DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486992

Catalog #: 04018OT3E324JP-W40

Frame : 324JP 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 : 464 lb

Protection degree : IP23 Moment of inertia (J) : 5.69				ertia (J) : 5.69	sq.ft.lb
Design		: B			
Output [HP]		40	30	30	30
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		95.2/47.6	43.3	42.2	41.7
L. R. Amperes [A]		590/295	290	283	313
LRC [A]		6.2x(Code G)	6.7x(Code H)	6.7x(Code H)	7.5x(Code J)
No load current [A]		37.0/18.5	18.3	20.3	22.1
Rated speed [RPM	1]	1775	1475	1480	1480
Slip [%]		1.39	1.67	1.33	1.33
Rated torque [ft.lb]		118	107	107 106	
	Locked rotor torque [%]		229	260	280
Breakdown torque	Breakdown torque [%]		270	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		23s (cold) 13s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	25s (cold) 14s (hot)
Noise level ²		66.0 dB(A)			
	25%	93.5	92.4	92.5	92.4
Efficiency (%)	50%	93.6	92.6	92.6	92.5
Liliciency (70)	75%	94.1	93.0	93.0	93.0
100%		94.1	93.0	93.0	93.0
	25%	0.44	0.42	0.38	0.34
Power Factor	50%	0.70	0.68	0.63	0.59
1 OWELL ACIO	75%	0.80	0.78	0.75	0.72
	100%	0.84	0.83	0.81	0.79

Drive end Non drive end : 6312 Z C3 6211 Z C3

Without Without

Bearing Seal Bearing Seal

Lubrication interval:20000 h20000 hLubricant amount:21 g11 gLubricant type:Mobil Polyrex EM

Foundation loads Max. traction Max. compression

Notes

Bearing type

Sealing

USABLE @208V 105A SF 1.15 SFA 121A

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	11/04/2020			1 / 21	

Three Phase Induction Motor - Squirrel Cage



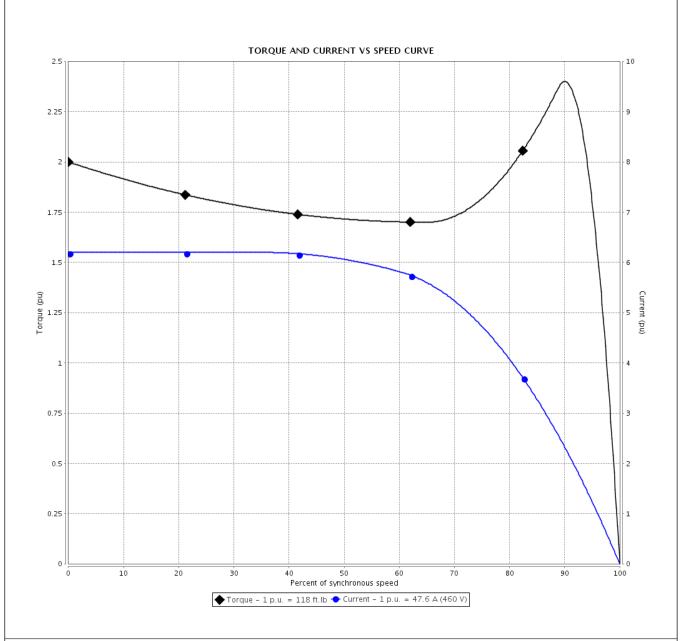
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486992

Catalog #: 04018OT3E324JP-W40



Performance : 230/460 V 60 Hz 4P Rated current : 95.2/47.6 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 118 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			2 / 21	

Three Phase Induction Motor - Squirrel Cage



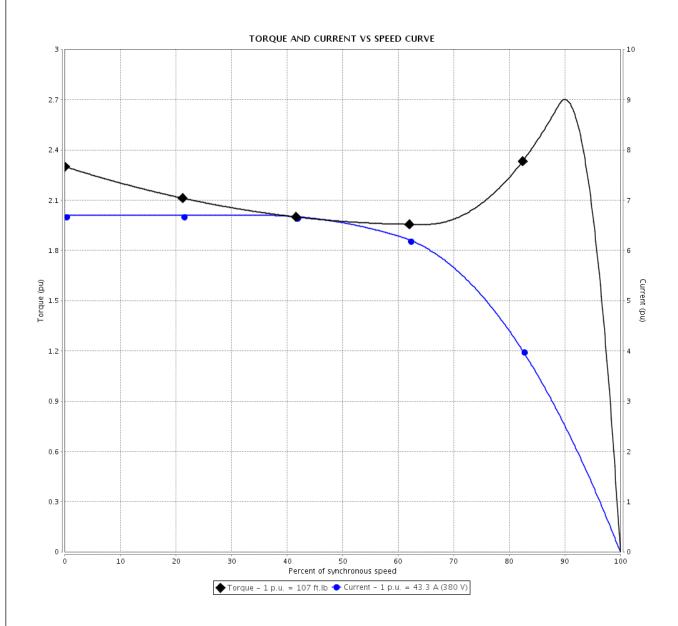
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486992

Catalog #: 04018OT3E324JP-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 43.3 A	Moment of inertia (J)	: 5.69 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation class	:F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 1475 rpm	Design	: B	
Locked rotor time	: 30s (cold) 17s (bot)			

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			3 / 21	

Three Phase Induction Motor - Squirrel Cage



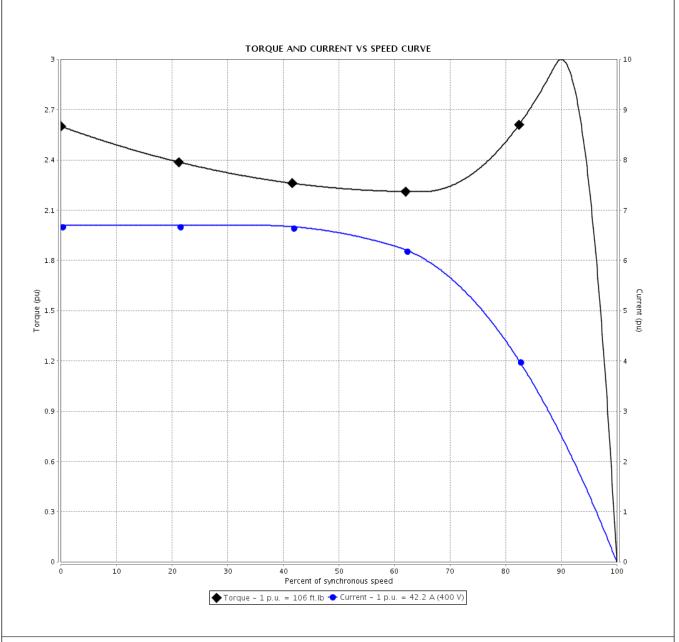
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486992

Catalog #: 04018OT3E324JP-W40



: 400 V 50 Hz 4P IE3 Performance Rated current : 42.2 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			4 / 21	

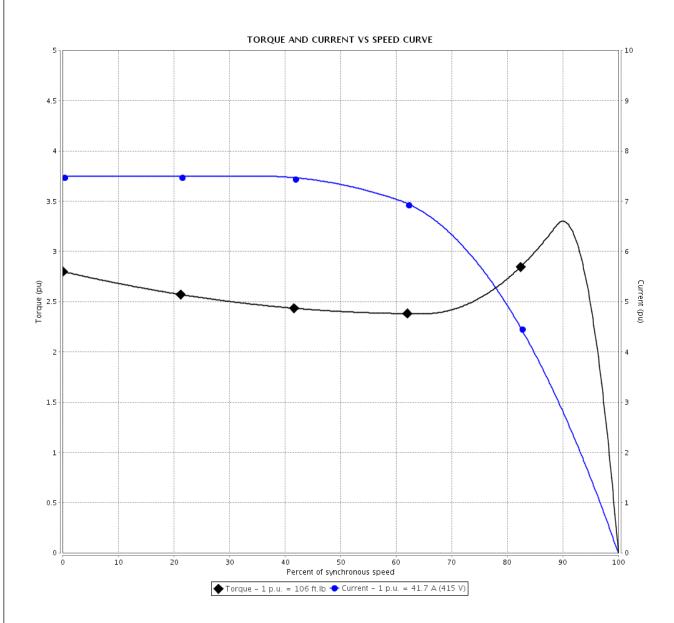
Efficiency Three-Phase

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14486992

> Catalog #: 04018OT3E324JP-W40



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 41.7 A	Moment of inertia (J)	: 5.69 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 106 ft.lb	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)			

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Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	11/04/2020			5 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

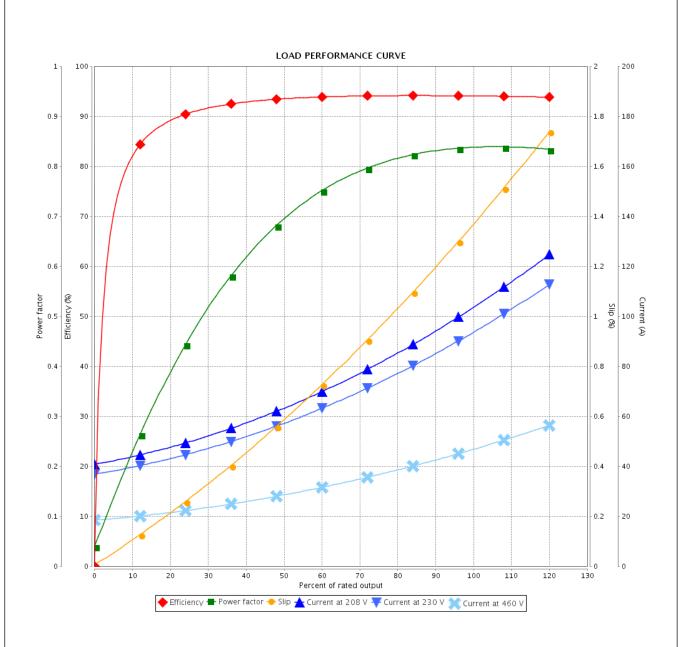
11/04/2020

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486992

Catalog #: 04018OT3E324JP-W40



Performance : 230/460 V 60 Hz 4P : 95.2/47.6 A Moment of inertia (J) : 5.69 sq.ft.lb Rated current **LRC** Duty cycle : 6.2 : Cont.(S1) : 118 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Performed Checked Rev. **Changes Summary** Date Performed by Checked by Revision Page

6/21

Three Phase Induction Motor - Squirrel Cage



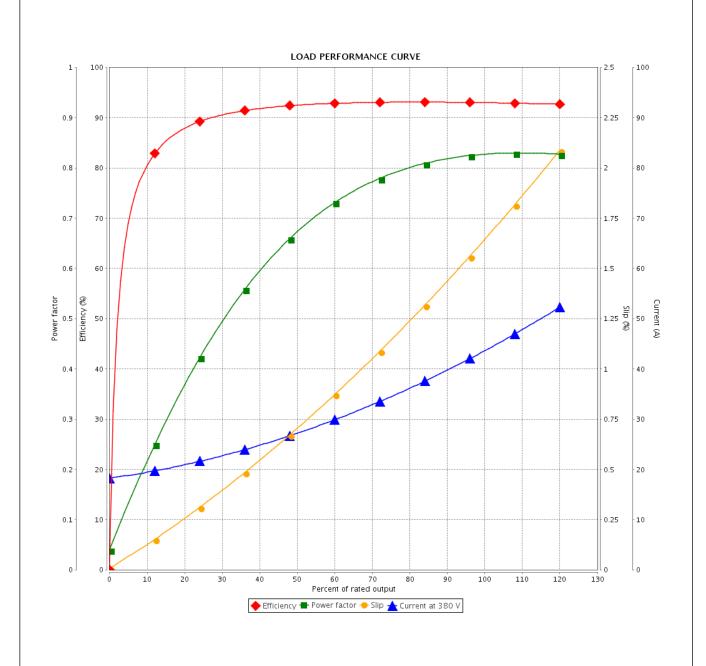
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486992

Catalog #: 04018OT3E324JP-W40



Performance	:	: 380 V 50 Hz 4P IE3				
Rated current	:	43.3 A	Moment o	f inertia (J)	: 5.69 sq.ft.lb	
LRC	:	6.7	Duty cycle)	: Cont.(S1)	
Rated torque	:	107 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.00	
Breakdown torque	:	270 %	70 % Temperature rise		: 80 K	
Rated speed	:	1475 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				7 / 21	

Three Phase Induction Motor - Squirrel Cage



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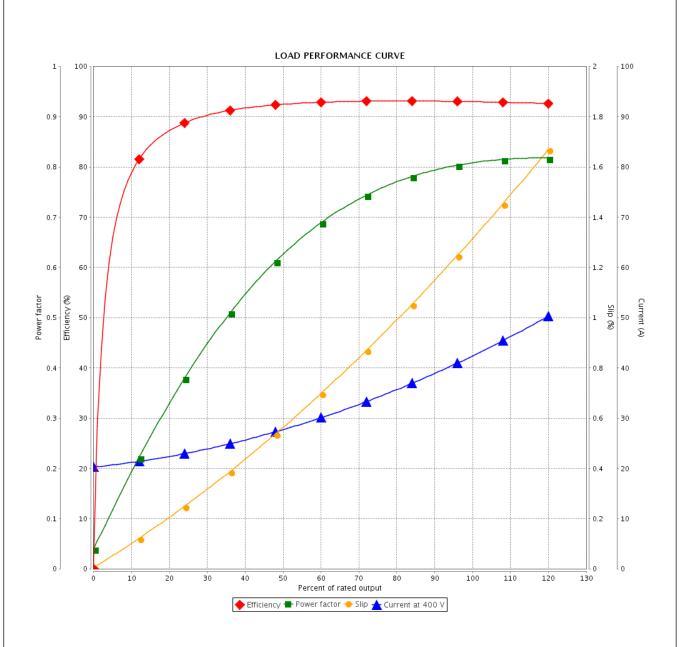
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Efficiency Three-Phase

Product code: 14486992

Catalog #: 04018OT3E324JP-W40

8 / 21



Performance : 400 V 50 Hz 4P IE3						
Rated current : 42.2 A Moment of LRC : 6.7 Duty cycl Rated torque : 106 ft.lb Insulation Locked rotor torque : 260 % Service fa Breakdown torque : 300 % Temperat Rated speed : 1480 rpm Design		class ctor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
Rev.		Changes Summa	ıry	Performed	Checked	Date
Performed by						5
Checked by					Page	Revision

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage



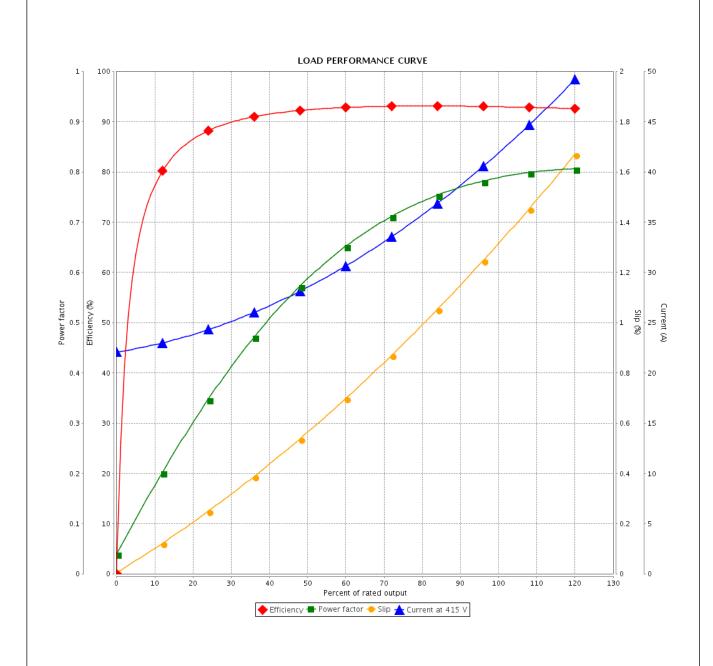
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486992

Catalog #: 04018OT3E324JP-W40



Performance	: 4	: 415 V 50 Hz 4P IE3				
Rated current	: 4	41.7 A	Moment o	f inertia (J)	: 5.69 sq.ft.lb	
LRC	: '	7.5	Duty cycle)	: Cont.(S1)	
Rated torque	:	106 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	280 %	Service fa	ctor	: 1.00	
Breakdown torque	: ;	330 %	Temperati	Temperature rise		
Rated speed	:	1480 rpm	Design		: B	
Rev.		Changes Summary	/	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				0 / 21	

Three Phase Induction Motor - Squirrel Cage

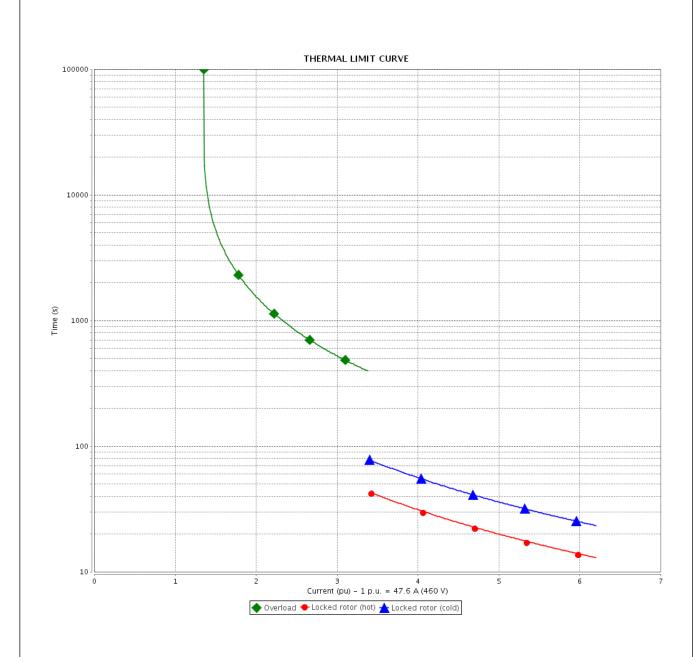


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Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	iium	Product code :	14486992	
		,		Catalog # :	04018OT3E3	24JP-W40
Performance		230/460 V 60 Hz 4P				
Rated current LRC		95.2/47.6 A 6.2	Moment of Duty cycle	of inertia (J)	: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque	:	118 ft.lb	Insulation	class	: F	
Locked rotor toro		200 %	Service fa		: 1.25	
Breakdown torqu Rated speed		240 % 1775 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant		•				
Cooling constant						
Rev.	•	Changes Summary		Performed	Checked	Date
		<u> </u>			-	
Performed by						
Checked by					Page	Revision
Date	11/04/2020				10 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Perfo	rmed	Checked	Date
Performed by			·			
Checked by					Page	Revision
Date	11/04/2020				11 / 21	

Three Phase Induction Motor - Squirrel Cage

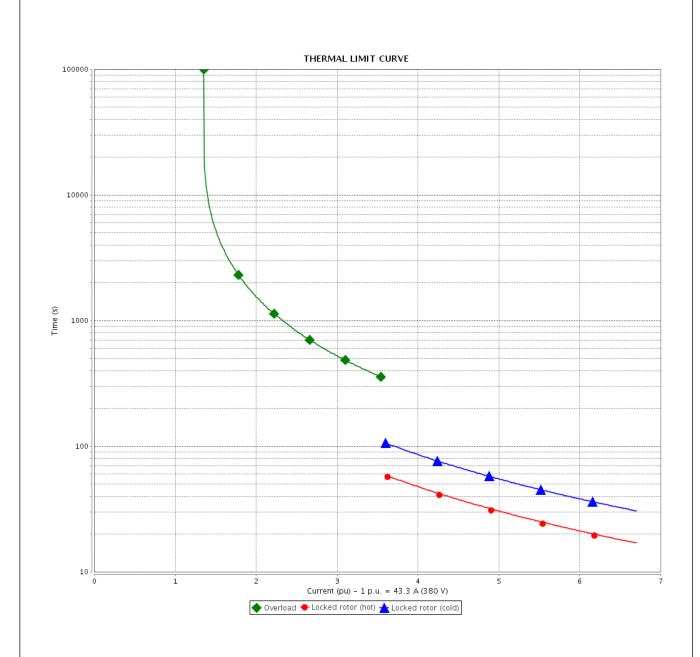


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14486992 04018OT3E32	24JP-W40
Performance		380 V 50 Hz 4P IE3	Moment	finartia (I)	: 5 60 og ft lb	
Rated current LRC	:	43.3 A 6.7	Duty cycle		: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		107 ft.lb 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		270 %	Temperati		: 80 K	
Rated speed		1475 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Commercial		Dorform	Charles 1	Data
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				12 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			13 / 21	

Three Phase Induction Motor - Squirrel Cage

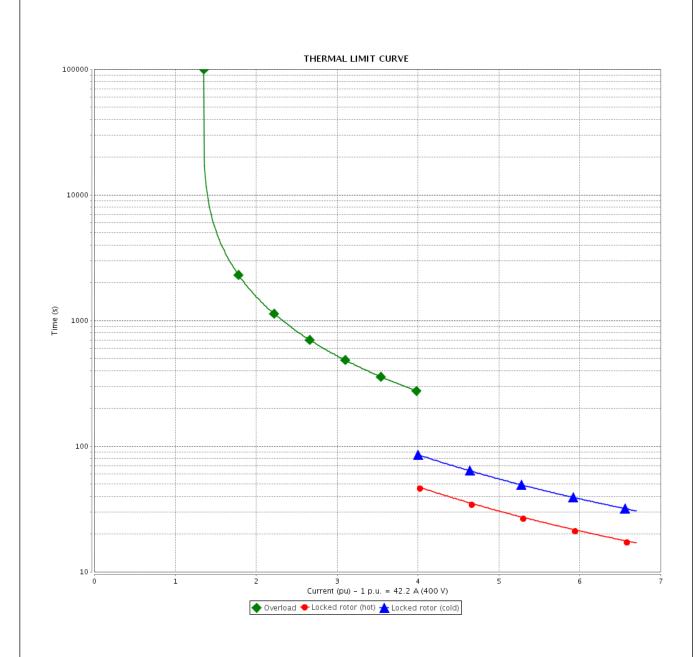


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	ium	Product code :	14486992	
		Emoleticy Three-t hase	1	Catalog # :	04018OT3E32	24JP-W40
Performance		400 V 50 Hz 4P IE3	N4	finantia (I)	. 5.00 # 11-	
Rated current LRC		42.2 A 6.7	Duty cycle		: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque		106 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		260 % 300 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		1480 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Dorformed by						
Performed by Checked by		_			Page	Revision
Date	11/04/2020	_			14 / 21	IZEAISIOH

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			15 / 21	

Three Phase Induction Motor - Squirrel Cage

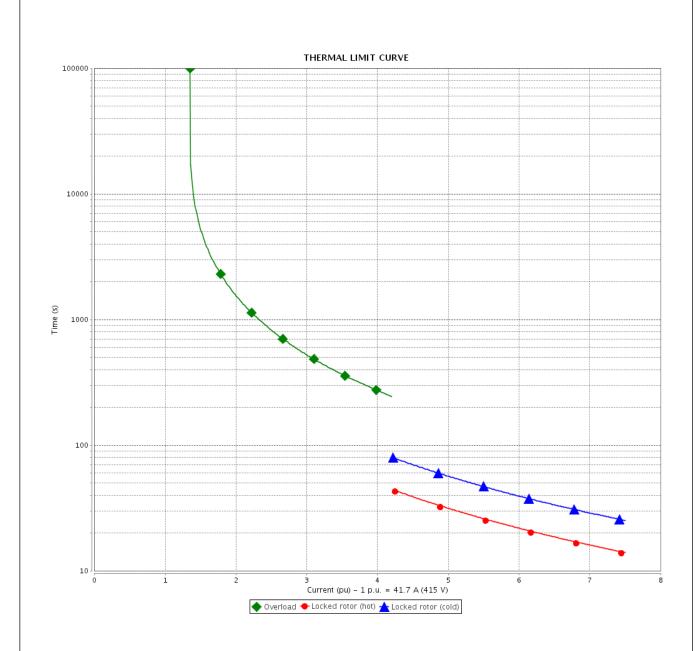


Customer	:					
Product line	:' E	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code : Catalog # :	14486992 04018OT3E32	24JP-W40
Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 7 : 1	06 ft.lb	Moment of Duty cycle Insulation		: 5.69 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	que : 2 ue : 3	80 % 30 % 480 rpm	Service fac Temperatu Design	ctor	: 1.00 : 80 K : B	
Heating constan	t	·				
Cooling constant		Changes Summary		Performed	Checked	Date
Performed by					D	Devidada
Checked by	11/04/2020	_			Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			17 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

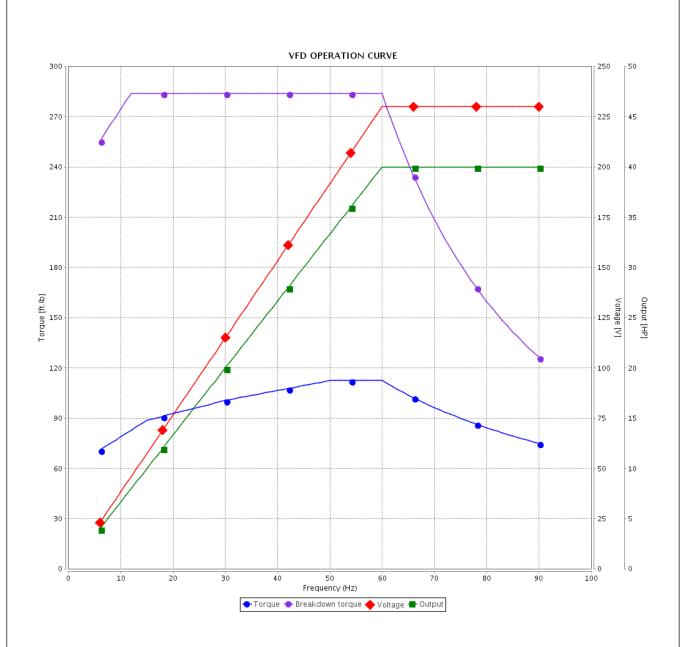
11/04/2020

Product line : W40 JP Pump NEMA Premium

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Product code: 14486992

Catalog #: 04018OT3E324JP-W40



Performance : 230/460 V 60 Hz 4P Rated current : 95.2/47.6 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** Duty cycle : 6.2 : Cont.(S1) Insulation class : 118 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

18 / 21

Three Phase Induction Motor - Squirrel Cage



Customer

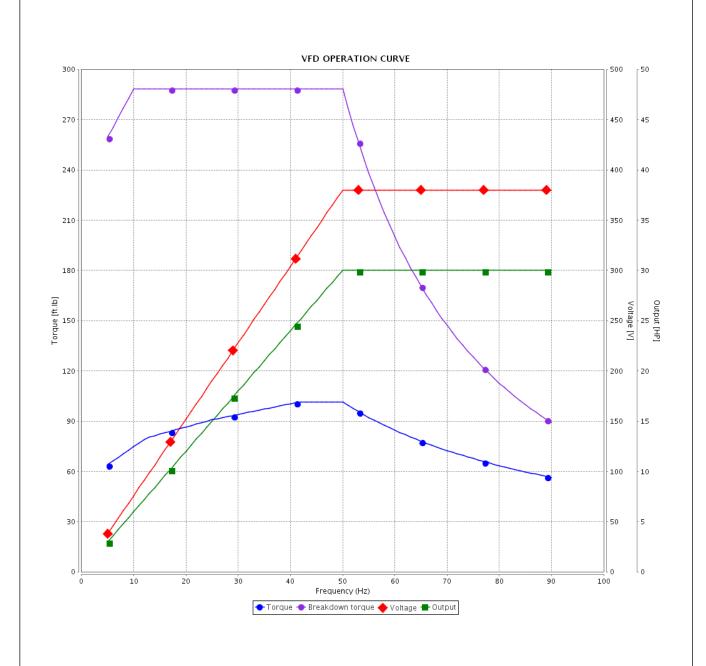
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19/21



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.3 A : 6.7 : 107 ft.lb : 229 % : 270 % : 1475 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

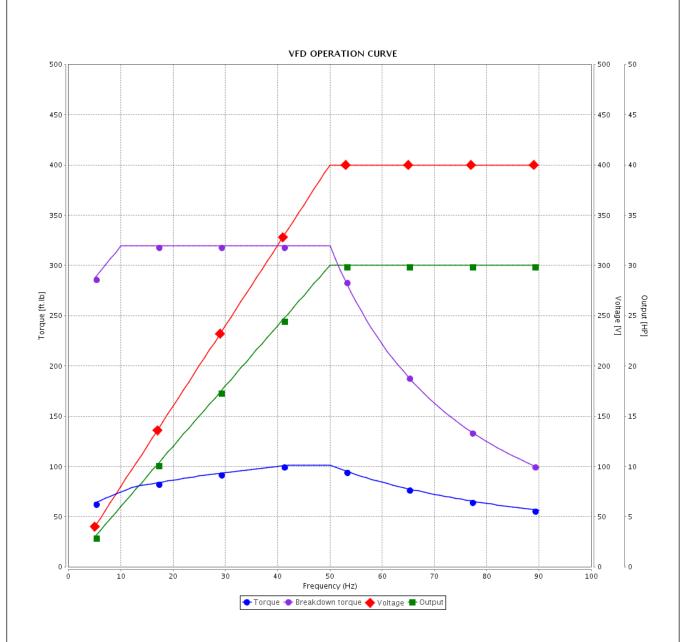
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486992

Catalog #: 04018OT3E324JP-W40

20 / 21



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.2 A : 6.7 : 106 ft.lb : 260 % : 300 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage



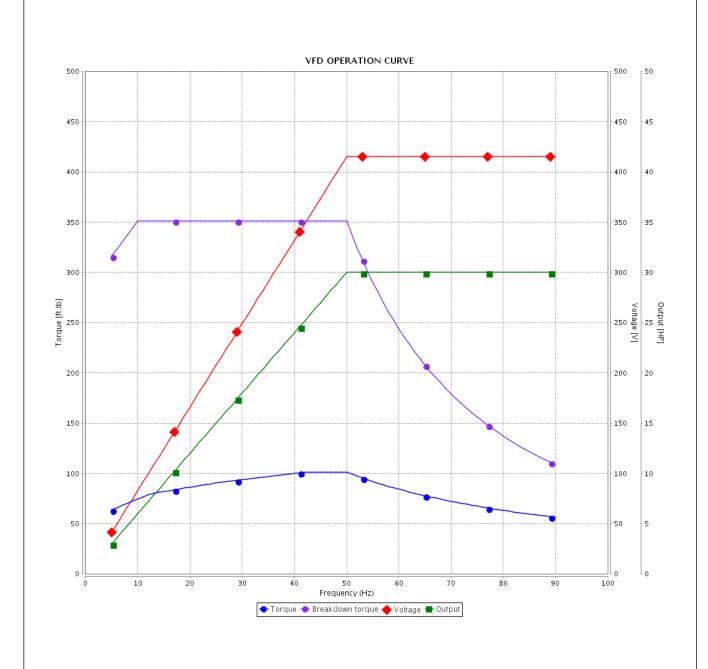
Customer

Product line : W40 JP Pump NEMA Premium

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Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 4	: 41.7 A Moment of		f inertia (J)	: 5.69 sq.ft.lb	
LRC	: 7	.5	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	06 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	80 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	30 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
Rev.		Changes Summar	У	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				21 / 21	