DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code: 12676984

Efficiency Three-Phase

Catalog #: 00112OT3E145JM-S

Frame : 143/5JM Cooling method : IC01 - ODP

Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹

: Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ Altitude : 37.0 lb

Design		: B	Moment of inertia (J)	: 0.1419 sq.ft.lb
Output [HP]		1	1	1
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		3.30/1.65	3.82/1.91	3.53/1.87
L. R. Amperes [A]		20.1/10.1	17.6/8.79	18.0/9.54
LRC [A]		6.1x(Code K)	4.6x(Code G)	5.1x(Code H)
No load current [A	.]	2.26/1.13	2.22/1.11	2.27/1.20
Rated speed [RPI	Л]	1150	920	930
Slip [%]		4.17	8.00	7.00
Rated torque [ft.lb]		4.57	5.71	5.65
Locked rotor torqu	ie [%]	250	190	220
Breakdown torque	: [%]	300	210	240
Service factor			1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		43s (cold) 24s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		50.0 dB(A)	47.0 dB(A)	47.0 dB(A)
	25%	77.2	80.1	78.1
Efficiency (%)	50%	78.5	78.8	77.7
Linciency (70)	75%	81.5	79.5	79.4
	100%	82.5	77.3	78.2
	25%	0.26	0.31	0.28
Power Factor	50%	0.47	0.55	0.51
i Owei i acioi	75%	0.60	0.69	0.65
	100%	0.69	0.77	0.74

Drive end Non drive end Foundation loads

Bearing type 6206 ZZ 6203 ZZ Max. traction : 99 lb Sealing Without Without Max. compression : 136 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 3.65A SF 1.00 SFA 3.65A

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



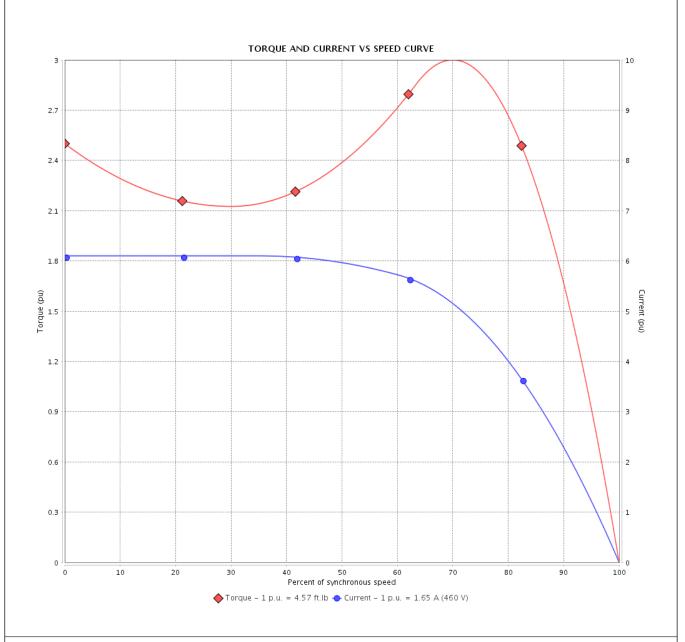
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676984

Catalog #: 00112OT3E145JM-S



Performance : 230/460 V 60 Hz 6P Rated current : 3.30/1.65 A Moment of inertia (J) : 0.1419 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : F : 4.57 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 250 % : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 1150 rpm Design : B

Locked rotor time : 43s (cold) 24s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



Date

Three Phase Induction Motor - Squirrel Cage Customer Product line : JM Pump NEMA Premium Product code: 12676984 Efficiency Three-Phase Catalog #: 00112OT3E145JM-S TORQUE AND CURRENT VS SPEED CURVE 4.5 2.25 3.5 1.75 1.5 (pd) 1.25 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.71 ft.lb ◆ Current - 1 p.u. = 1.91 A (380 V) Performance : 190/380 V 50 Hz 6P Rated current : 3.82/1.91 A Moment of inertia (J) : 0.1419 sq.ft.lb **LRC** : 4.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 5.71 ft.lb : 190 % Service factor Locked rotor torque : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 920 rpm Design : B Locked rotor time : 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



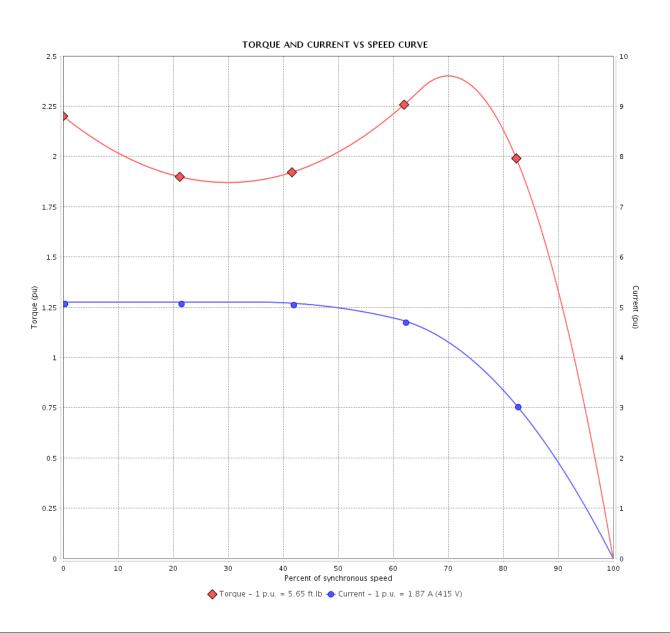
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676984

Catalog #: 00112OT3E145JM-S



Performance : 220/415 V 50 Hz 6P Rated current : 3.53/1.87 A Moment of inertia (J) : 0.1419 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.65 ft.lb : F Service factor Locked rotor torque : 220 % : 1.00 : 105 K Breakdown torque : 240 % Temperature rise Rated speed : B : 930 rpm Design

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

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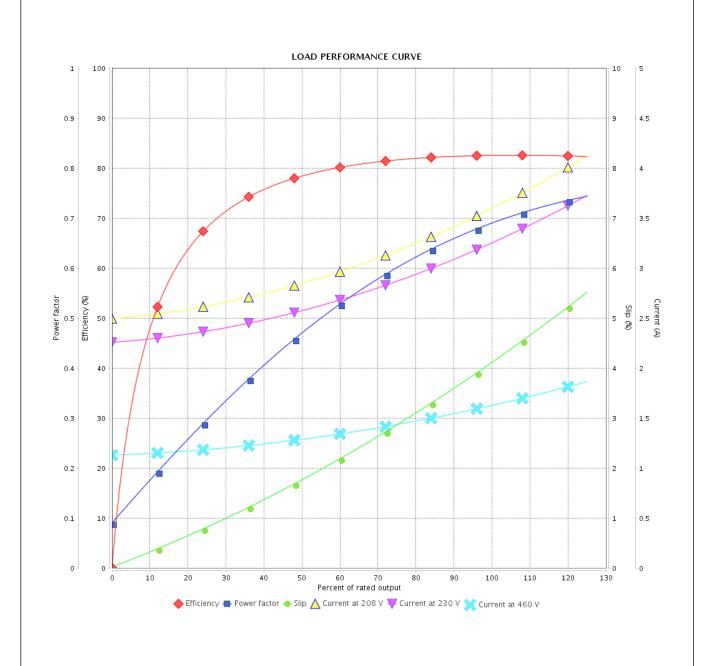
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Product line : JM Pump NEMA Premium

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Performance	:	230/460 V 60 Hz 6P				
Rated current	:	3.30/1.65 A	Moment o	Moment of inertia (J)		.lb
LRC	:	6.1	Duty cycle	:	: Cont.(S1)	
Rated torque	:	4.57 ft.lb	Insulation	class	: F	
Locked rotor torque		250 %	Service fa	ctor	:	
Breakdown torque	:	300 %	Temperature rise		: 80 K : B	
Rated speed	:	: 1150 rpm Design				
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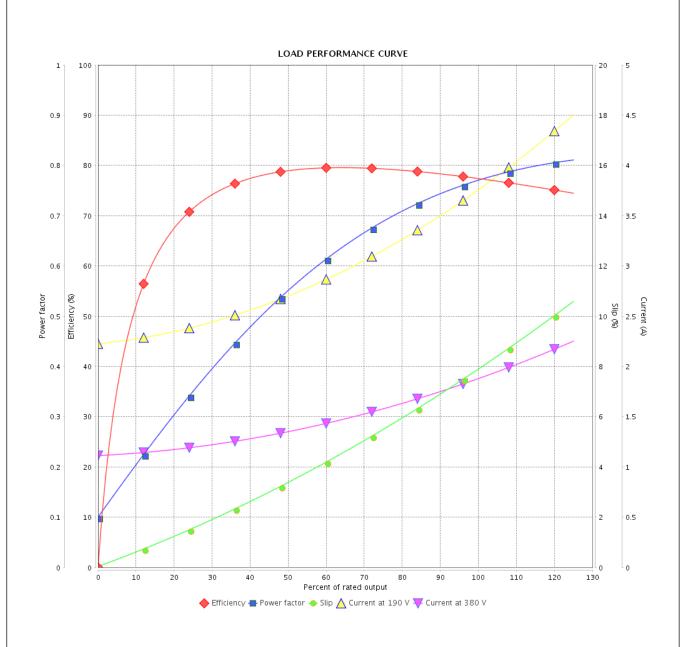
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676984

Catalog #: 00112OT3E145JM-S



Performance : 190/380 V 50 Hz 6P : 3.82/1.91 A Rated current Moment of inertia (J) : 0.1419 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 4.6 : 5.71 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 920 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



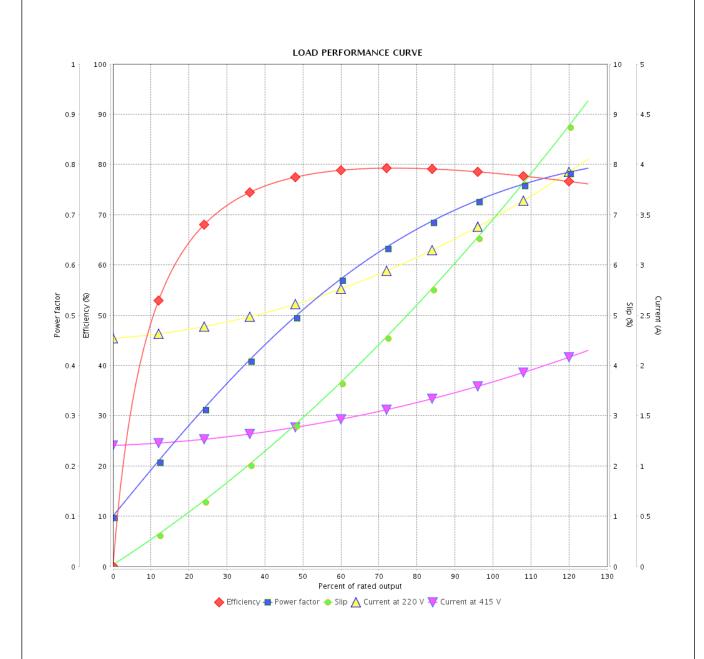
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676984

Catalog #: 00112OT3E145JM-S



Performance : 220/415 V 50 Hz 6F		20/415 V 50 Hz 6P				
Rated current	: 3	.53/1.87 A	Moment o	f inertia (J)	: 0.1419 sq.ft.lb	
LRC	: 5	.1	Duty cycle		: Cont.(S1)	
Rated torque	: 5	.65 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	Temperature rise		: 105 K	
		30 rpm	Design		: B	
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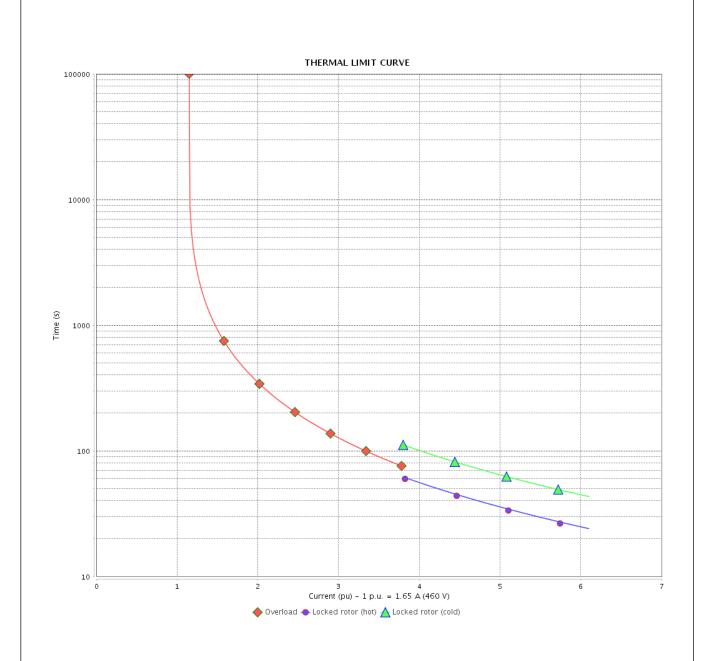


Customer	:				
Product line	: JM Pump NEMA Premium	Prod	uct code :	12676984	
	Efficiency Three-Phase				145 IM O
		Cala	log # :	00112OT3E1	1400111-0
Performance	: 230/460 V 60 Hz 6P	_ .			
Rated current	: 3.30/1.65 A	Moment of iner	tia (J)	: 0.1419 sq.ft.l	b
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque	: 4.57 ft.lb : 250 %	Insulation class Service factor	5	: F :	
Breakdown torque	: 300 %	Temperature ris	se	: 80 K	
Rated speed	: 1150 rpm	Design		: B	
Heating constant					
Cooling constant				- Ol	
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Three Phase Induction Motor - Squirrel Cage



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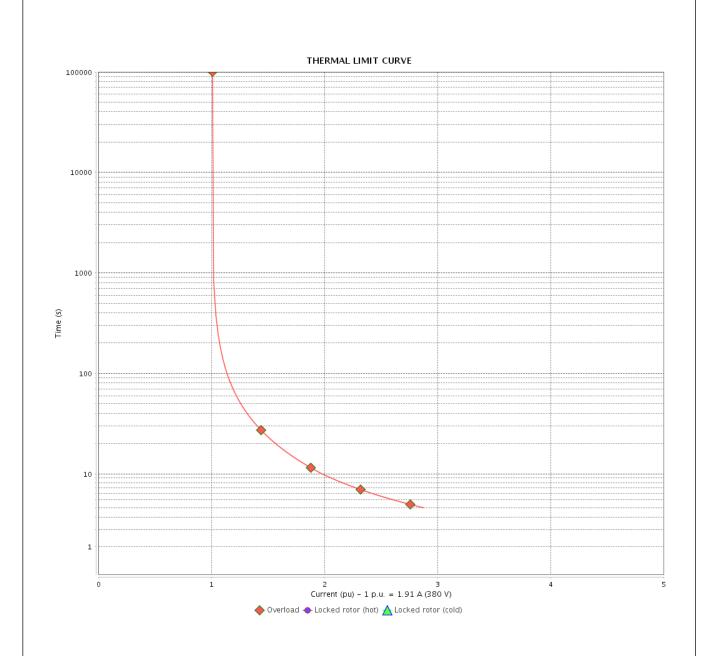


Customer	:			
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	12676984	
	Emoleticy Three Finasc	Catalog #:	00112OT3E1	45JM-S
Performance	: 190/380 V 50 Hz 6P			
Rated current LRC	: 3.82/1.91 A : 4.6	Moment of inertia (J) Duty cycle	: 0.1419 sq.ft.l : Cont.(S1)	b
Rated torque	: 5.71 ft.lb	Insulation class	: F	
Locked rotor torqu Breakdown torque		Service factor Temperature rise	: 1.00 : 105 K	
Rated speed	: 920 rpm	Design	: B	
Heating constant				
Cooling constant				
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Three Phase Induction Motor - Squirrel Cage



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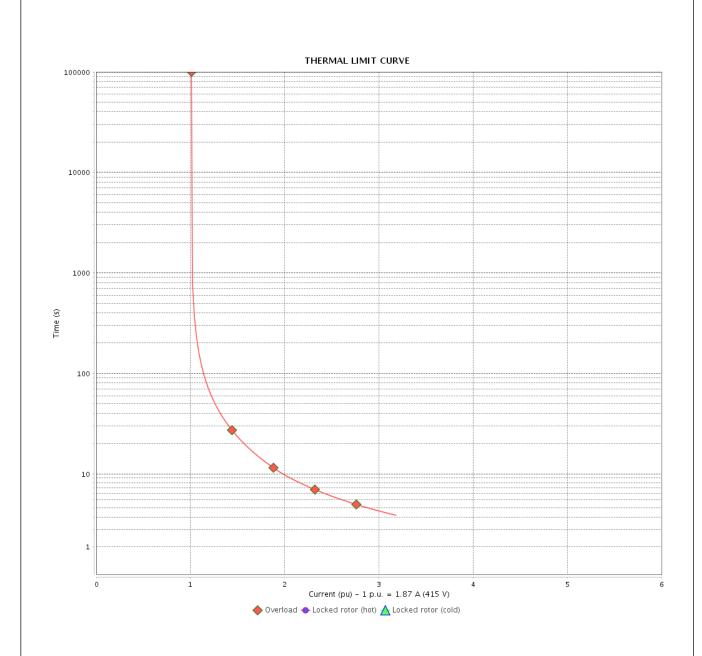


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Product line	: JM Pump NEMA Premium	ı	Product code :	12676984	
	Efficiency Three-Phase	(Catalog # :	00112OT3E1	I45JM-S
Performance Rated current	: 220/415 V 50 Hz 6P : 3.53/1.87 A	Moment of	f inertia (J)	: 0.1419 sq.ft.l	lh
LRC	: 5.1	Duty cycle		: Cont.(S1)	iu
Rated torque Locked rotor torque	: 5.65 ft.lb : 220 %	Insulation Service fac		: F : 1.00	
Breakdown torque	: 240 %	Temperatu		: 105 K	
Rated speed	: 930 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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



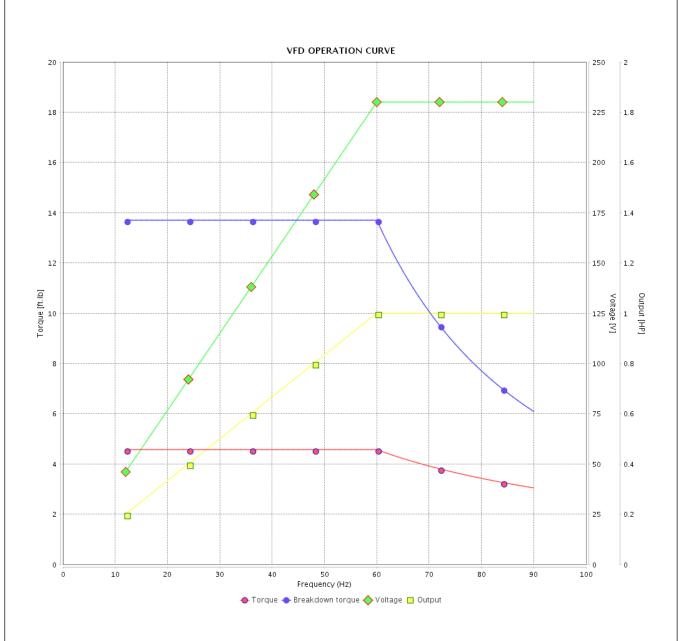
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676984

Catalog #: 00112OT3E145JM-S



Performance	: 230/460 V 60 Hz 6P					
Rated current	: 3.30/1.65 A	Moment of inertia (J)		: 0.1419 sq.ft.lb		
LRC	: 6.1 Duty cycle Insulation class			: Cont.(S1)		
Rated torque			class	:F		
Locked rotor torque		Service fa	ctor	:		
Breakdown torque		Temperature rise		: 80 K		
Rated speed	: 1150 rpm	Design		: B		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



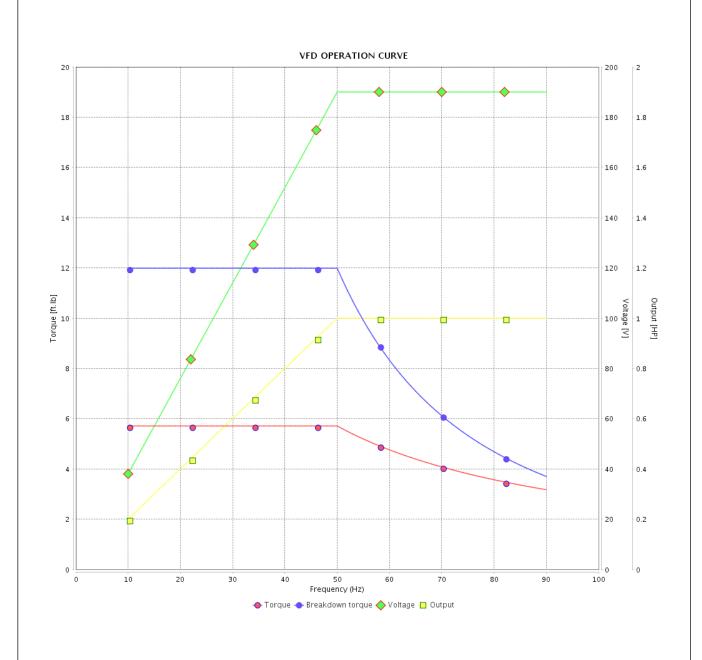
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676984

Catalog #: 00112OT3E145JM-S



Performance	: 190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.82/1.91 A : 4.6 : 5.71 ft.lb : 190 % : 210 % : 920 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1419 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

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Efficiency Three-Phase

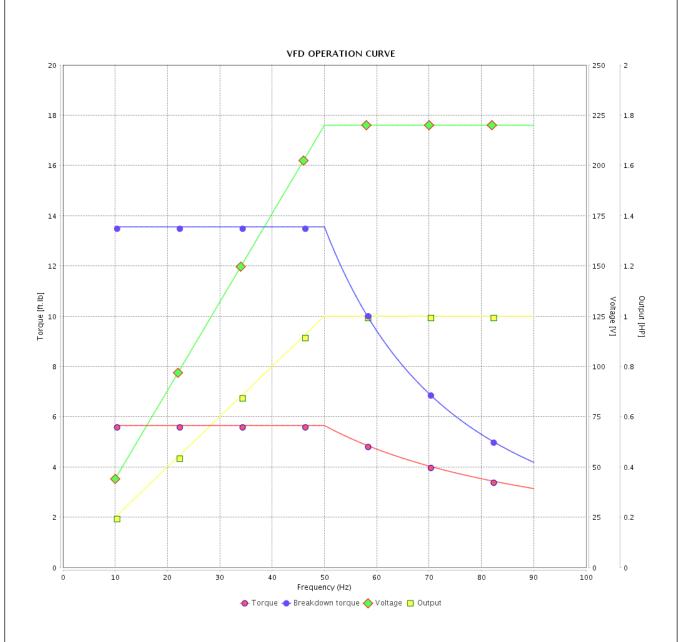
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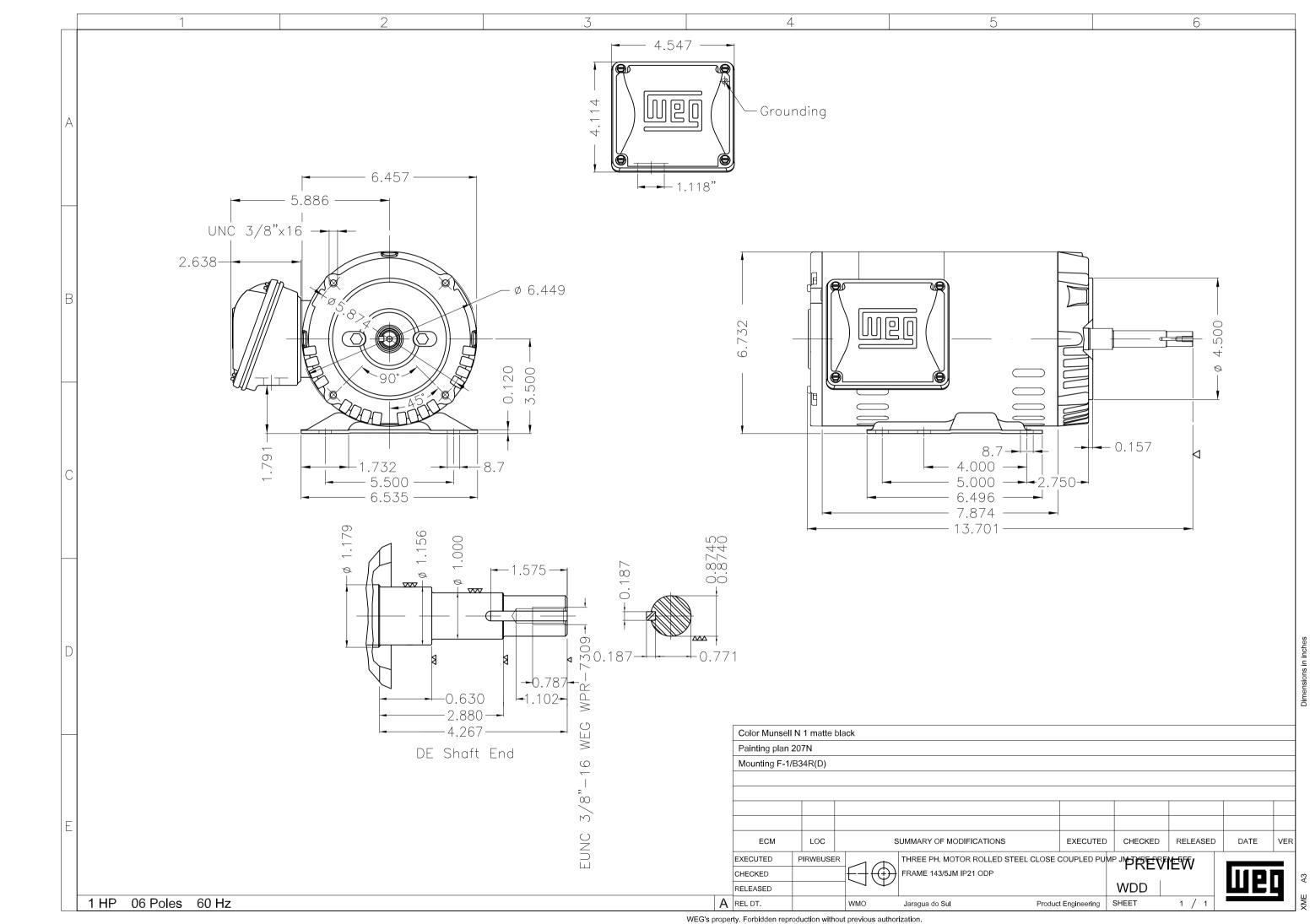
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Performance		: 220/415 V 50 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 3.53/1.87 A : 5.1 : 5.65 ft.lb : 220 % : 240 % : 930 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1419 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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MADE IN MÉXICO

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& Energy Verifi

3PT9

MODEL 001120T3E145JM-S N01.TODICOXON 12676984

1APR2022

8 걒 143/5.IM 3.30/1.65

1000 m.a.s.

NSC

CONT

1.15

230/460

DES F AT 80K 2°04 900

CODE SABLE @ 208V 3.65A

3.82-3.47/1.91-1.84A LTERNATE RATING:

SF1.00 INC. 2

82.5%

NOM EFF NEMA

ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 920RPM 50 Hz 8203-ZZ HO!

ODE

8206-ZZ

牌

IEC 60034-1

5:1 CT

SF1.00

190-220/380-415V

EFF 77.3%

9

2

MOBIL POLYREX EM

T2-WHT

T4-YEL

13-ORG 1-BLU I7-PNK F5-BLK

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical







shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine

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