DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JP Pump NEMA Premium Product code: 14328038

Efficiency Three-Phase

Catalog #: 00212ET3E184JP-S

Frame : 182/4JP Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Starting method Ambient temperature : Direct On Line : 1000 m.a.s.l. Altitude Approx. weight³ : 76.1 lb

Ailliude		. 1000 III.a.S.I.	Approx. weight	. 70.1 10
Protection degree		: IP55	Moment of inertia (J)	: 0.3424 sq.ft.lb
Design		: B		
Output [HP]		2	2	2
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		6.00/3.00	7.00/3.50	6.49/3.44
L. R. Amperes [A]		45.0/22.5	42.7/21.3	43.5/23.0
LRC [A]		7.5x(Code K)	6.1x(Code H)	6.7x(Code J)
No load current [A]]	3.74/1.87	3.69/1.85	3.77/2.00
Rated speed [RPM]		1170	955	960
Slip [%]		2.50	4.50	4.00
Rated torque [ft.lb]		8.98	11.0	10.9
Locked rotor torqu	e [%]	260	210	250
Breakdown torque	[%]	370	280	320
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		79s (cold) 44s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		52.0 dB(A)	50.0 dB(A)	50.0 dB(A)
	25%	82.0	85.5	84.3
Efficiency (9/)	50%	84.0	85.3	84.5
Efficiency (%)	75%	86.5	86.4	86.3
	100%	88.5	85.7	86.1
	25%	0.28	0.33	0.30
Power Factor	50%	0.50	0.57	0.53
rowei racioi	75%	0.62	0.69	0.66
	100%	0.71	0.76	0.73

Non drive end Foundation loads **Drive** end

Bearing type 6207 ZZ 6205 ZZ Max. traction : 185 lb Sealing V'Ring V'Ring Max. compression : 262 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 6.63A SF 1.00 SFA 6.63A

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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



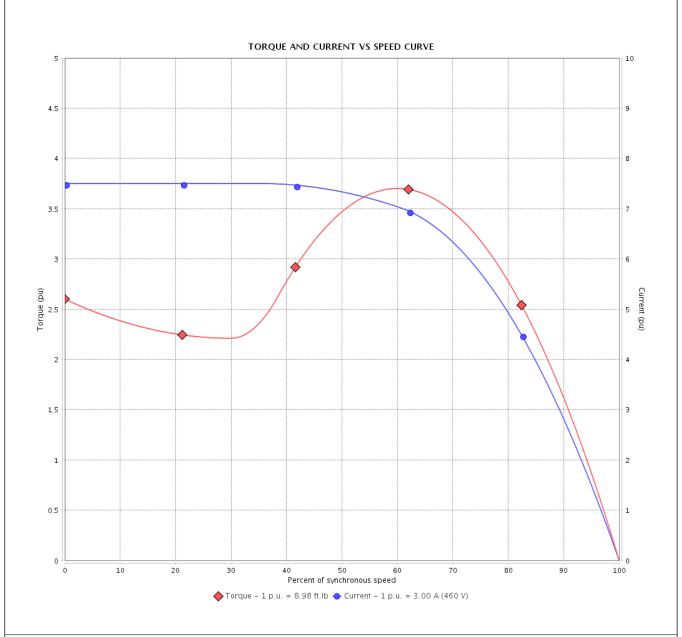
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328038

Catalog #: 00212ET3E184JP-S



Performance : 230/460 V 60 Hz 6P Rated current : 6.00/3.00 A Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : F : 8.98 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 260 % : 1.15 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 79s (cold) 44s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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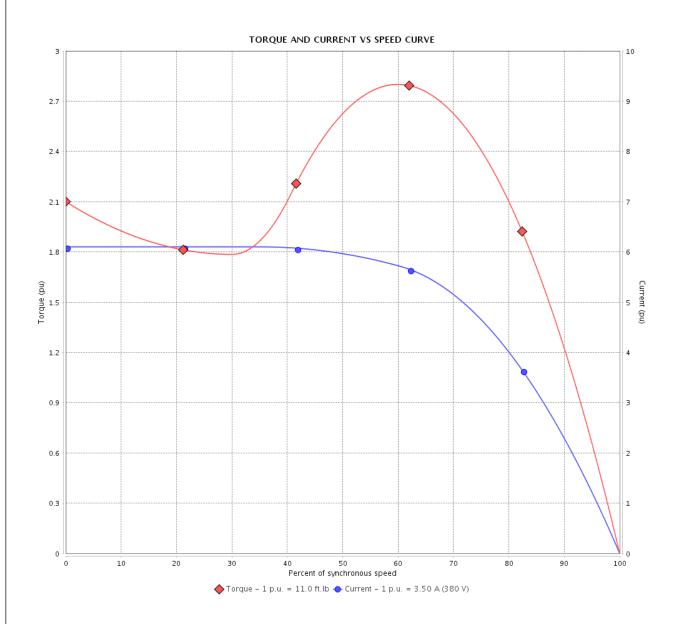


Customer :

Product line : JP Pump NEMA Premium Product code : 14328038

Efficiency Three-Phase

Catalog #: 00212ET3E184JP-S



Performance : 190/380 V 50 Hz 6P Rated current : 7.00/3.50 A Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 11.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K : B Rated speed : 955 rpm Design

Locked rotor time : 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



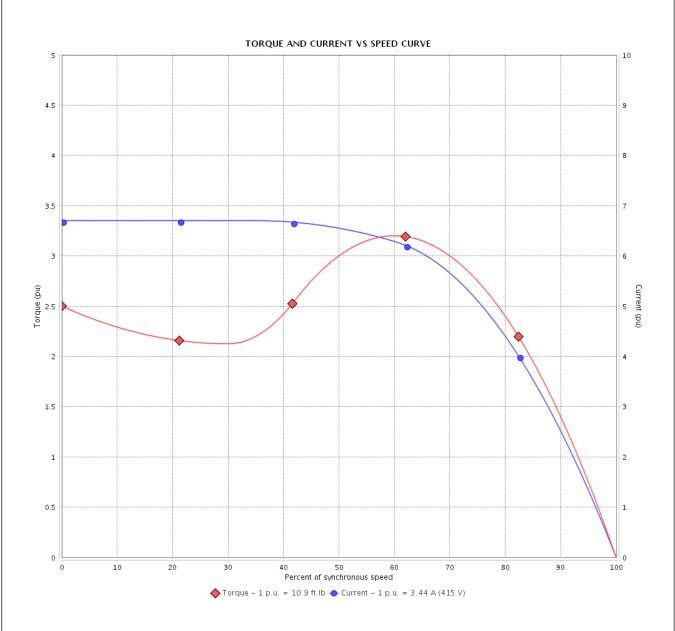
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328038

Catalog #: 00212ET3E184JP-S



Performance : 220/415 V 50 Hz 6P Rated current : 6.49/3.44 A Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 10.9 ft.lb Service factor Locked rotor torque : 250 % : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 960 rpm Design : B

Locked rotor time : 0s (cold) 0s (hot)

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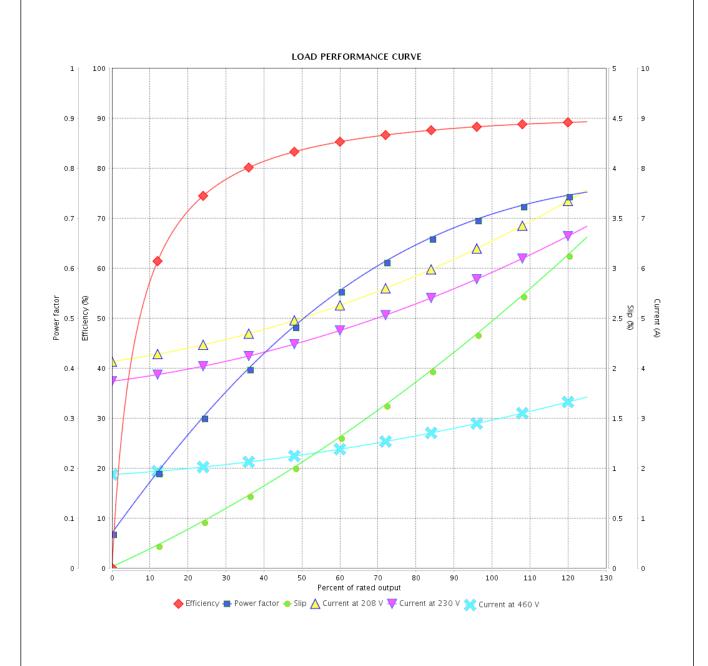
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

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Performance	:	230/460 V 60 Hz 6P				
Rated current	ated current : 6.00/3.00 A		Moment o	Moment of inertia (J)		.lb
LRC	:	7.5	Duty cycle	}	: Cont.(S1)	
Rated torque	:	8.98 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	260 %	Service factor		: 1.15	
Breakdown torque	:	370 %	Temperature rise		: 80 K	
Rated speed	:	1170 rpm	Design		: B	
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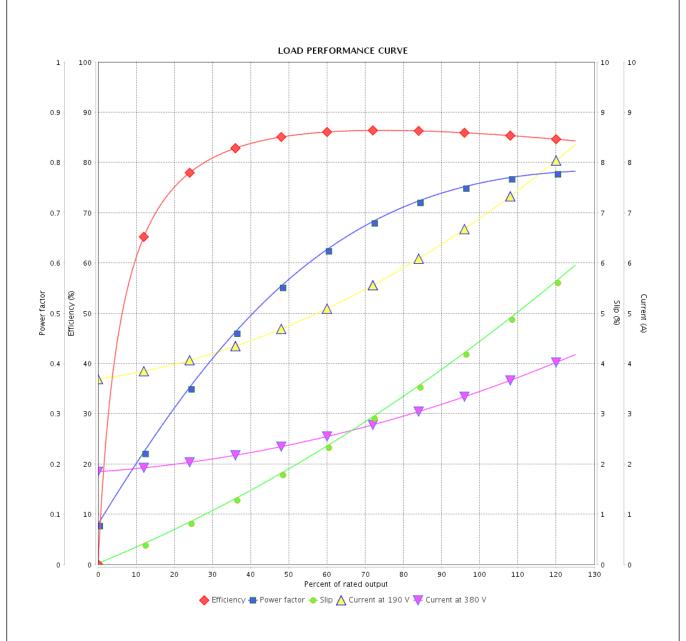
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328038

Catalog #: 00212ET3E184JP-S



Performance : 190/380 V 50 Hz 6P : 7.00/3.50 A Rated current Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 11.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 955 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



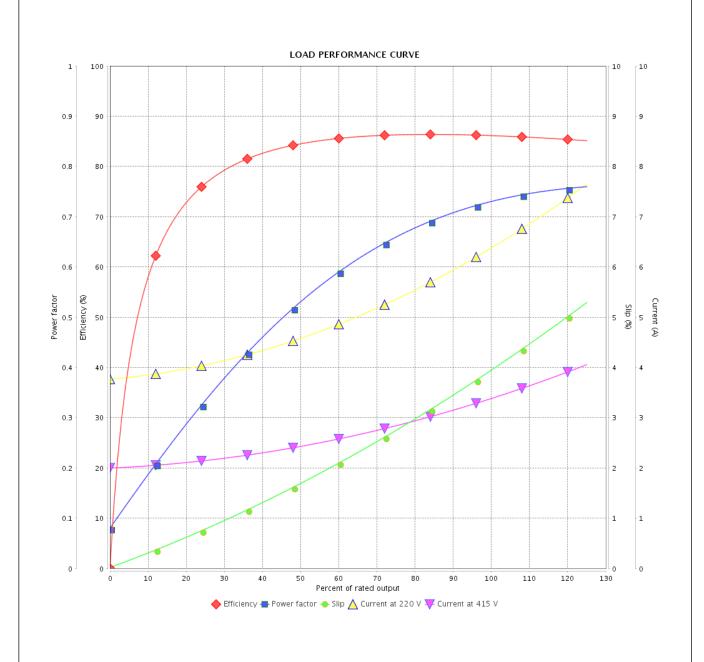
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328038

Catalog #: 00212ET3E184JP-S



Performance	formance : 220/415 V 50 Hz 6P					
Rated current	ated current : 6.49/3.44 A		Moment o	f inertia (J)	: 0.3424 sq.ft.lb	
LRC	:	6.7	Duty cycle	;	: Cont.(S1)	
Rated torque	:	10.9 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	250 %	Service factor		: 1.15	
Breakdown torque	:	320 %	Temperature rise		: 80 K	
Rated speed	:	960 rpm	Design		: B	
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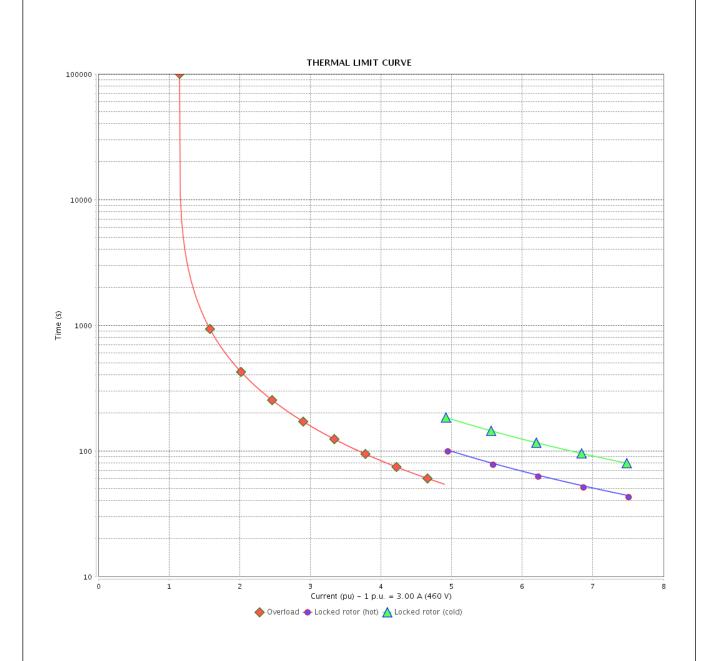


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Customer	:				
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product Catalog		14328038 00212ET3E184	JP-S
Performance	: 230/460 V 60 Hz 6P				
LRC Rated torque Locked rotor torque Breakdown torque	: 6.00/3.00 A : 7.5 : 8.98 ft.lb : 260 % : 370 % : 1170 rpm	Moment of inertia Duty cycle Insulation class Service factor Temperature rise Design	: : :	0.3424 sq.ft.lb Cont.(S1) F 1.15 80 K B	
Heating constant					
Cooling constant					
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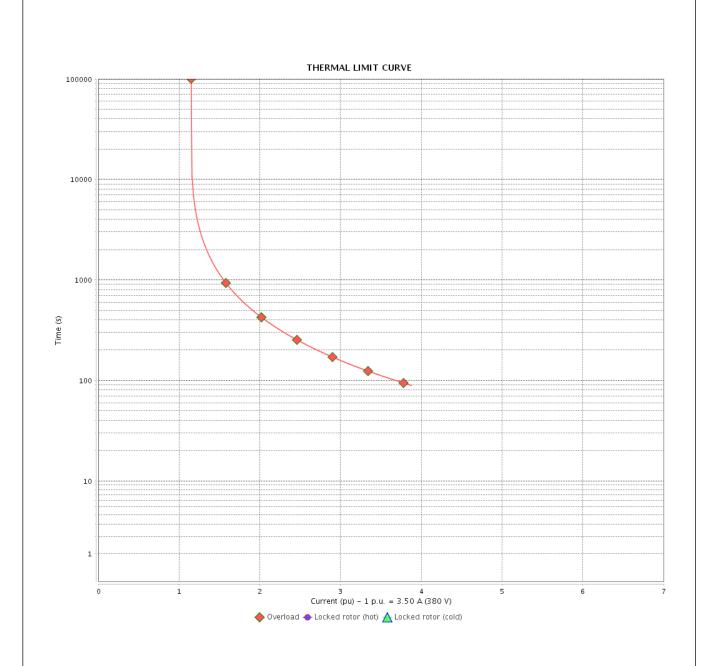


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14328038	
		Emoleticy Three-i hase		Catalog # :	00212ET3E1	84JP-S
Performance	:	190/380 V 50 Hz 6P				
Rated current		7.00/3.50 A	Moment c	of inertia (J)	: 0.3424 sq.ft.l	b
LRC Rated torque		6.1 11.0 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	210 %	Service fa		: 1.15	
Breakdown torqu	ue :	280 %	Temperat	ure rise	: 80 K	
Rated speed		955 rpm	Design		: B	
Heating constant						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
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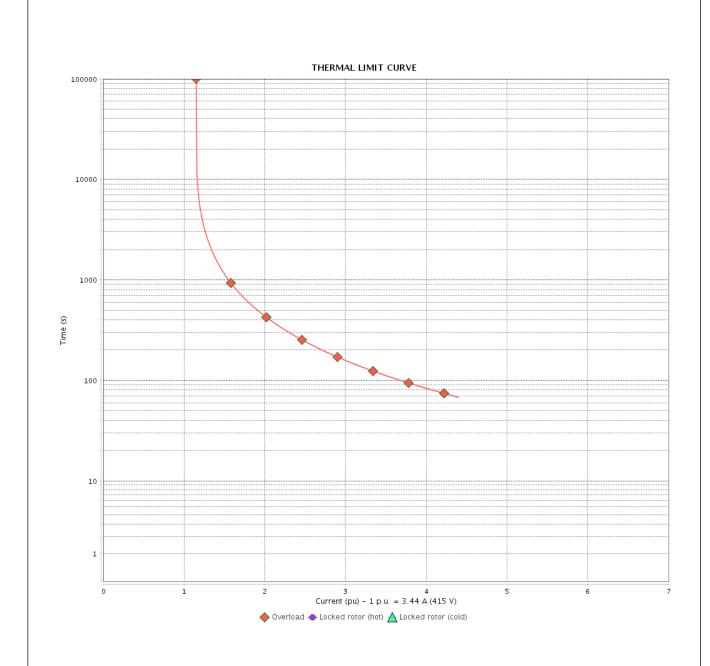


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Product line		JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14328038	
	_			Catalog # :	00212ET3E1	84JP-S
Performance Rated current		20/415 V 50 Hz 6P 3.49/3.44 A	Momento	f inertia (J)	: 0.3424 sq.ft.l	h
LRC	: 6	5.7	Duty cycle	•	: Cont.(S1)	b
Rated torque Locked rotor torc		0.9 ft.lb 50 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		20 %	Temperatu		: 80 K	
Rated speed		60 rpm	Design		: B	
Heating constant						
Cooling constant	<u>t</u>					
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



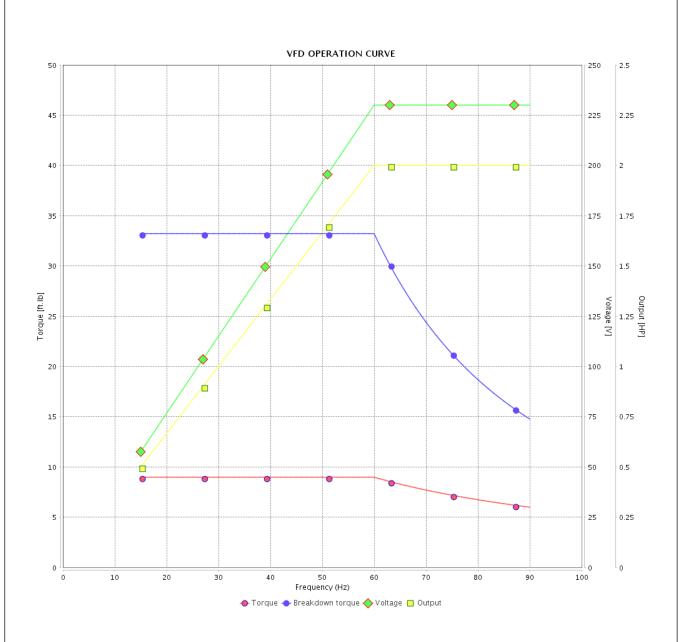
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328038

Catalog #: 00212ET3E184JP-S



Performance	. 2	30/460 V 60 Hz 6P	<u>. </u>				
renomiance	. 2	30/400 V 00 HZ 0F					
Rated current	: 6.00/3.00 A Moment of inertia (J)		f inertia (J)	: 0.3424 sq.ft.lb			
LRC	: 7	.5	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 8	.98 ft.lb	Insulation class		: F		
Locked rotor torq	ue : 2	60 %	Service fa	Service factor		: 1.15	
Breakdown torqu		70 %	Temperati	Temperature rise		: 80 K	
Rated speed		170 rpm	Design	•			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

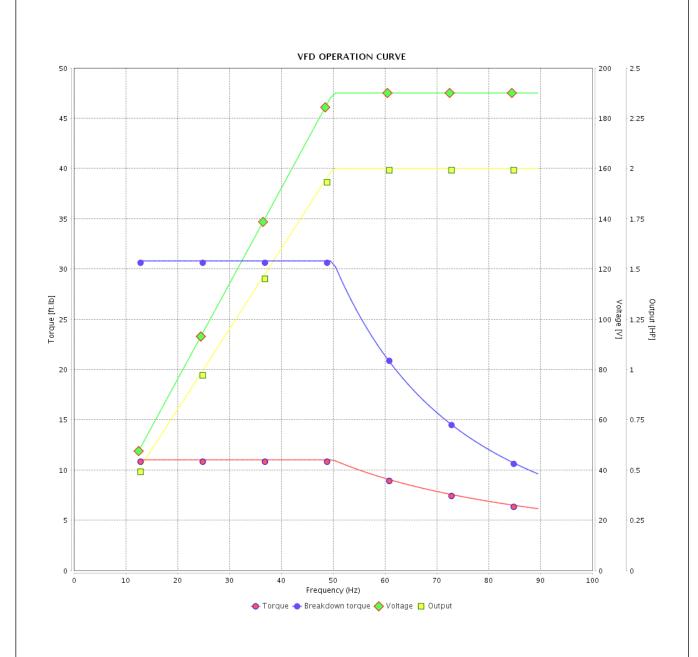
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Performance	: 190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.00/3.50 A : 6.1 : 11.0 ft.lb : 210 % : 280 % : 955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3424 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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VFD OPERATION CURVE

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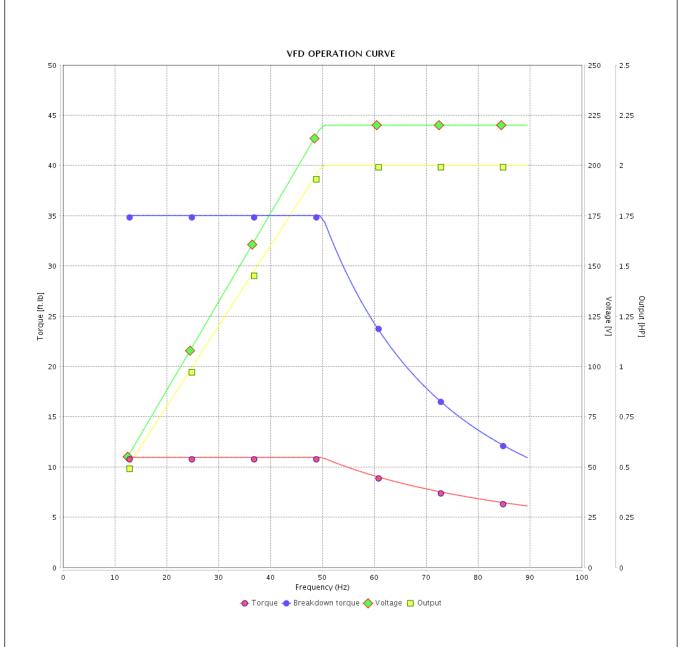
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Performance		: 220/415 V 50 Hz 6F	•			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 6.49/3.44 A : 6.7 : 10.9 ft.lb : 250 % : 320 % : 960 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 0.3424 sq.ft.I : Cont.(S1) : F : 1.15 : 80 K : B	b
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