DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium

Product code:

Cooling method

14483182

: IC01 - ODP

Efficiency Three-Phase

Catalog #: 01012OT3E256JM-W40

Frame : 254/6JM

Insulation class

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

: 1000 m.a.s.l. Altitude

Starting method

Mounting : F-1 Rotation¹ : Both (CW and CCW)

: Direct On Line Approx. weight³ : 271 lb

Protection degree : IP23 Moment of inertia (J) : 3.53 sq.		sq.ft.lb			
Design		: B			
Output [HP]		10	10	10	10
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		25.6/12.8	15.0	14.6	14.3
L. R. Amperes [A]		174/87.0	88.5	93.4	94.4
LRC [A]		6.8x(Code H)	5.9x(Code G)	6.4x(Code H)	6.6x(Code H)
No load current [A]		12.2/6.10	6.10	6.50	6.80
Rated speed [RPN	1]	1180	970	975	975
Slip [%]		1.67	3.00	2.50	2.50
Rated torque [ft.lb]		44.5	54.1	53.9	53.9
Locked rotor torque [%]		229	190	210	229
Breakdown torque	[%]	300	229	260	280
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²		59.0 dB(A)			
	25%	89.4	88.3	88.3	88.3
Efficiency (%)	50%	90.2	88.6	88.6	88.6
Efficiency (70)	75%	91.0	89.0	89.0	89.0
	100%	91.7	89.1	89.1	89.1
	25%	0.37	0.44	0.41	0.38
Power Factor	50%	0.62	0.70	0.66	0.63
I OWEI FACIOI	75%	0.74	0.80	0.78	0.76
	100%	0.80	0.85	0.83	0.82

Drive end 6309 Z C3

Non drive end

Foundation loads 6209 Z C3

Max. traction Max. compression

Sealing

Bearing type

Without Without Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval

9 g Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 28.3A SF 1.15 SFA 32.6A

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.

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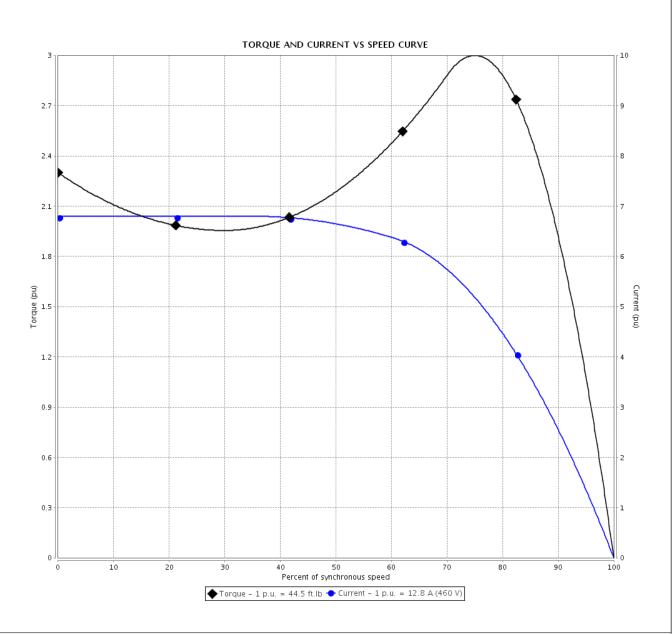
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance	: 230/460 V 60 Hz 6P		
Rated current	: 25.6/12.8 A	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.53 sq.ft.lb
LRC	: 6.8		: Cont.(S1)
Rated torque	: 44.5 ft.lb		: F
Locked rotor torque	: 229 %		: 1.25
Breakdown torque	: 300 %		: 80 K
Rated speed	: 1180 rpm		: B

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

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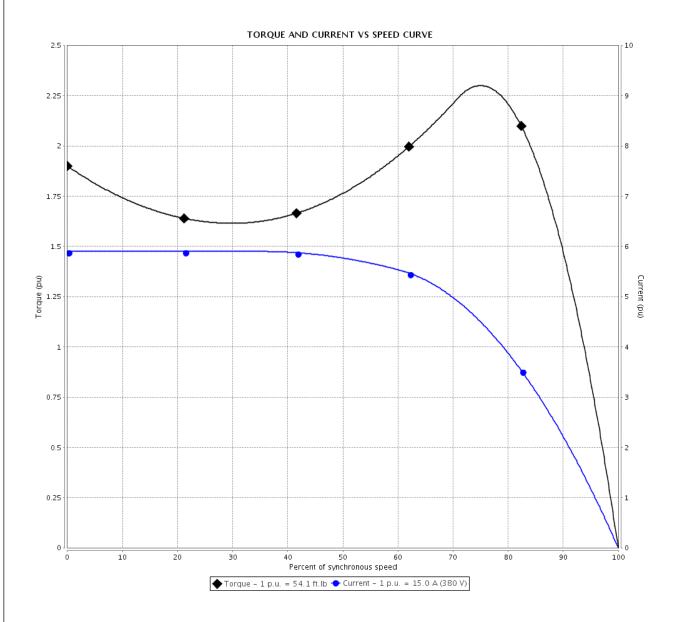
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 15.0 A	Moment of inertia (J)	: 3.53 sq.ft.lb	
LRC	: 5.9	Duty cycle	: Cont.(S1)	
Rated torque	: 54.1 ft.lb	Insulation class	:F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 970 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)			

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

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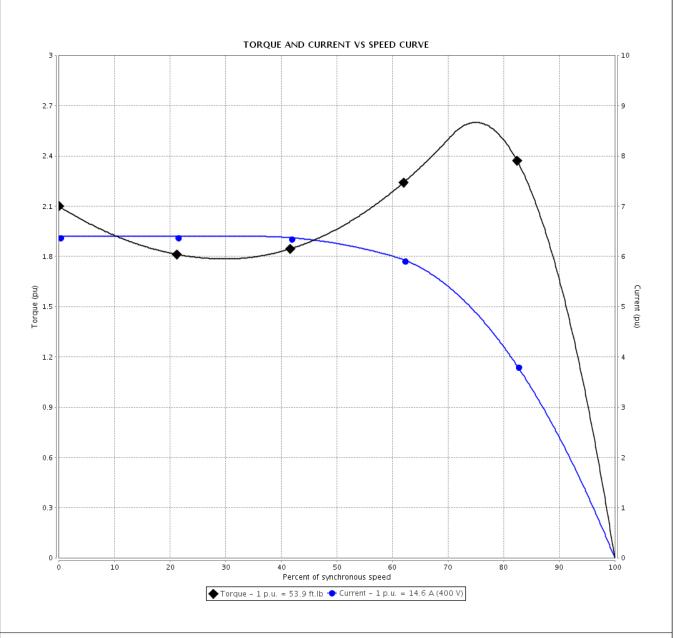
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



: 400 V 50 Hz 6P IE3 Performance Rated current : 14.6 A Moment of inertia (J) : 3.53 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 53.9 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 210 % : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 975 rpm Design : B

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

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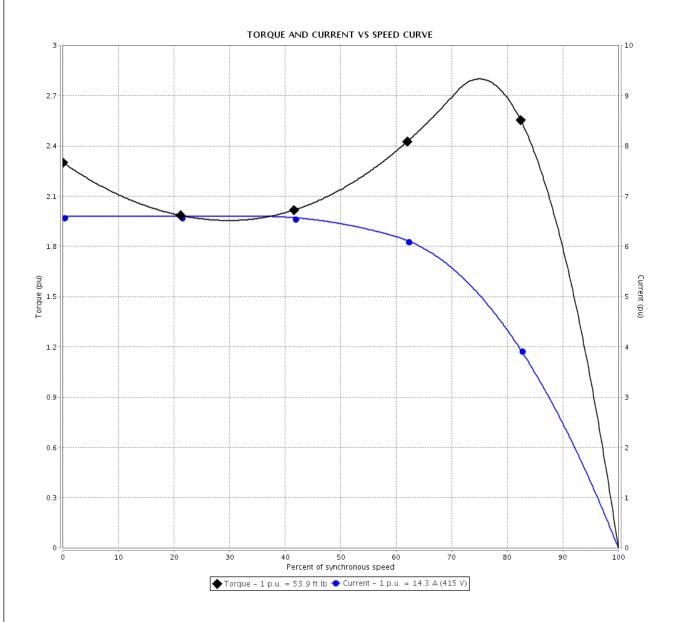
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 14.3 A	Moment of inertia (J)	: 3.53 sq.ft.lb	
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque	: 53.9 ft.lb	Insulation class	:F ´´	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 975 rpm	Design	: B	
Locked rotor time	: 25e (cold) 14e (hot)			

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

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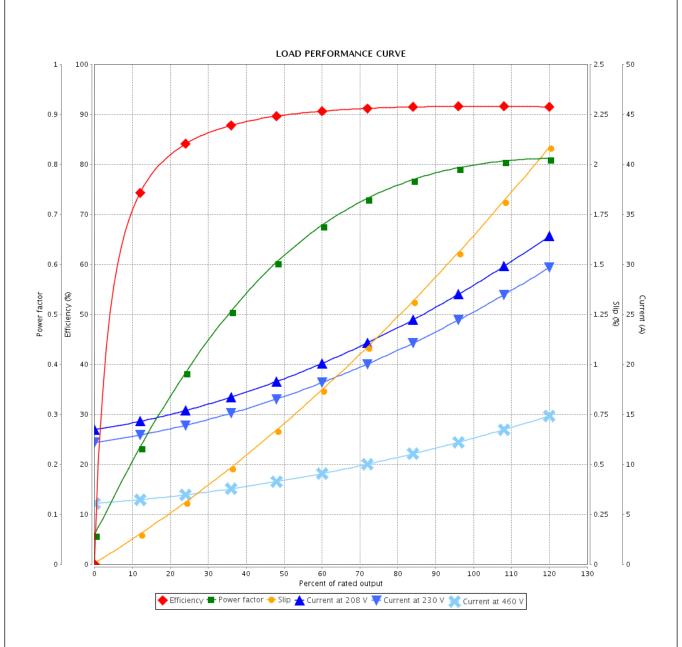
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40

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Performance	: 230/460 V 60 Hz 6P				
Rated current	: 25.6/12.8 A	Moment of	inertia (J)	: 3.53 sq.ft.lb	
LRC	: 6.8	Duty cycle		: Cont.(S1)	
Rated torque	: 44.5 ft.lb	Insulation of	lass	: F	
Locked rotor torque	: 229 %	Service fac	tor	: 1.25	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1180 rpm	Design		: B	
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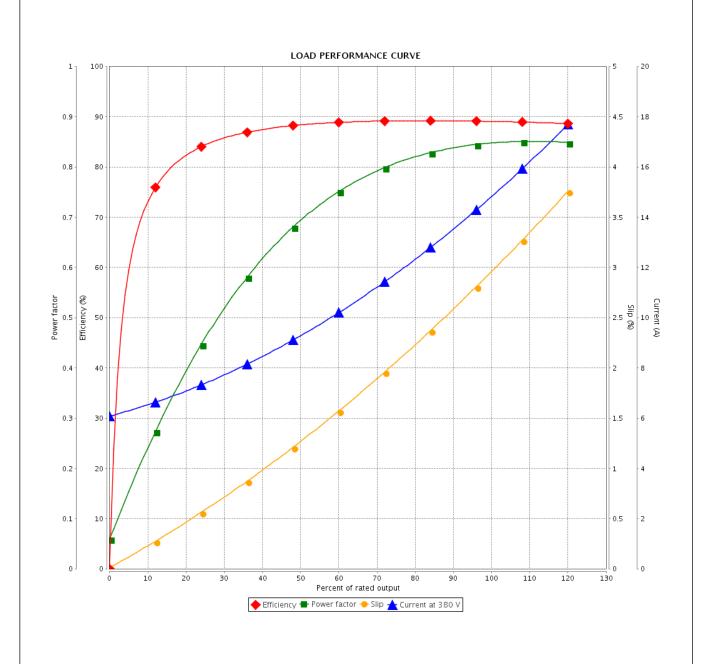
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance	: 38	80 V 50 Hz 6P IE3	3			
Rated current	: 1	5.0 A	Moment o	of inertia (J)	: 3.53 sq.ft.lb	
LRC	: 5.	.9	Duty cycle	•	: Cont.(S1)	
Rated torque	: 54	4.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 19	90 %	Service fa	ictor	: 1.00	
Breakdown torque		29 %	Temperati	ure rise	: 80 K	
Rated speed	: 9	70 rpm	Design		: B	
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

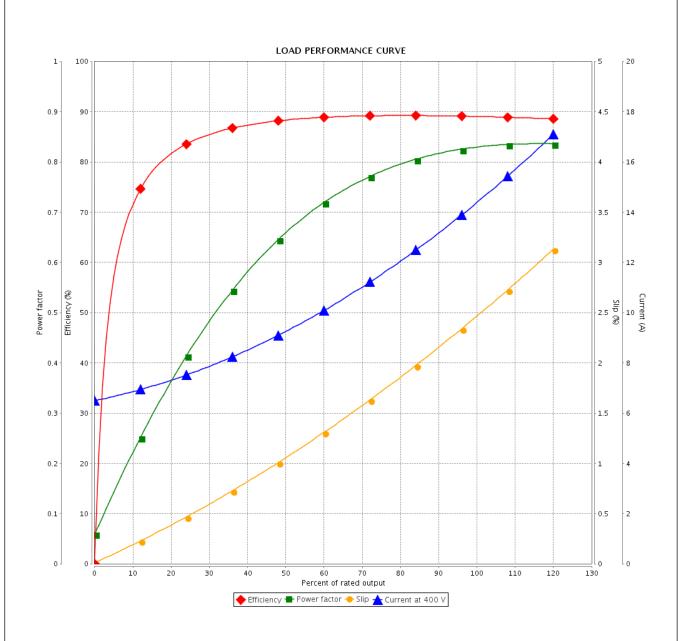
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.6 A : 6.4 : 53.9 ft.lb : 210 % : 260 % : 975 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

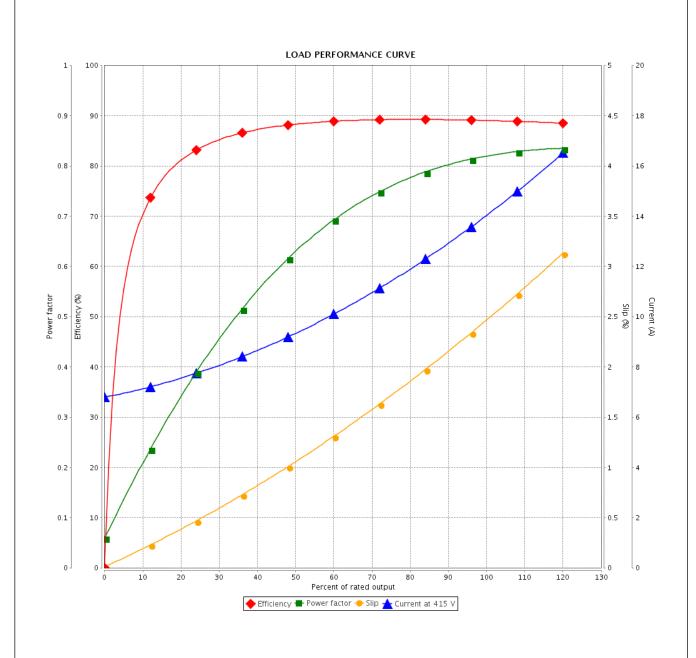
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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) : 3.53 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		: Cont.(S1) : F : 1.00 : 80 K	
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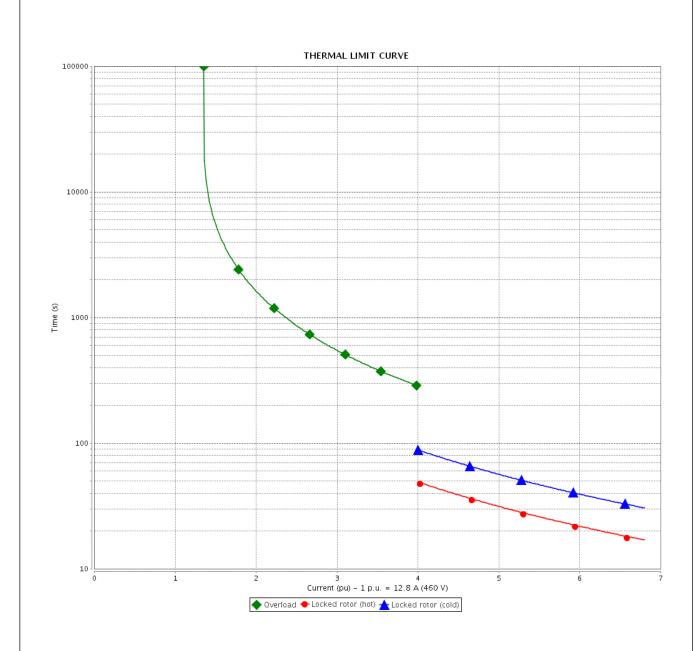


Customer		:				
Product line		· MAO IM Dump NEMA Drop	nium	Product code :	14483182	
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase	IIIUIII	Floduct code .	14403102	
		·		Catalog # :	01012OT3E2	256JM-W40
Performance	:	230/460 V 60 Hz 6P	1			
Rated current LRC		25.6/12.8 A 6.8	Moment of Duty cycle	of inertia (J)	: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque		44.5 ft.lb	Insulation		: F	
Locked rotor torc		229 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		: 300 % : 1180 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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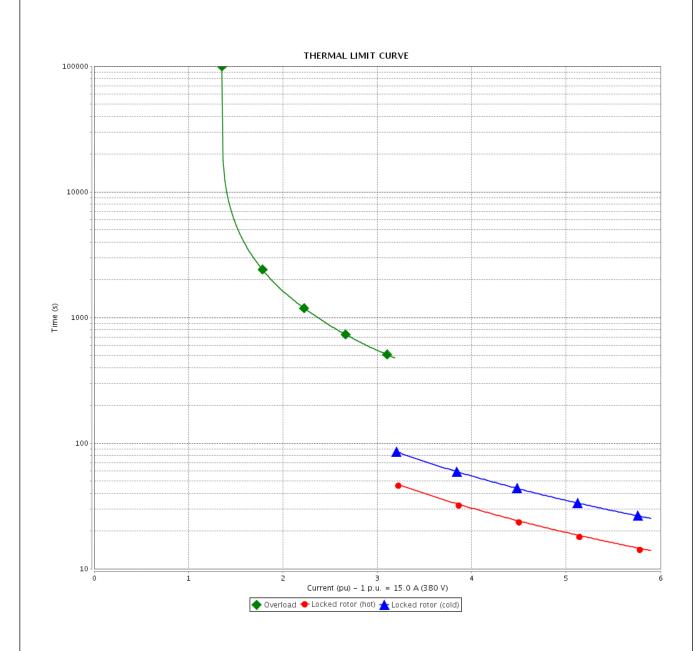


Customer		:				
Product line		· WAO IM Dump NEMA Drop	mium	Product code :	14483182	
Product line		: W40 JM Pump NEMA Prer Efficiency Three-Phase	Illulli	Product code .	14403102	
		•		Catalog # :	01012OT3E2	56JM-W40
Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC		: 15.0 A : 5.9	Moment of Duty cycle	of inertia (J)	: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque	:	: 54.1 ft.lb	Insulation	class	: F	
Locked rotor torq		: 190 %	Service fa	actor	: 1.00	
Breakdown torque Rated speed		: 229 % : 970 rpm	Temperate Design	ure rise	: 80 K : B	
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Cooling constant Rev.		Changes Summers		Performed	Checked	Date
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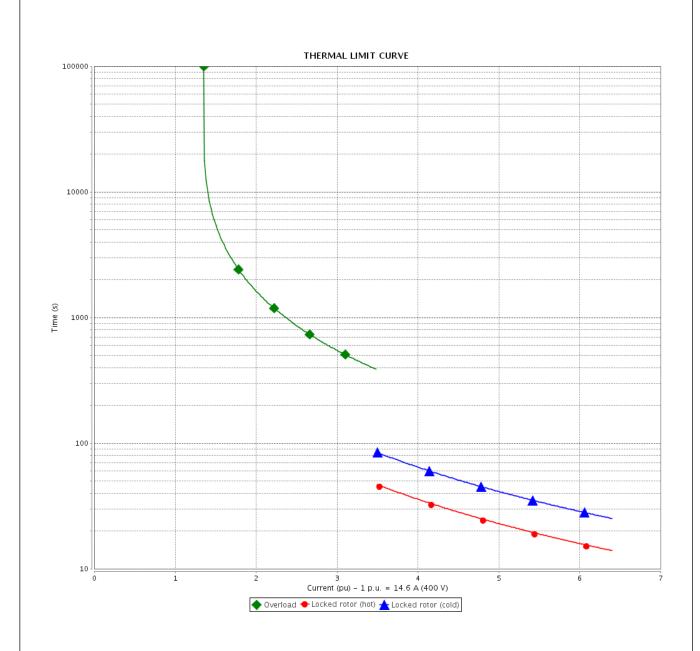


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Customer	:				
Product line	: W40 JM Pump NEMA Prem Efficiency Three-Phase		Product code :	14483182	
			Catalog # :	01012OT3E2	256JM-W40
Performance	: 400 V 50 Hz 6P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 14.6 A : 6.4 : 53.9 ft.lb : 210 % : 260 % : 975 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	· r ···				
Heating constant					
Cooling constant	Observe O		David 1	Oh I I	
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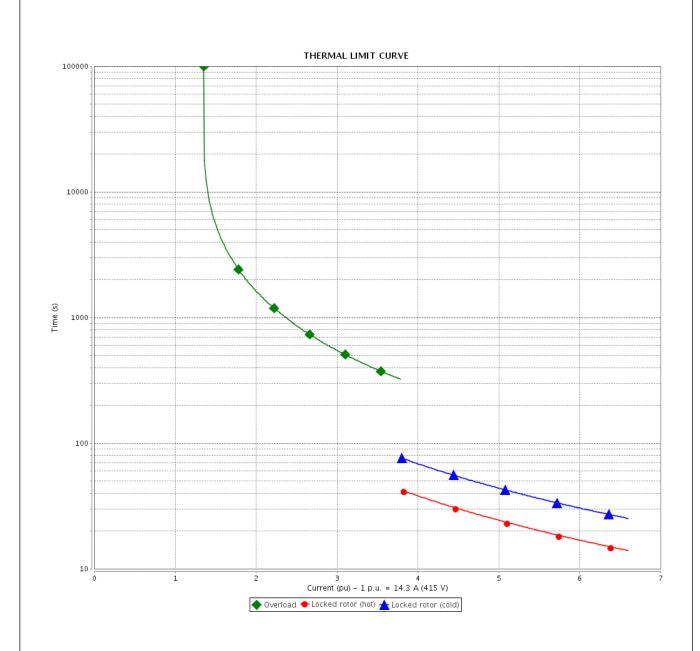


Customer	:				_	
Product line	: \ Ef	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14483182 01012OT3E2	56JM-W40
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 14 : 6. : 53 que : 22 ue : 28 : 97	15 V 50 Hz 6P IE3 4.3 A 6 3.9 ft.lb 29 % 80 % 75 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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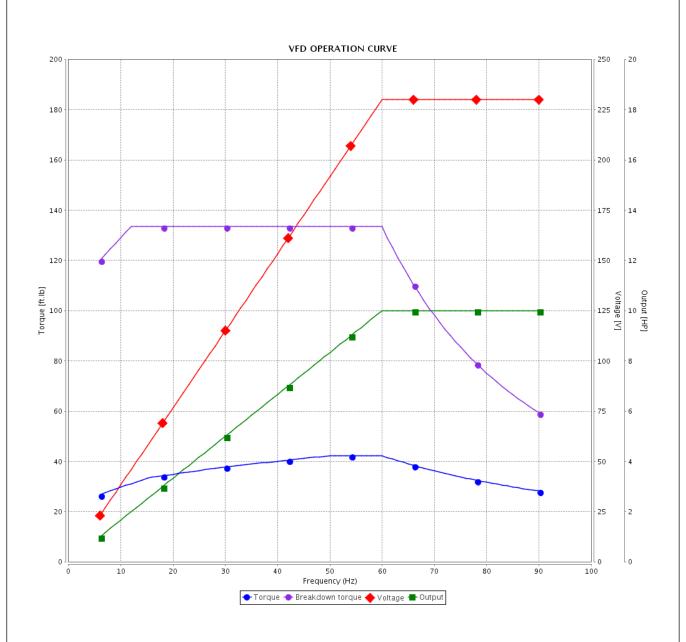
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40

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Performance : 230/460 V 60 Hz 6P Rated current : 25.6/12.8 A Moment of inertia (J) : 3.53 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class : 44.5 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



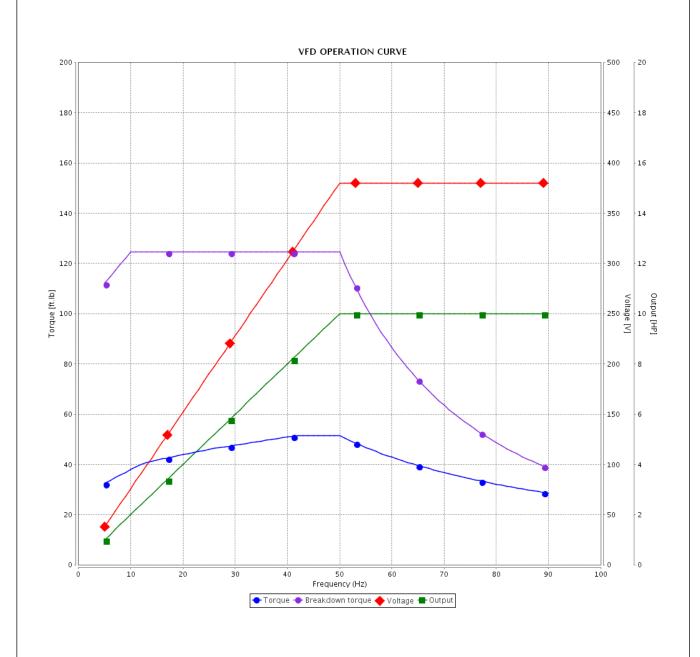
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance	: 38	80 V 50 Hz 6P IE3				
Rated current LRC	: 19 : 5.	5.0 A 9	A Moment of inertia Duty cycle		: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc	_	4.1 ft.lb 90 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu Rated speed	ie : 22	29 % 70 rpm	Temperature rise Design		: 80 K : B	
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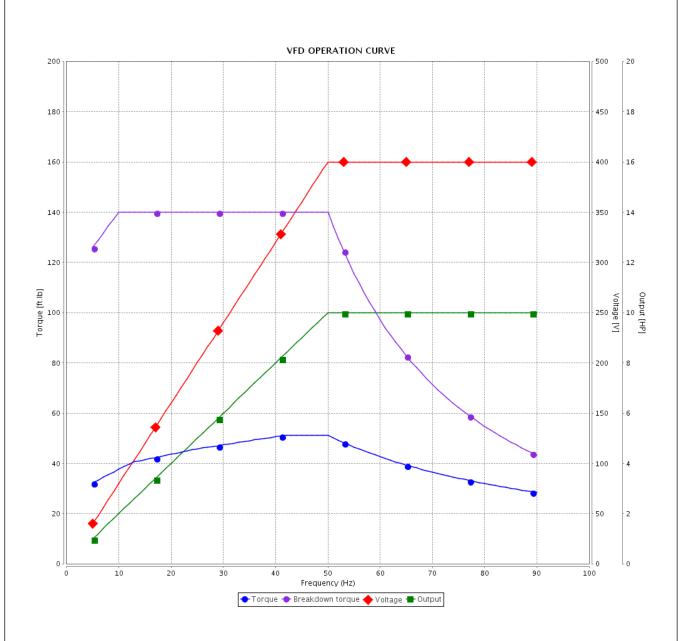
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40

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Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 14.6 A Moment of inertia (J)		: 3.53 sq.ft.lb		
LRC	: 6.4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 53.9 ft.lb	Insulation	class	: F	
Locked rotor torque	: 210 %	Service fa	ictor	: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 975 rpm	Design		: B	
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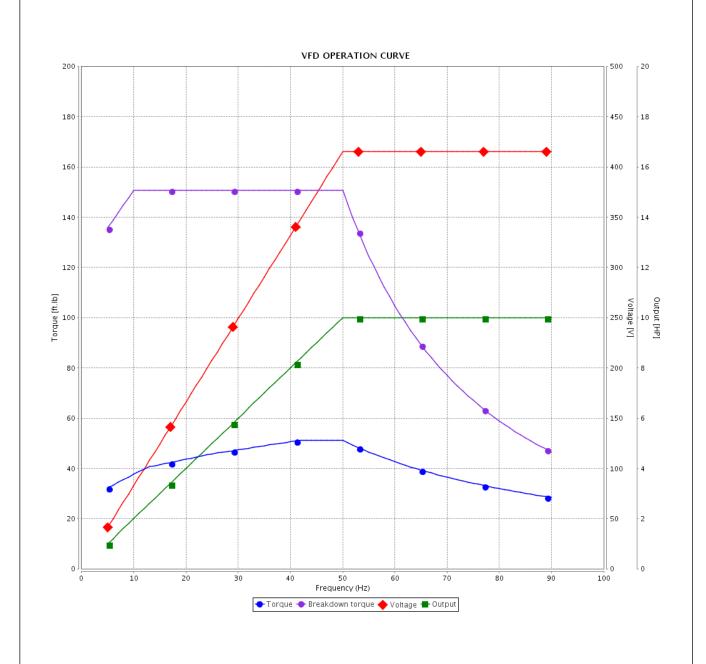
Customer

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Catalog #: 01012OT3E256JM-W40



Performance	: 4	15 V 50 Hz 6P IE3	3			
Rated current	: 14	: 14.3 A Moment of ir		of inertia (J)	: 3.53 sq.ft.lb	
LRC	: 6	.6	Duty cycle	•	: Cont.(S1)	
Rated torque	: 5	3.9 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2:	29 %	Service fa	ictor	: 1.00	
Breakdown torque	e : 28	80 %	% Temperature rise		: 80 K	
Rated speed	: 9	75 rpm	Design		: B	
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