### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483424

Catalog #: 02018OT3E256JM-W40

Frame : 254/6JM

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

Rotation<sup>1</sup> : Both (CW and CCW)

Starting method : Direct On Line Approx. weight<sup>3</sup> : 303 lb

Protection degree		Moment of ine	ertia (J)	sq.ft.lb
	: B			
	20	15	15	15
	4	4	4	4
	60	50	50	50
	230/460	380	400	415
	48.2/24.1	22.0	21.4	21.2
	308/154	154	156	155
	6.4x(Code G)	7.0x(Code H)	7.3x(Code J)	7.3x(Code J)
	20.0/10.0	9.90	10.7	11.3
Rated speed [RPM]		1475	1480	1480
Slip [%]		1.67	1.33	1.33
Rated torque [ft.lb]		53.4	53.2	53.2
Locked rotor torque [%]		250	240	290
Breakdown torque [%]		270	300	330
	1.25	1.00	1.00 1.00	
	80 K	80 K	80 K	80 K
	46s (cold) 26s (hot)	61s (cold) 34s (hot)	52s (cold) 29s (hot)	46s (cold) 26s (hot)
	62.0 dB(A)			
	92.2		91.0	91.0
50%	92.4	91.1	91.1	91.1
75%	93.0	91.5	91.5	91.5
100%		91.5	91.5	91.5
25%	0.43	0.40	0.37	0.34
50%	0.69	0.66	0.62	0.59
75%	0.79	0.77	0.74	0.72
100%	0.84	0.83	0.81	0.79
	25% 50% 75% 100% 25% 50% 75%	: B  20 4 60 230/460 48.2/24.1 308/154 6.4x(Code G) 20.0/10.0 1] 1770 1.67 59.3 2[%] 220 [%] 250 1.25 80 K 46s (cold) 26s (hot) 62.0 dB(A) 25% 92.2 50% 92.4 75% 93.0 100% 93.0 25% 0.43 50% 0.69 75% 0.79	: B  20 15 4 4 4 60 50 230/460 380 48.2/24.1 22.0 308/154 154 6.4x(Code G) 7.0x(Code H) 20.0/10.0 9.90 1] 1770 1475 1.67 1.67 1.67 59.3 53.4 8 [%] 220 250 [%] 250 270 1.25 1.00 80 K 80 K 80 K 46s (cold) 26s (hot) 62.0 dB(A) 25% 92.2 90.9 50% 92.4 91.1 75% 93.0 91.5 100% 93.0 91.5 25% 0.43 0.40 50% 0.69 0.66 75% 0.79 0.77	∴ B       20     15     15       4     4     4       60     50     50       230/460     380     400       48.2/24.1     22.0     21.4       308/154     154     156       6.4x(Code G)     7.0x(Code H)     7.3x(Code J)       20.0/10.0     9.90     10.7       1770     1475     1480       1.67     1.67     1.33       59.3     53.4     53.2       8 [%]     220     250     240       [%]     250     270     300       1.25     1.00     1.00       80 K     80 K     80 K       46s (cold) 26s (hot)     61s (cold) 34s (hot)     52s (cold) 29s (hot)       50%     92.2     90.9     91.0       50%     92.4     91.1     91.1       75%     93.0     91.5     91.5       100%     93.0     91.5     91.5       25%     0.43     0.40     0.37       50%     0.69     0.66     0.62       75%     0.79     0.77     0.74

**Drive** end 6309 Z C3

Without

Non drive end

6209 Z C3

Without

Bearing Seal Bearing Seal 20000 h 20000 h

Lubrication interval Lubricant amount 9 g Mobil Polyrex EM Lubricant type

Foundation loads

Max. traction Max. compression

Notes

Bearing type

Sealing

USABLE @208V 53.3A SF 1.15 SFA 61.3A

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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#### Three Phase Induction Motor - Squirrel Cage



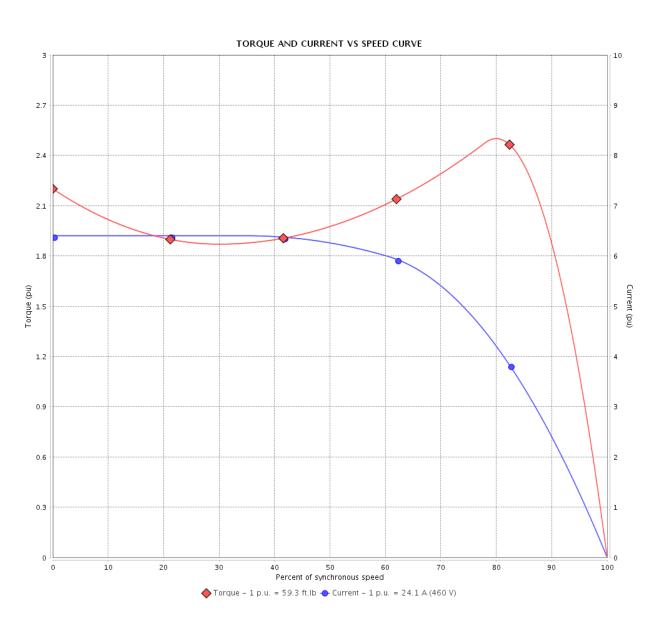
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483424

Catalog #: 02018OT3E256JM-W40



Performance : 230/460 V 60 Hz 4P Rated current : 48.2/24.1 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 59.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

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Efficiency Three-Phase

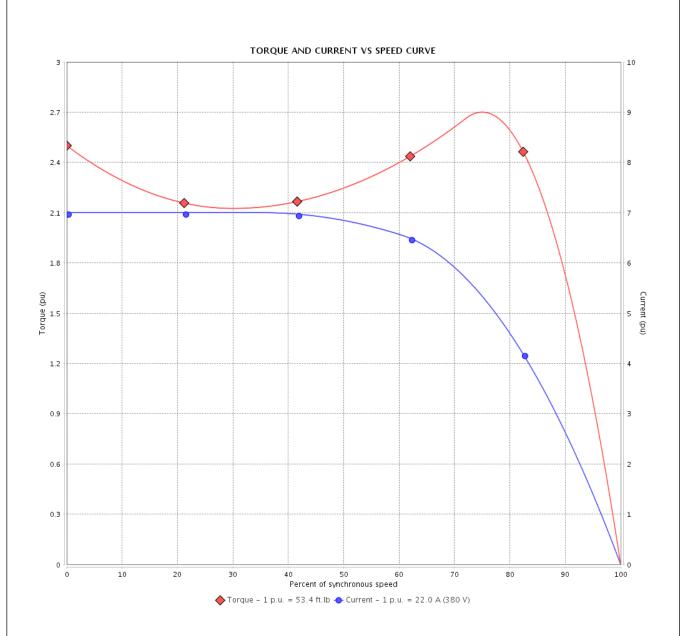
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium Product code : 14483424

Catalog #: 02018OT3E256JM-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 22.0 A	Moment of inertia (J)	: 3.13 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 53.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 1475 rpm	Design	: B	
Locked rotor time	: 61s (cold) 34s (hot)			

Locked rotor time : 61s (cold) 34s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



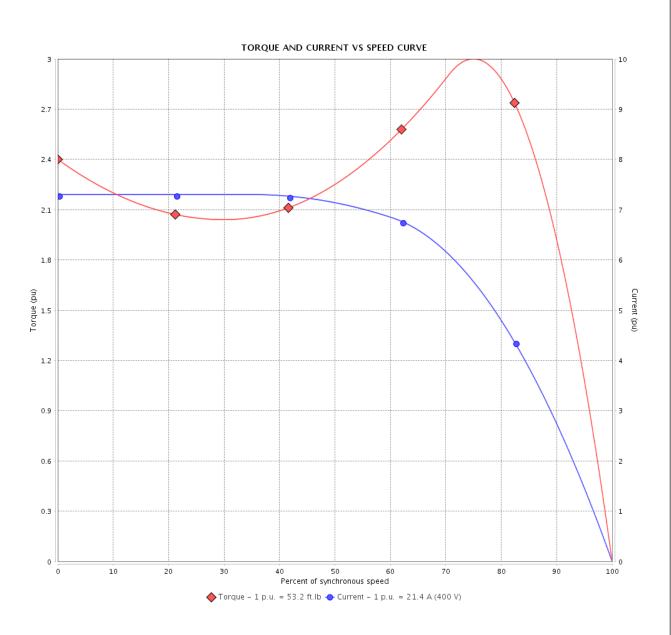
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483424

Catalog #: 02018OT3E256JM-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 21.4 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 53.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

Locked rotor time : 52s (cold) 29s (hot)

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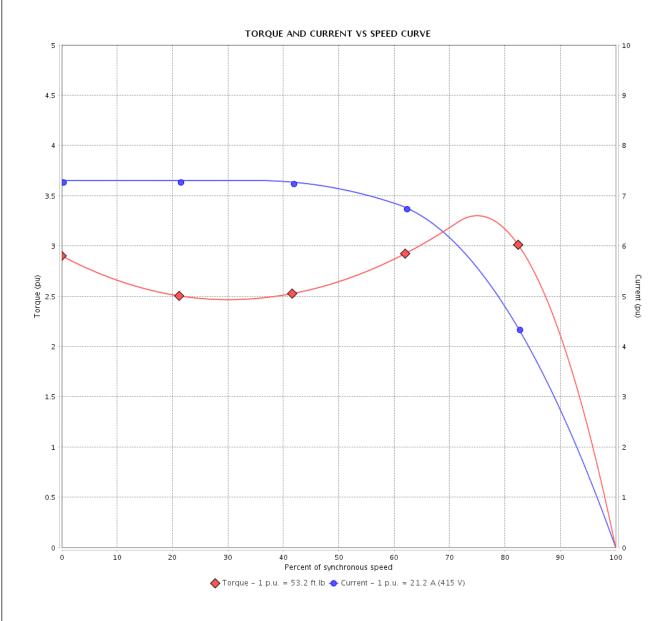
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483424

Catalog #: 02018OT3E256JM-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 21.2 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 53.2 ft.lb Insulation class Rated torque : F : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 46s (cold) 26s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



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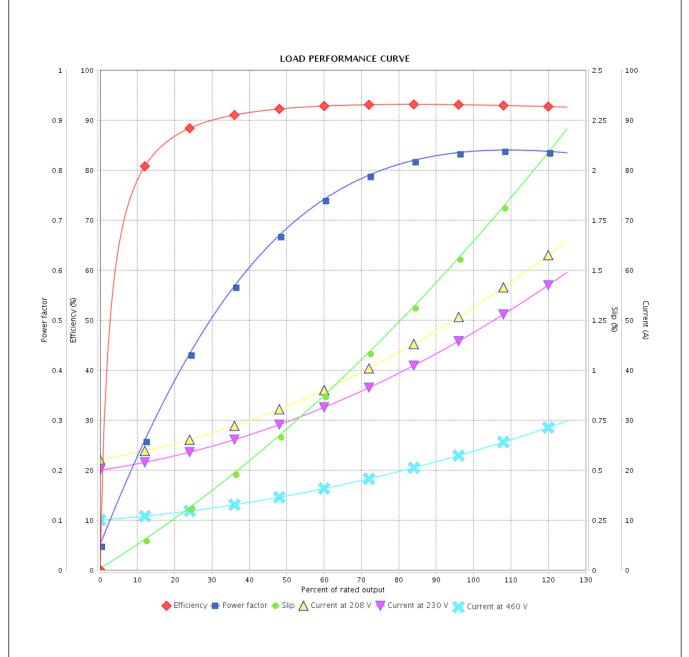
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483424

Catalog #: 02018OT3E256JM-W40

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 48.2/24.1 A : 6.4 : 59.3 ft.lb : 220 % : 250 % : 1770 rpm	Moment of inertia (J) : 3.13 sq.ft.l  Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B		: F : 1.25 : 80 K	
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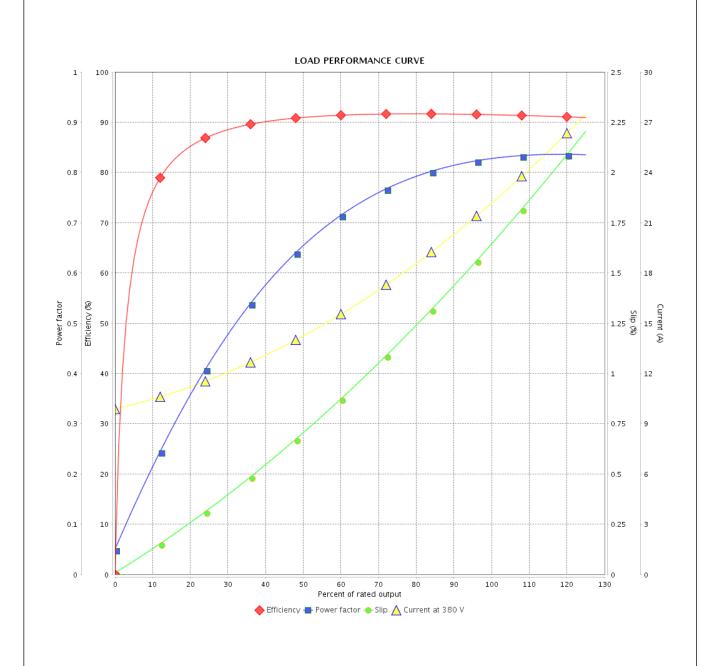
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483424

Catalog #: 02018OT3E256JM-W40



Performance	:	380 V 50 Hz 4P IE3				
Rated current	:	22.0 A	Moment o	f inertia (J)	: 3.13 sq.ft.lb	
LRC	:	7.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	53.4 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	250 %	Service fa	ctor	: 1.00	
Breakdown torque	:	270 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1475 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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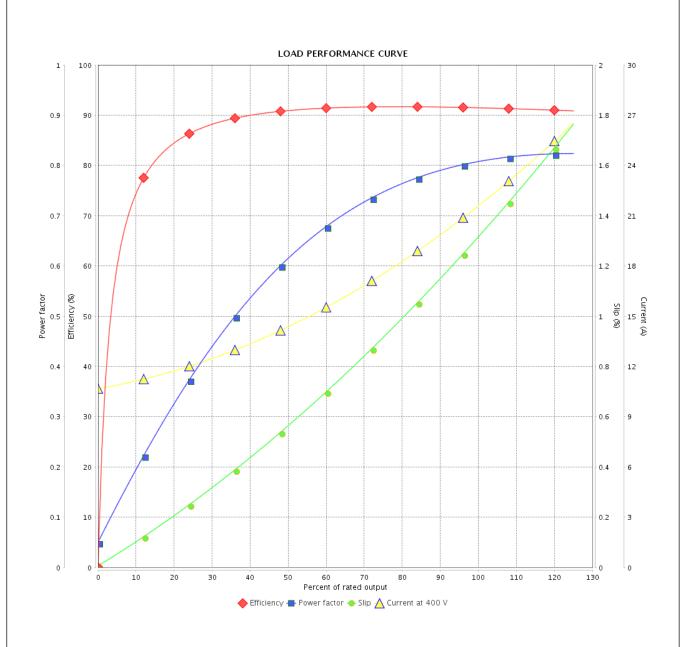
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483424

Catalog #: 02018OT3E256JM-W40

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Performance	: 400 V 50 Hz 4P IE3			,	
renormance	. 400 V 50 HZ 4F IES				
Rated current	: 21.4 A	Moment of ine	ertia (J)	: 3.13 sq.ft.lb	
LRC	: 7.3	Duty cycle		: Cont.(S1)	
Rated torque	: 53.2 ft.lb	• • •		: F	
Locked rotor torque : 240 %		Service factor		: 1.00	
Breakdown torque : 300 %		Temperature rise		: 80 K	
Rated speed	: 1480 rpm			: B	
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#### Three Phase Induction Motor - Squirrel Cage



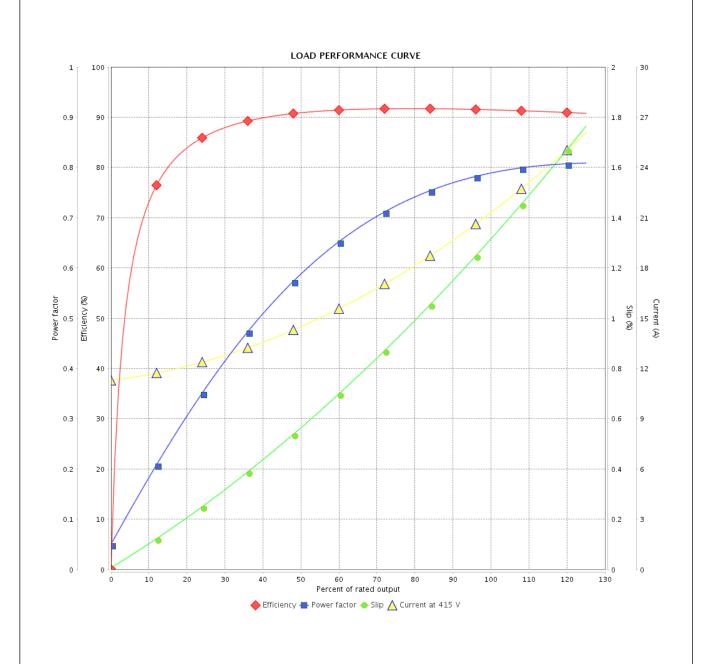
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483424

Catalog #: 02018OT3E256JM-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 2	1.2 A	Moment o	of inertia (J)	: 3.13 sq.ft.lb	
LRC	: 7.	.3	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 53	3.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 29	90 %	Service fa	actor	: 1.00	
Breakdown torque : 3		30 %	Temperat	Temperature rise		
Rated speed	: 14	480 rpm	Design		: B	
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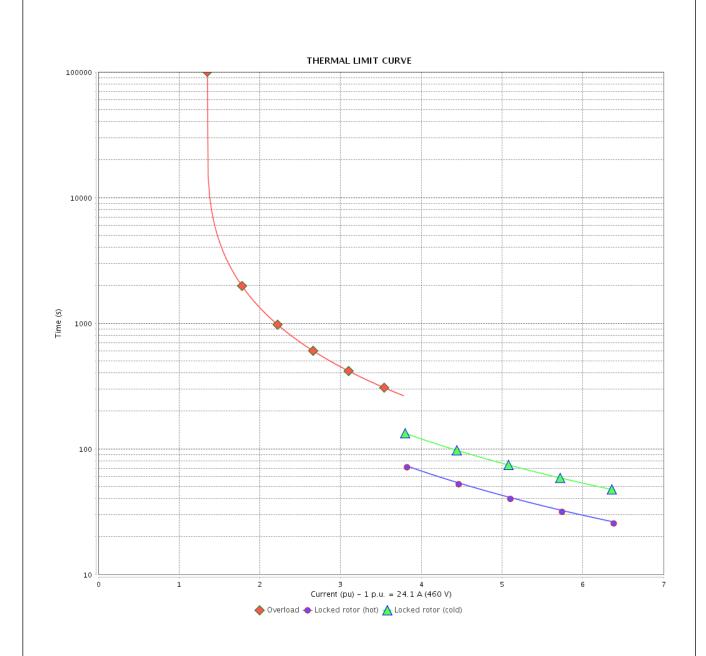


Customer	:					
Product line	: \ Et	N40 JM Pump NEMA Prem ficiency Three-Phase		Product code :	14483424 02018OT3E2	56JM-W40
Performance	: 23	80/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqui Rated speed	: 48 : 6. : 59 ue : 22 e : 25	3.2/24.1 A	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 3.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
		•				
Heating constant Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

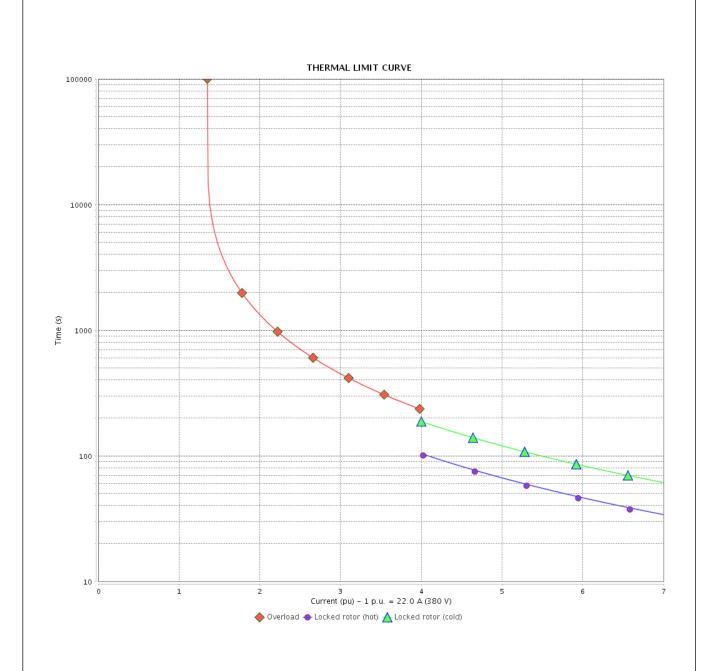


Customer	:					
Product line	: \ Ef	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14483424 02018OT3E2	56JM-W40
Performance	. 30	30 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22 : 7. : 53 ue : 25 e : 27	2.0 A	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 3.13 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer :



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### Three Phase Induction Motor - Squirrel Cage

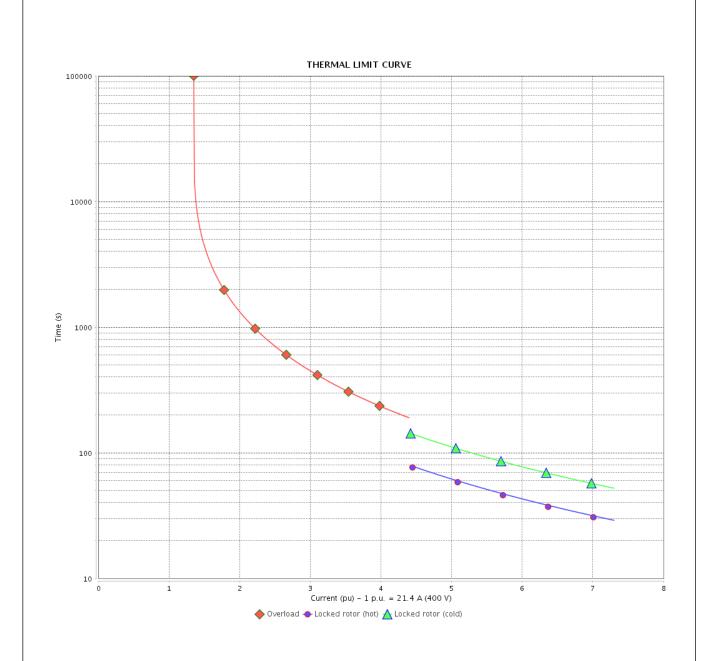


Customer	:					
Product line	: \ E1	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14483424 02018OT3E2	56JM-W40
Performance	: 40	00 V 50 Hz 4P IE3				
Rated current	: 21	1.4 A	Moment of	f inertia (J)	: 3.13 sq.ft.lb	
LRC Rated torque		3.2 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord Breakdown torqu		40 % 00 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed		180 rpm	Design	II C 113C	: B	
Heating constan						
Cooling constant		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

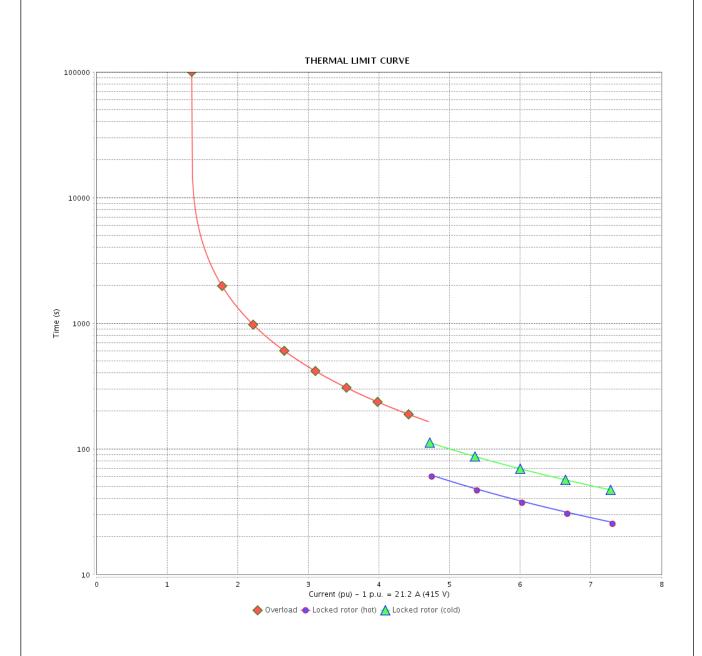


Customer		:				
Product line		: W40 JM Pump NEMA Prer	mium	Product code :	14483424	
1 Toddet IIITC		Efficiency Three-Phase			14403424	
		·		Catalog # :	02018OT3E2	256JM-W40
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 21.2 A : 7.3	Moment of Duty cycle	of inertia (J)	: 3.13 sq.ft.lb	
Rated torque		: 7.3 : 53.2 ft.lb	Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	: 290 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 330 % : 1480 rpm	Temperate Design	ure rise	: 80 K : B	
		- · · · · · · · · · · · · · · · · · · ·	_ 55.9.1		. <del>-</del>	
Heating constant						
Cooling constant Rev.		Changes Summary	<u> </u>	Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

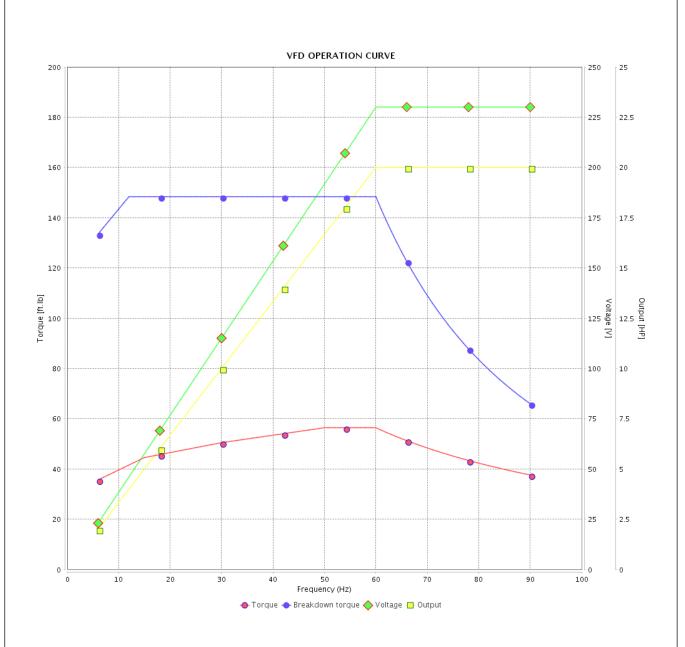
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Performance	:	230/460 V 60 Hz 4P				
Rated current : 48.2/24.1 A LRC : 6.4 Rated torque : 59.3 ft.lb Locked rotor torque : 220 % Breakdown torque : 250 % Rated speed : 1770 rpm		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design			
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#### Three Phase Induction Motor - Squirrel Cage



Customer

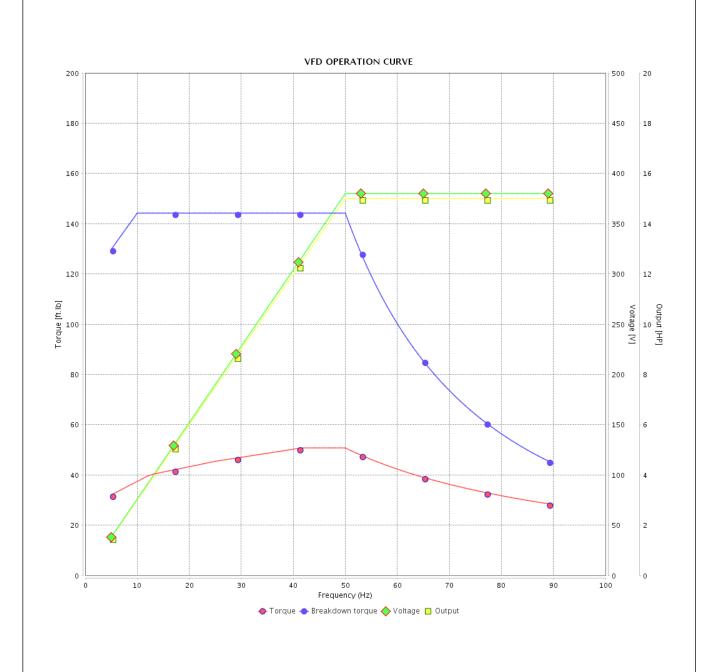
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483424

Catalog #: 02018OT3E256JM-W40

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Performance	: 380 V 50 Hz 4P IE3	380 V 50 Hz 4P IE3				
Rated current	: 22.0 A	Moment of inertia (J)		: 3.13 sq.ft.lb		
LRC	: 7.0	Duty cycle	<b>;</b>	: Cont.(S1)		
Rated torque	: 53.4 ft.lb	11100110111011		: F		
Locked rotor torque	: 250 %			: 1.00		
Breakdown torque	: 270 %	Temperature rise	ıre rise	: 80 K		
Rated speed	: 1475 rpm	Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

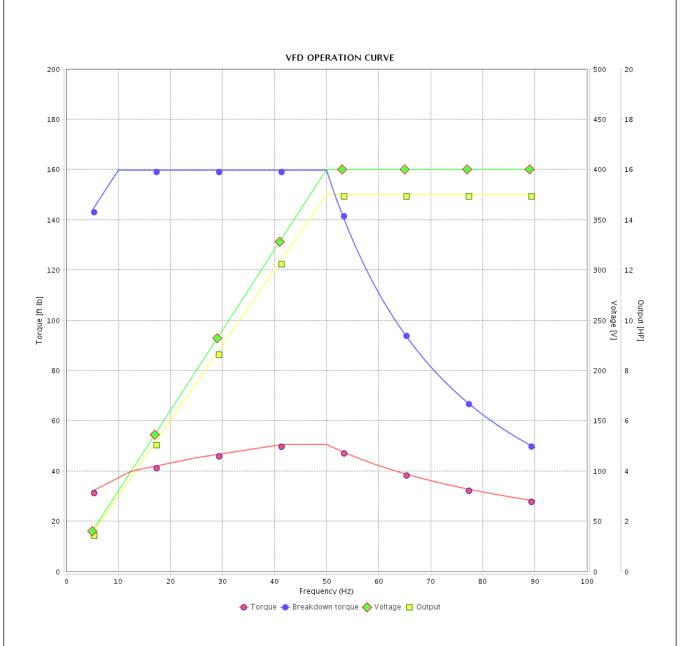
Product code: 14483424

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Performance	: 4	100 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 5 que : 2 ie : 3	21.4 A 7.3 53.2 ft.lb 240 % 800 % I480 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 3.13 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer

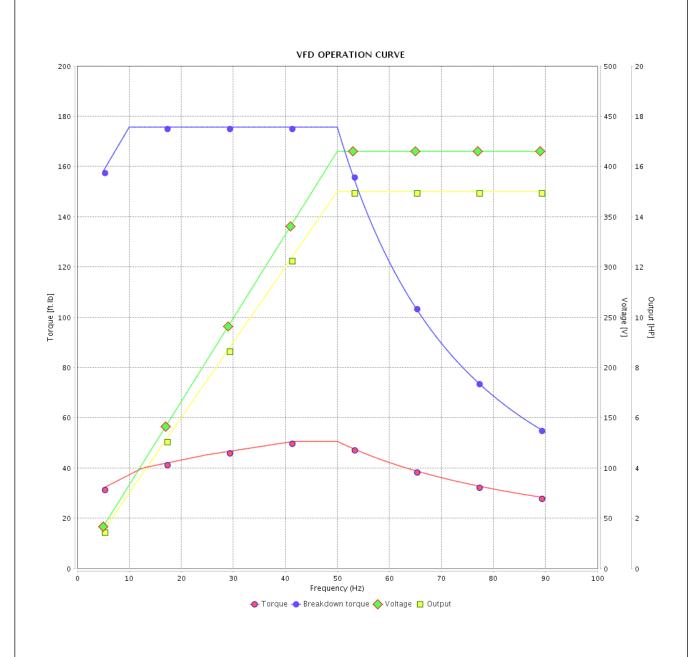
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483424

Catalog #: 02018OT3E256JM-W40

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.2 A : 7.3 : 53.2 ft.lb : 290 % : 330 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.13 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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