DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JP Pump NEMA Premium Product code : 12682733

Efficiency Three-Phase

Catalog #: 00212OT3E184JP-S

Frame : 182/4JP Cooling method : IC01 - ODP Insulation class : F Mounting : F-1

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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 66.2 lb

Design		: B	Moment of inertia (J)	: 0.2800 sq.ft.lb
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]		5.90/2.95	6.96/3.48	6.41/3.40
L. R. Amperes [A]		38.9/19.5	35.5/17.7	36.6/19.4
LRC [A]		6.6x(Code J)	5.1x(Code G)	5.7x(Code H)
No load current [A	.]	3.42/1.71	3.37/1.69	3.50/1.86
Rated speed [RPI	Л]	1165	945	950
Slip [%]		2.92	5.50	5.00
Rated torque [ft.lb]		9.02	11.1	11.1
Locked rotor torque [%]		200	160	190
Breakdown torque	: [%]	300	220	250
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		59s (cold) 33s (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%	84.4	86.1	84.6
Efficiency (%)	50%	85.5	84.8	84.0
Lindicity (70)	75%	86.5	84.9	85.0
	100%	87.5	83.0	83.8
	25%	0.30	0.36	0.32
Power Factor	50%	0.53	0.61	0.56
1 OWELL ACTOR	75%	0.66	0.73	0.69
	100%	0.73	0.79	0.76

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6207 ZZ 6205 ZZ Max. traction : 143 lb Sealing : Without Without Max. compression : 209 lb

Bearing Seal Bearing Seal

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 6.52A SF 1.00 SFA 6.52A

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.

(4) / 11 100 /0 01 10	iii load.				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



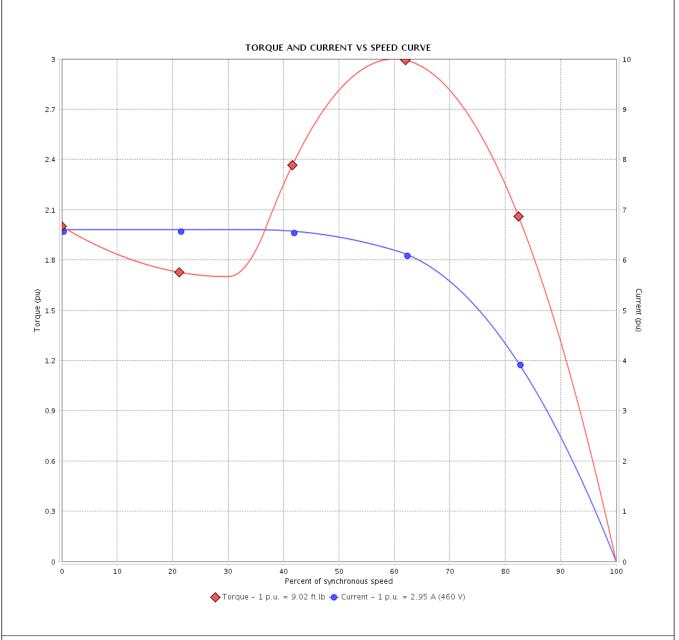
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682733

Catalog #: 00212OT3E184JP-S



Performance : 230/460 V 60 Hz 6P Rated current : 5.90/2.95 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : F : 9.02 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 200 % Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1165 rpm Design : B

Locked rotor time : 59s (cold) 33s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



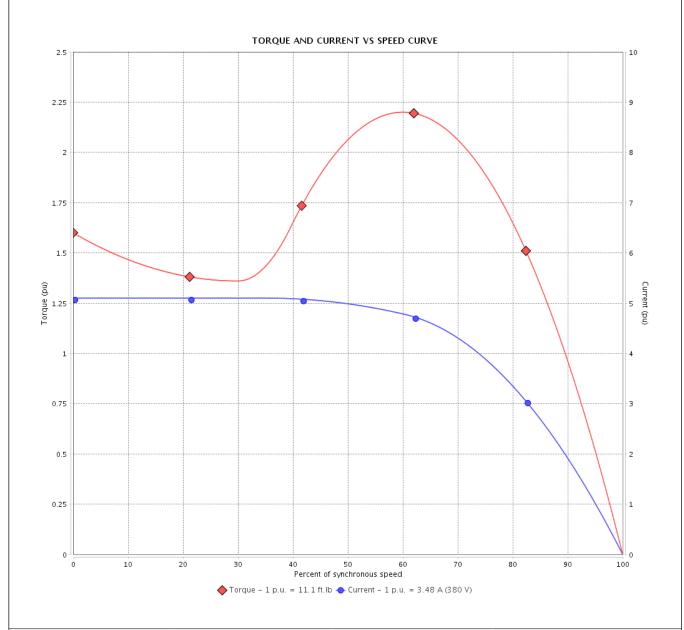
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682733

Catalog #: 00212OT3E184JP-S



Performance : 190/380 V 50 Hz 6P Rated current : 6.96/3.48 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 11.1 ft.lb : 1.00 Locked rotor torque : 160 % Service factor Breakdown torque : 220 % Temperature rise : 105 K : B Rated speed : 945 rpm Design

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			3 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

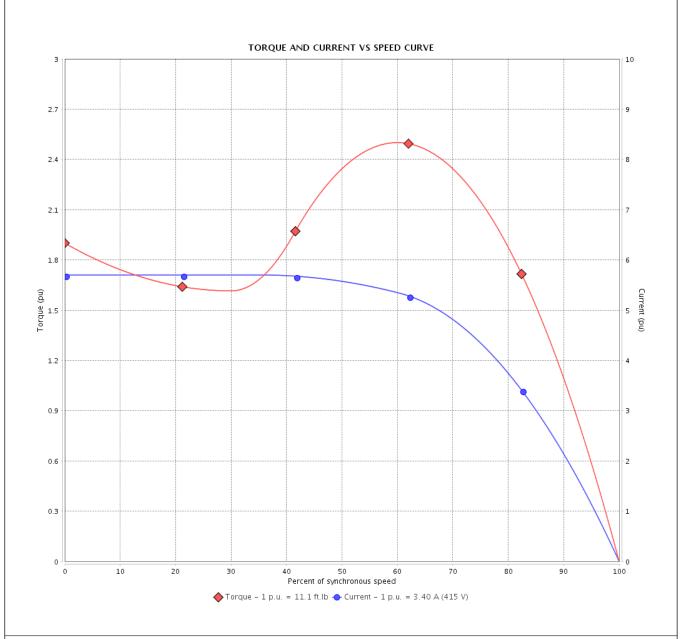


Customer :

Product line : JP Pump NEMA Premium Product code : 12682733

Efficiency Three-Phase

Catalog #: 00212OT3E184JP-S



Performance : 220/415 V 50 Hz 6P Rated current : 6.41/3.40 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 11.1 ft.lb Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 950 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



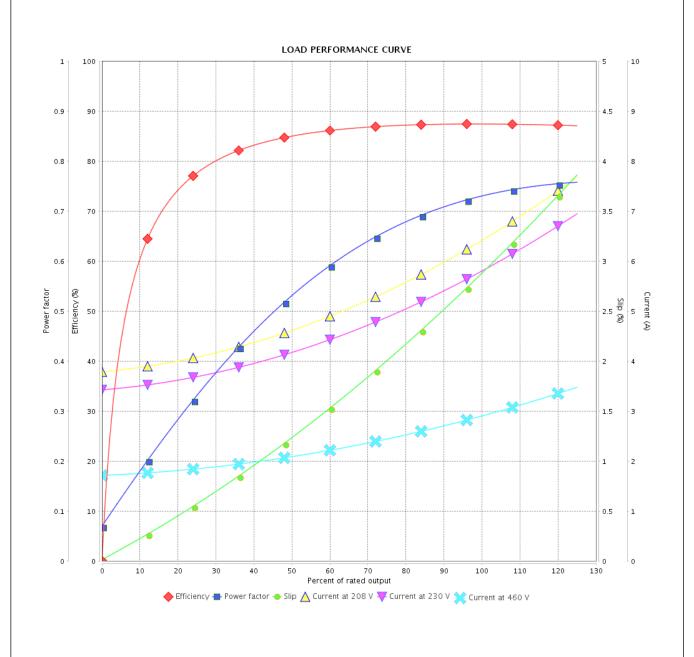
Customer

Product line : JP Pump NEMA Premium Pr

Efficiency Three-Phase

Product code: 12682733

Catalog #: 00212OT3E184JP-S



Performance	:	230/460 V 60 Hz 6P				
Rated current	:	5.90/2.95 A	Moment o	f inertia (J)	: 0.2800 sq.ft.l	b
LRC	:	6.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	9.02 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.15	
Breakdown torque	:	300 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1165 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				5 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

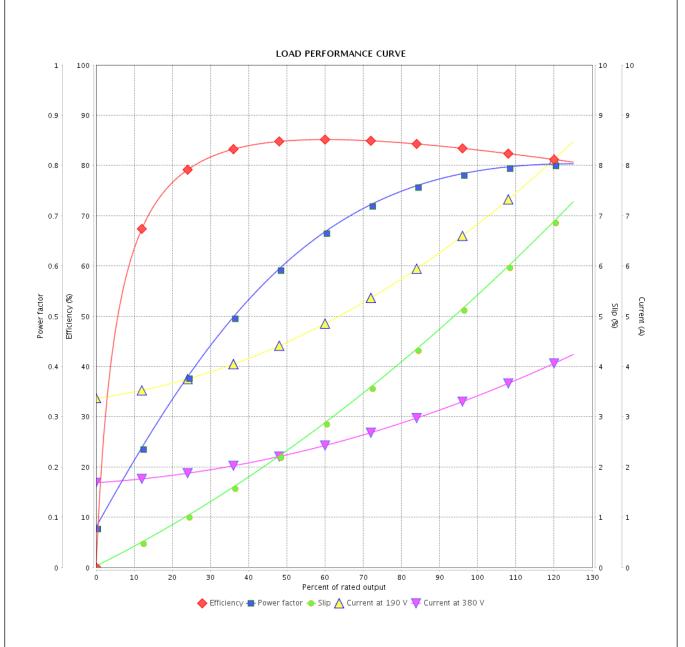
14/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682733

Catalog #: 00212OT3E184JP-S



: 1	90/380 V 50 Hz 6P				
: 5 : 1 ue : 1 e : 2	.1 1.1 ft.lb 60 % 20 %	Duty cycle Insulation Service fa	class ctor	: 0.2800 sq.ft.ll : Cont.(S1) : F : 1.00 : 105 K : B	o
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	: 6 : 5 : 1 ue : 1 e : 2	e : 220 % : 945 rpm	: 6.96/3.48 A Moment o : 5.1 Duty cycle : 11.1 ft.lb Insulation ue : 160 % Service fa e : 220 % Temperatu : 945 rpm Design	: 6.96/3.48 A Moment of inertia (J) : 5.1 Duty cycle : 11.1 ft.lb Insulation class ue : 160 % Service factor e : 220 % Temperature rise : 945 rpm Design	: 6.96/3.48 A Moment of inertia (J) : 0.2800 sq.ft.ll : 5.1 Duty cycle : Cont.(S1) : 11.1 ft.lb Insulation class : F ue : 160 % Service factor : 1.00 e : 220 % Temperature rise : 105 K : 945 rpm Design : B

Page

6/16

Revision

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



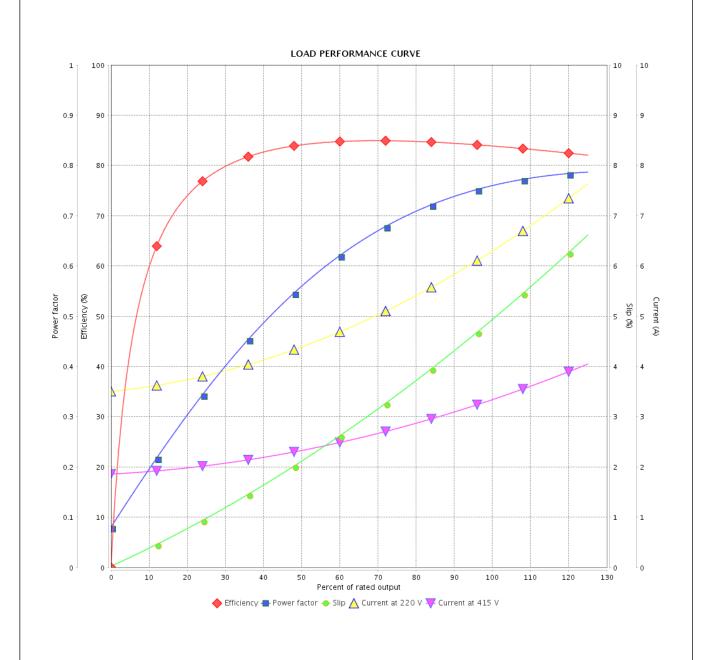
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682733

Catalog #: 00212OT3E184JP-S



Performance	: 2	20/415 V 50 Hz 6P				
Rated current	: 6	.41/3.40 A	Moment of	of inertia (J)	: 0.2800 sq.ft.	.lb
LRC	: 5	.7	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 1	1.1 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	90 %	Service fa	actor	: 1.00	
Breakdown torqu	e : 2	50 %	Temperat	ure rise	: 80 K	
Rated speed	: 9	50 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				7 / 16	

Three Phase Induction Motor - Squirrel Cage

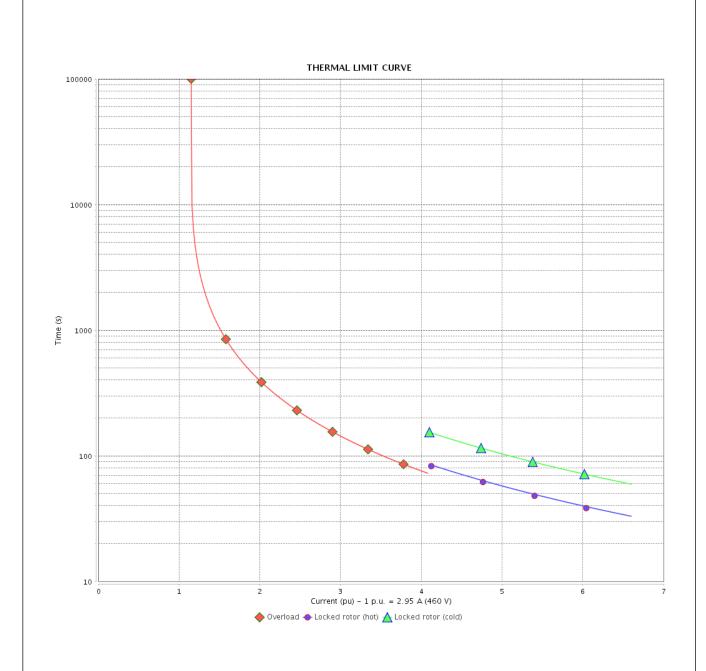


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12682733	
		Elliciency Three-Friase		Catalog # :	00212OT3E1	84JP-S
Performance		230/460 V 60 Hz 6P				
Rated current		5.90/2.95 A	Moment o	of inertia (J)	: 0.2800 sq.ft.l	b
LRC		6.6	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		9.02 ft.lb 200 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		300 %	Temperati		: 80 K	
Rated speed		1165 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Dorformadh						
Performed by					Dogo	Revision
Checked by	14/04/2022	_			Page 8 / 16	Kevision

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			9/16	

Three Phase Induction Motor - Squirrel Cage

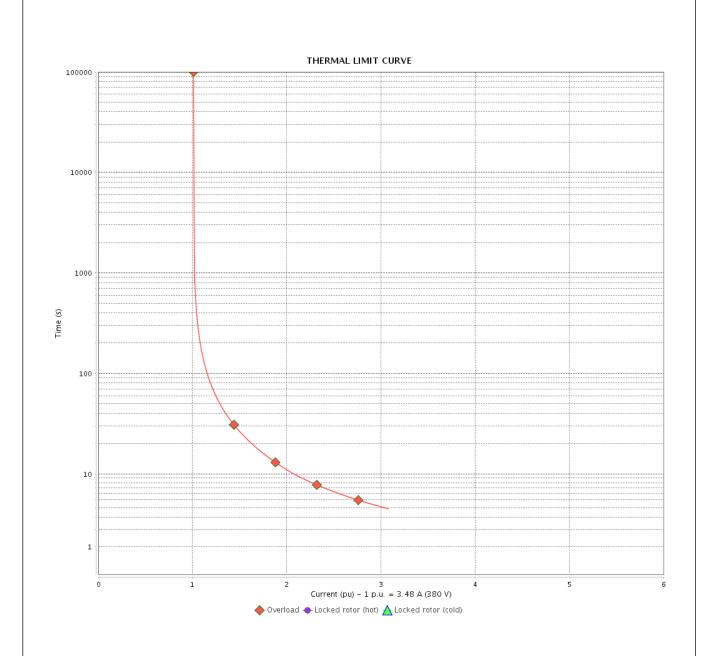


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12682733	
		Elliciency Three-Friase		Catalog # :	00212OT3E1	84JP-S
Performance		: 190/380 V 50 Hz 6P			,	
Rated current		: 6.96/3.48 A	Moment o	of inertia (J)	: 0.2800 sq.ft.l	b
LRC Rated torque		: 5.1 : 11.1 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 160 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 220 % : 945 rpm	Temperati Design	ure rise	: 105 K : B	
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Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
		- · ·				
Performed by						
Checked by					Page	Revision
Date	14/04/2022				10 / 16	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	14/04/2022			11 / 16	

Three Phase Induction Motor - Squirrel Cage

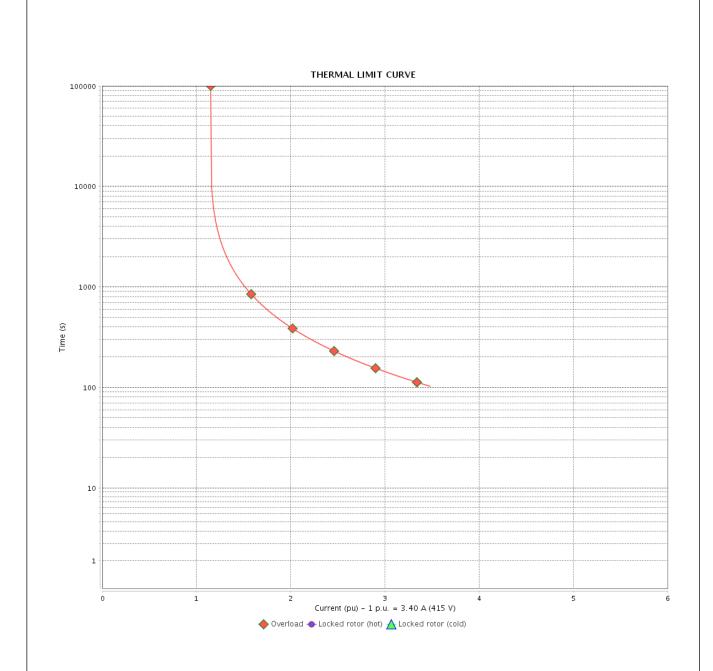


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase	Product code :		12682733	
		Lindency Three-Friase		Catalog # :	00212OT3E184JP-S	
Performance	:	: 220/415 V 50 Hz 6P				
Rated current		: 6.41/3.40 A	Moment o	of inertia (J)	: 0.2800 sq.ft.l	b
LRC Rated torque		: 5.7 : 11.1 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	que :	: 190 %	Service fa		. F : 1.00	
Breakdown torque : 250 %		Temperature rise		: 80 K		
Rated speed		: 950 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	14/04/2022				12 / 16	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			13 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

14 / 16

Customer

Checked by

Date

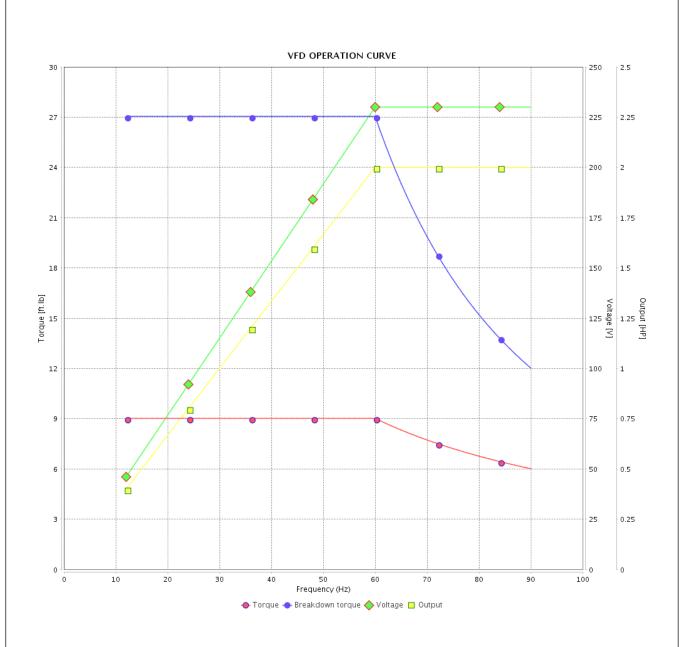
14/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682733

Catalog #: 00212OT3E184JP-S



Performance : 230/460 V 60 Hz 6P Rated current : 5.90/2.95 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 9.02 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1165 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



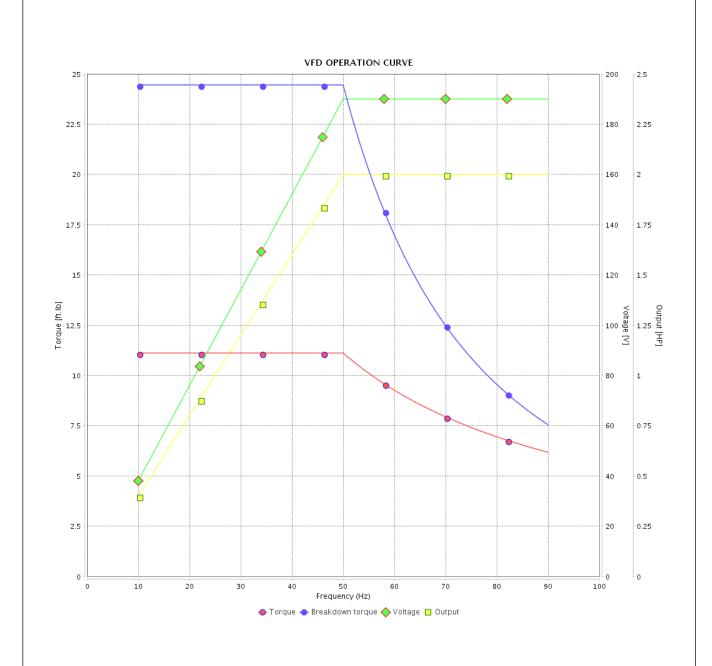
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682733

Catalog #: 002120T3E184JP-S



Performance	: 190/380 V 50 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.96/3.48 A : 5.1 : 11.1 ft.lb : 160 % : 220 % : 945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2800 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

15 / 16

14/04/2022

Date

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

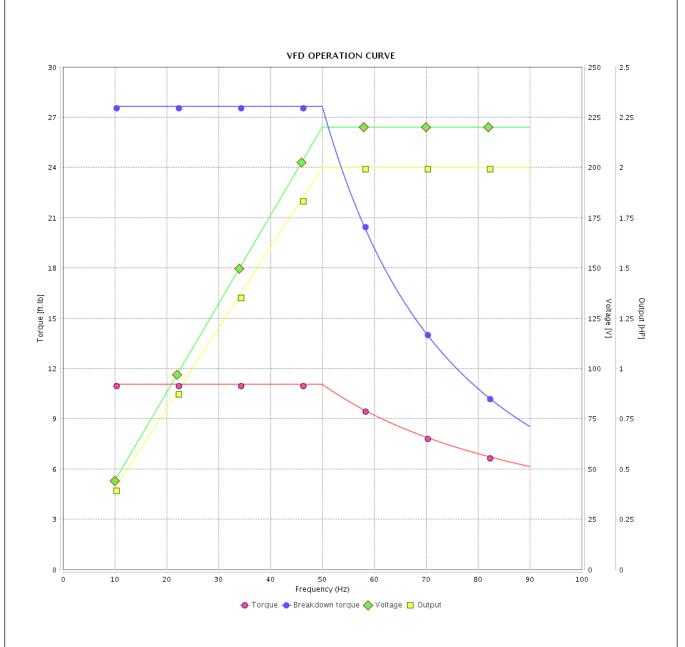
14/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682733

Catalog #: 00212OT3E184JP-S



Performance	: 22	20/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 11 jue : 19 ie : 29	.41/3.40 A .7 1.1 ft.lb 90 % 50 % 50 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2800 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						

Page

16 / 16

Revision

