DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837446

Catalog #: 04036OT3E286JMV-W40

Frame : 284/6JM

Insulation class

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

Altitude : IP23 Protection degree Design : B

Cooling method : IC01 - ODP Mounting : W-6

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line

Approx. weight³ : 362 lb

Moment of inertia (J) : 2.02 sq.ft.lb

Output [HP]		40	30	30	30
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		93.6/46.8	41.9	40.7	40.2
L. R. Amperes [A]		608/304	302	309	310
LRC [A]		6.5x(Code G)	7.2x(Code H)	7.6x(Code J)	7.7x(Code J)
No load current [A]	29.8/14.9	14.3	15.8	17.0
Rated speed [RPN	<i>/</i> I]	3545	2950	2960	2960
Slip [%]		1.53	1.67	1.33	1.33
Rated torque [ft.lb]]	59.3	53.4	53.2	53.2
Locked rotor torqu	e [%]	190	210	229	250
Breakdown torque	[%]	260	280	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		14s (cold) 8s (hot)	250s (cold) 139s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)
Noise level ²		73.0 dB(A)			
	25%	91.5	88.6	88.7	88.9
Efficiency (%)	50%	91.7	90.0	90.1	90.2
Elliciency (70)	75%	92.4	91.4	91.4	91.5
	100%	92.4	92.8	92.8	92.8
	25%	0.51	0.49	0.45	0.41
Power Factor	50%	0.76	0.73	0.70	0.65
I OWEI FACIOI	75%	0.84	0.82	0.79	0.76
	100%	0.87	0.86	0.84	0.82

Non drive end **Drive end** 6311 Z C3 6211 Z C3

Bearing type Without Without

Bearing Seal Bearing Seal

14226 h Lubrication interval 11517 h Lubricant amount 11 g Mobil Polyrex EM Lubricant type

Foundation loads Max. traction Max. compression

Notes

Sealing

USABLE @208V 104A SF 1.15 SFA 119A

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

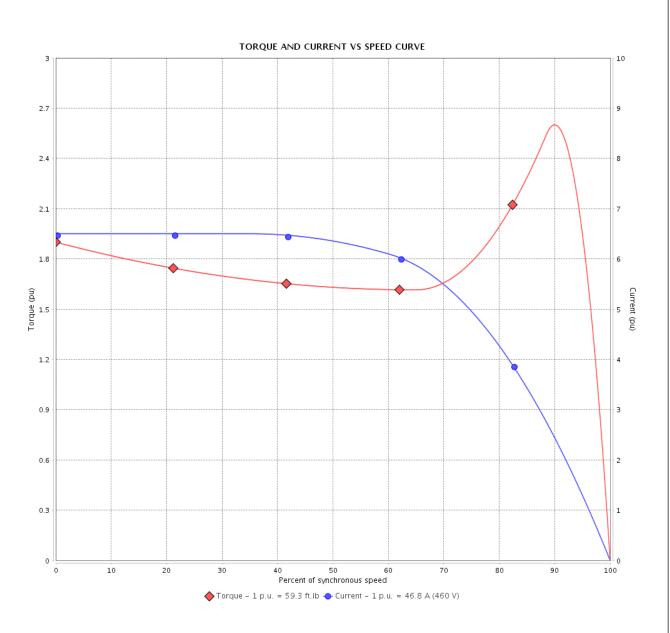


Customer :

Product line : W40 JM Pump NEMA Premium Product code : 14837446

Efficiency Three-Phase

Catalog #: 04036OT3E286JMV-W40



Performance : 230/460 V 60 Hz 2P Rated current : 93.6/46.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B

Locked rotor time : 14s (cold) 8s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022	1		2 / 21	

Three Phase Induction Motor - Squirrel Cage



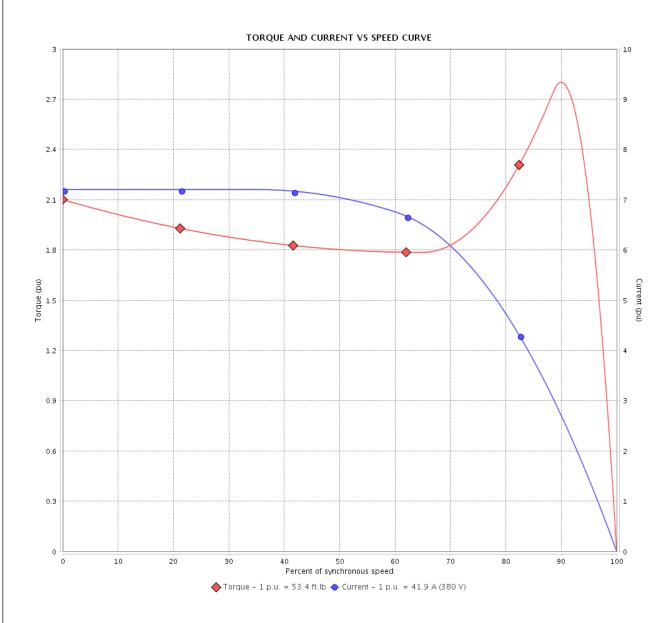
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837446

Catalog #: 04036OT3E286JMV-W40



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 41.9 A	Moment of inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 53.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2950 rpm	Design	: B	
Locked rotor time	: 250s (cold) 139s (hot)			

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

Three Phase Induction Motor - Squirrel Cage



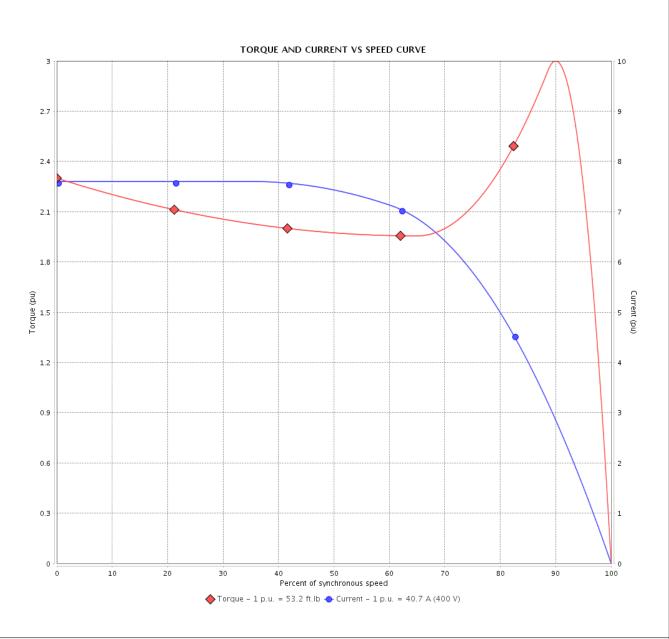
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837446

Catalog #: 04036OT3E286JMV-W40



Performance	: 400 V 50 Hz 2P IE3		
Rated current LRC	: 40.7 A : 7.6	Moment of inertia (J) Duty cycle	: 2.02 sq.ft.lb : Cont.(S1)
Rated torque	: 53.2 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B
Looked reter time	: 14a (aald) 9a (bat)	1	

Locked rotor time : 14s (cold) 8s (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

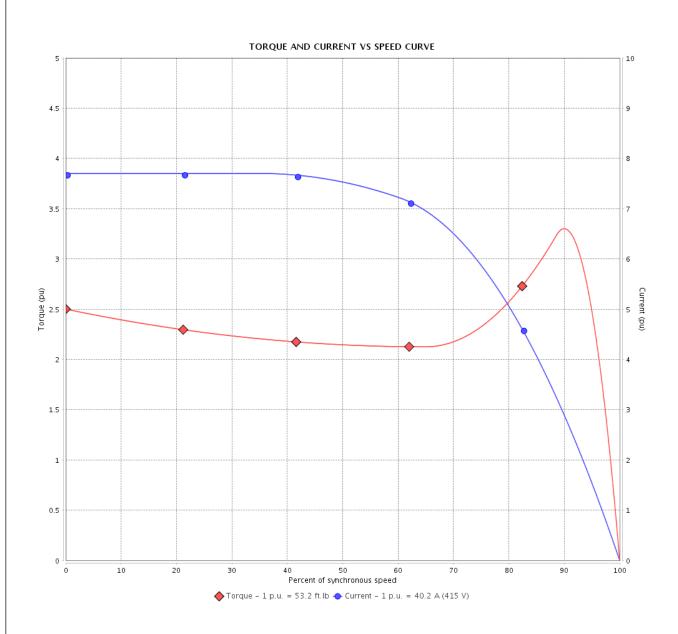


Customer

Product line : W40 JM Pump NEMA Premium Product code: 14837446

Efficiency Three-Phase

Catalog #: 04036OT3E286JMV-W40



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 40.2 A	Moment of inertia (J)	: 2.02 sq.ft.lb
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 53.2 ft.lb	Insulation class	:F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B
Locked rotor time	· 14s (cold) 8s (hot)		

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

Three Phase Induction Motor - Squirrel Cage



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Checked by

Date

12/04/2022

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

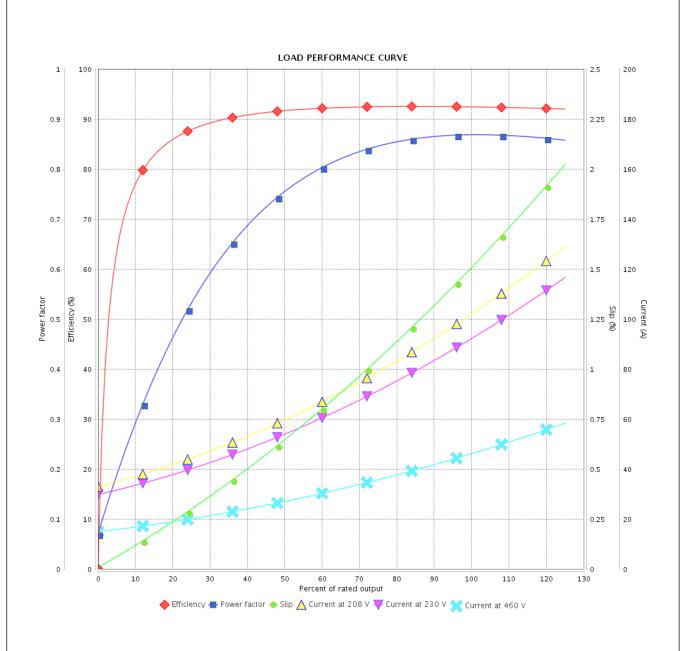
Product code: 14837446

Catalog #: 04036OT3E286JMV-W40

Page

6/21

Revision



Performance	:	: 230/460 V 60 Hz 2	P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue le	: 93.6/46.8 A : 6.5 : 59.3 ft.lb : 190 % : 260 % : 3545 rpm	Duty cy Insulat Service	on class factor rature rise	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summ	ary	Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage



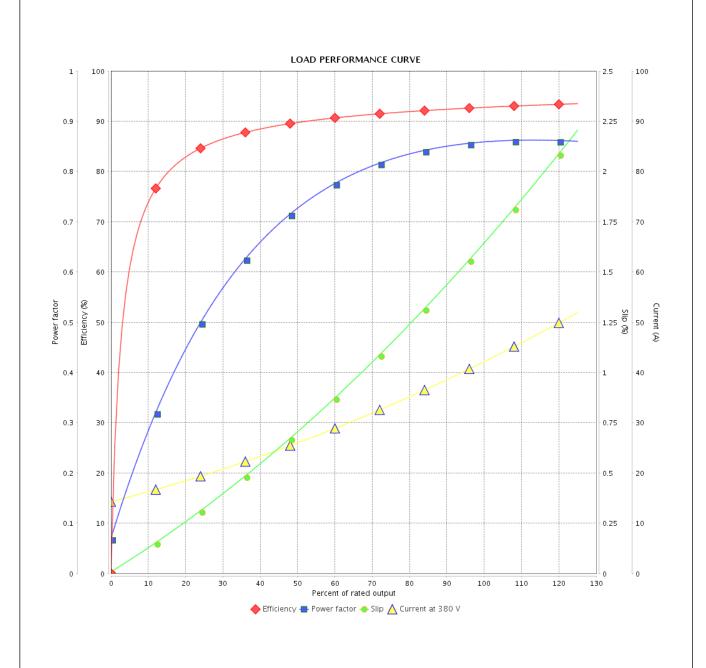
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837446

Catalog #: 04036OT3E286JMV-W40



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 4	1.9 A	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	3.4 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque		80 %	Temperati	Temperature rise		
Rated speed	: 2	950 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				7 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

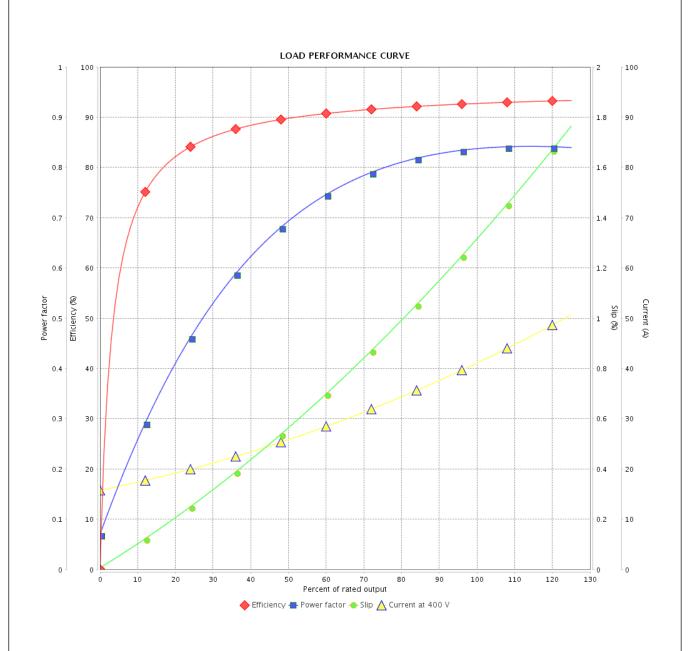
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837446

Catalog #: 04036OT3E286JMV-W40

8 / 21



Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.7 A : 7.6 : 53.2 ft.lb : 229 % : 300 % : 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 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



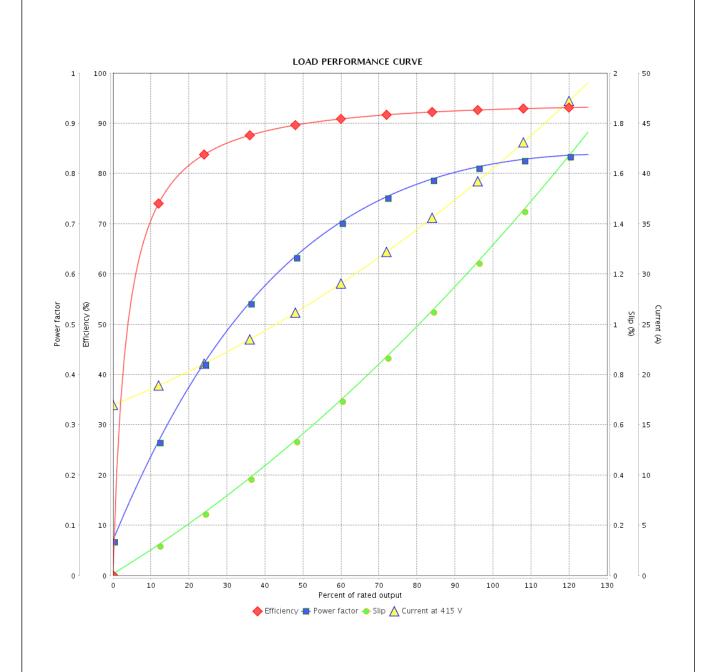
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837446

Catalog #: 04036OT3E286JMV-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 40).2 A	Moment of	Moment of inertia (J)		
LRC	: 7.	7	Duty cycle	•	: Cont.(S1)	
Rated torque	: 53	3.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 33	30 %	Temperat	ure 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				9 / 21	

Three Phase Induction Motor - Squirrel Cage

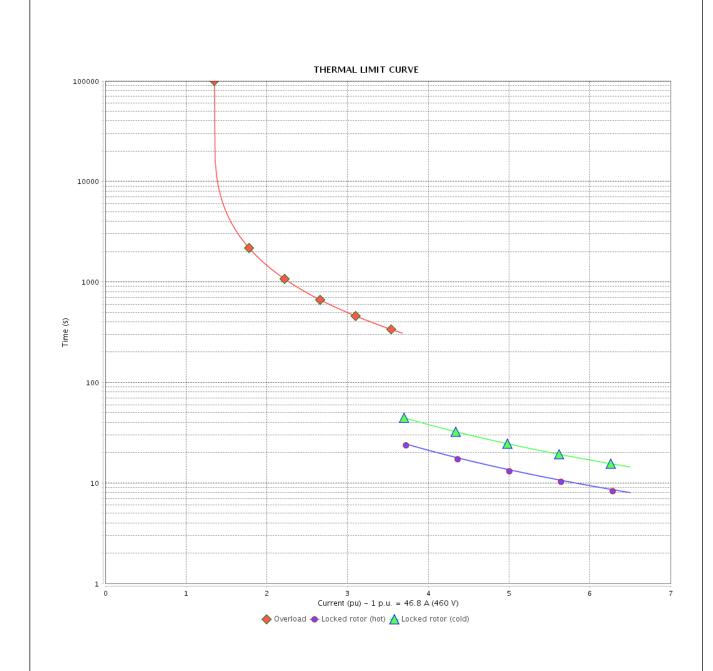


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Product line		: W40 JM Pump NEMA Prem Efficiency Three-Phase	ilulli	Product code .	14837446	
		•	1	Catalog # :	04036OT3E2	86JMV-W40
Performance	::	230/460 V 60 Hz 2P				
Rated current LRC		93.6/46.8 A 6.5	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
Rated torque		59.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	que :	190 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed	ie ::	260 % 3545 rpm	Temperatu	ıre rise	: 80 K : B	
		ουτο τριτι	Design		. U	
Heating constant						
Cooling constant	<u> </u>	01 0	П		<u> </u>	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				10 / 21	

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

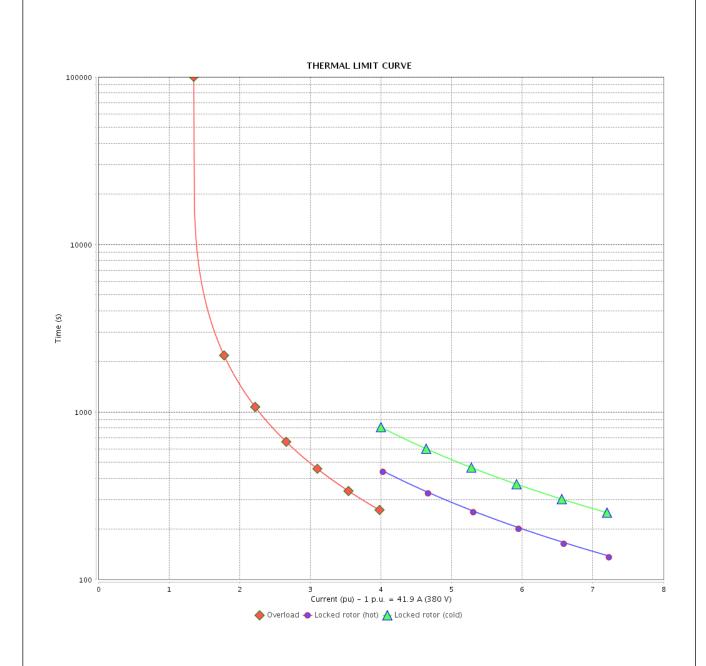


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Product line	: \ E:	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14837446	20 1111/111/10
				Catalog # :	04036OT3E28	36JMV-W40
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current	: 4	1.9 A	Moment of	f inertia (J)	: 2.02 sq.ft.lb	
LRC Rated torque	: 7. : 50	2 3.4 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu	ue : 2′	10 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		30 % 950 rpm	Temperatu Design	ire rise	: 80 K : B	
		Joo Ipili	Design			
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
					-	
Performed by						
Checked by					Page	Revision
D-4	40/04/0000	I			40 / 04	

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

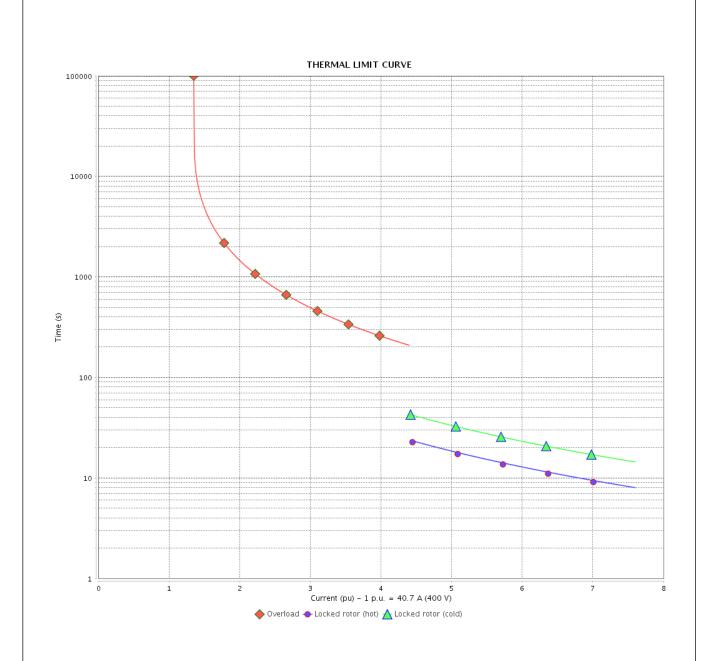


Customer	:					
Product line	: \ E:	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14837446 04036OT3E2	86JMV-W40
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40 : 7. : 53 ue : 22 e : 30 : 29	00 V 50 Hz 2P IE3 0.7 A 6 3.2 ft.lb 29 % 00 % 960 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 2.02 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	40/04/2222				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			15 / 21	

Three Phase Induction Motor - Squirrel Cage

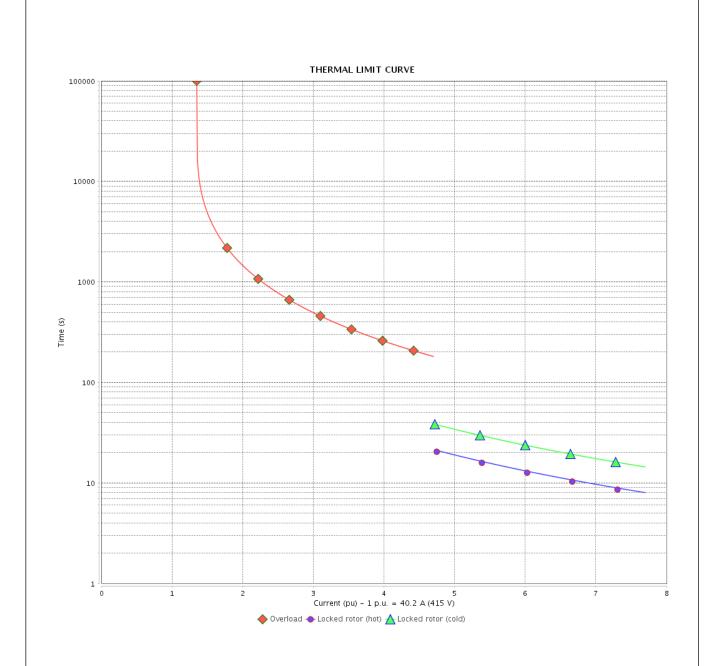


Customer		:				
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase		Product code : Catalog # :	14837446 04036OT3E2	86JMV-W40
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 40.2 A : 7.7	Moment of Duty cycle	of inertia (J)	: 2.02 sq.ft.lb : Cont.(S1)	
Rated torque	:	: 53.2 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 250 % : 330 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 2960 rpm	Design		: B	
Heating constan						
Cooling constan	t	Changes Cummer:		Dorform	Chaakad	Doto
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				16 / 21	

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



Customer :

Date

12/04/2022

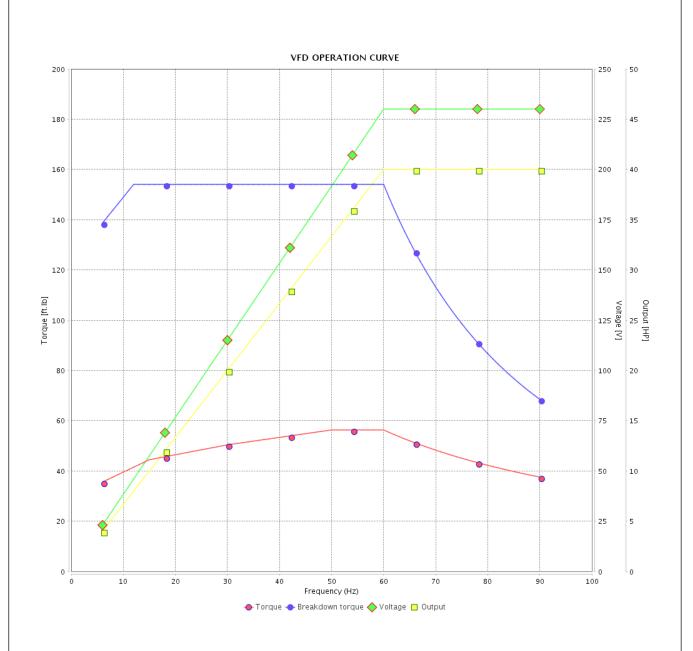
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837446

Catalog #: 04036OT3E286JMV-W40

18 / 21



Performance : 230/460 V 60 Hz 2P Rated current : 93.6/46.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class : 59.3 ft.lb : F Rated torque Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



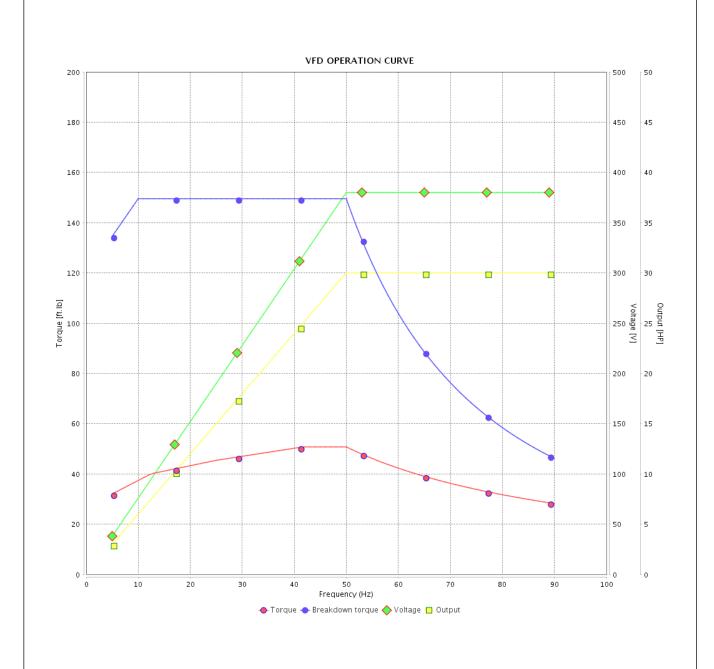
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837446

Catalog #: 04036OT3E286JMV-W40



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 4	1.9 A	Moment o	f inertia (J)	nertia (J) : 2.02 sq.ft.lb	
LRC	: 7	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	3.4 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 2	80 %	Temperati	ure rise	: 80 K	
Rated speed	: 2	950 rpm	Design		: B	
Rev.		Changes Summary	У	Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	12/04/2022	1			19 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

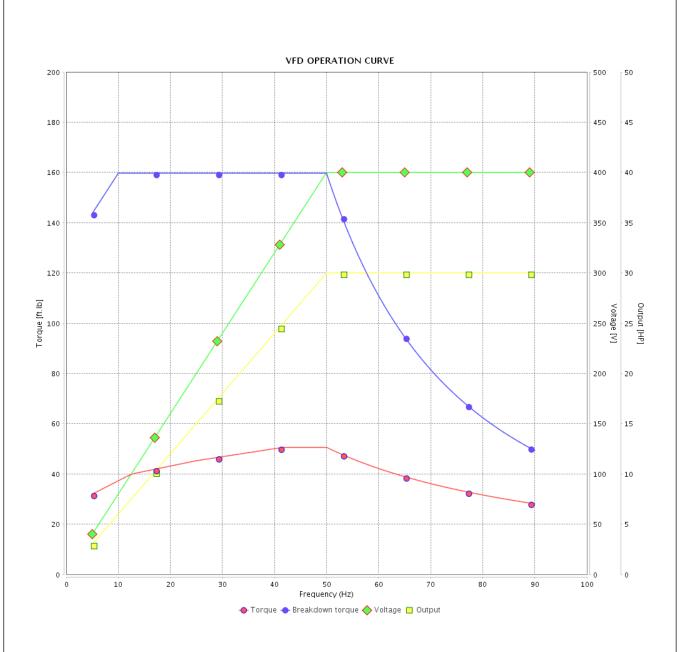
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837446

Catalog #: 04036OT3E286JMV-W40

20 / 21



Performance : 400 V 50 Hz 2P IE3 Rated current : 40.7 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class : 53.2 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



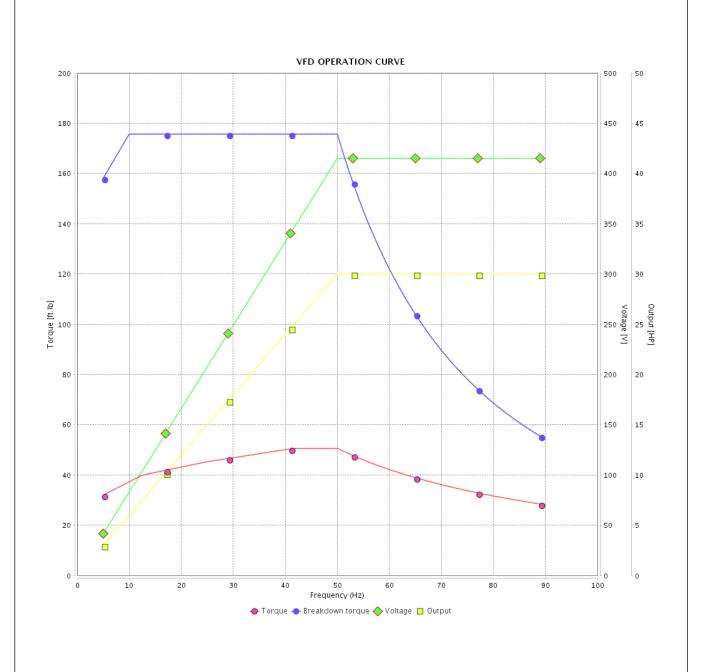
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837446

Catalog #: 04036OT3E286JMV-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 4	0.2 A	Moment of	f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	3.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	30 %	Temperati	ure rise	: 80 K	
Rated speed	: 2	960 rpm	Design		: B	
Rev.		Changes Summary	у	Performed	Checked	Date
		1				
Performed by						
Checked by					Page	Revision
Date	12/04/2022	1			21 / 21	

