DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium

Product code:

Catalog #:

14484693

Efficiency Three-Phase

03018OT3E286JM-W40

Frame : 284/6JM

Insulation class

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

Altitude Protection degree

: 1000 m.a.s.l. : IP23

Cooling method : IC01 - ODP

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

Starting method : Direct On Line

Approx. weight³ : 414 lb

Moment of inertia (J) : 4.52 sq.ft.lb

1 Totalion degree		. 11 20	World of the	Moment of mertia (b)				
Design		: B						
Output [HP]		30	25	25	25			
Poles		4	4	4	4			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		230/460	380	400	415			
Rated current [A]		69.8/34.9	35.7	34.7	34.3			
L. R. Amperes [A]		461/230	246	250	244			
LRC [A]		6.6x(Code G)	6.9x(Code H)	7.2x(Code H)	7.1x(Code H)			
No load current [A]]	27.0/13.5	13.0	14.0	14.5			
Rated speed [RPN	1]	1765	1465	1470	1470			
Slip [%]		1.94	2.33	2.00	2.00			
Rated torque [ft.lb]		89.0	89.3	89.3	89.0			
Locked rotor torque [%]		280	229	260	280			
Breakdown torque	[%]	270	240	270	300			
Service factor		1.25	1.00	1.00	1.00			
Temperature rise		80 K	80 K	80 K	80 K			
Locked rotor time		32s (cold) 18s (hot)	28s (cold) 16s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)			
Noise level ²		64.0 dB(A)						
	25%	93.4	92.0	92.0	92.0			
Efficiency (%)	50%	93.6	92.2	92.2	92.2			
Liliciency (70)	75%	94.1	92.6	92.6	92.6			
100%		94.1	92.6	92.6	92.6			
	25%	0.45	0.46	0.42	0.39			
Power Factor	50%	0.70	0.70	0.66	0.63			
I OWELL ACIO	75%	0.80	0.80	0.78	0.75			
	100%	0.84	0.85	0.83	0.81			
	100 /0	0.04	0.00	0.03	0.01			

Drive end 6311 Z C3

Without

Non drive end

6211 Z C3

Max. traction Without Max. compression

Foundation loads

Bearing Seal Bearing Seal 20000 h 20000 h Lubrication interval

Lubricant amount 11 g Mobil Polyrex EM Lubricant type

Notes

Bearing type

Sealing

USABLE @208V 77.2A SF 1.15 SFA 88.8A

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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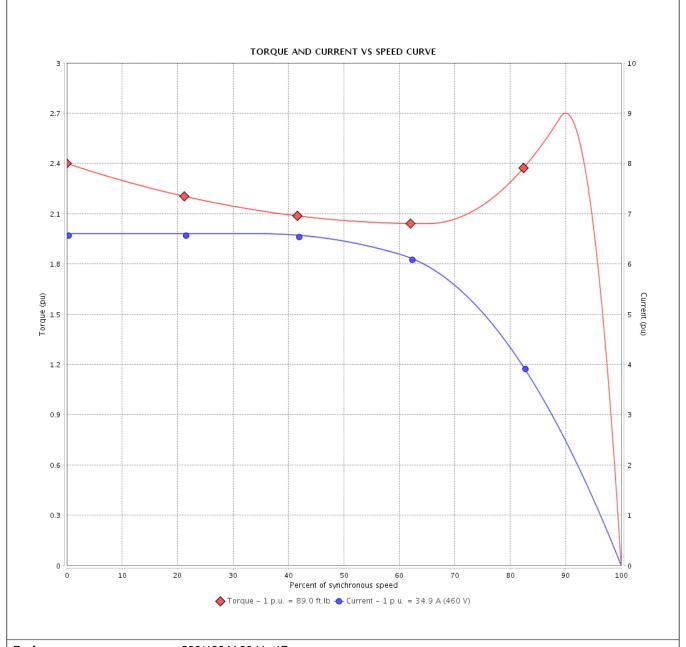
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484693

Catalog #: 03018OT3E286JM-W40



Performance : 230/460 V 60 Hz 4P Rated current : 69.8/34.9 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 89.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.25

Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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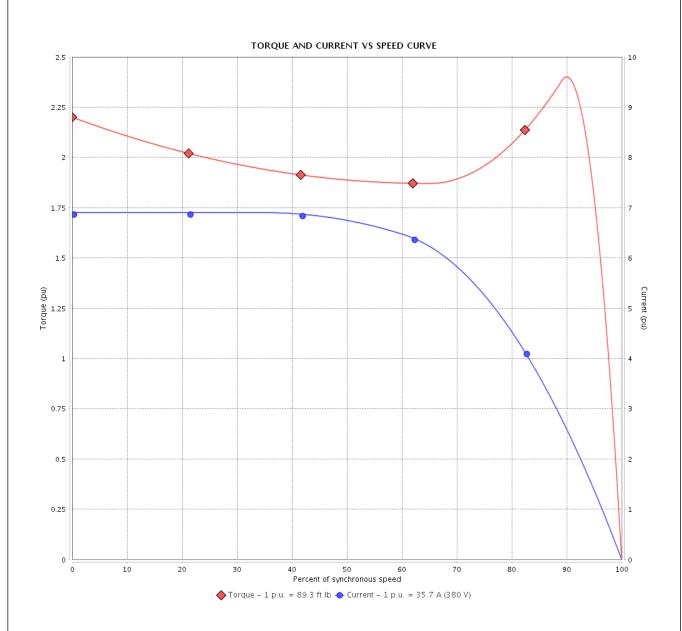
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium Product code: 14484693

Efficiency Three-Phase Catalog #: 03018OT3E286JM-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 35.7 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.3 ft.lb : F : 229 % : 1.00 Locked rotor torque Service factor : 240 % : 80 K Breakdown torque Temperature rise : B Rated speed : 1465 rpm Design Locked rotor time : 28s (cold) 16s (hot)

LOCKEU TOLOT LITTLE	. 20	os (cola) Tos (Hot)			
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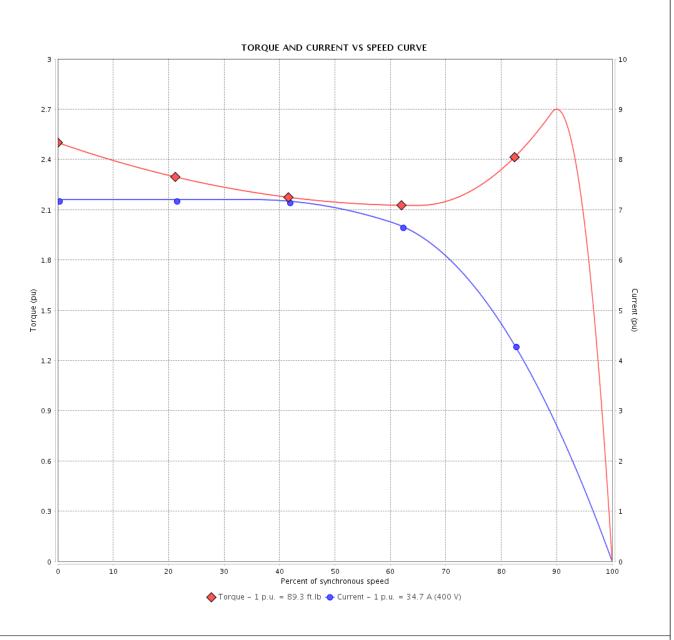
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484693

Catalog #: 03018OT3E286JM-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 34.7 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.3 ft.lb : F Service factor Locked rotor torque : 260 % : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

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

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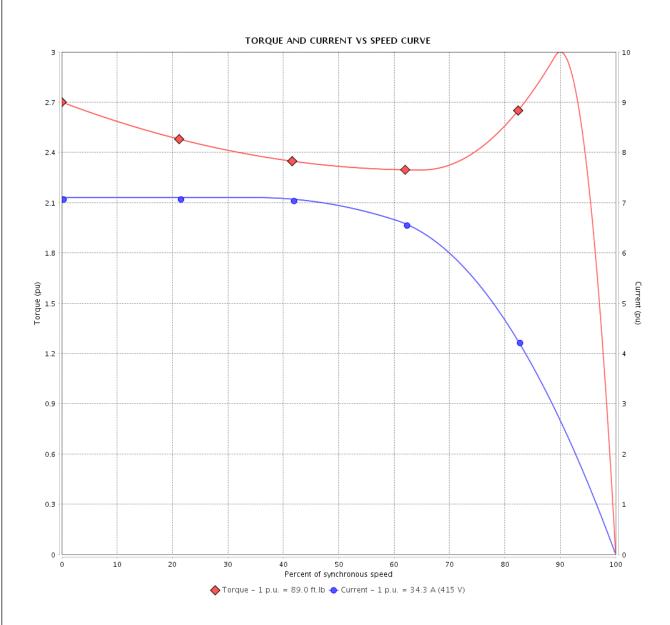
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484693

Catalog #: 03018OT3E286JM-W40



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 34.3 A	Moment of inertia (J)	: 4.52 sq.ft.lb	
LRC	: 7.1	Duty cycle	: Cont.(S1)	
Rated torque	: 89.0 ft.lb	Insulation class	:F	
Locked rotor torque	: 280 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1470 rpm	Design	: B	
Locked rotor time	: 30s (cold) 17s (hot)			

LOCKCU TOTOL TITLE		03 (cold) 173 (flot)			
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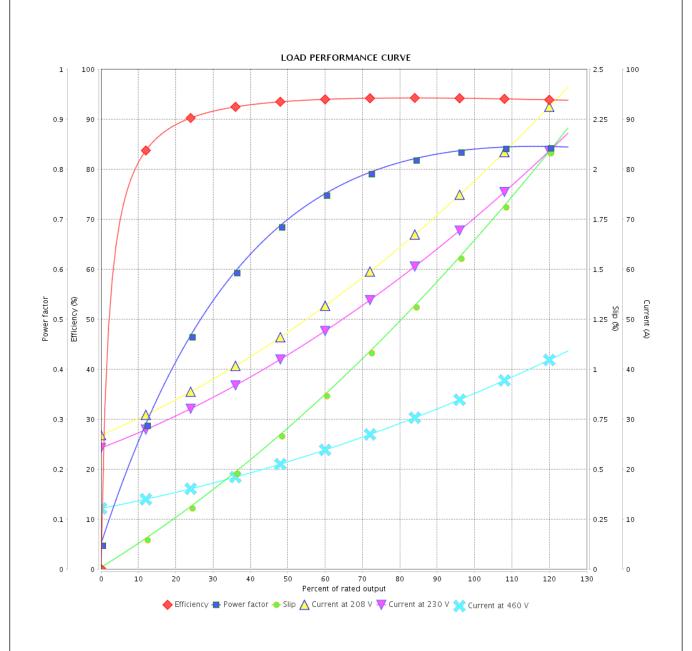
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484693

Catalog #: 03018OT3E286JM-W40



Performance : 230/460 V 60 Hz 4P Rated current : 69.8/34.9 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 89.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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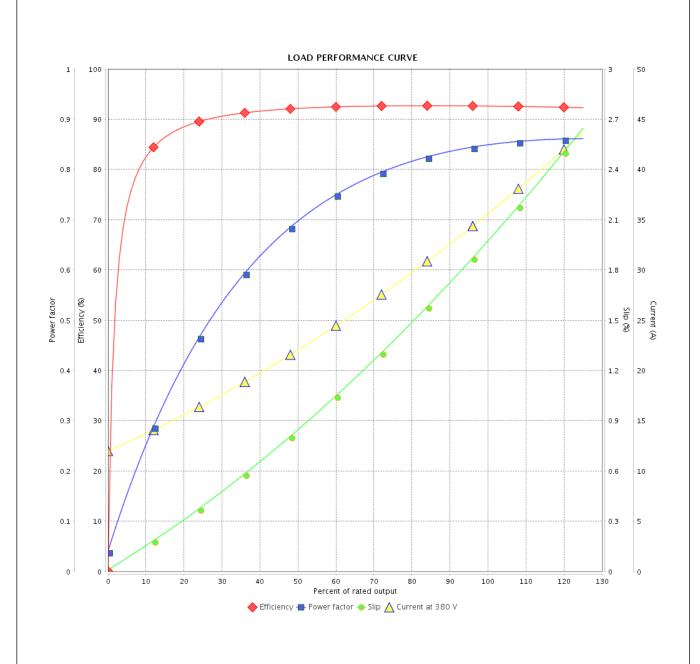
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484693

Catalog #: 03018OT3E286JM-W40

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.7 A : 6.9 : 89.3 ft.lb : 229 % : 240 % : 1465 rpm	Moment of inertia (J) : 4.52 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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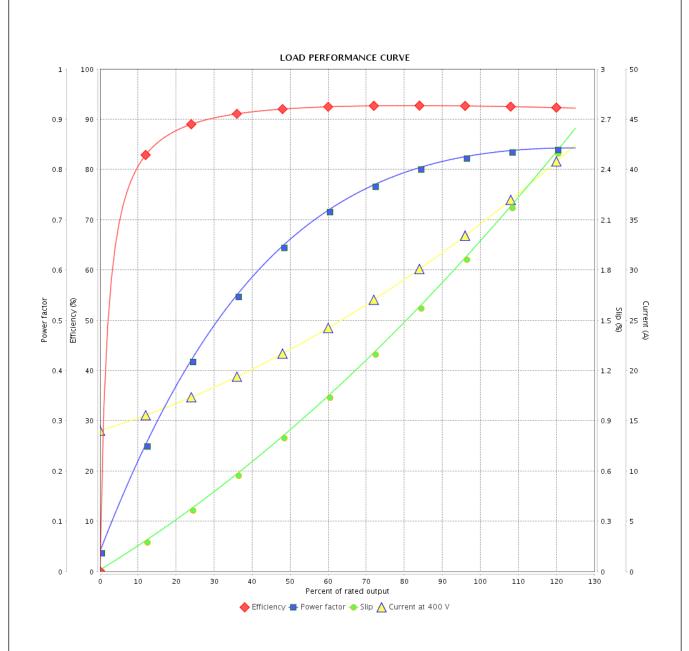
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484693

Catalog #: 03018OT3E286JM-W40



Performance : 400 V 50 Hz 4P IE3 : 34.7 A Rated current Moment of inertia (J) : 4.52 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 89.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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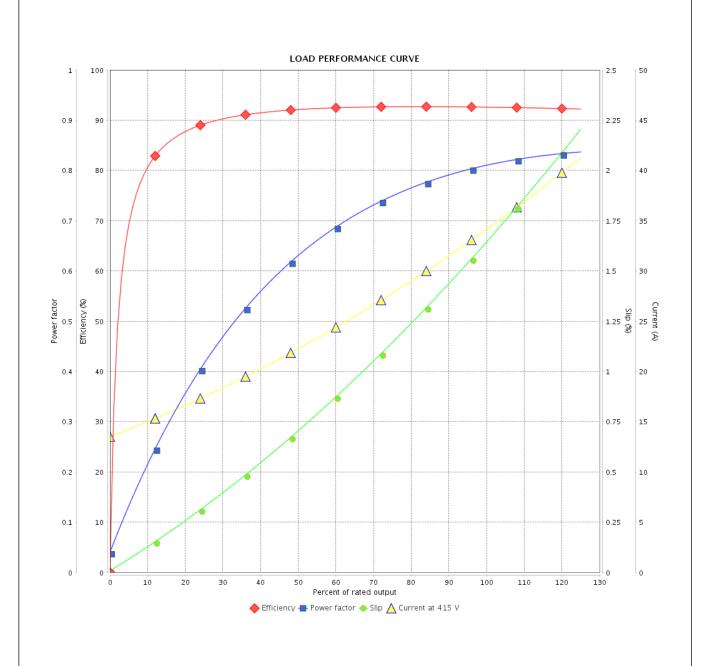
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484693

Catalog #: 03018OT3E286JM-W40



Performance	: 4	115 V 50 Hz 4P IE3				
Rated current	: 3	34.3 A	Moment o	f inertia (J)	: 4.52 sq.ft.lb	
LRC	: 7	7.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	39.0 ft.lb	Insulation	class	: F	
Locked rotor torque		280 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie :3	300 %	Temperati	Temperature rise		
Rated speed	: 1	470 rpm Design		: B		
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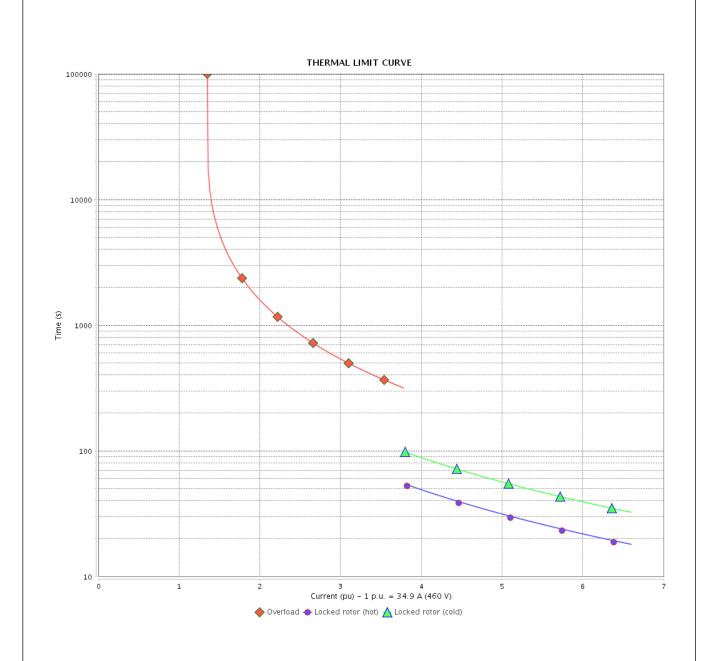


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Product line	: \ E1	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484693 03018OT3E2	86JM-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 69 : 6. : 89 ue : 28 e : 27	30/460 V 60 Hz 4P 9.8/34.9 A 6 9.0 ft.lb 30 % 70 % 765 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 4.52 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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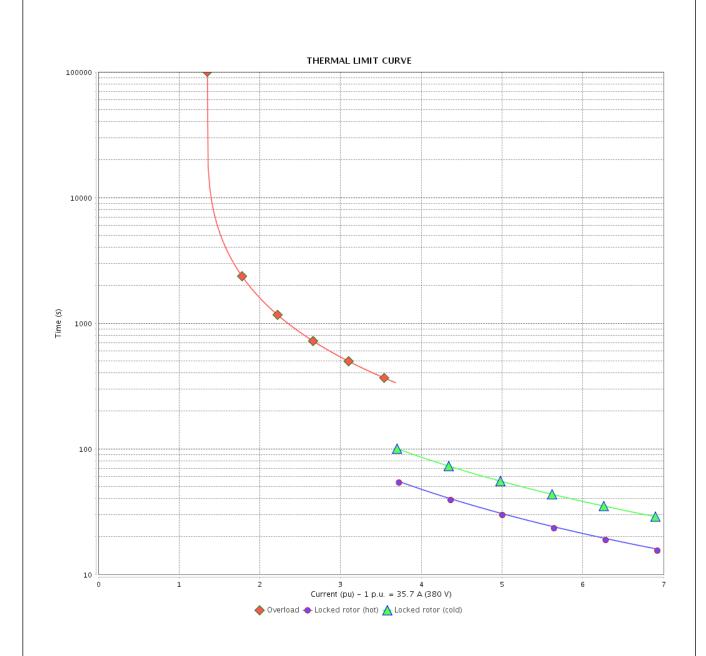


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Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase	nium	Product code :	14484693	
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5 (0001/5011 45150				
Performance Rated current		380 V 50 Hz 4P IE3 35.7 A	Moment	of inertia (J)	: 4.52 sq.ft.lb	
LRC	:	6.9	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torc		89.3 ft.lb 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		240 %	Temperati		: 80 K	
Rated speed		1465 rpm	Design		: B	
Heating constant						
Cooling constant	t					
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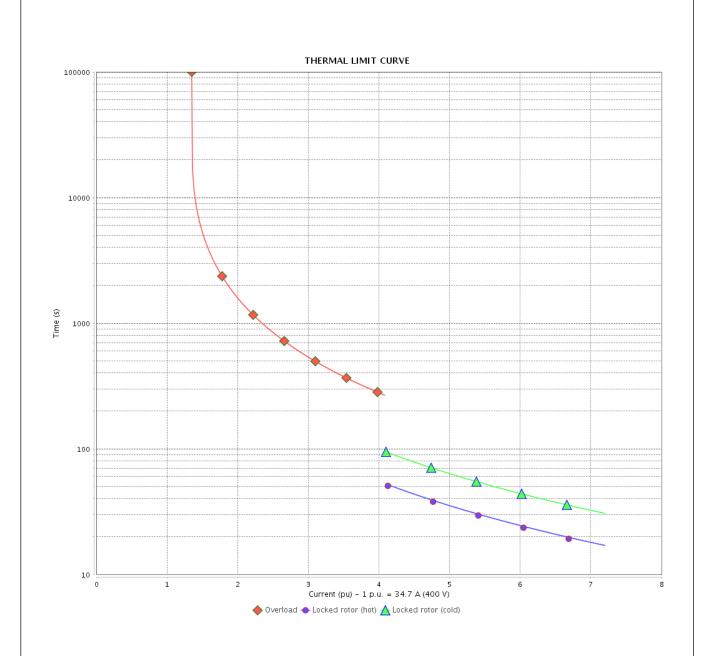


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Product line		: W40 JM Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14484693 03018OT3E28	36JM-W40
Performance		400 V 50 Hz 4P IE3				
Rated current		34.7 A	Moment o	f inertia (J)	: 4.52 sq.ft.lb	
LRC	:	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque		89.3 ft.lb 260 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		270 %	Temperati		: 1.00 : 80 K	
Rated speed		1470 rpm	Design		: B	
Heating constant						
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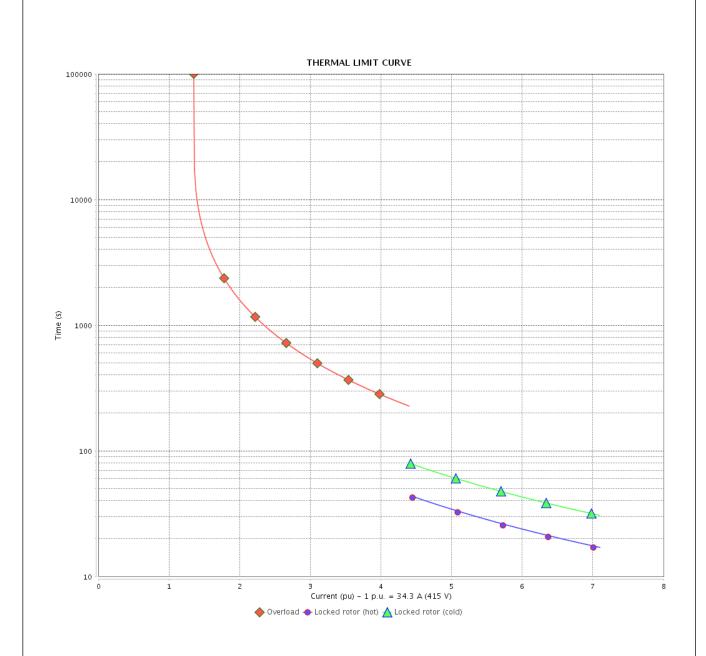


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Product line	: \ Et	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484693 03018OT3E2	86JM-W40
				catalog #:	03018013E2	86JM-VV4U
Performance Rated current LRC Rated torque	: 3 ⁴ : 7.	15 V 50 Hz 4P IE3 4.3 A 1 9.0 ft.lb	Moment of Duty cycle		: 4.52 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	ue : 28 e : 30 : 14	9.0 (1.16) 30 % 00 % 170 rpm	Service fac Temperatu Design	ctor	: 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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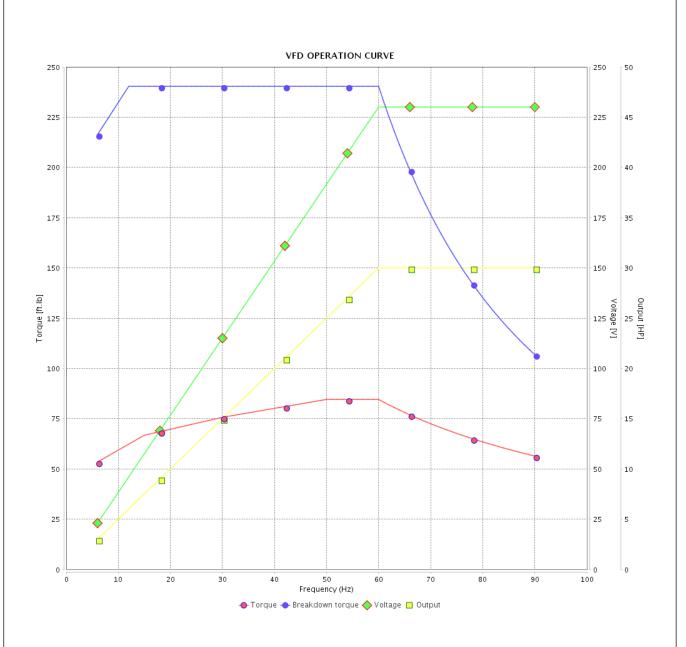
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484693

Catalog #: 03018OT3E286JM-W40



Performance : 230/460 V 60 Hz 4P Rated current : 69.8/34.9 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 89.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



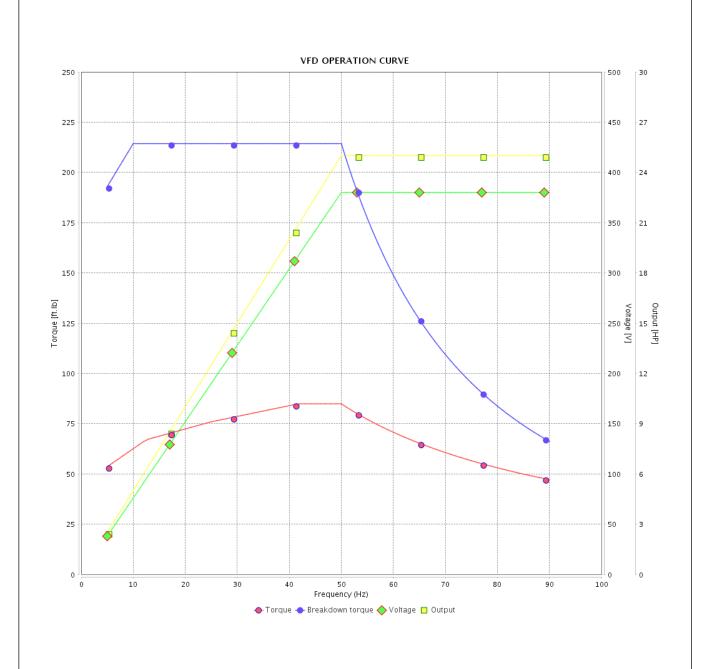
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Efficiency Three-Phase

Product code: 14484693

Catalog #: 03018OT3E286JM-W40



Performance : 38		80 V 50 Hz 4P IE3				
Rated current : 35.		5.7 A	Moment o	Moment of inertia (J)		
LRC : 6.9		.9	Duty cycle	Duty cycle		
Rated torque : 89		9.3 ft.lb	Insulation	Insulation class		
		29 %	Service fa	ctor	: 1.00	
Breakdown torque		40 %	Temperati	Temperature rise		
Rated speed	: 14	465 rpm	Design	Design : B		
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

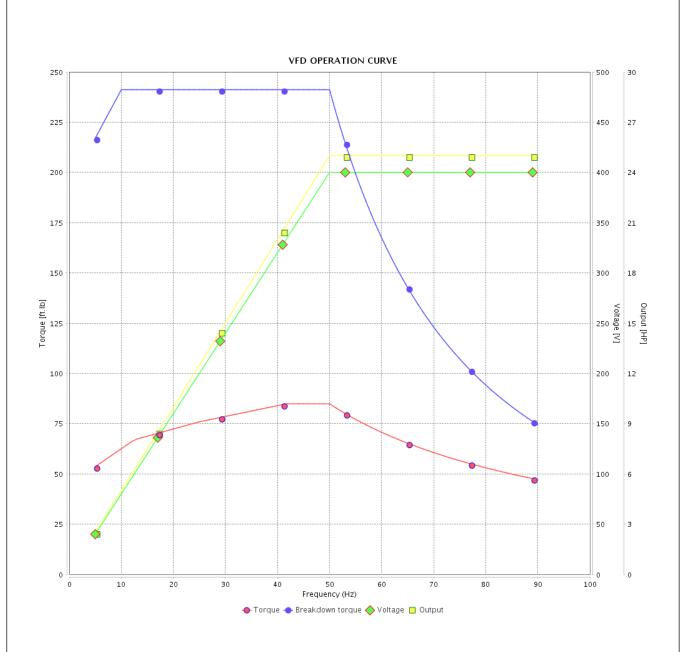
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Performance : 400 V 50 Hz 4P IE3 : 34.7 A Rated current Moment of inertia (J) : 4.52 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 89.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



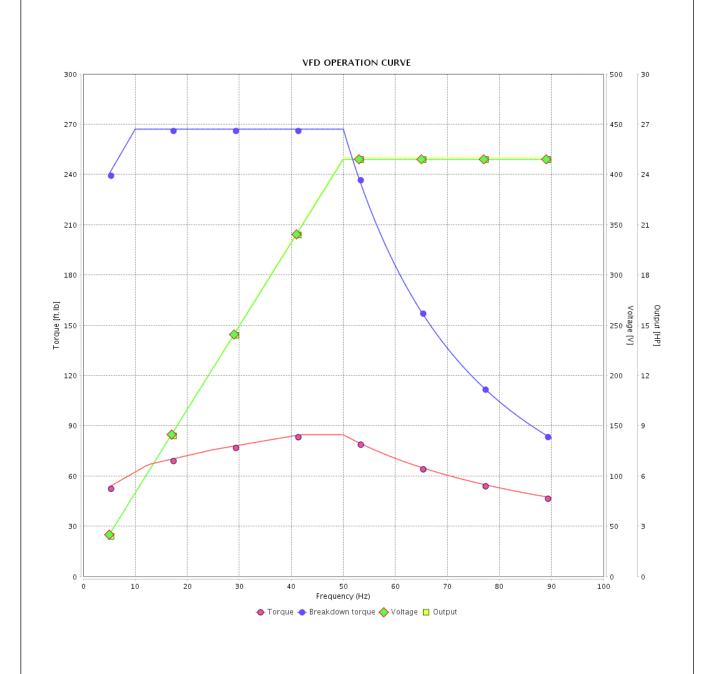
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484693

Catalog #: 03018OT3E286JM-W40



Performance : 415 V 50 Hz 4P IE		15 V 50 Hz 4P IE3				
Rated current : 34.		4.3 A	Moment o	Moment of inertia (J)		
LRC : 7.1		1	Duty cycle		: Cont.(S1)	
Rated torque : 8		9.0 ft.lb	Insulation class		: F ` ´	
•		30 %	Service factor		: 1.00	
Breakdown torque		00 %	Temperature rise		: 80 K	
Rated speed	: 14	170 rpm	Design		: B	
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