DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12913380

Catalog #: 00312ET3E213JM-S

Frame : 213/5JM Cooling method : IC411 - TEFC

Insulation class 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. Approx. weight³ : 138 lb Altitude : 1.08 sq.ft.lb

: IP55 Protection degree Moment of inertia (J) Design : B

Design		. Б		
Output [HP]		3	3	3
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		8.34/4.17	9.76/4.88	8.90/4.72
L. R. Amperes [A]		53.4/26.7	49.8/24.9	49.9/26.4
LRC [A]		6.4x(Code H)	5.1x(Code F)	5.6x(Code G)
No load current [A	.]	4.71/2.36	4.66/2.33	4.69/2.48
Rated speed [RPI	И]	1175	970	975
Slip [%]		2.08	3.00	2.50
Rated torque [ft.lb]		13.4	16.2	16.2
Locked rotor torqu		229	170	200
Breakdown torque	: [%]	290	220	250
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		82s (cold) 46s (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%	84.3	87.4	86.8
Efficiency (%)	50%	85.5	86.9	86.6
Efficiency (%)	75%	88.5	87.6	87.8
	100%	89.5	86.7	87.3
	25%	0.32	0.37	0.34
Power Factor	50%	0.55	0.62	0.58
rower racion	75%	0.67	0.73	0.70

Drive end Non drive end Foundation loads

0.79

Bearing type 6209 ZZ 6206 ZZ Max. traction : 159 lb Without Sealing V'Ring Max. compression : 297 lb

0.74

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 9.22A SF 1.00 SFA 9.22A

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.

0.77

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



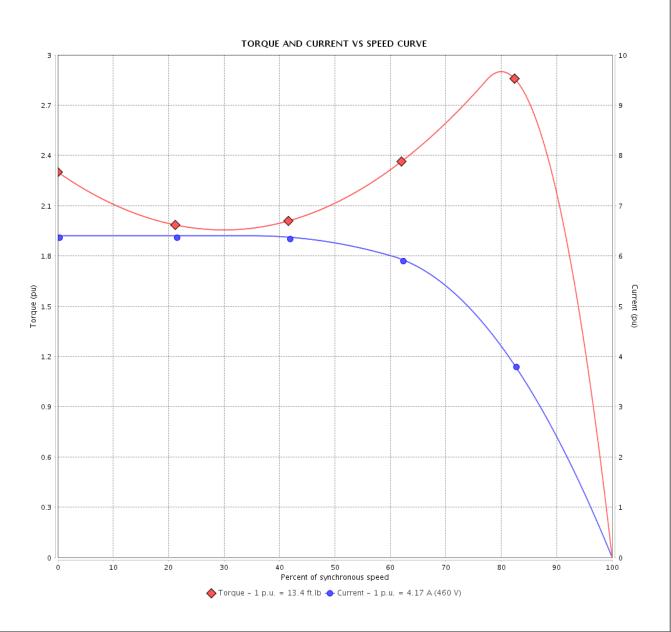
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12913380

Catalog #: 00312ET3E213JM-S



Performance : 230/460 V 60 Hz 6P Rated current : 8.34/4.17 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 13.4 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 82s (cold) 46s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



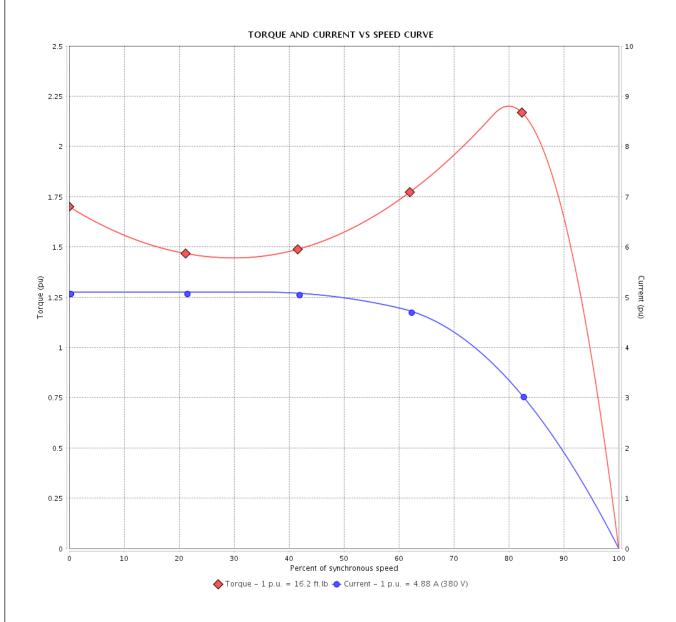
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12913380

Catalog #: 00312ET3E213JM-S



Performance : 190/380 V 50 Hz 6P Rated current : 9.76/4.88 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 16.2 ft.lb Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K : B Rated speed : 970 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



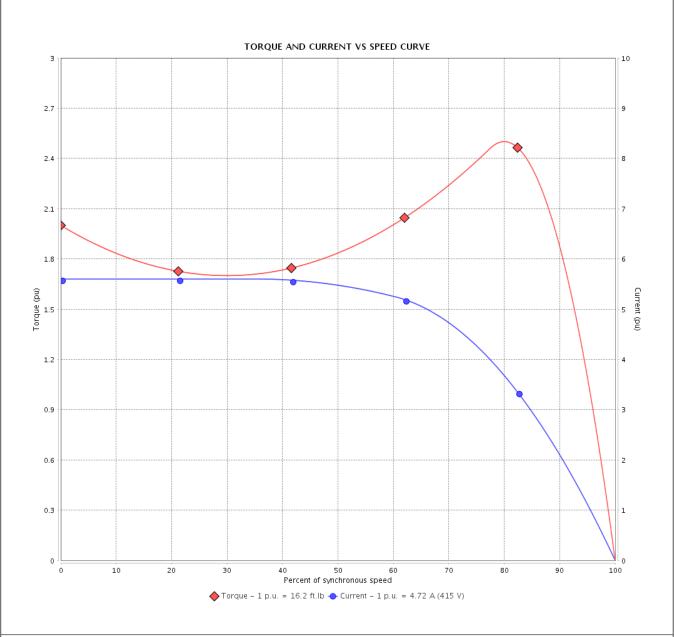
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12913380

Catalog #: 00312ET3E213JM-S



Performance : 220/415 V 50 Hz 6P Rated current : 8.90/4.72 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 16.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 975 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



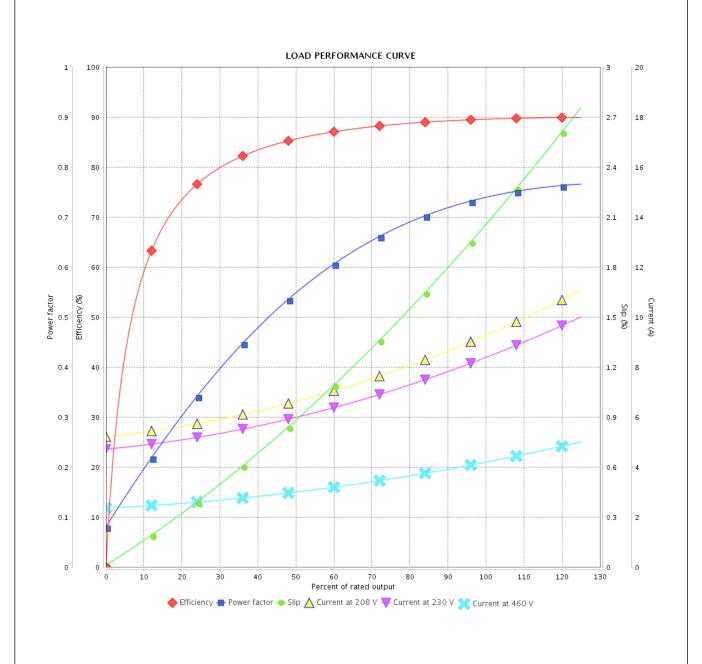
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12913380

Catalog #: 00312ET3E213JM-S



Performance	::	230/460 V 60 Hz 6P				
Rated current	: :	8.34/4.17 A	Moment o	f inertia (J)	: 1.08 sq.ft.lb	
LRC	: (6.4	Duty cycle	;	: Cont.(S1)	
Rated torque	:	13.4 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	229 %	Service fa	ctor	: 1.15	
Breakdown torque	::	: 290 % Tempera		emperature rise : 80		
Rated speed	:	1175 rpm	Design		: B	
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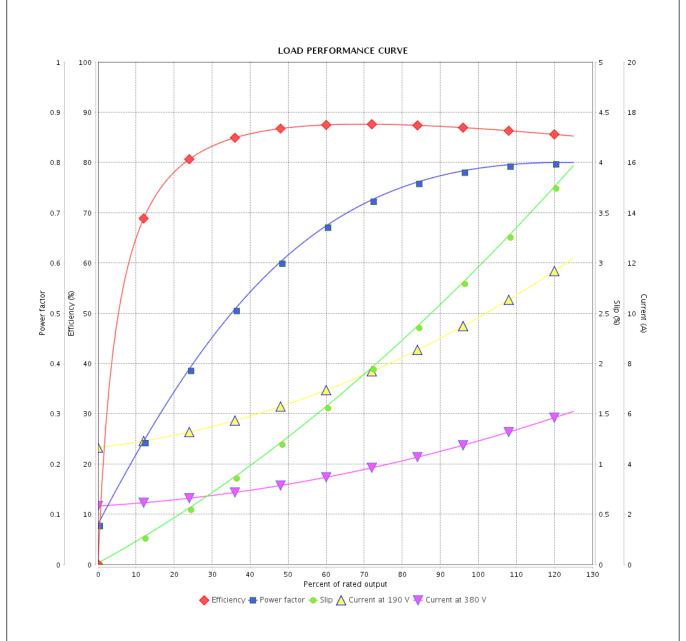
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12913380

Catalog #: 00312ET3E213JM-S



Performance : 190/380 V 50 Hz 6P Rated current : 9.76/4.88 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.1 : 16.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



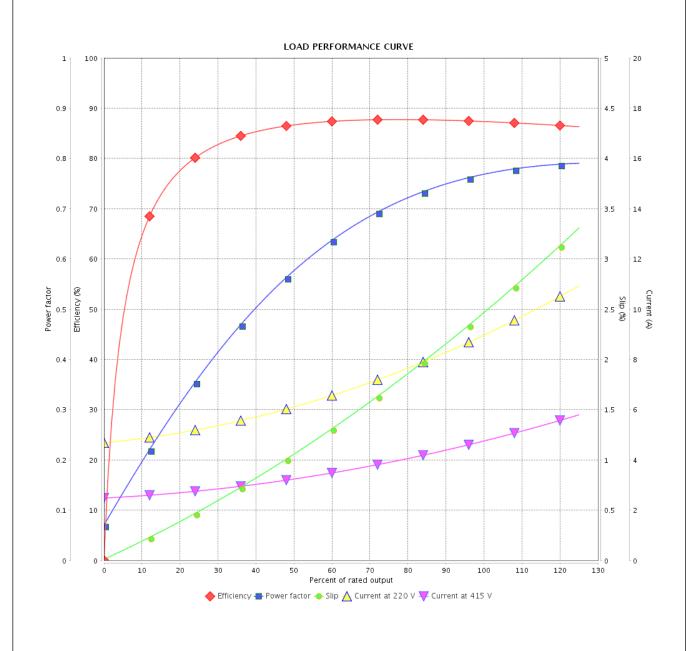
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12913380

Catalog #: 00312ET3E213JM-S



Performance	: 220/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.90/4.72 A : 5.6 : 16.2 ft.lb : 200 % : 250 % : 975 rpm	Moment of 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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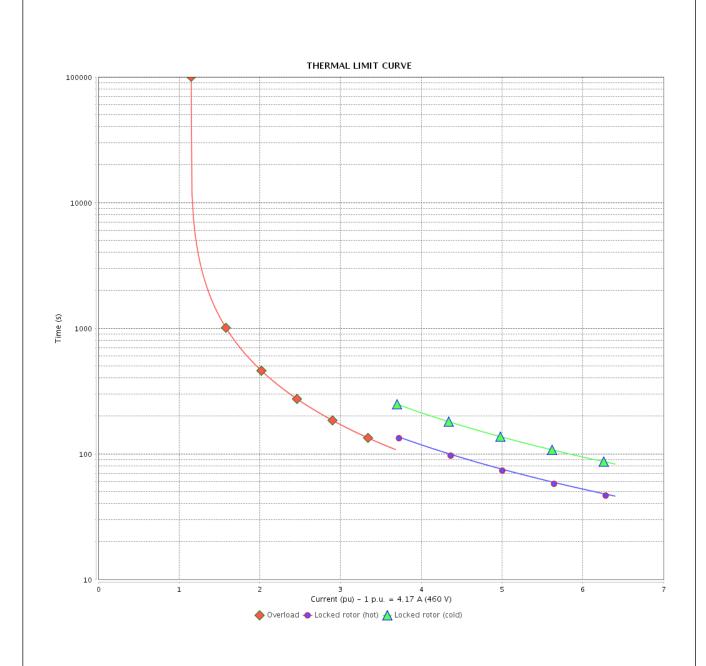


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Product line	: . F	JM Pump NEMA Premium fficiency Three-Phase	l	Product code :	12913380	
	_	moioriey Timoe Tinade	(Catalog # :	00312ET3E21	I3JM-S
Performance	. 24	30/460 V 60 Hz 6P				
Rated current		.34/4.17 A	Moment o	f inertia (J)	: 1.08 sq.ft.lb	
LRC	: 6.	4	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torq		3.4 ft.lb 29 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie : 29	90 %	Temperatu		: 80 K	
Rated speed		175 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	· ·	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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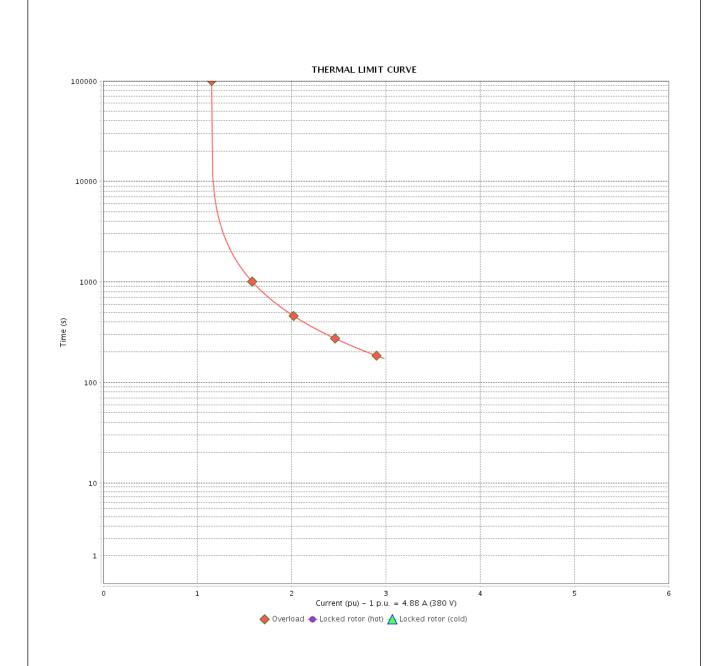


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Product line		JM Pump NEMA Premium fficiency Three-Phase		Product code :	12913380	
			(Catalog # :	00312ET3E21	I3JM-S
Dorformanaa	. 10	00/200 V 50 H= 6D				
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torque Rated speed	: 9. : 5. : 16 ue : 17 e : 22	90/380 V 50 Hz 6P 76/4.88 A 1 3.2 ft.lb 70 % 20 % 70 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
		•				
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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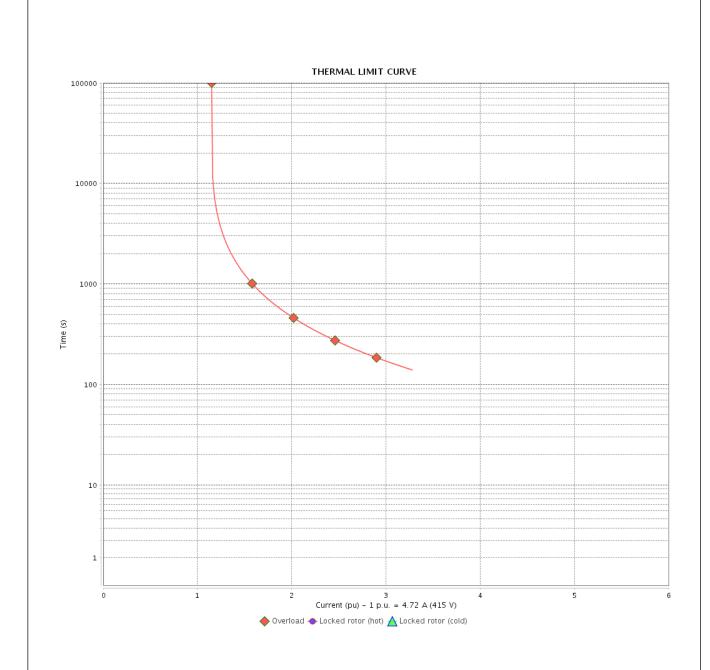


Customer	:			
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code : Catalog # :	12913380 00312ET3E213JM-S	
Performance	: 220/415 V 50 Hz 6P			
Rated current LRC	: 8.90/4.72 A : 5.6	Moment of inertia (J) Duty cycle	: 1.08 sq.ft.lb : Cont.(S1)	
Rated torque	: 16.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 % : 350 %	Service factor	: 1.15 : 80 K	
Breakdown torque Rated speed	: 250 % : 975 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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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

14/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

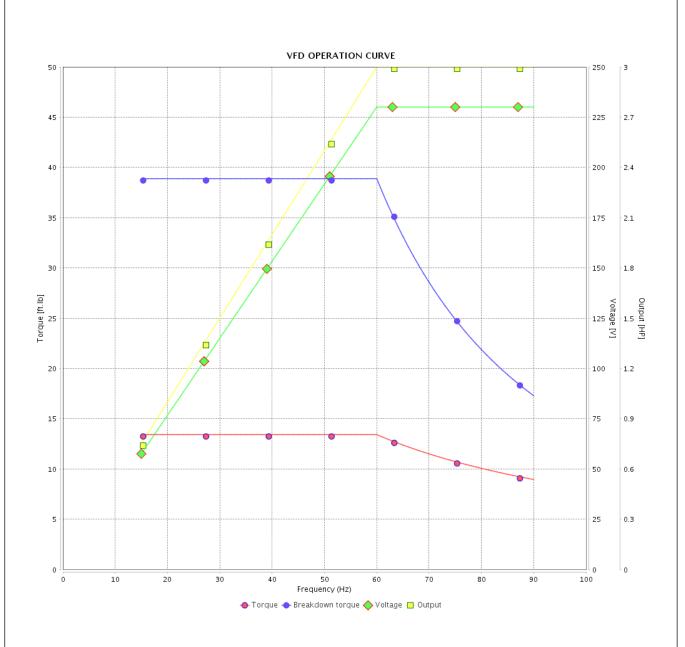
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Catalog #: 00312ET3E213JM-S

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Performance	: 2	230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6 : 1 : 1 : 2 : 2	8.34/4.17 A 6.4 13.4 ft.lb 229 % 290 % 1175 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 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



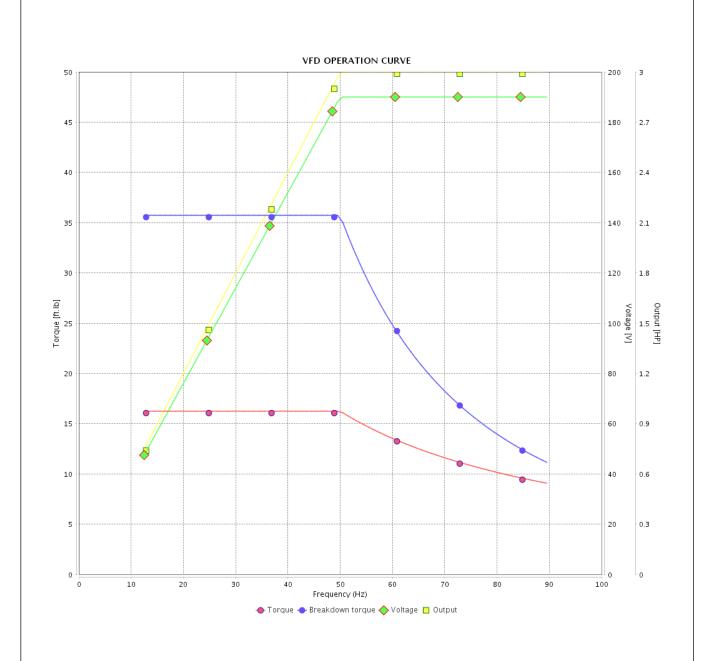
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



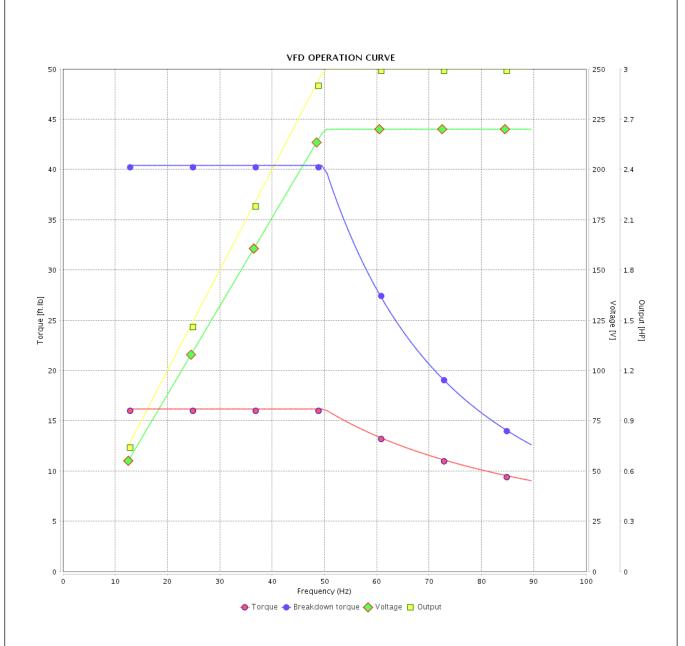
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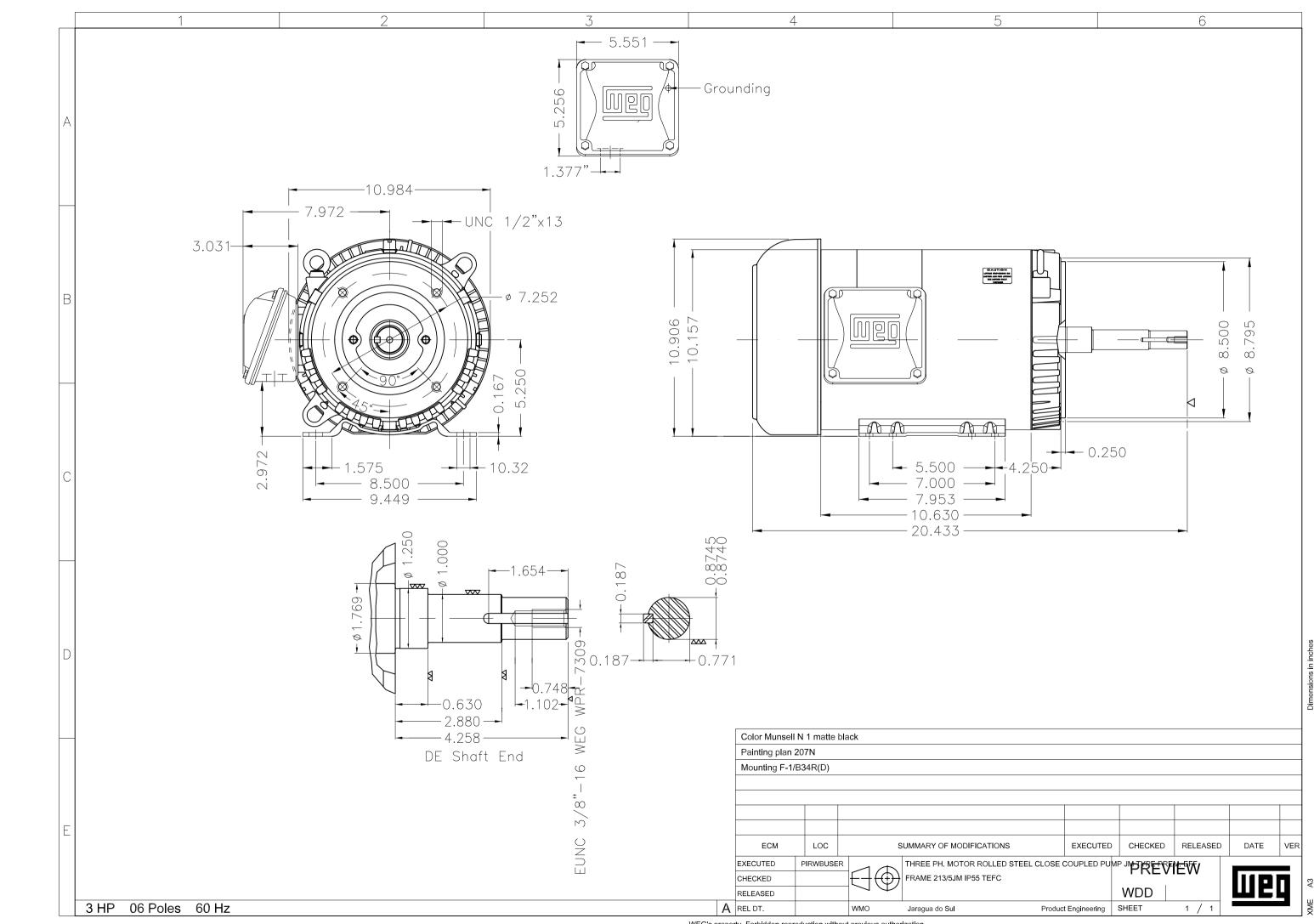
Product code: 12913380

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Performance : 220/415 V 50 Hz 6P Rated current : 8.90/4.72 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 16.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 975 rpm Design : B

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NEX

(**UL)**US LISTED 3PT9 FOR SAFE AREA

& Energy Verifi For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

> JM003406NPW01 N01.TE0IC0X0N 06SEP2021

12913380

MADE IN MÉXICO

Hz 60 213/5JM

1000 m.a.s.l

CONT

230/460 9.59/4 1.15

> P55 CODE SH SABLE @ 208V 9.22A F AT 80K

TEFC

0

SCI

3.0HP 9.76-8.79/4.88-4.66A ALTERNATE RATING:

SF1.00 INC. W

NEMA

SPM 3FA 냃 쌆

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT NOM. EFF 89.5% 970RPM 50 Hz ODE 6206-22 JT6

8209-ZZ

IEC 60034-1

SF1.15

190-220/380-415V

EFF 88.7%

MOBIL POLYREX EM

T2-WHT

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

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

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

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

T8-RED

T6-GRY T4-YEL