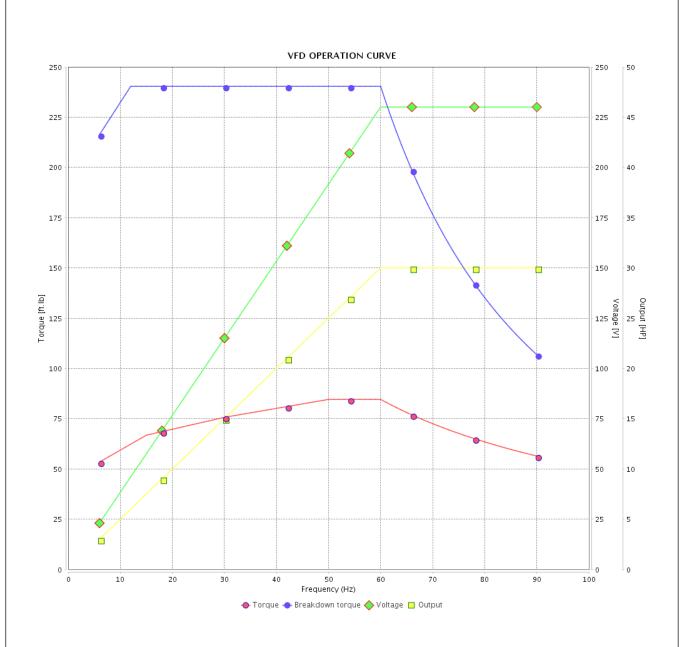
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836814

Catalog #: 03018OT3E286JPV-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 : 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



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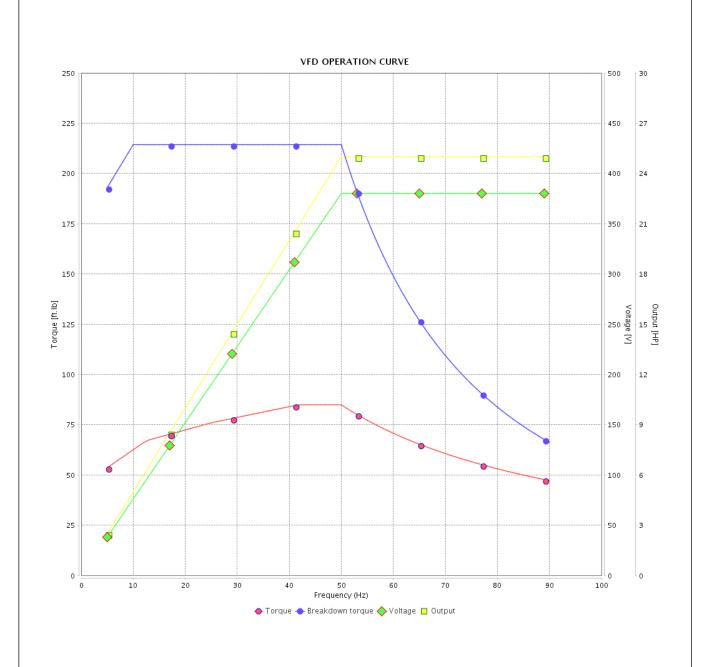
Product line : W40 JP Pump NEMA Premium

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Product code: 14836814

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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) Duty cycle Insulation class Service factor Temperature rise Design		: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

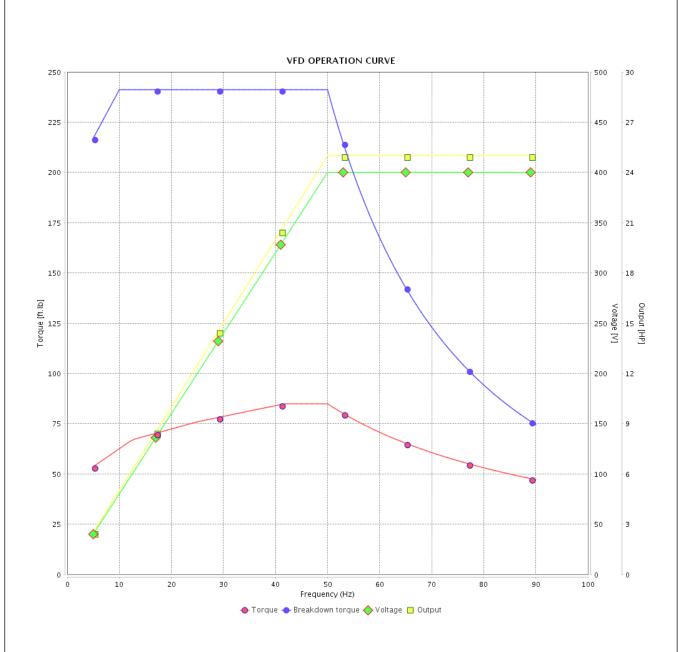
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Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 89 jue : 26 ie : 27	4.7 A .2 9.3 ft.lb 60 % 70 % 470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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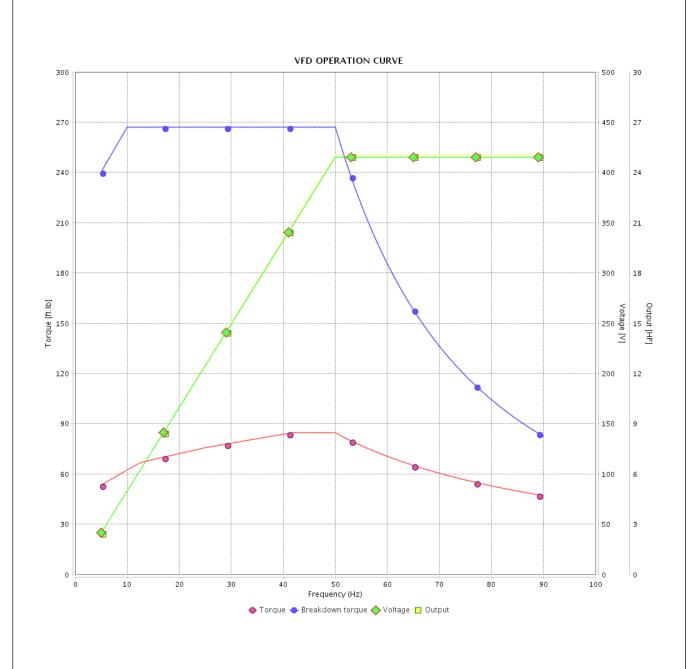
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

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Catalog #: 03018OT3E286JPV-W40



Performance	: •	415 V 50 Hz 4P IE3					
Rated current	: :	34.3 A	Moment o	Moment of inertia (J)			
LRC	: '	7.1	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: :	89.0 ft.lb	Insulation	Insulation class			
Locked rotor torque	e ::	280 %	Service fa	Service factor			
Breakdown torque	::	300 %	Temperati	Temperature rise			
Rated speed	:	1470 rpm	Design	Design			
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