DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JP Pump NEMA Premium Product code : 12682735

Efficiency Three-Phase

Catalog #: 00512OT3E215JP-S

Frame : 213/5JP 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 : 140 lb

Altitude : 1000 m.a.s.l. Approx. weight : 140 l
Design : B Moment of inertia (J) : 1.08

Design		: B	Moment of inertia (J)	: 1.08 sq.ft.lb
Output [HP]		5	5	5
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		13.5/6.74	16.3/8.16	14.8/7.86
L. R. Amperes [A]		79.5/39.8	73.4/36.7	74.1/39.3
LRC [A]		5.9x(Code H)	4.5x(Code E)	5.0x(Code F)
No load current [A	']	7.10/3.55	7.00/3.50	7.21/3.82
Rated speed [RPI	/ 1]	1175	960	965
Slip [%]		2.08	4.00	3.50
Rated torque [ft.lb]		22.3	27.4	27.2
Locked rotor torqu	ıe [%]	220	160	190
Breakdown torque	: [%]	250	190	210
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		52s (cold) 29s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%	88.3	89.2	88.0
Efficiency (%)	50%	88.5	87.5	87.0
Emclericy (%)	75%	89.5	87.2	87.4
	100%	89.5	85.1	86.0
	25%	0.34	0.40	0.36
Power Factor	50%	0.58	0.66	0.61
Power Factor	75%	0.70	0.76	0.73

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

0.77

Bearing type : 6209 ZZ 6206 ZZ Max. traction : 252 lb Sealing : Without Without Max. compression : 392 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 14.9A SF 1.00 SFA 14.9A

100%

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.

0.79

0.81

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



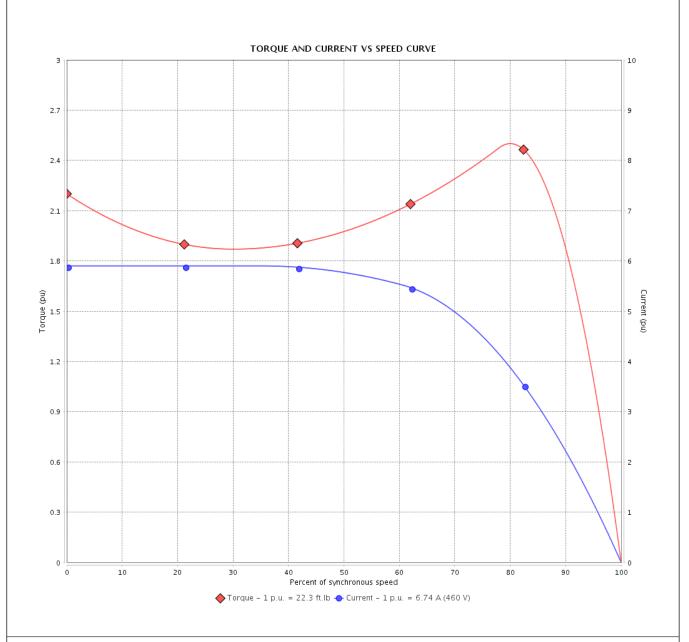
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682735

Catalog #: 00512OT3E215JP-S



 Performance
 : 230/460 V 60 Hz 6P

 Rated current
 : 13.5/6.74 A
 Moment of inertia (J)
 : 1.08 sq.ft.lb

 LRC
 : 5.9
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 22.3 ft.lb
 Insulation class
 : F

Locked rotor torque: 220 %Service factor: 1.15Breakdown torque: 250 %Temperature rise: 80 KRated speed: 1175 rpmDesign: B

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

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TORQUE AND CURRENT VS SPEED CURVE



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Three Phase Induction Motor - Squirrel Cage Customer Product line : JP Pump NEMA Premium Product code: 12682735 Efficiency Three-Phase Catalog #: 00512OT3E215JP-S TORQUE AND CURRENT VS SPEED CURVE 4.5 1.8 3.5 1.4 1.2 Torque (pu) 0.8 0.4 0.2 Percent of synchronous speed ◆ Torque - 1 p.u. = 27.4 ft.lb ◆ Current - 1 p.u. = 8.16 A (380 V) Performance : 190/380 V 50 Hz 6P Rated current : 16.3/8.16 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 4.5 Duty cycle : Cont.(S1) : 27.4 ft.lb Insulation class Rated torque : F : 160 % Locked rotor torque Service factor : 1.15 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 960 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Date Rev. **Changes Summary** Performed Checked

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



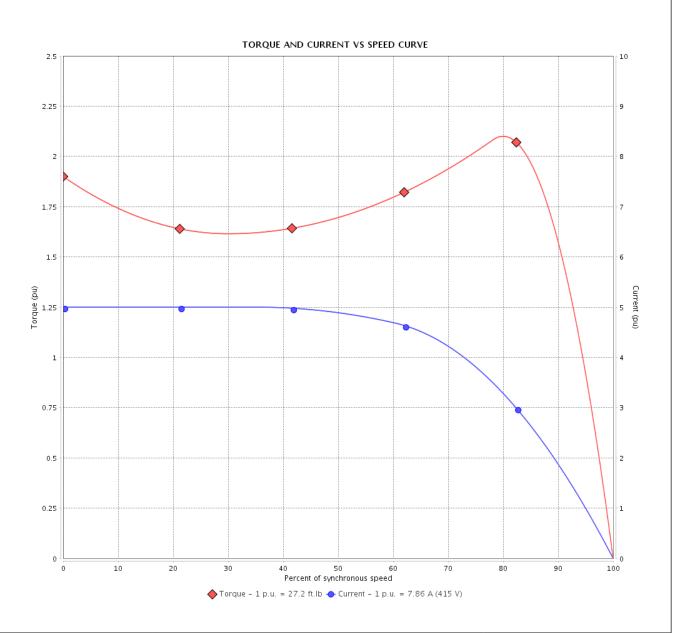
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682735

Catalog #: 00512OT3E215JP-S



Performance : 220/415 V 50 Hz 6P Rated current : 14.8/7.86 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 27.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 965 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



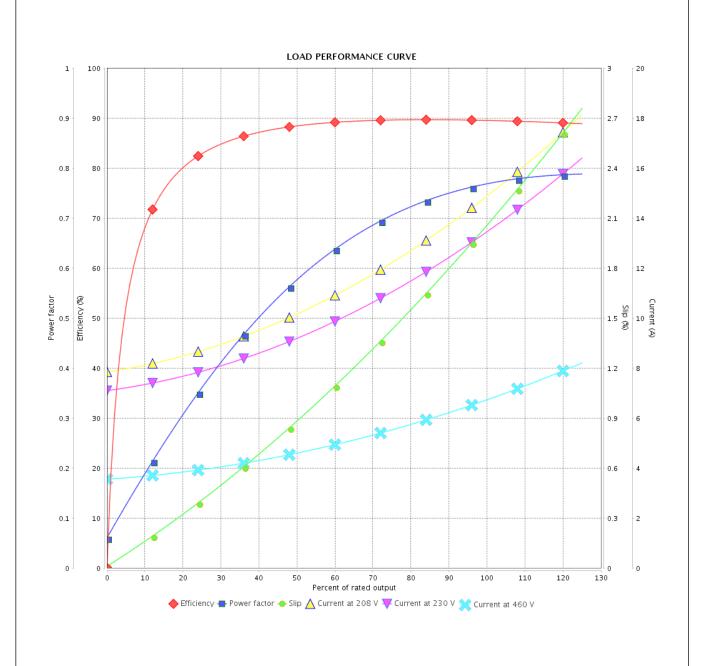
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682735

Catalog #: 00512OT3E215JP-S



Performance	:	230/460 V 60 Hz 6P				
Rated current	:	13.5/6.74 A	Moment o	f inertia (J)	: 1.08 sq.ft.lb	
LRC	:	5.9	Duty cycle)	: Cont.(S1)	
Rated torque	:	22.3 ft.lb	Insulation	class	:F	
Locked rotor torque		220 %	Service fa	ctor	: 1.15	
Breakdown torque	:	250 %	Temperature rise		: 80 K	
Rated speed	:	1175 rpm	Design		: B	
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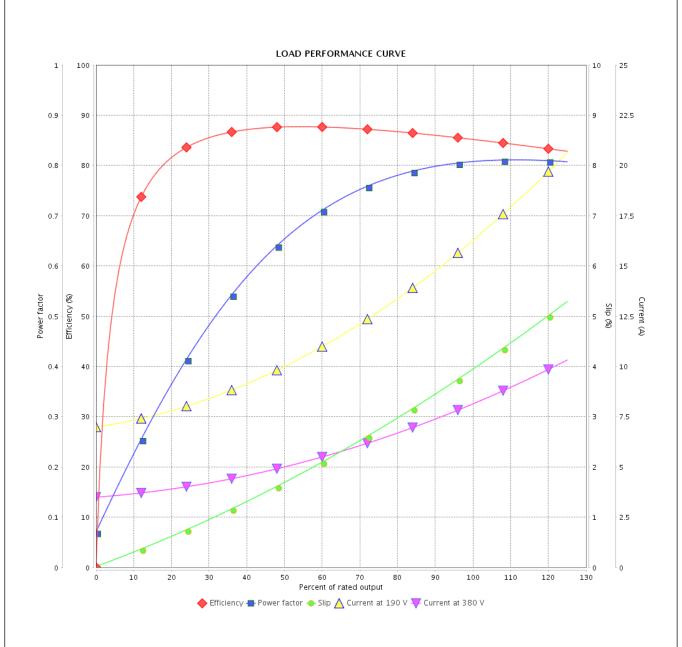
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682735

Catalog #: 00512OT3E215JP-S



Performance	: 190/380 V 50 Hz 6F	•			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 16.3/8.16 A : 4.5 : 27.4 ft.lb : 160 % : 190 % : 960 rpm	Moment of Duty cycle Insulation Service for Temperate Design	class actor	: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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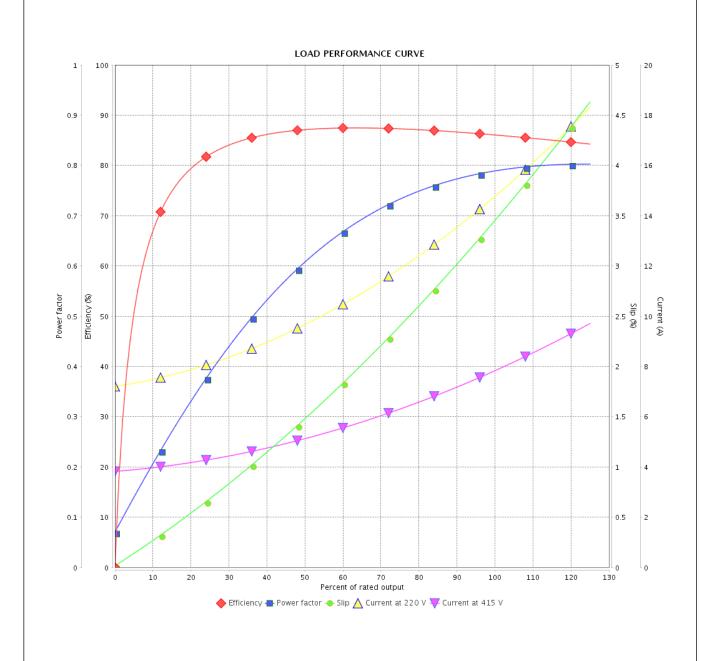
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682735

Catalog #: 00512OT3E215JP-S



Performance	: 2	20/415 V 50 Hz 6P					
Rated current	Rated current : 14.8/7.86 A		Moment of	f inertia (J)	: 1.08 sq.ft.lb		
LRC	: 5	5.0	Duty cycle	;	: Cont.(S1)		
Rated torque	: 2	7.2 ft.lb	Insulation	class	: F		
•		90 %	Service fa	ctor	: 1.15		
Breakdown torque		10 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 9	165 rpm	Design		: B		
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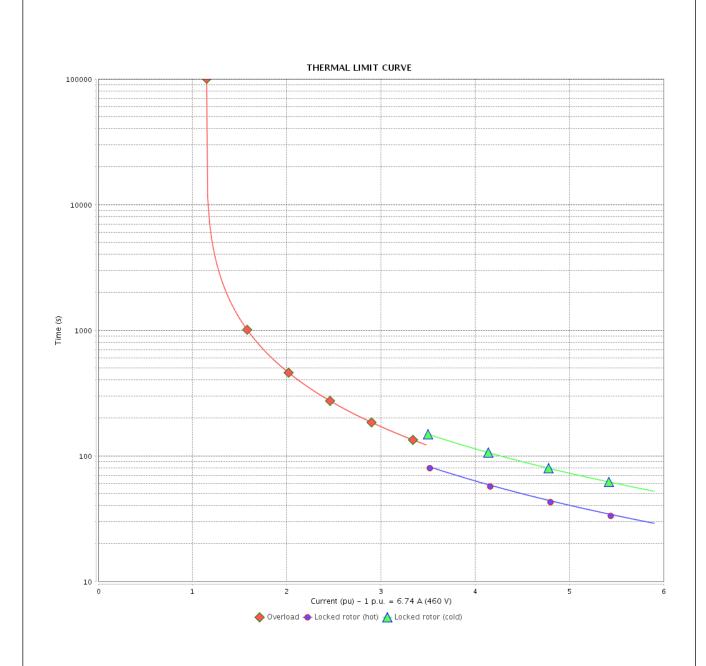


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D 1 1"		10.0 NEW 0 :		5	40000705	
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12682735	
		,		Catalog # :	00512OT3E2	15JP-S
Performance	::	230/460 V 60 Hz 6P				
Rated current	: .	13.5/6.74 A	Moment o	f inertia (J)	: 1.08 sq.ft.lb	
LRC Rated torque		5.9 22.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc		22.3 1t.10 220 %	Service fa		. г : 1.15	
Breakdown torqu	ie : :	250 %	Temperati		: 80 K	
Rated speed	· · ·	1175 rpm	Design		: B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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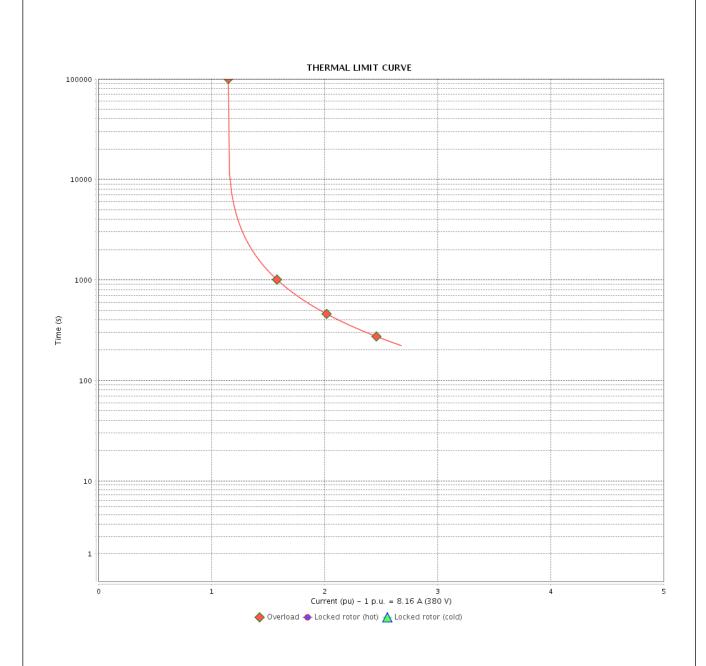


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase	I	Product code :	12682735	
		Elliciency Three-Friase	(Catalog # :	00512OT3E2	15JP-S
Performance		190/380 V 50 Hz 6P				
Rated current LRC		16.3/8.16 A 4.5	Moment of Duty cycle		: 1.08 sq.ft.lb : Cont.(S1)	
Rated torque	:	27.4 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		160 % 190 %	Service fac Temperatu		: 1.15 : 80 K	
Rated speed		960 rpm	Design		: B	
Heating constant	t					
Cooling constant				-		
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Three Phase Induction Motor - Squirrel Cage



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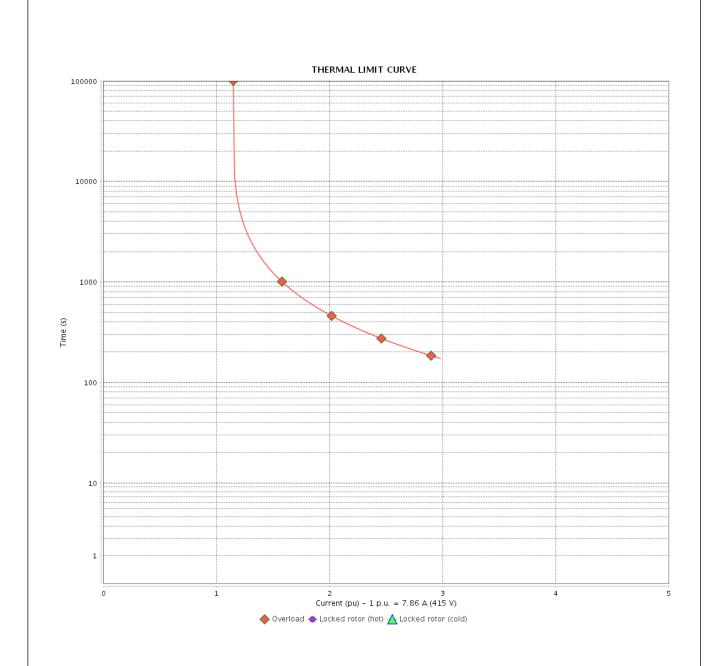


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Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12682735	
		Elliciency Three-Friase		Catalog # :	00512OT3E2	15JP-S
Performance	:	220/415 V 50 Hz 6P				
Rated current		14.8/7.86 A	Moment o	of inertia (J)	: 1.08 sq.ft.lb	
LRC		5.0 27.2 ft.lb	Duty cycle Insulation	9	: Cont.(S1) : F	
Rated torque Locked rotor tord		190 %	Service fa		. г : 1.15	
Breakdown torqu	ue :	210 %	Temperati	ure rise	: 80 K	
Rated speed		965 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

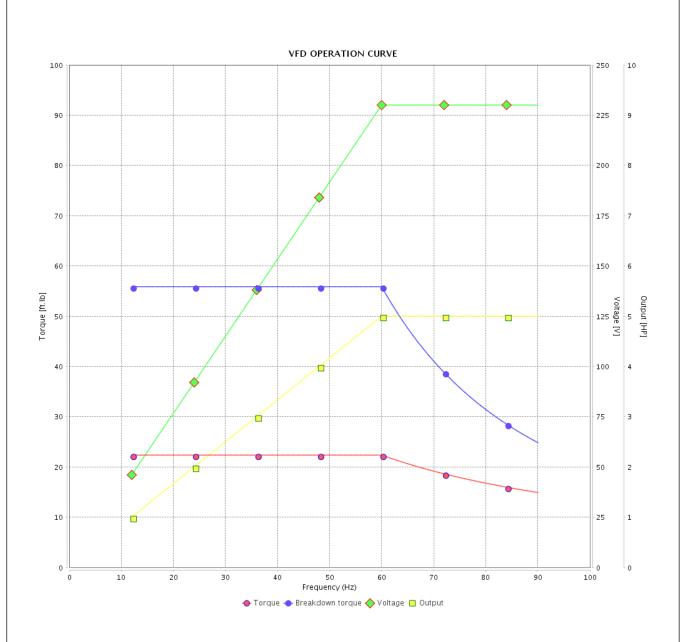
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682735

Catalog #: 00512OT3E215JP-S



Performance : 230/460 V 60 Hz 6P : 13.5/6.74 A Rated current Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 22.3 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



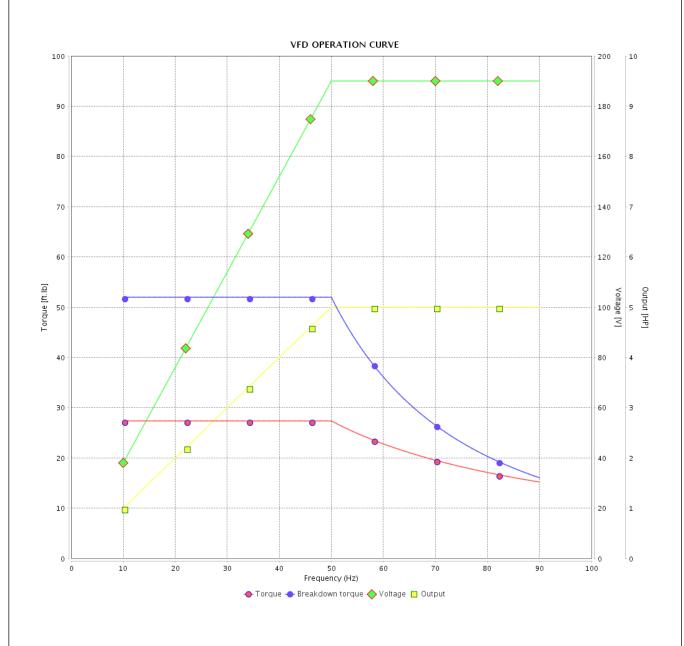
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682735

Catalog #: 00512OT3E215JP-S



Duty of Insula Servic Tempe	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

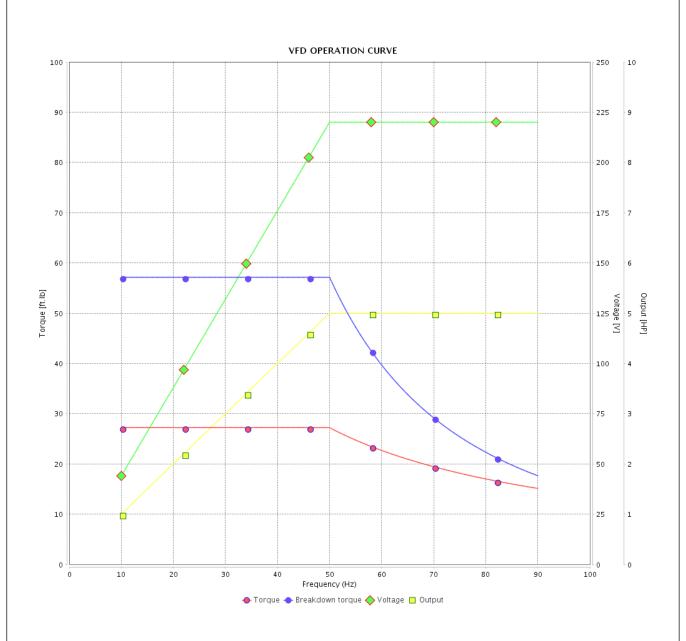
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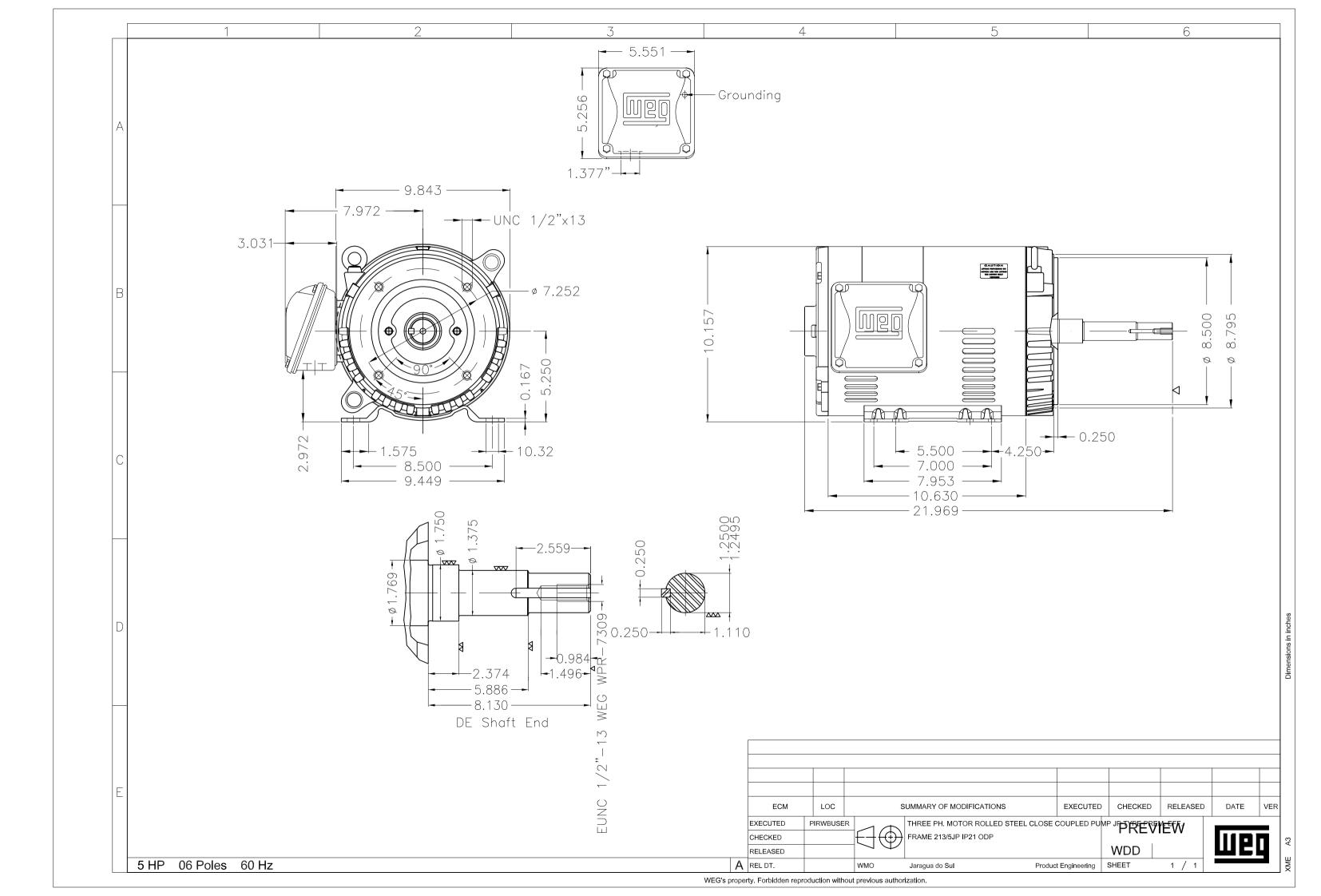
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Performance	: 220/415 V 50 H	: 220/415 V 50 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment on Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
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Color Munsell N 1 matte black
Painting plan 207N
Mounting F-1/B34R(D)







(**UL)**US LISTED 3PT9

> MODEL 00512OT3E215JP-S S/N 18JUN2021

N01.TODICOXON

12682735

MADE IN MÉXICO

Hz 60 1000 m.a.s.l 213/5JP CONT

13.5/6.74 15.5/7.75 230/460 1.15

> CODE DES SABLE @ 208V 14.9A 2°04 900

F AT 80K

SCL

ZPM 3FA 냃 쌆

LTERNATE RATING:

SF1.00 INC. 2

NOM EFF 960RPM

50 Hz

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 8206-ZZ 5.0HP T6 18.3-14.6/8.16-7.74A ODE

8209-ZZ

牌

MOBIL POLYREX EM

IEC 60034-1

SF1.15

190-220/380-415V

EFF 85.1% 89.5%

T6-GRY T8-RED RED

T2-WHT

T4-YEL

r3-org T7-PNK T9-BRK T5-BLK 1-BLU

AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine

conformément aux codes électriques locaux et nationaux afin d'éviter tout

& Energy Verifi