DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code: 12789072

Efficiency Three-Phase

Catalog #: 02018OT3E256JM-S

Frame : 254/6JM 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. Altitude Approx. weight3 : 227 lb

Ailitude		. 1000 III.a.S.I.	Approx. weight	. 227 10
Design		: B	Moment of inertia (J)	: 2.23 sq.ft.lb
Output [HP]		20	20	20
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		50.0/25.0	59.8/29.9	54.0/28.6
L. R. Amperes [A]		315/158	311/155	313/166
LRC [A]		6.3x(Code G)	5.2x(Code F)	5.8x(Code G)
No load current [A]	22.9/11.4	22.4/11.2	23.6/12.5
Rated speed [RPN	/ 1]	1770	1460	1465
Slip [%]		1.67	2.67	2.33
Rated torque [ft.lb]		59.3	71.9	71.7
Locked rotor torqu	e [%]	240	180	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		27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		64.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	91.7	93.0	92.2
Efficiency (%)	50%	92.4	91.8	91.4
Efficiency (%)	75%	92.4	91.2	91.3
	100%	93.0	89.7	90.2
	25%	0.38	0.46	0.41
Power Factor	50%	0.63	0.72	0.68
1 OWELL ACIOI	75%	0.74	0.82	0.79
	100%	0.81	0.85	0.84

Foundation loads Drive end Non drive end

Bearing type 6309 Z C3 6208 Z C3 Max. traction : 746 lb Sealing Without Without Max. compression : 973 lb

Bearing Seal Bearing Seal

20000 h Lubrication interval 20000 h Lubricant amount 8 g 13 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 55.3A SF 1.00 SFA 55.3A

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.				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



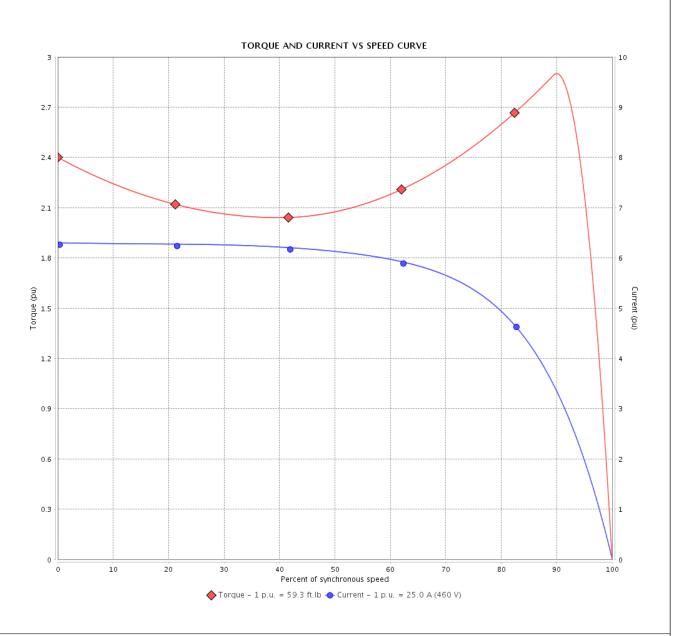
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12789072

Catalog #: 02018OT3E256JM-S



Performance : 230/460 V 60 Hz 4P Rated current : 50.0/25.0 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Service factor : 1.15 Locked rotor torque : 240 % Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

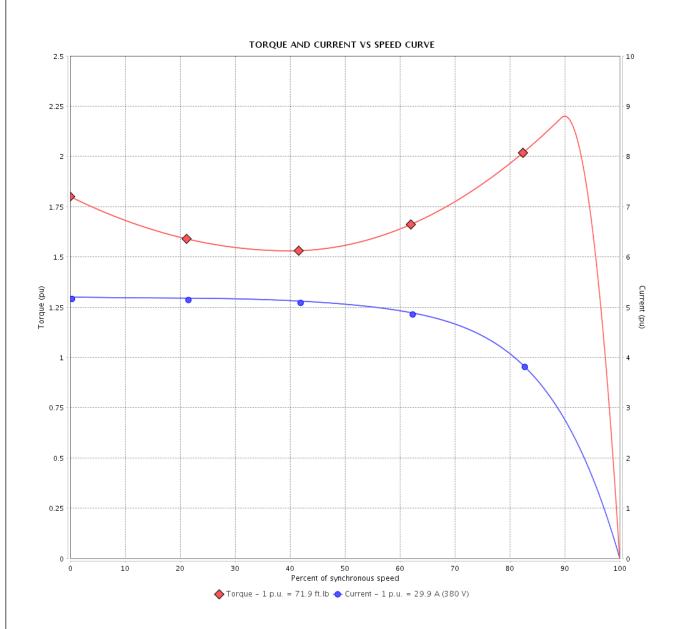
Efficiency Three-Phase

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 12789072

> Catalog #: 02018OT3E256JM-S



Performance : 190/380 V 50 Hz 4P Rated current : 59.8/29.9 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Rated torque : 71.9 ft.lb Insulation class : F : 180 % Service factor Locked rotor torque : 1.15 Breakdown torque : 220 % Temperature rise : 80 K : B Rated speed : 1460 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



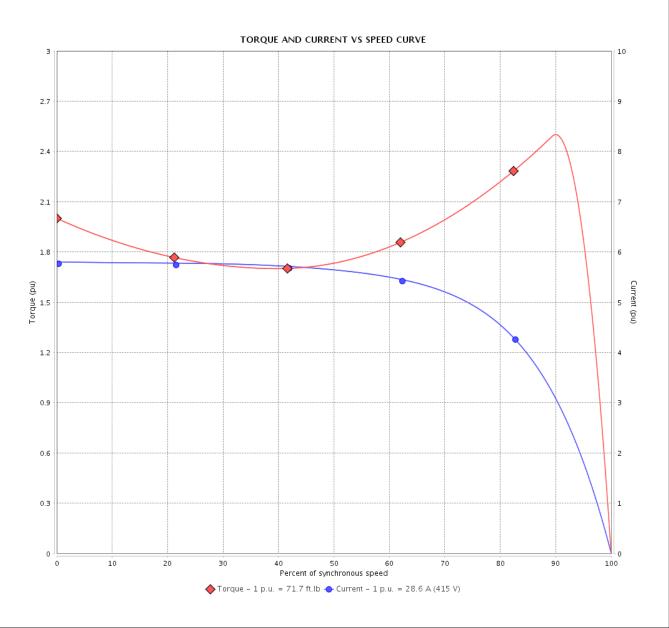
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Product line : JM Pump NEMA Premium

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Product code: 12789072

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Performance : 220/415 V 50 Hz 4P Rated current : 54.0/28.6 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 71.7 ft.lb Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Date

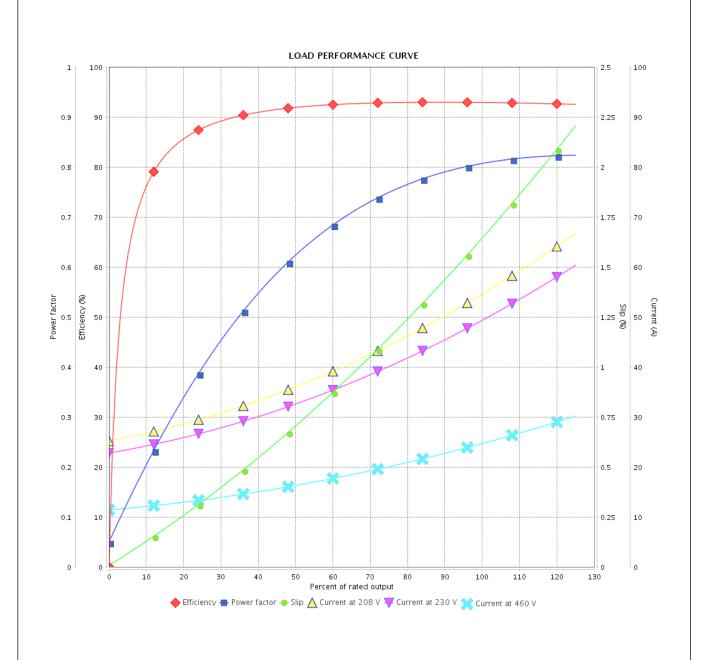
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Efficiency Three-Phase

Product code: 12789072

Catalog #: 02018OT3E256JM-S



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 50.0/25.0 A : 6.3 : 59.3 ft.lb : 240 % : 290 % : 1770 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 2.23 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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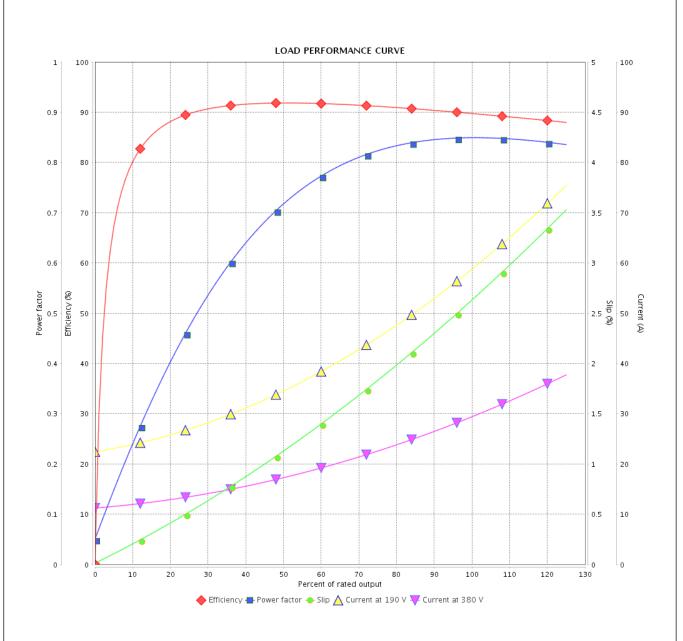
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Efficiency Three-Phase

Product code: 12789072

Catalog #: 02018OT3E256JM-S



				,			
Performance	: 190/380 V 50 Hz 4P	: 190/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Duty cycle Insulation Service fa	Moment of inertia (J) : 2.23 sq Duty cycle : Cont.(S Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B				
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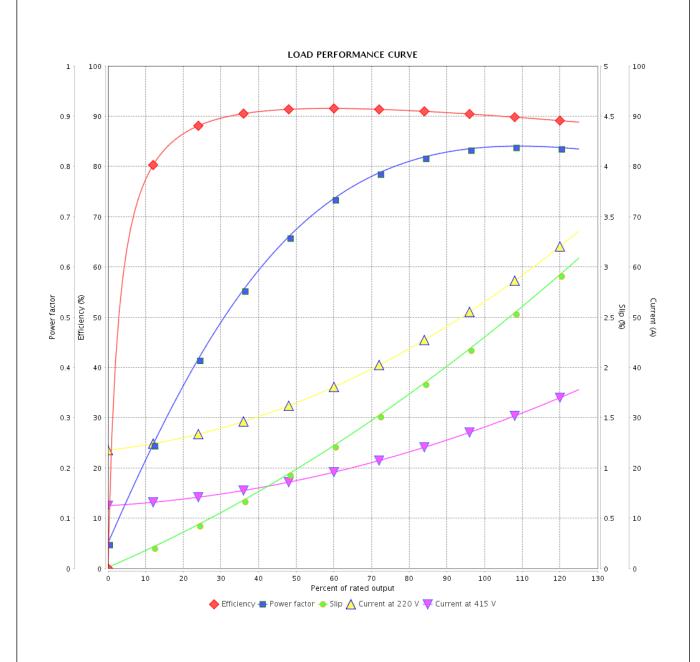
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12789072

Catalog #: 02018OT3E256JM-S



Performance	:	220/415 V 50 Hz 4P				
Rated current		54.0/28.6 A	Moment o	f inertia (J)	: 2.23 sq.ft.lb	
LRC	:	5.8	Duty cycle	;	: Cont.(S1)	
Rated torque	:	71.7 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.15	
Breakdown torque	:	250 %	Temperati	Temperature rise		
Rated speed	:	1465 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

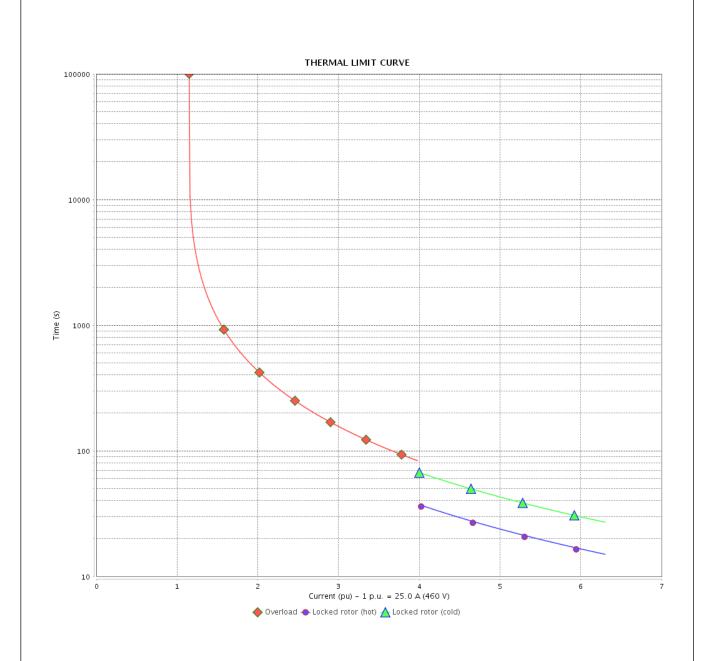


Customer	:					
Product line	:.	JM Pump NEMA Premium	I	Product code :	12789072	
		Efficiency Three-Phase		Catalog # :	02018OT3E2	56JM-S
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 50 : 6.	0.0/25.0 A 3	Moment of Duty cycle	f inertia (J)	: 2.23 sq.ft.lb : Cont.(S1)	
Rated torque	: 59	9.3 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		40 % 90 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		770 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant			Т			
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

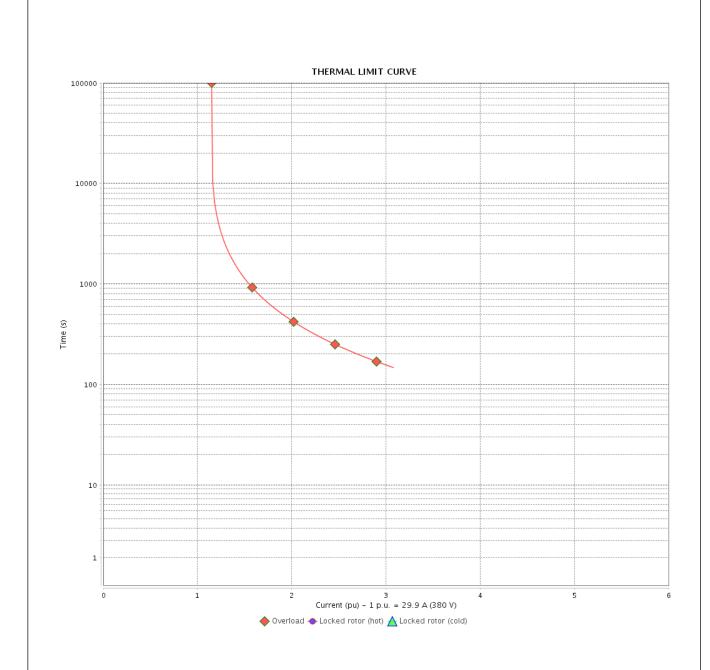


Customer	:					
Product line	:.	JM Pump NEMA Premium	I	Product code :	12789072	
		Efficiency Three-Phase		Catalog # :	02018OT3E2	56JM-S
Performance		90/380 V 50 Hz 4P				
Rated current LRC	: 59 : 5.	9.8/29.9 A 2	Moment of Duty cycle	f inertia (J)	: 2.23 sq.ft.lb : Cont.(S1)	
Rated torque	: 7′	1.9 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		30 % 20 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		460 rpm	Design		: B	
Heating constant						
Cooling constant			r	· · ·		
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

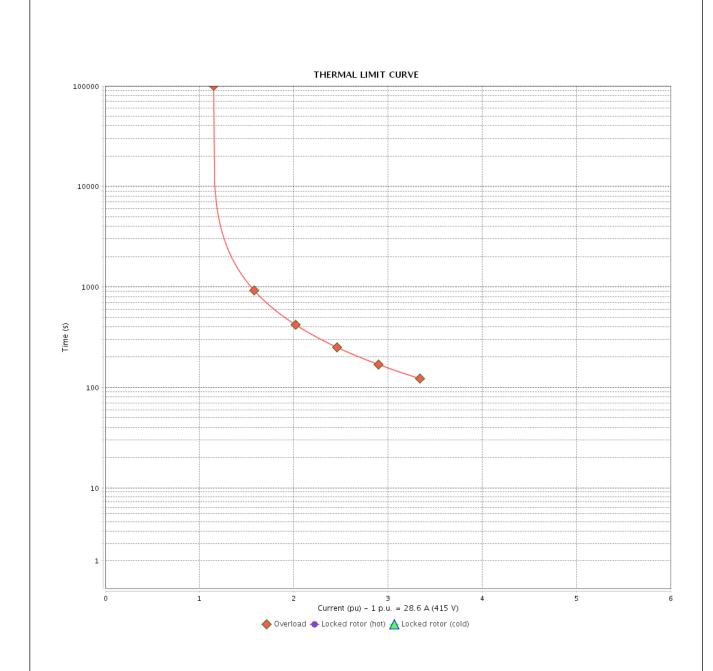


Customer	:					
Product line	:.	JM Pump NEMA Premium	ı	Product code :	12789072	
		fficiency Three-Phase	(Catalog # :	02018OT3E2	56JM-S
Performance		20/415 V 50 Hz 4P				
Rated current LRC		: 54.0/28.6 A Moment of Duty cycle		finertia (J)	: 2.23 sq.ft.lb : Cont.(S1)	
Rated torque		: 71.7 ft.lb Insulation		on class : F		
Locked rotor tord Breakdown torqu		O % Service fa O % Temperati			: 1.15 : 80 K	
Rated speed		465 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant			Т			
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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

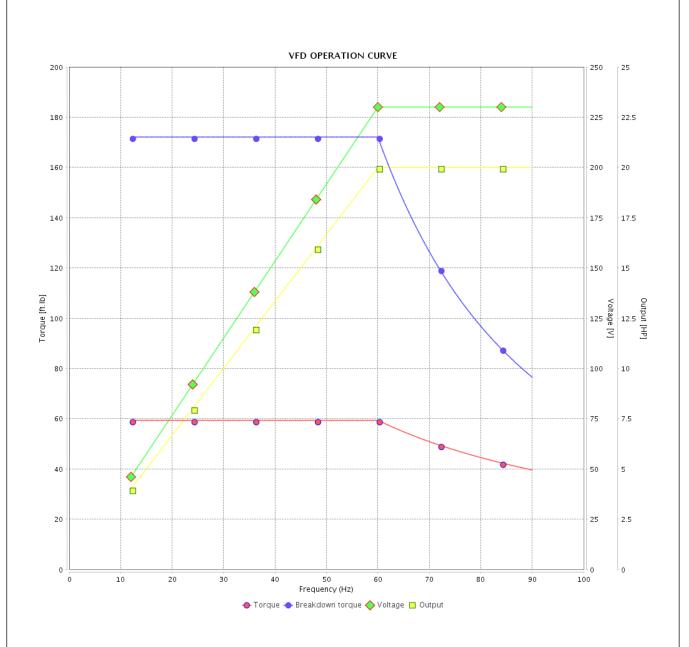
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12789072

Catalog #: 02018OT3E256JM-S



Performance		: 230/460 V	/ 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 50.0/25.0 : 6.3 : 59.3 ft.lb : 240 % : 290 % : 1770 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 2.23 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

Checked by

Date

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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

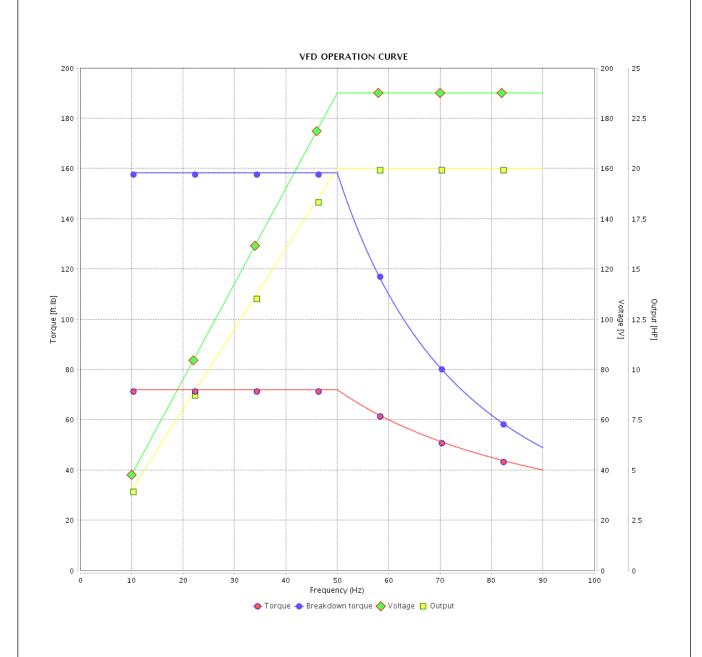
Product code: 12789072

Catalog #: 02018OT3E256JM-S

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Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 59.8/29.9 A : 5.2 : 71.9 ft.lb : 180 % : 220 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.23 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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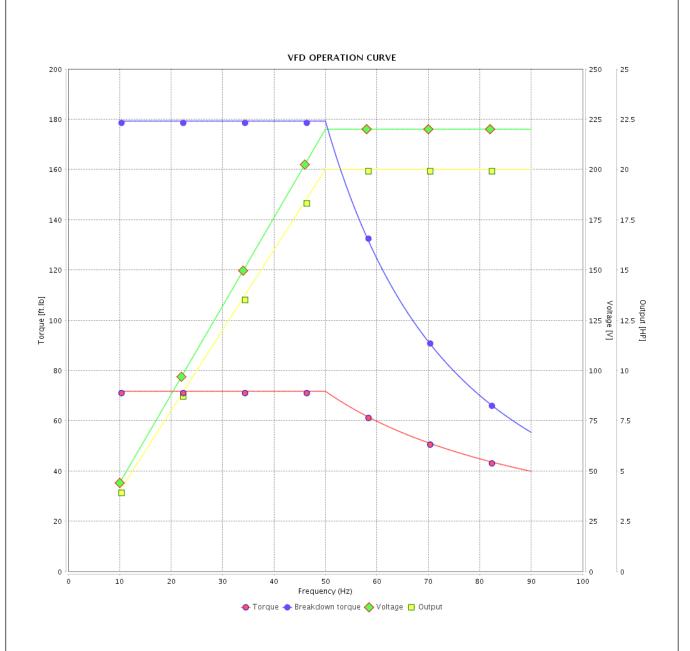
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Product line : JM Pump NEMA Premium

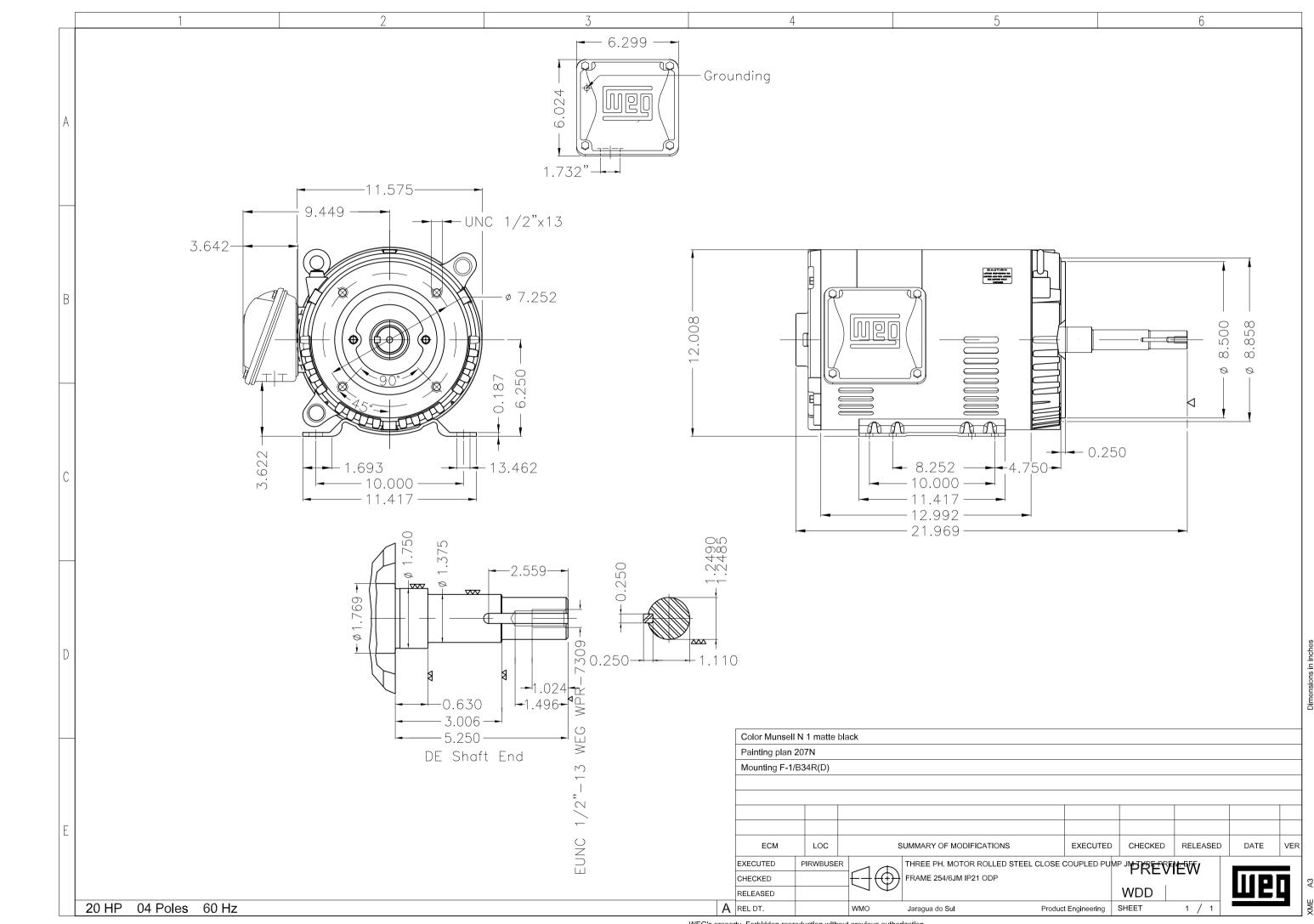
Efficiency Three-Phase

Product code: 12789072

Catalog #: 02018OT3E256JM-S



Performance : 220/415 V 50 Hz 4P Rated current : 54.0/28.6 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class : 71.7 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by









CC029A

12789072

MADE IN MÉXICO

N01.TODICOXON

8 Energy Verifi

3PT9

MODEL 020180T3E256JM-S S/N 6JAN2022

9 걒 254/6JM CONT

DES 1000 m.a.s.l F AT 80K 20°C 900

NSC

50.0/25.0 57.5/28.7

1.15

230/460

U 20HP CODE SABLE @ 208V 55.3A LTERNATE RATING:

SF1.00 INC. 2

NEMA

ZPM 3FA 냃 쌆

93.0%

NOM EFF 1480RPM 50 Hz ODE 6208-Z-C3

59.8-53.0/29.9-28.1A

8309-Z-C3

牌

IEC 60034-1 2000bh

E 1

SF1.15

190-220/380-415V

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT MOBIL POLYREX EM **EFF 89.7%**

T11 OT12

71-BLU

13-ORG F5-BLK

нон

MOT

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

777







F11-GRN T12-VLT T9-BRK RED T10-CURRY L7-PNK

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre