DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490300

Catalog #: 05036OT3G324JP-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 : 432 lb

Protection degree		: IP23	IP23 Moment of inert		rtia (J) : 3.02 sq.ft.lb		
Design		: B					
Output [HP]		50	40	40	40		
Poles		2	2	2	2		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		460	380	400	415		
Rated current [A]		59.4	57.5	56.6	56.6		
L. R. Amperes [A]		374	368	374	385		
LRC [A]		6.3x(Code G)	6.4x(Code G)	6.6x(Code H)	6.8x(Code H)		
No load current [A]		22.5	20.5	24.0	27.0		
Rated speed [RPM	1]	3560	2960	2965	2965		
Slip [%]	Slip [%]		1.33	1.17	1.17		
	Rated torque [ft.lb]		71.0	70.8	70.8		
Locked rotor torque [%]		200	200	229	240		
Breakdown torque	[%]	220	220 240		260		
Service factor		1.25	1.00	1.00	1.00		
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		25s (cold) 14s (hot)	19s (cold) 11s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)		
Noise level ²		75.0 dB(A)					
	25%	91.5	88.3	88.4	88.5		
Efficiency (%)	50%	91.7	90.0	90.0	90.1		
Efficiency (%) 75%		93.0	91.6	91.7	91.7		
100%		93.0	93.3	93.3	93.3		
25%		0.46	0.48	0.42	0.37		
Power Factor	50%	0.72	0.73	0.67	0.60		
1 OWELL ACIO	75%	0.81	0.82	0.77	0.73		
	100%	0.84	0.85	0.82	0.79		

Drive end Non drive end 6312 Z C3 Bearing type 6211 Z C3

Sealing Without Without

Bearing Seal Bearing Seal

Lubrication interval 19658 h 20000 h Lubricant amount 11 g Lubricant type Mobil Polyrex EM

Foundation loads Max. traction Max. compression

Notes

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



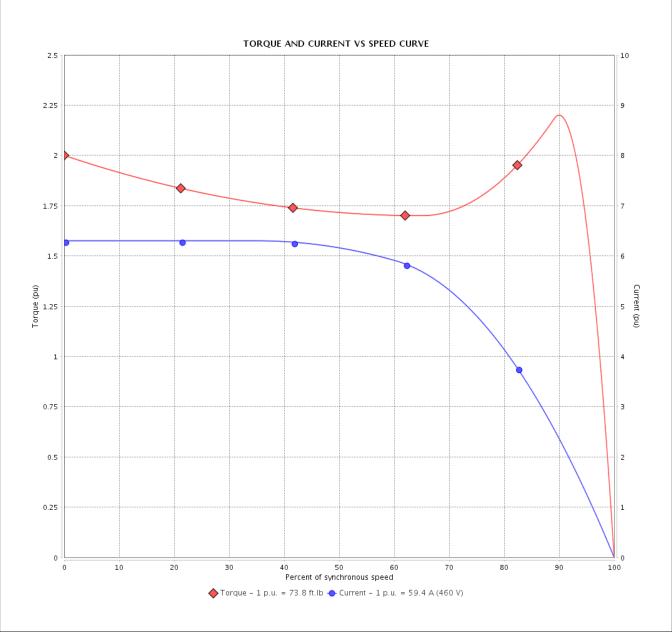
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490300

Catalog #: 05036OT3G324JP-W40



Performance : 460 V 60 Hz 2P Rated current : 59.4 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 73.8 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B

Locked rotor time : 25s (cold) 14s (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



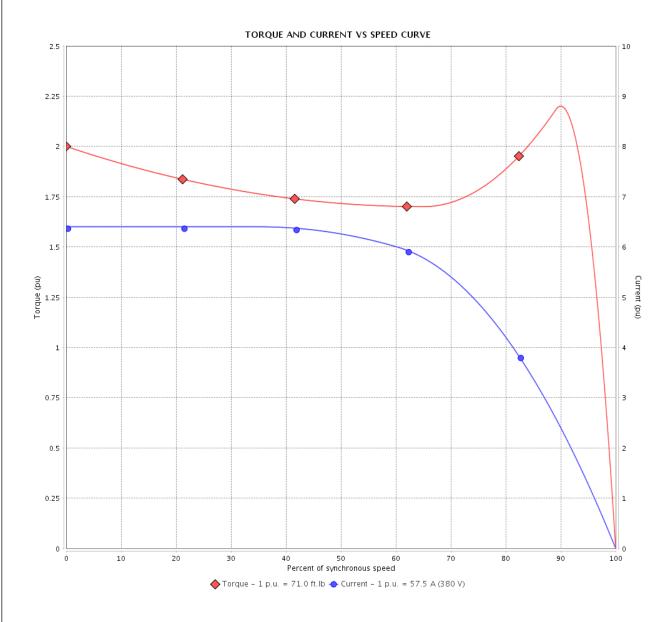
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490300

Catalog #: 05036OT3G324JP-W40



Performance : 380 V 50 Hz 2P IE3 Rated current : 57.5 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.0 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K : B Rated speed : 2960 rpm Design

Locked rotor time : 19s (cold) 11s (hot)

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

Three Phase Induction Motor - Squirrel Cage



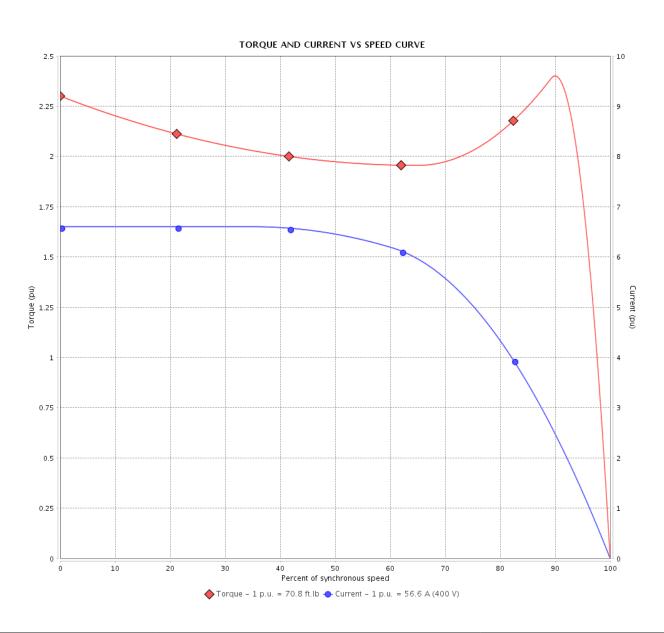
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490300

Catalog #: 05036OT3G324JP-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 56.6 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 70.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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

Three Phase Induction Motor - Squirrel Cage

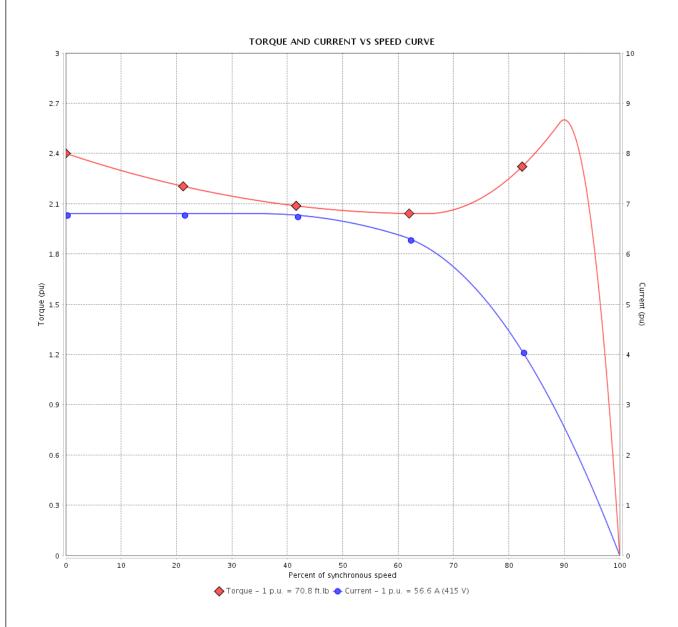


Customer :

Product line : W40 JP Pump NEMA Premium Product code : 14490300

Efficiency Three-Phase

Catalog #: 05036OT3G324JP-W40



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 56.6 A	Moment of inertia (J)	: 3.02 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 70.8 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 2965 rpm	Design	: B	
Locked rotor time	: 19s (cold) 11s (hot)			

Locked rotor time : 19s (cold) 11s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	12/04/2022	1		5 / 21	

Three Phase Induction Motor - Squirrel Cage



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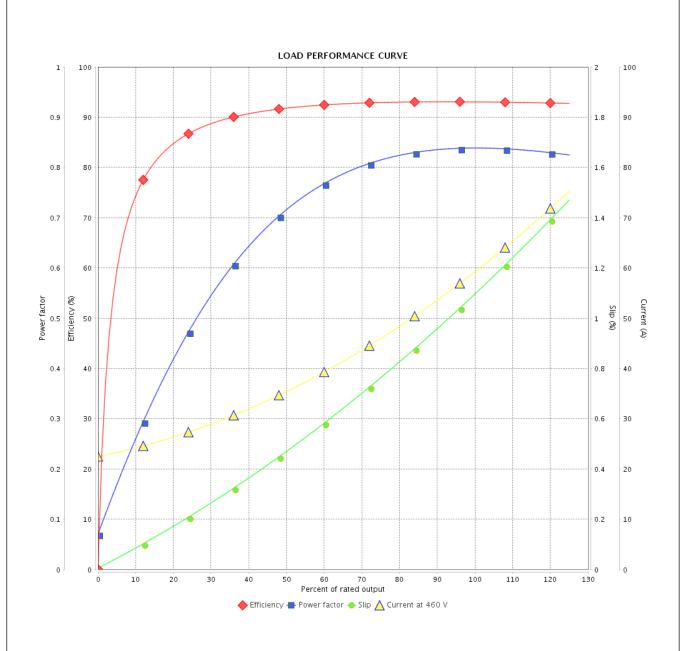
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490300

Catalog #: 05036OT3G324JP-W40

6/21



Performance	: 460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 59.4 A : 6.3 : 73.8 ft.lb : 200 % : 220 % : 3560 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



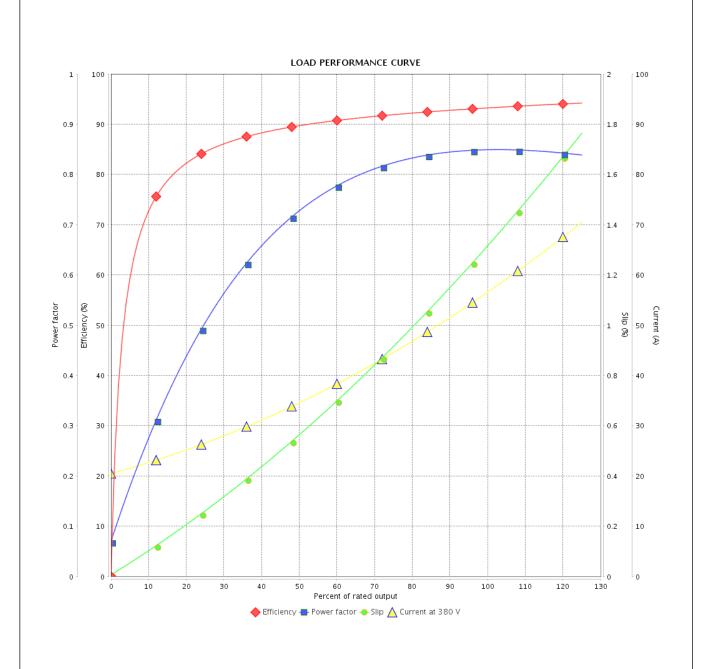
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490300

Catalog #: 05036OT3G324JP-W40



Performance	:	380 V 50 Hz 2P IE3				
Rated current	:	57.5 A	Moment o	f inertia (J)	: 3.02 sq.ft.lb	
LRC	:	6.4	Duty cycle	;	: Cont.(S1)	
Rated torque	:	71.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :	200 %	Service fa	ctor	: 1.00	
Breakdown torque	:	220 %	Temperati	Temperature rise		
Rated speed	:	960 rpm Design		: B		
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				7 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

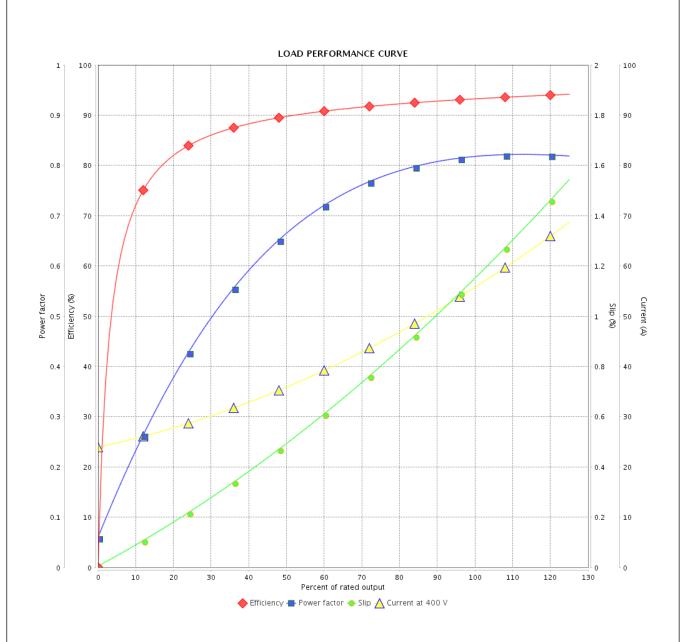
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490300

Catalog #: 05036OT3G324JP-W40

8 / 21



Performance : 400 V 50 Hz 2P IE3 Rated current : 56.6 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 70.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



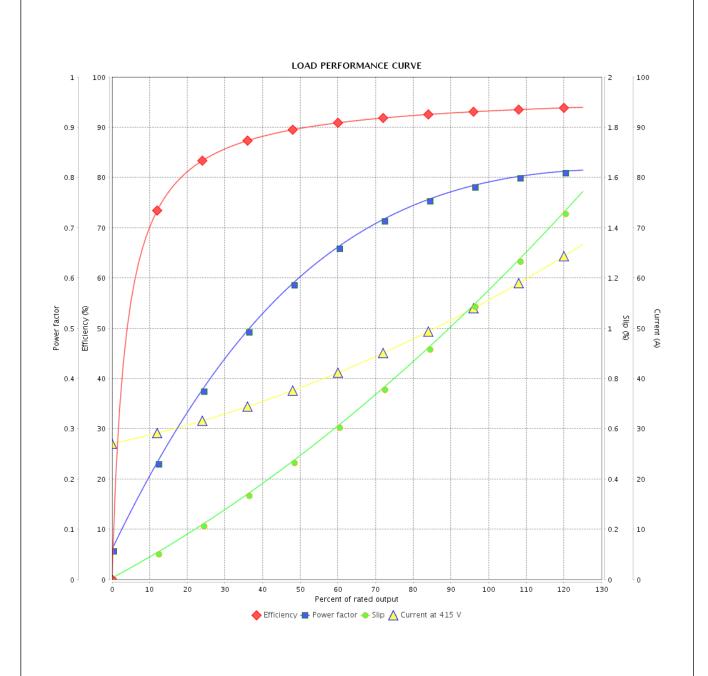
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490300

Catalog #: 05036OT3G324JP-W40



Performance	: 415 V 50 Hz 2P IE3					
Rated current	: 50	6.6 A	Moment o	Moment of inertia (J)		
LRC	: 6	8	Duty cycle	•	: Cont.(S1)	
Rated torque	: 70	0.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 24	40 %	Service fa	ctor	: 1.00	
Breakdown torque		60 %	Temperati	Temperature rise		
Rated speed	: 29	965 rpm	rpm Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				9 / 21	

Three Phase Induction Motor - Squirrel Cage

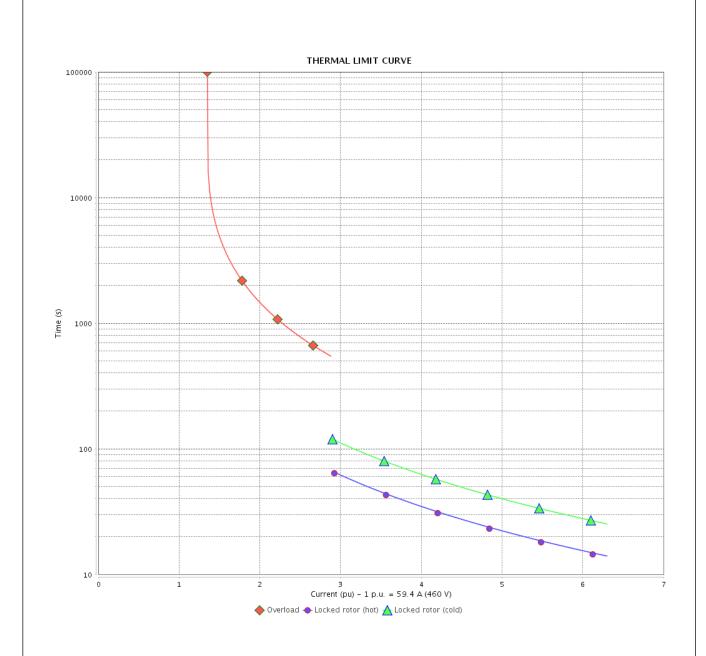


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Product line	: \ E:	W40 JP Pump NEMA Prem fficiency Three-Phase		⊃roduct code :	14490300	
			(Catalog # :	05036OT3G3	24JP-W40
Performance	: 46	60 V 60 Hz 2P				
Rated current	: 59	9.4 A	Moment of	f inertia (J)	: 3.02 sq.ft.lb	
LRC	: 6.		Duty cycle Insulation		: Cont.(S1) : F	
Rated torque Locked rotor torq		3.8 π.ID 00 %	Service fa		: F : 1.25	
Breakdown torqu	e : 22	20 %	Temperatu		: 80 K	
Rated speed		560 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summers	T	Performed	Chaakad	Doto
Rev.		Changes Summary		renomea	Checked	Date
Performed by						
Checked by					Page	Revision
D-/	40/04/0000	-			10 / 04	

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

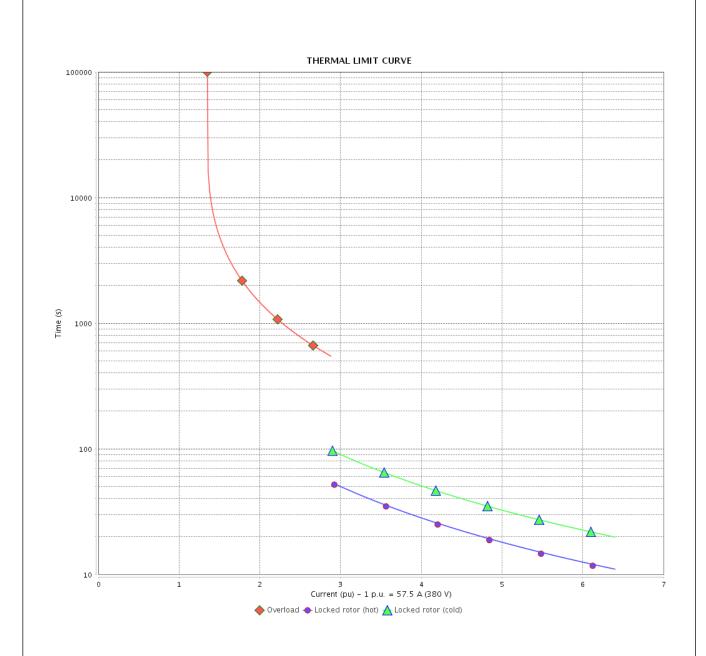


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14490300 05036OT3G3	24JP-W40
Performance		380 V 50 Hz 2P IE3				
Rated current LRC Rated torque	:	57.5 A 6.4 71.0 ft.lb	Duty cycle Insulation	class	: 3.02 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	ue :	200 % 220 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed	•	2960 rpm	Design		: B	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Performed by Checked by		_			Page	Revision
Date Date	12/04/2022				12 / 21	1.00101011

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

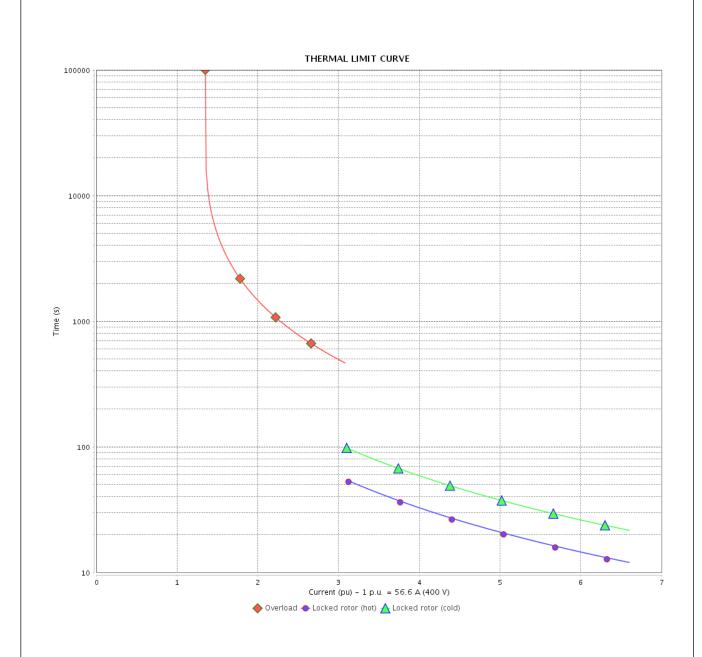


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14490300 05036OT3G3	24JP-W40
Performance		400 V 50 Hz 2P IE3	N4	f:t: (I)	. 2 22 # 11-	
Rated current LRC	:	56.6 A 6.6	Duty cycle		: 3.02 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		70.8 ft.lb 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		240 %	Temperati		: 80 K	
Rated speed		2965 rpm	Design		: B	
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Cooling constan	Ţ	Changes Commercial		Dorform	Chaslis	Data
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				14 / 21	

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

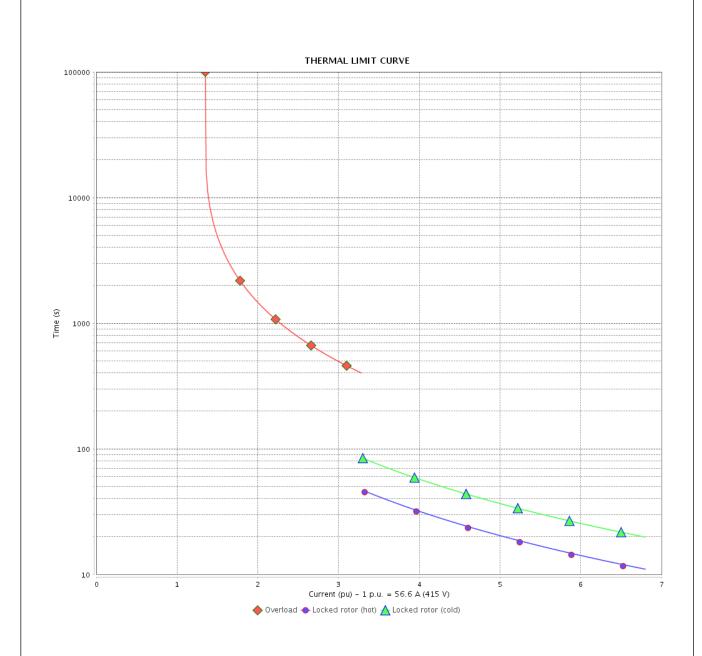


Customer	:				_	
Product line	: \ Ei	N40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14490300 05036OT3G3	24JP-W40
Performance Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	: 56 : 6. : 70 : 24 : 26	15 V 50 Hz 2P IE3 6.6 A 8 0.8 ft.lb 40 % 60 % 965 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 3.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by	40/04/0003				Page	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



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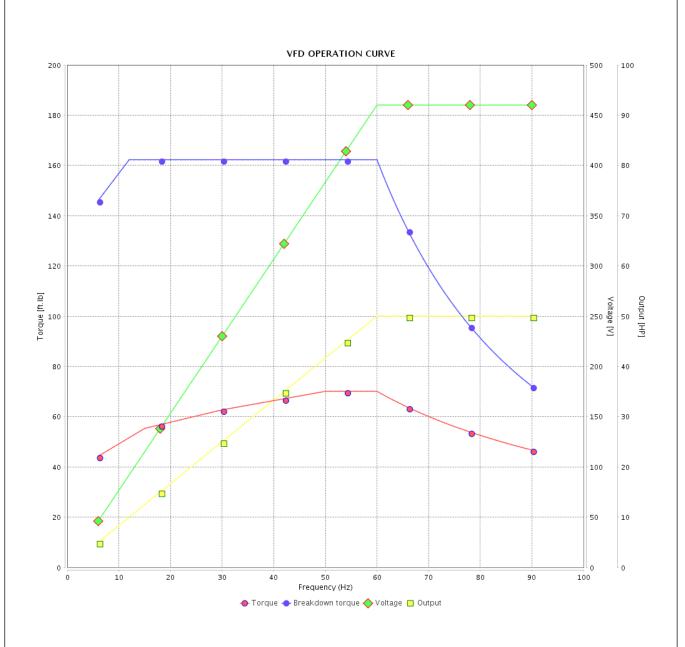
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490300

Catalog #: 05036OT3G324JP-W40

18/21



Performance	: 460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	/ Performed	Checked	Date
Performed by				
Checked by			Page	Revision

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



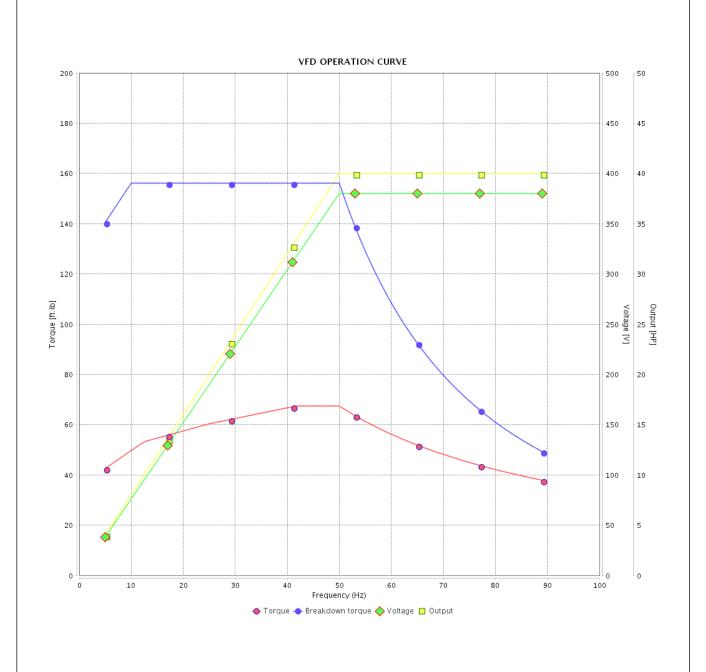
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Product line : W40 JP Pump NEMA Premium

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Performance	: 3	: 380 V 50 Hz 2P IE3				
Rated current	eurrent : 57.5 A		Moment o	Moment of inertia (J)		
LRC	: 6	4	Duty cycle)	: Cont.(S1)	
Rated torque	: 7	1.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 20	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	220 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 29	960 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022	1			19 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : W40 JP Pump NEMA Premium

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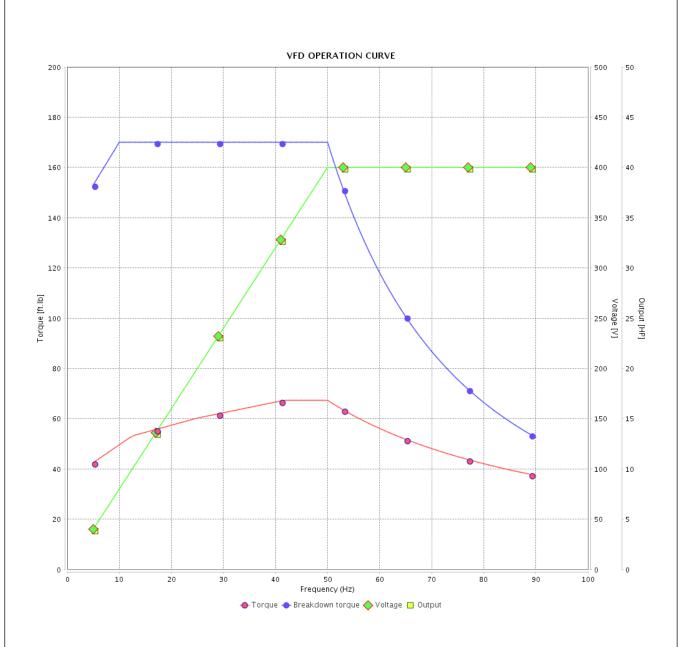
Product code: 14490300

Catalog #: 05036OT3G324JP-W40

Page

20 / 21

Revision



Performance		: 400 V 50 Hz 2	P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 56.6 A : 6.6 : 70.8 ft.lb : 229 % : 240 % : 2965 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Su	ummary		Performed	Checked	Date
Performed by							

Three Phase Induction Motor - Squirrel Cage



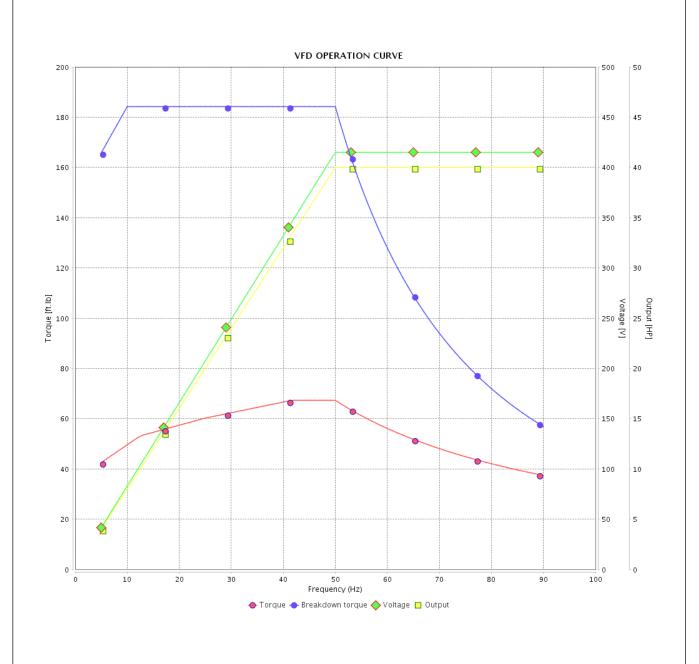
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490300

Catalog #: 05036OT3G324JP-W40



Performance	: 4	415 V 50 Hz 2P IE3				
Rated current	ated current : 56.6 A		Moment o	Moment of inertia (J)		
LRC	: (3.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	70.8 ft.lb	Insulation	class	:F	
Locked rotor torque	e : 2	240 %	Service factor		: 1.00	
Breakdown torque :		260 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	2965 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	12/04/2022	7			21 / 21	

