DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486321

Catalog #: 02536OT3E256JP-W40

Frame : 254/6JP

Insulation class

Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C

: 1000 m.a.s.l. Altitude

Cooling method : IC01 - ODP

Mounting : F-1

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line Approx. weight³ : 245 lb

Protection degree				ertia (J) : 1.13	sq.ft.lb
Design		: B			
Output [HP]		25	20	20	20
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		57.6/28.8	28.2	27.4	27.0
L. R. Amperes [A]		374/187	192	186	200
LRC [A]		6.5x(Code G)	6.8x(Code H)	6.8x(Code H)	7.4x(Code J)
No load current [A]		17.0/8.50	8.20	9.10	10.0
Rated speed [RPM	1]	3535	2935	2945	2950
Slip [%]		1.81	2.17	1.83	1.67
Rated torque [ft.lb]		37.1	35.8	35.7	35.6
Locked rotor torque		200	200	220	229
Breakdown torque	[%]	280	260	300	320
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		19s (cold) 11s (hot)	14s (cold) 8s (hot)	18s (cold) 10s (hot)	14s (cold) 8s (hot)
Noise level ²					
	25%	90.8	87.6	87.9	87.9
Efficiency (%)	50%	91.0	89.5	89.6	89.6
Lindicitely (70)	75%	91.7	89.9	90.1	90.1
	100%	91.7	91.9	91.9	91.9
	25%	0.53	0.54	0.49	0.45
Power Factor 50%		0.77	0.77	0.73	0.69
1 OWEN LACTOR	75%	0.85	0.85	0.82	0.79
	100%	0.88	0.88	0.86	0.84

Drive end 6309 Z C3

Non drive end

6209 Z C3

Sealing Without Without

Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval Lubricant amount 9 g Lubricant type Mobil Polyrex EM

Foundation loads

Max. traction Max. compression

Notes

Bearing type

USABLE @208V 63.7A SF 1.15 SFA 73.2A

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



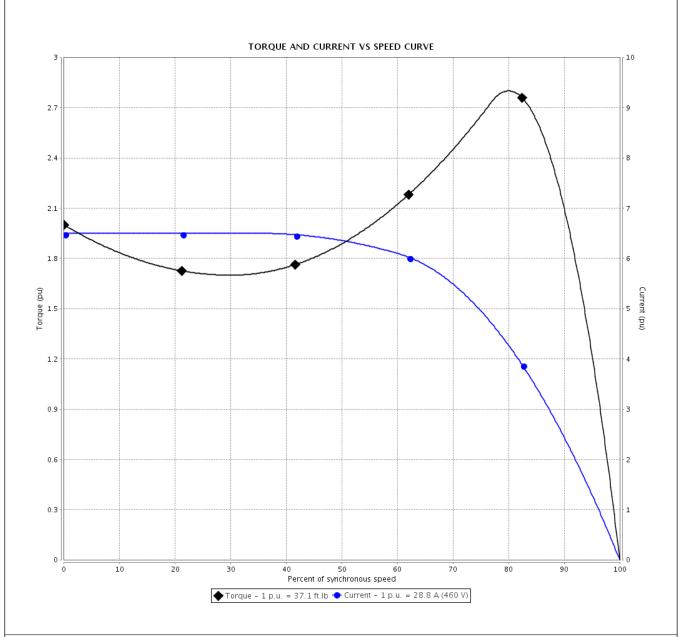
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486321

Catalog #: 02536OT3E256JP-W40



Performance : 230/460 V 60 Hz 2P Rated current : 57.6/28.8 A Moment of inertia (J) : 1.13 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 37.1 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

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



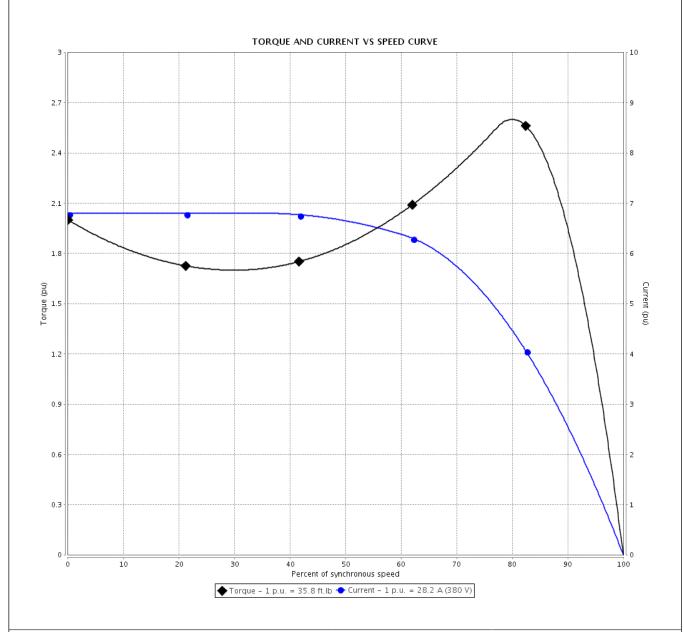
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486321

Catalog #: 02536OT3E256JP-W40



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 28.2 A	Moment of inertia (J)	: 1.13 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 35.8 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 2935 rpm	Design	: B	
Laskad rates times	. 140 (aald) 00 (bat)			

Locked rotor time	: 14s (cold) 8s (hot)
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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			3 / 21	

Three Phase Induction Motor - Squirrel Cage



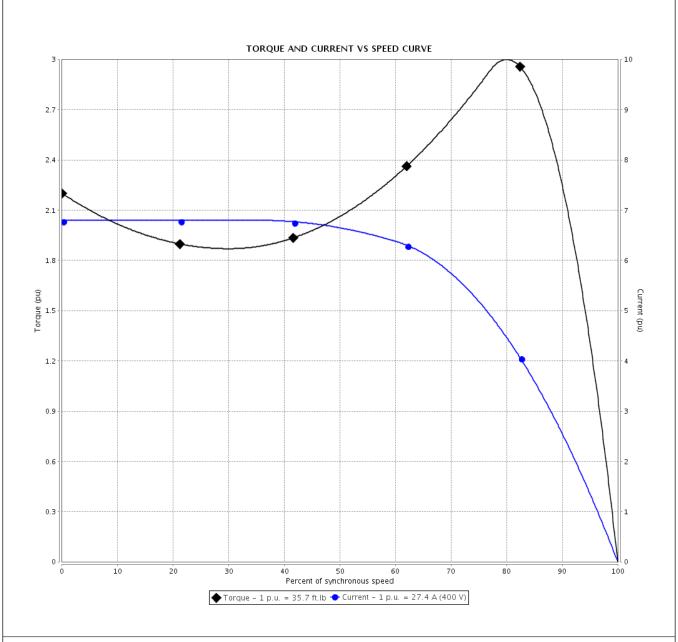
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486321

Catalog #: 02536OT3E256JP-W40



: 400 V 50 Hz 2P IE3 Performance Rated current : 27.4 A Moment of inertia (J) : 1.13 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 35.7 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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

Three Phase Induction Motor - Squirrel Cage

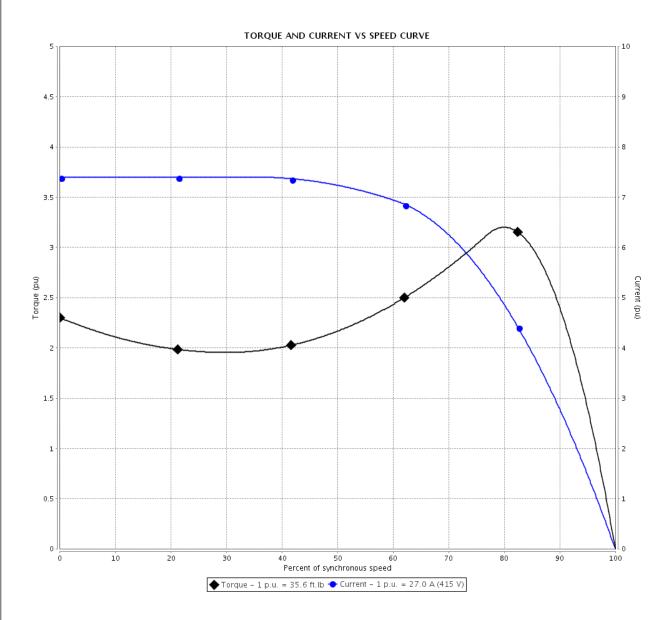


Customer :

Product line : W40 JP Pump NEMA Premium Product code : 14486321

Efficiency Three-Phase

Catalog #: 02536OT3E256JP-W40



Performance : 415 V 50 Hz 2P IE3 Rated current : 27.0 A Moment of inertia (J) : 1.13 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 35.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K : B Rated speed : 2950 rpm Design

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

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 :

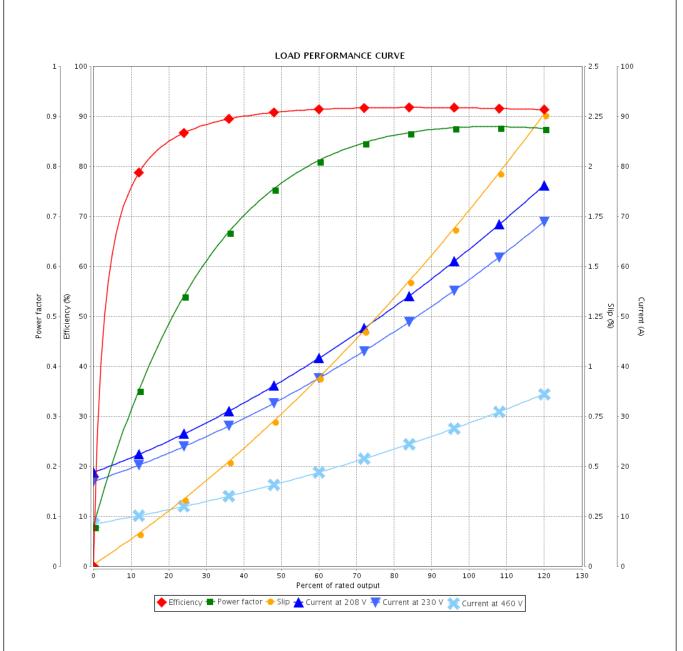
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486321

Catalog #: 02536OT3E256JP-W40

6/21



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.6/28.8 A : 6.5 : 37.1 ft.lb : 200 % : 280 % : 3535 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	1	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

11/04/2020

Three Phase Induction Motor - Squirrel Cage



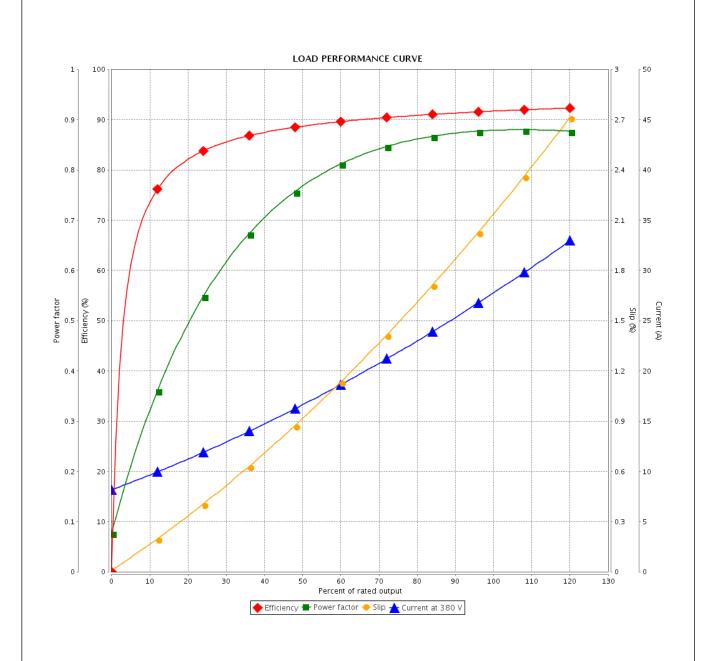
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486321

Catalog #: 02536OT3E256JP-W40



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 2	8.2 A	Moment of	f inertia (J)	: 1.13 sq.ft.lb	
LRC	: 6	.8	Duty cycle)	: Cont.(S1)	
Rated torque	: 3	5.8 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque		60 %	Temperati	Temperature rise		
Rated speed	: 2	935 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
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Checked by					Page	Revision
Date	11/04/2020				7 / 21	

Three Phase Induction Motor - Squirrel Cage



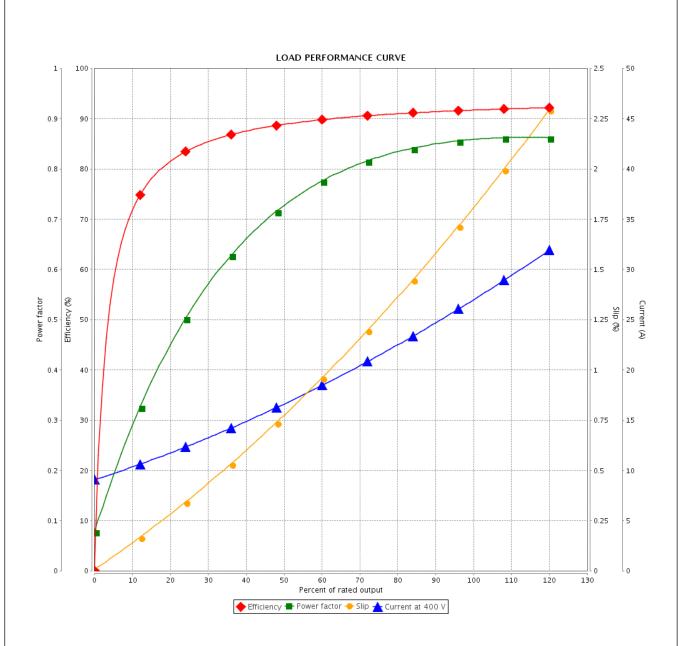
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486321

Catalog #: 02536OT3E256JP-W40



Performance : 400 V 50 Hz 2P IE3 : 27.4 A Rated current Moment of inertia (J) : 1.13 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 35.7 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



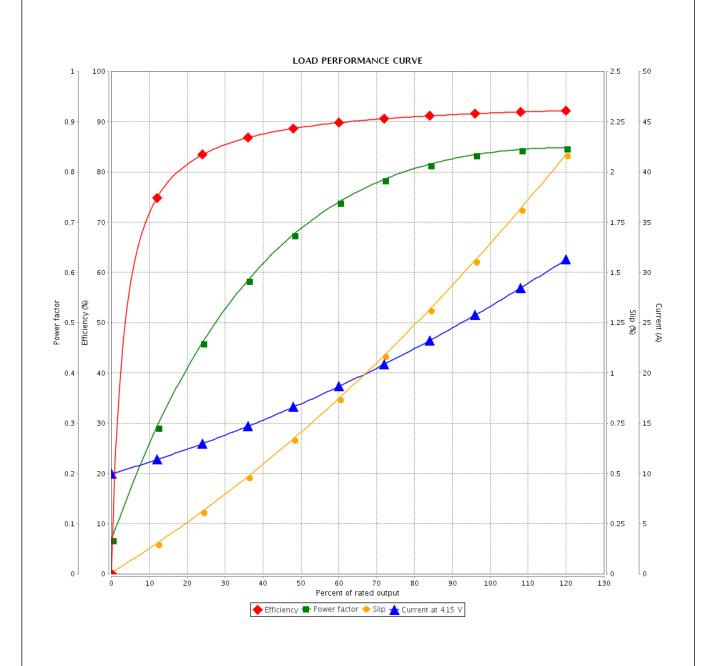
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

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Catalog #: 02536OT3E256JP-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 2	27.0 A	Moment o	f inertia (J)	: 1.13 sq.ft.lb	
LRC	: 7	' .4	Duty cycle)	: Cont.(S1)	
Rated torque	: 3	35.6 ft.lb	Insulation	class	: F	
Locked rotor torque		229 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	320 %	Temperature rise		: 80 K	
Rated speed	: 2	950 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				9 / 21	

Three Phase Induction Motor - Squirrel Cage

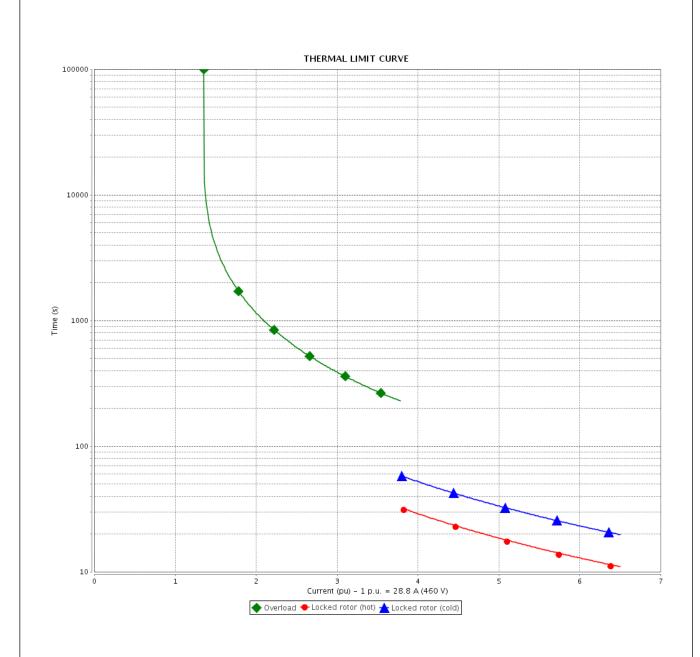


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Product line	: W40 JP Pump NEMA Pre Efficiency Three-Phase	mium	Product code :	14486321	
			Catalog # :	02536OT3E2	56JP-W40
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Performance	: 230/460 V 60 Hz 2P	Moment	of inartic (I)	. 1 12 0~ 4 14	
Rated current LRC	: 57.6/28.8 A : 6.5	Duty cycl	of inertia (J) e	: 1.13 sq.ft.lb : Cont.(S1)	
Rated torque	: 37.1 ft.lb	Insulation Service fa	n class	: F	
Locked rotor torque Breakdown torque	: 200 % : 280 %	Temperat		: 1.25 : 80 K	
Rated speed	: 3535 rpm	Design	-	: B	
Heating constant					
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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Performed by Checked by				Page	Revision
Date 11/04/20	20			10 / 21	TOVISION

Three Phase Induction Motor - Squirrel Cage



Customer



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

Three Phase Induction Motor - Squirrel Cage

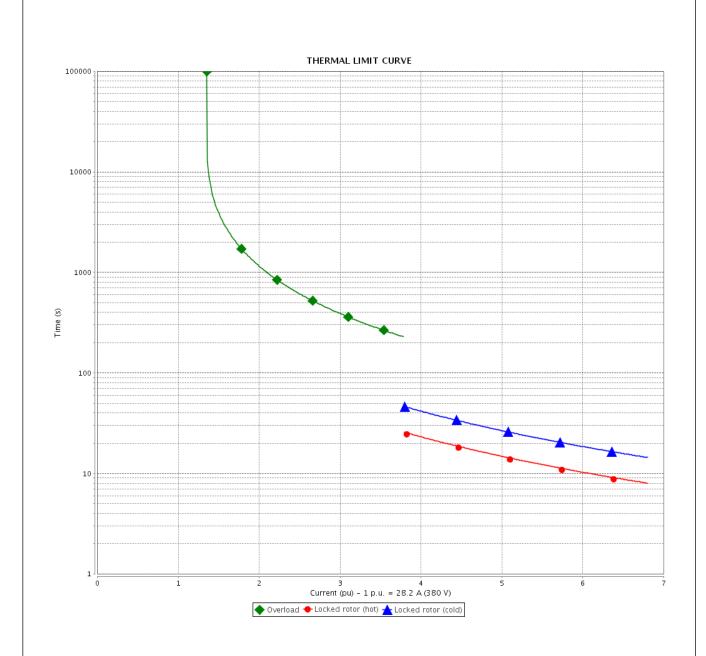


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		moioriey imae i maee	(Catalog # :	02536OT3E2	56JP-W40
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current		3.2 A	Moment of	finertia (J)	: 1.13 sq.ft.lb	
LRC Rated torque	: 6. : 35	8 5.8 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq	ue : 20	00 %	Service fac	ctor	: 1.00	
Breakdown torqu Rated speed	e : 26	60 % 935 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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

Three Phase Induction Motor - Squirrel Cage

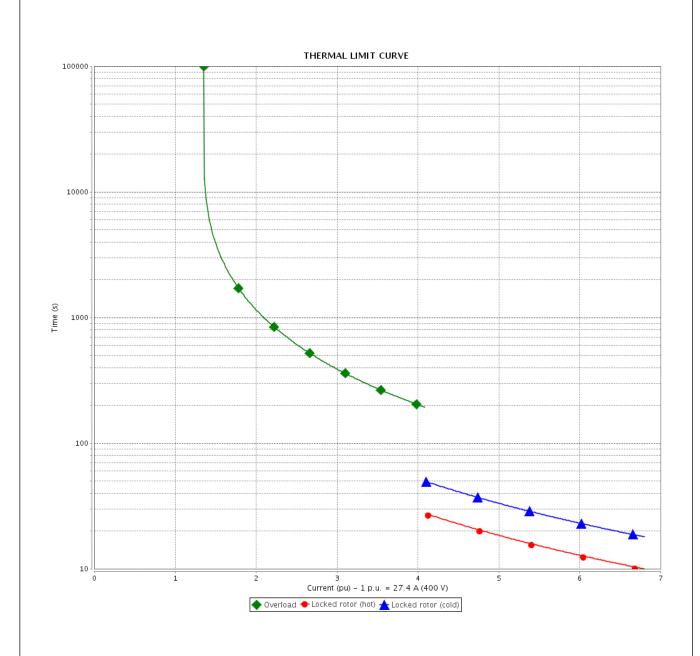


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Product line	: \	N40 JP Pump NEMA Prem fficiency Three-Phase	ium I	Product code :	14486321	
		niciency Three-Phase	(Catalog # :	02536OT3E2	56JP-W40
Performance		00 V 50 Hz 2P IE3				
Rated current LRC	: 27 : 6.	7.4 A 8	Moment of Duty cycle	f inertia (J)	: 1.13 sq.ft.lb : Cont.(S1)	
Rated torque	: 35	5.7 ft.lb	Insulation	class	: F	
Locked rotor torqu		20 %	Service fac		: 1.00	
Breakdown torque Rated speed		00 % 945 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
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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

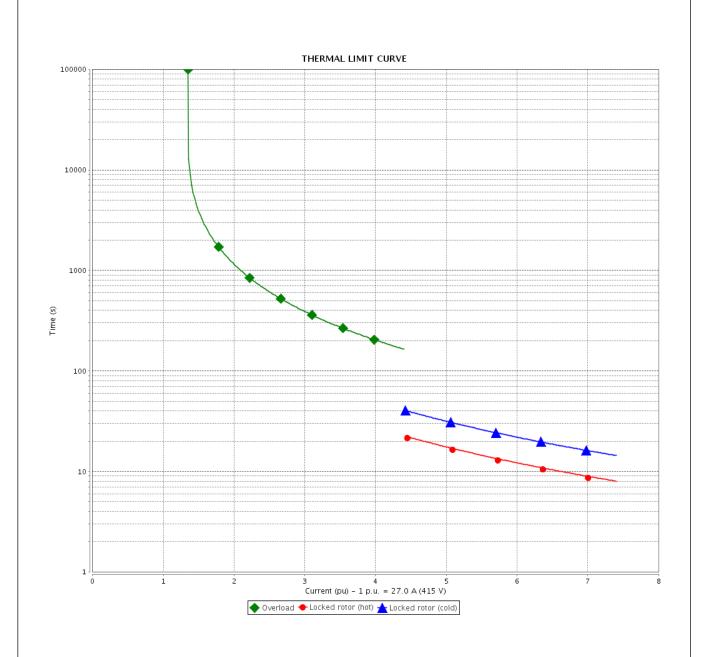


Customer	:				,	
Product line	: \ E	N40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14486321 02536OT3E2	56JP-W40
Performance Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	: 27 : 7. : 38 ue : 22 e : 32	15 V 50 Hz 2P IE3 7.0 A 4 5.6 ft.lb 29 % 20 % 950 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 1.13 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	44/04/2022				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



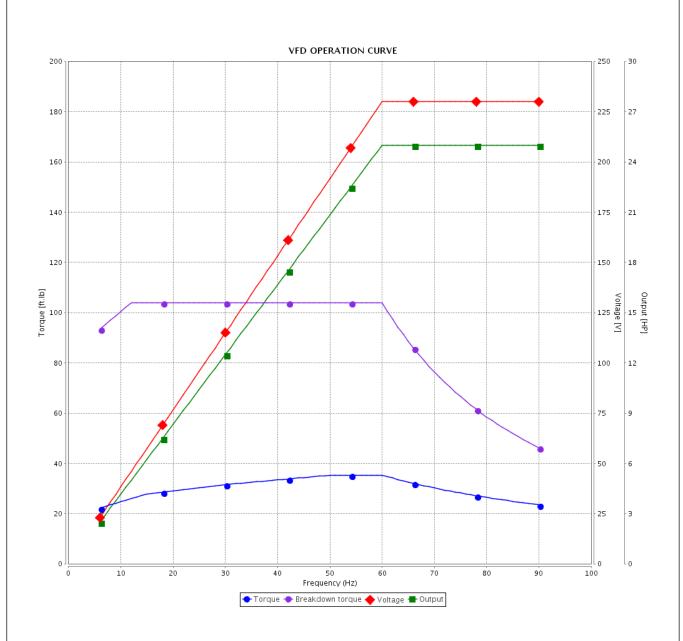
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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.6/28.8 A : 6.5 : 37.1 ft.lb : 200 % : 280 % : 3535 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by				_	
Checked by				Page	Revision

18/21

11/04/2020

Three Phase Induction Motor - Squirrel Cage



Customer

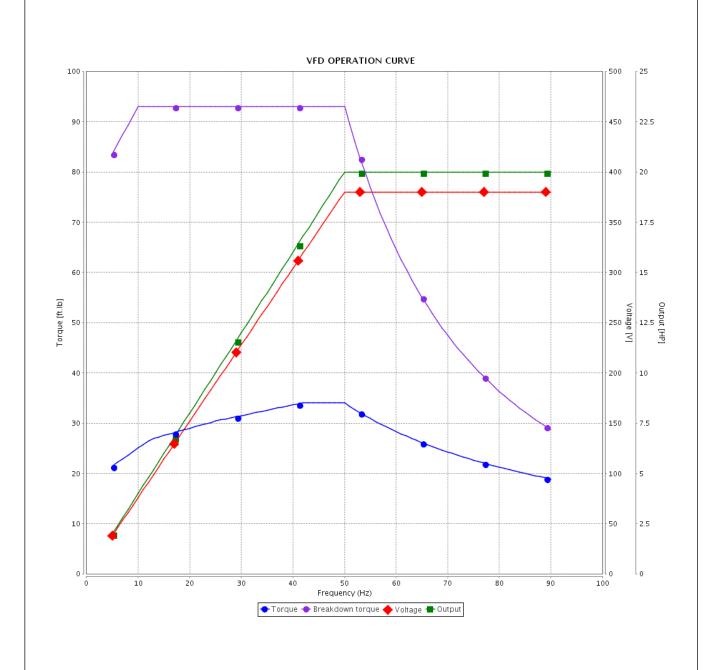
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19/21



Performance	: 380 V 50 Hz 2P IE3				
Rated current	urrent : 28.2 A Moment of inertia (J)		: 1.13 sq.ft.lb		
LRC	: 6.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 35.8 ft.lb	Insulation	class	: F	
Locked rotor torque	: 200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 2935 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

11/04/2020

Three Phase Induction Motor - Squirrel Cage



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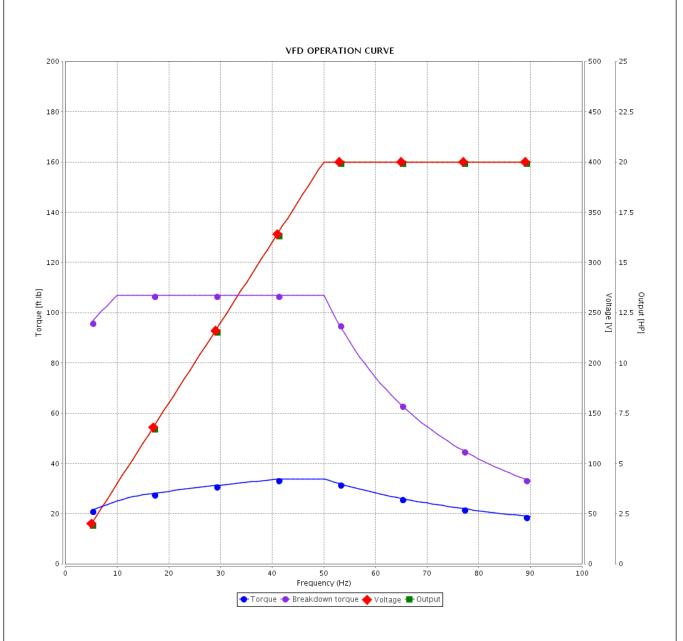
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Catalog #: 02536OT3E256JP-W40

20 / 21



Performance	: 40	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 35 que : 22 ie : 30	7.4 A 8 5.7 ft.lb 20 % 00 % 945 rpm	Duty cyc Insulatio Service	n class	: 1.13 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

Three Phase Induction Motor - Squirrel Cage



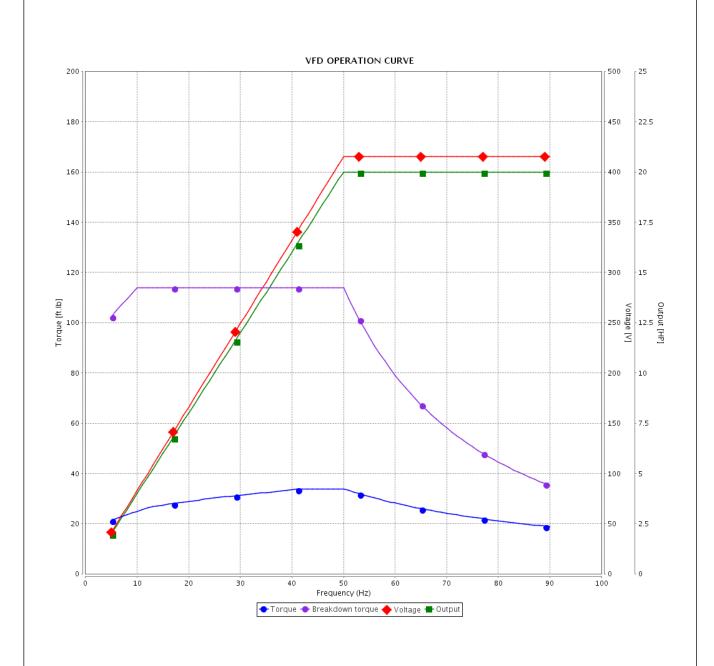
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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 2	7.0 A	.0 A Moment of inertia (J)		: 1.13 sq.ft.lb	
LRC	: 7	.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	5.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	20 %	Temperature rise		: 80 K	
Rated speed	: 2	950 rpm	Design		: B	
Rev.		Changes Summary	'	Performed	Checked	Date
		_				
Performed by						
Checked by					Page	Revision
Date	11/04/2020	1			21 / 21	