DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836587

10018OT3E404JPV-W40 Catalog #:

Frame : 404/5JP

Insulation class

Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Altitude

Protection degree : IP23 Cooling method : IC01 - ODP

Mounting : W-6 Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line

Approx. weight³ : 930 lb Moment of inertia (J) : 21.9 sq.ft.lb

Design : B Output [HP] 100 75 75 75 Poles 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 230/115 97.5 103 96.2 L. R. Amperes [A] 1564/782 742 683 750 7.2x(Code H) 7.0x(Code H) 7.8x(Code J) LRC [A] 6.8x(Code G) No load current [A] 79.4/39.7 33.0 36.5 40.0 Rated speed [RPM] 1780 1482 1484 1485 Slip [%] 1.11 1.20 1.07 1.00 Rated torque [ft.lb] 295 266 265 265 Locked rotor torque [%] 200 220 240 270 Breakdown torque [%] 250 250 280 300 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 21s (cold) 12s (hot) 23s (cold) 13s (hot) 21s (cold) 12s (hot) 25s (cold) 14s (hot) Noise level² 69.0 dB(A) 25% 94.9 90.2 90.3 90.3 50% 95.0 91.9 92.0 92.0 Efficiency (%) 75% 92.9 92.9 92.9 95.4 94.7 94.7 94.7 100% 95.4 0.49 0.47 25% 0.50 0.44 50% 0.75 0.72 0.70 0.73 Power Factor 75% 0.82 0.83 0.80 0.80 100% 0.86 0.86 0.86 0.84

> Drive end Non drive end

6212 Z C3

6314 C3 Without Without

Bearing Seal Bearing Seal

20000 h Lubrication interval 19579 h 13 g Lubricant amount Mobil Polyrex EM Lubricant type

Foundation loads

Max. traction : 1921 lb Max. compression : 2851 lb

Notes

Bearing type

Sealing

USABLE @208V 254A SF 1.15 SFA 292A

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



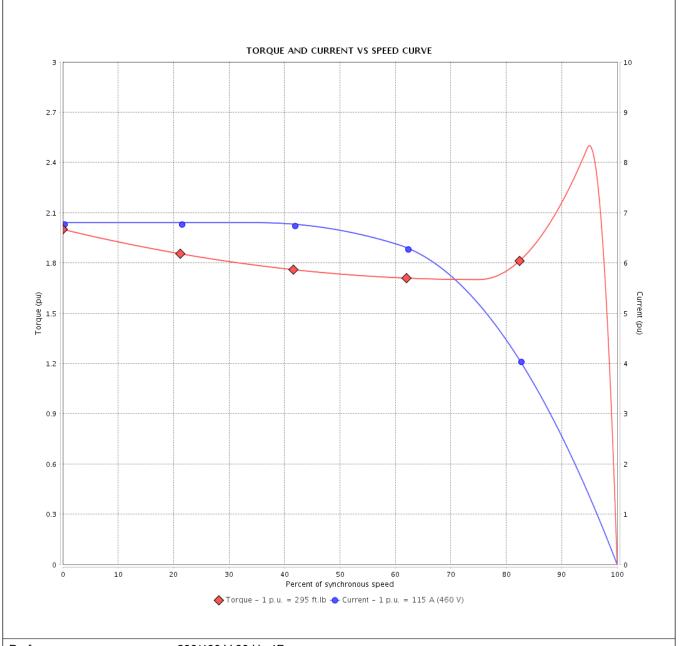
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836587

Catalog #: 10018OT3E404JPV-W40



Performance : 230/460 V 60 Hz 4P Rated current : 230/115 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 295 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K

Rated speed : 1780 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2 / 21	

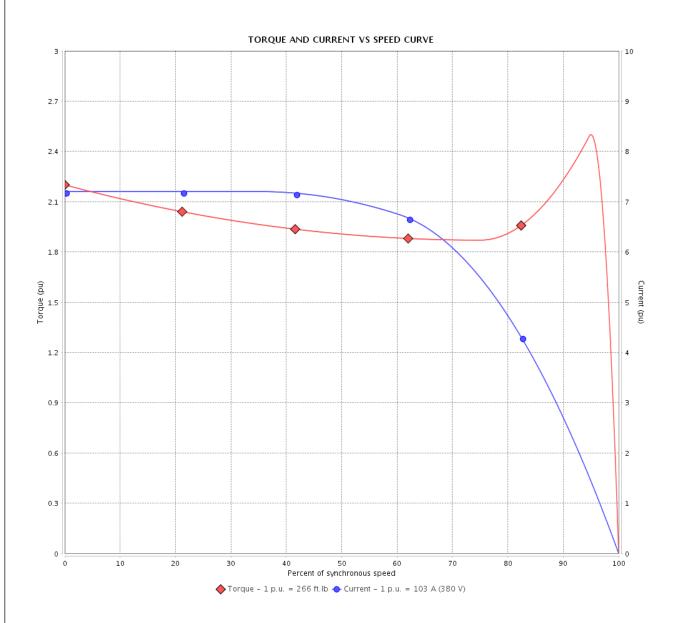
Efficiency Three-Phase

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14836587

> Catalog #: 10018OT3E404JPV-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 103 A	Moment of inertia (J)	: 21.9 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 266 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 1482 rpm	Design	: B	
Locked rotor time	: 23s (cold) 13s (hot)			

		• • •			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			3 / 21	

Three Phase Induction Motor - Squirrel Cage



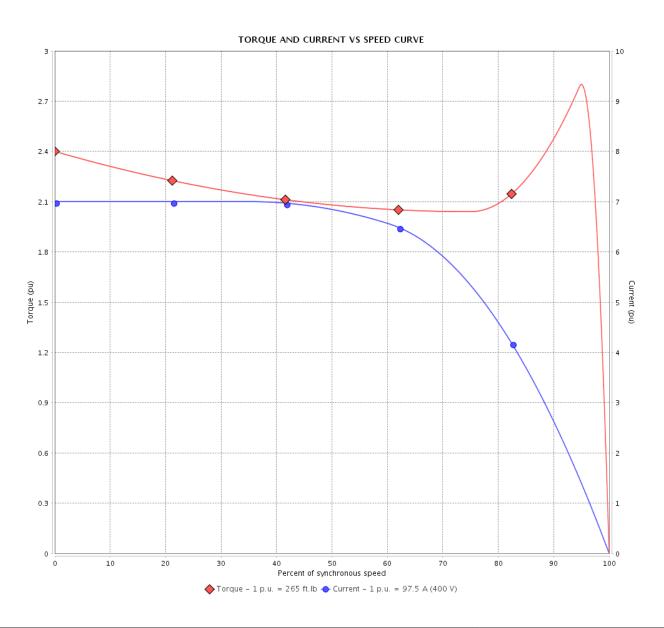
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836587

Catalog #: 10018OT3E404JPV-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 97.5 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 265 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B

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

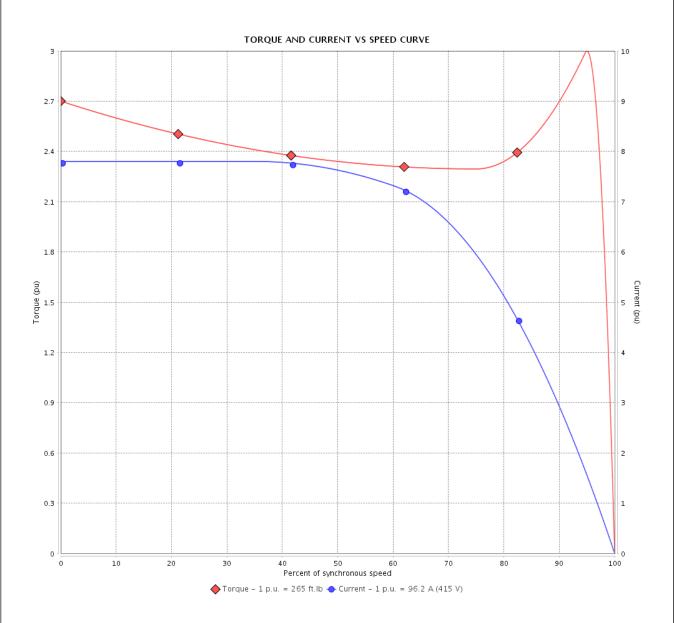
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14836587 Efficiency Three-Phase

Catalog #: 10018OT3E404JPV-W40



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 96.2 A	Moment of inertia (J)	: 21.9 sq.ft.lb	
LRC	: 7.8	Duty cycle	: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1485 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)			

LOCKEU TOLOT LITT	. 2	33 (Cold) 143 (110t)			
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

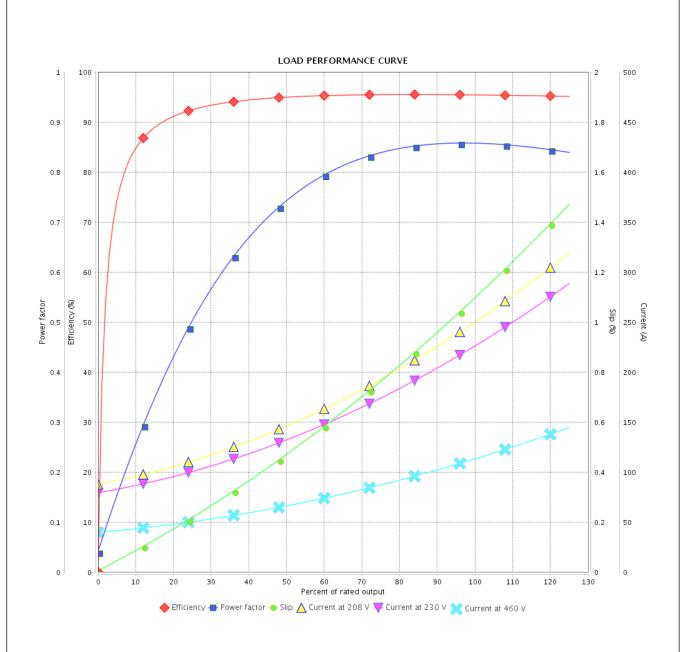
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836587

Catalog #: 10018OT3E404JPV-W40

6/21



Performance : 230/460 V 60 Hz 4P Rated current : 230/115 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 : 295 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



Customer

Date

14/04/2022

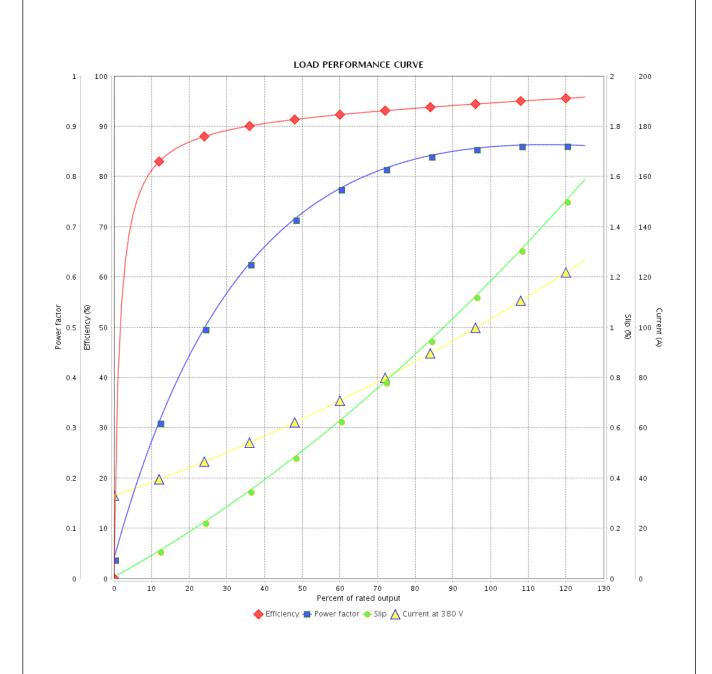
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836587

Catalog #: 10018OT3E404JPV-W40

7/21



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC	: 103 A : 7.2	Duty cycle		: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 220 %	: 266 ft.lb Insulation class : 220 % Service factor : 250 % Temperature rise : 1482 rpm Design		: F : 1.00	
Breakdown torque Rated speed				: 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

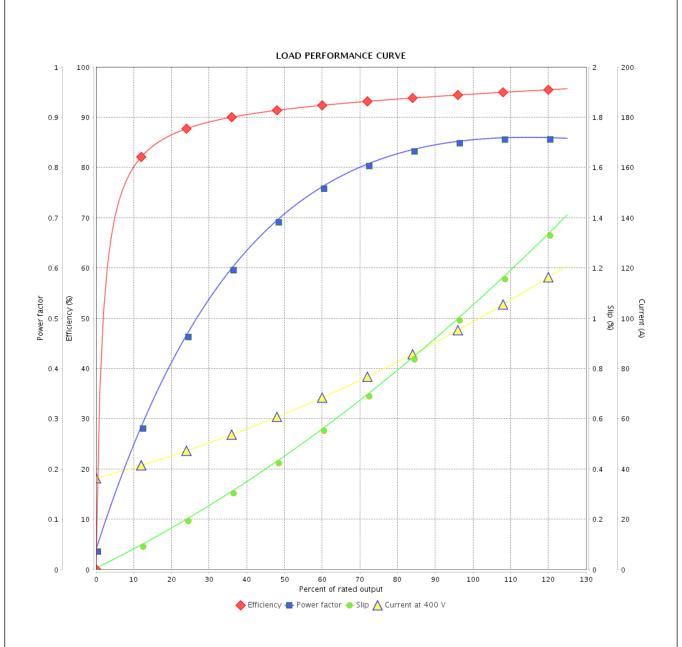
Product code: 14836587

Catalog #: 10018OT3E404JPV-W40

Page

8 / 21

Revision



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 2 que : 2 ue : 2	7.5 A .0 65 ft.lb 40 % 80 % 484 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage



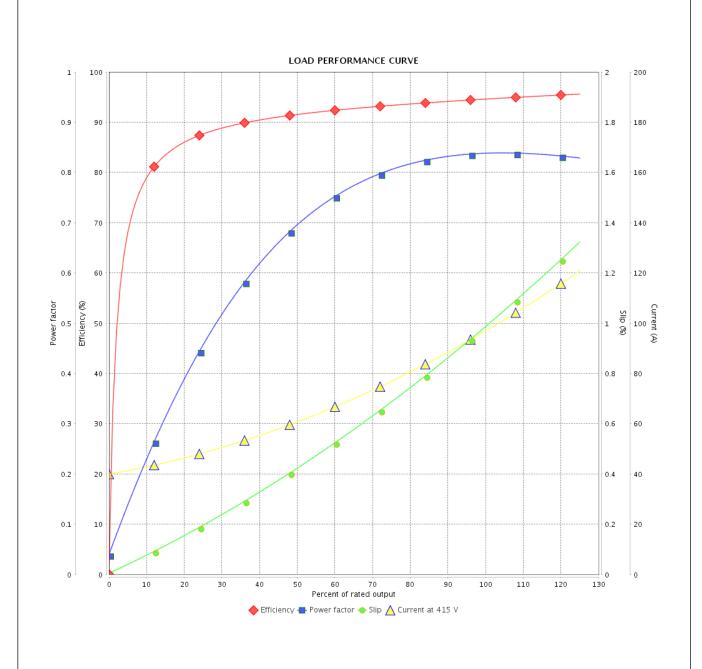
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836587

Catalog #: 10018OT3E404JPV-W40



Performance		: 415 V 50 Hz 4P IE3					
Rated current	: 9	96.2 A	Moment o	f inertia (J)	: 21.9 sq.ft.lb		
LRC	: 7	7.8	Duty cycle)	: Cont.(S1)		
Rated torque	: 2	265 ft.lb	Insulation	class	: F ` ´		
Locked rotor torqu	ue : 2	270 %	Service fa	ctor	: 1.00		
Breakdown torque	e :3	300 %	Temperati	ıre rise	: 80 K		
Rated speed	: 1	485 rpm	Design		: B		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	14/04/2022	7			9 / 21		

Three Phase Induction Motor - Squirrel Cage

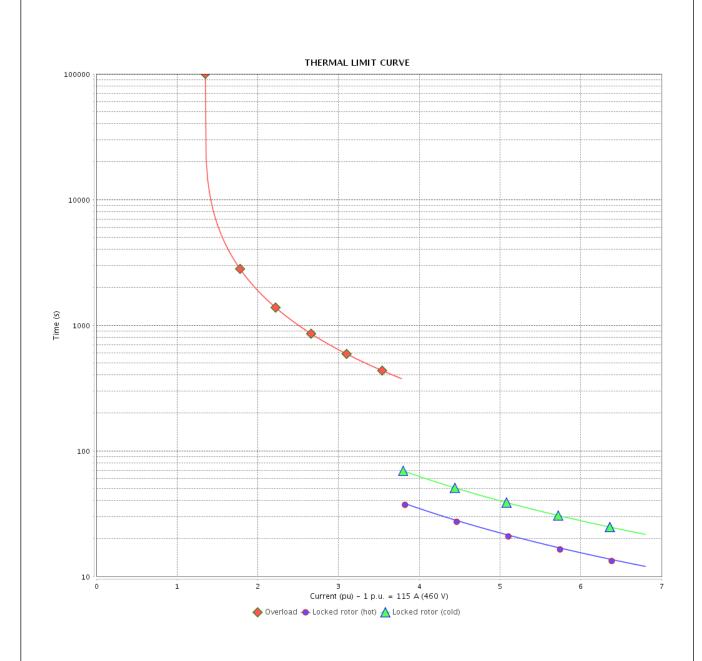


Customer	:					
Product line	: \ E	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code : Catalog # :	14836587 10018OT3E40)4JPV-W40
Performance		30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq	: 6. : 29	30/115 A .8 95 ft.lb 00 %	Moment of Duty cycle Insulation Service factors	class	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.25	
Breakdown torqu Rated speed	e : 2	50 % 780 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Data	14/04/2022			l l	10 / 21	

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

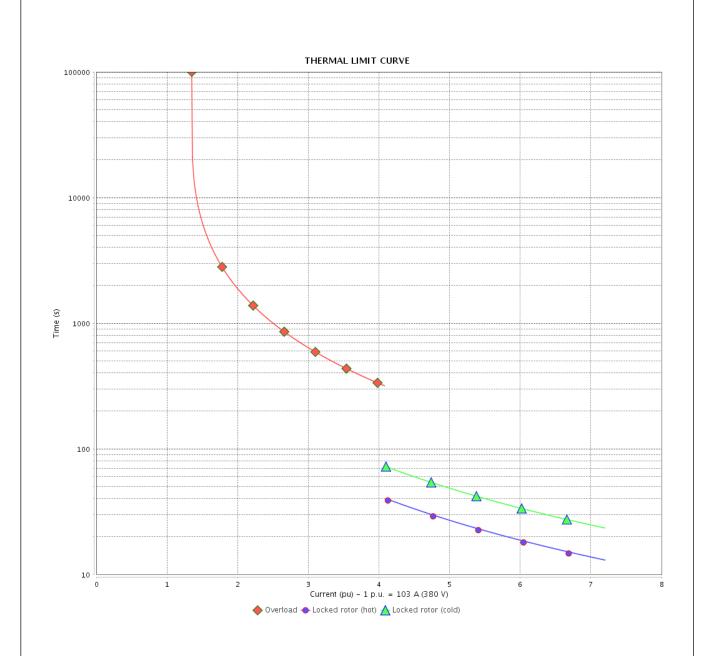


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code :	14836587 10018OT3E40	04JPV-W40
D. (000 // 50 // 4D //50				
Performance Rated current LRC	:	380 V 50 Hz 4P IE3 103 A 7.2	Moment o	f inertia (J)	: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord Breakdown torqu Rated speed	: que : ue :	266 ft.lb 220 % 250 % 1482 rpm	Insulation Service fa Temperatu Design	class ctor	: F : 1.00 : 80 K : B	
Heating constant						
Cooling constant	T .	Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision
Date	14/04/2022				12 / 21	

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

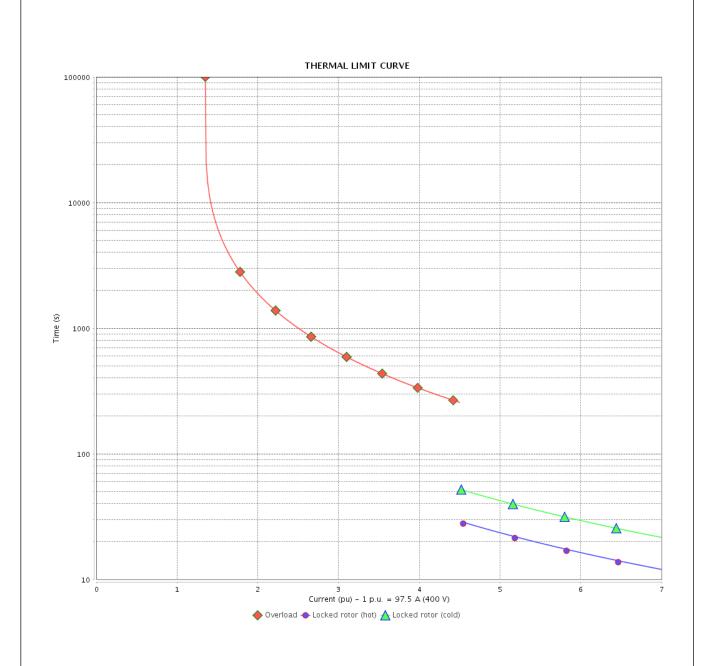


Customer	:			
Product line	: W40 JP Pump NEMA Prem Efficiency Three-Phase		14836587	
		Catalog # :	10018OT3E4	04JPV-W40
Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 97.5 A : 7.0 : 265 ft.lb : 240 % : 280 % : 1484 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant				
Cooling constant	Changes Summany	Darfarmad	Chackad	Doto
Rev.	Changes Summary	Performed	Checked	Date
Performed by Checked by			Page	Revision
Date 14/0	4/2022		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

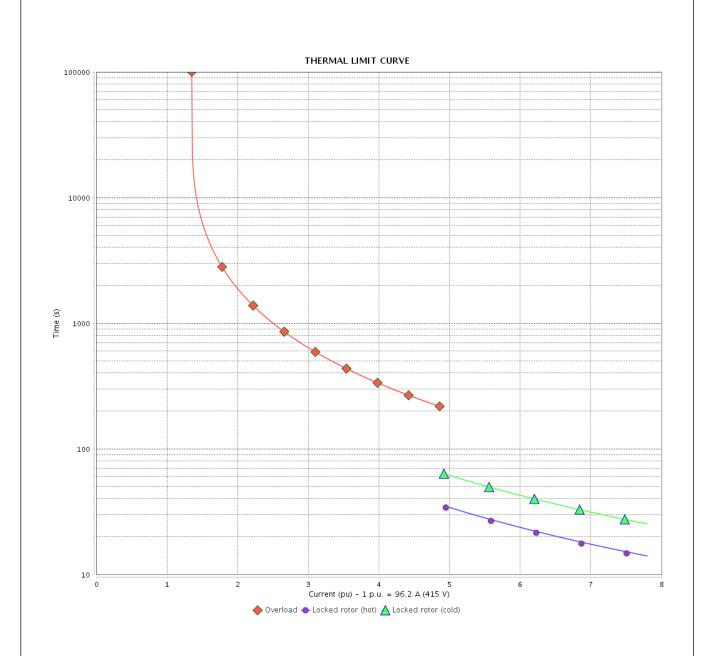


Customer	:				,	
Product line	: \ E1	N40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14836587 10018OT3E40	04JPV-W40
Performance	: 41	15 V 50 Hz 4P IE3				
Rated current LRC	: 7.		Moment of Duty cycle		: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque		65 ft.lb 70 %	Insulation Service fac	class	: F : 1.00	
Breakdown torqu	e : 30	00 %	Temperatu		: 80 K	
Rated speed		185 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by						<u> </u>
Checked by					Page	Revision

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 :

Date

14/04/2022

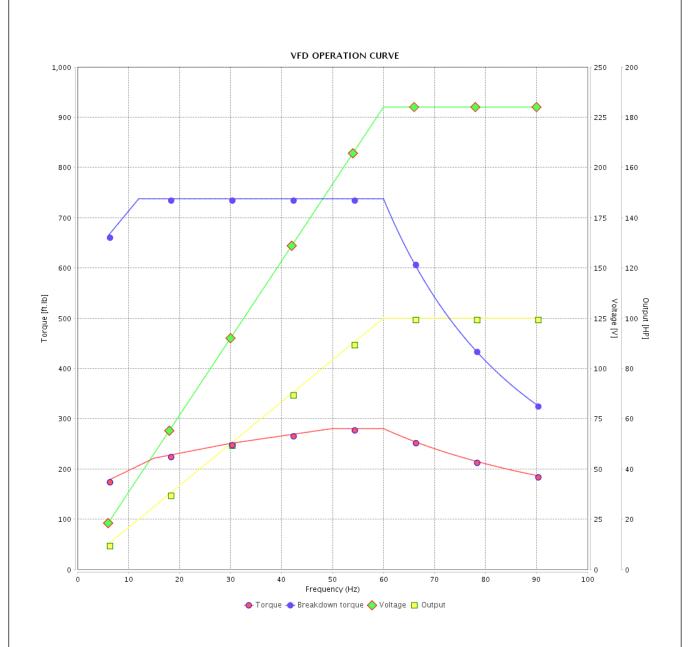
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836587

Catalog #: 10018OT3E404JPV-W40

18/21



Performance : 230/460 V 60 Hz 4P : 230/115 A Rated current Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 295 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

14/04/2022

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

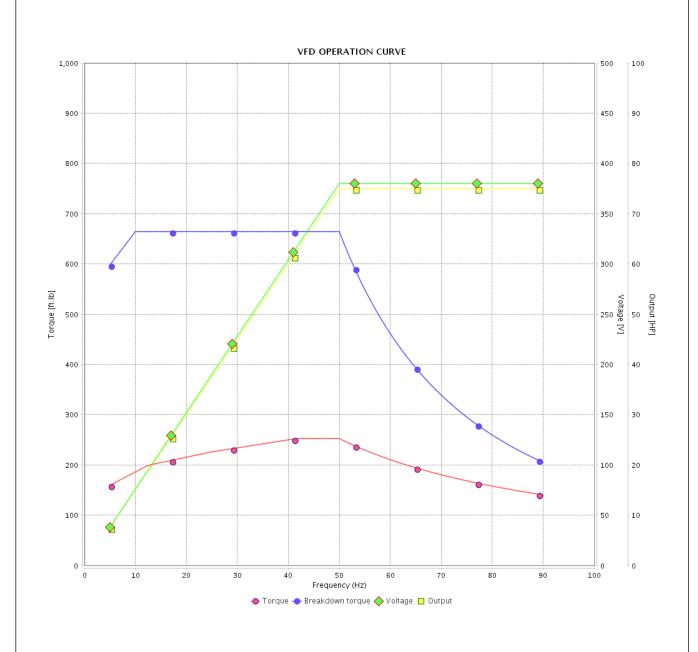
Product code: 14836587

Catalog #: 10018OT3E404JPV-W40

Page

19/21

Revision



Performance	: 380 V 50 Hz 4P IE3	: 380 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 103 A : 7.2 : 266 ft.lb : 220 % : 250 % : 1482 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B				
Rev. Changes Summary			Performed	Checked	Date			
Performed by								

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

14/04/2022

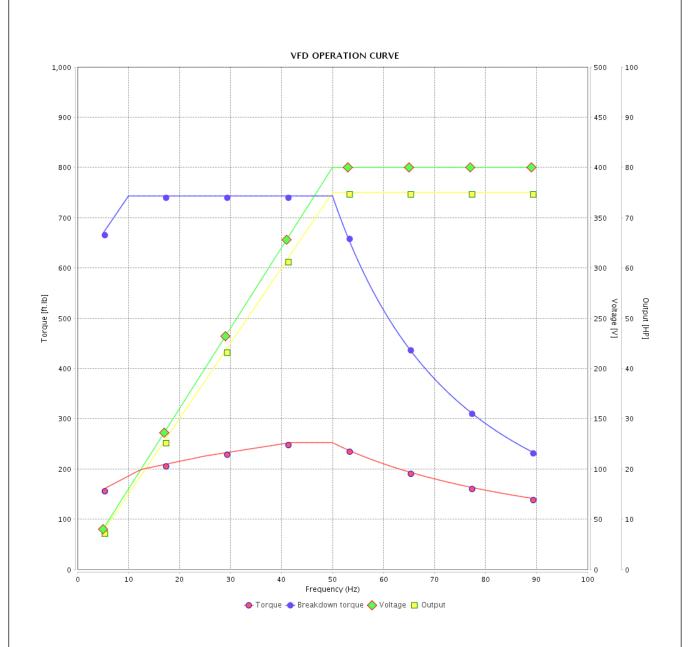
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836587

Catalog #: 10018OT3E404JPV-W40

20 / 21



Performance : 400 V 50 Hz 4P IE3 Rated current : 97.5 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 265 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



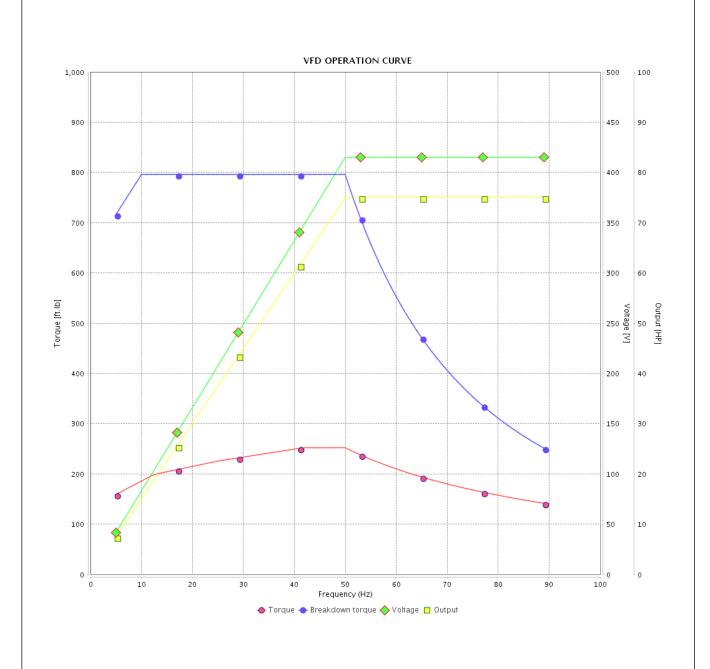
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836587

10018OT3E404JPV-W40 Catalog #:



Performance	: 4	: 415 V 50 Hz 4P IE3						
Rated current :		96.2 A	Moment o	Moment of inertia (J)				
LRC : 7		7.8	Duty cycle	Duty cycle				
Rated torque		265 ft.lb	Insulation class		: F			
Locked rotor torque		270 %	Service fa	Service factor				
Breakdown torqu	ue : 3	Temperature rise Design		ure rise	: 80 K			
Rated speed	: 1			: B				
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date 14/04/2022				21 / 21				

