DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code : 13482591

Efficiency Three-Phase

Catalog #: 00212OT3E184JMV-S

Frame : 182/4JM Cooling method : IC01 - ODP

Insulation class : F Mounting : W-6
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 : 73.2 lb Design : B Moment of inertia (J) : 0.2800 sq.ft.lb Output [HP] 2 2 Poles 6 6 6 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 220/415 190/380 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 [RPM] 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 1.00 1.00 1.15 Temperature rise 80 K 105 K 80 K 0s (cold) 0s (hot) Locked rotor time 59s (cold) 33s (hot) 0s (cold) 0s (hot) Noise level² 52.0 dB(A) 50.0 dB(A) 50.0 dB(A) 25% 84.4 86.1 84.6 50% 85.5 84.8 84.0 Efficiency (%) 75% 86.5 84.9 85.0 100% 87.5 83.0 83.8 25% 0.30 0.32 0.36

0.61

0.73

0.79

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

Bearing type : 6207 ZZ 6205 ZZ Max. traction : 140 lb Sealing : Without Without Max. compression : 213 lb

Bearing Seal Bearing Seal

0.53

0.66

0.73

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

Notes

Power Factor

USABLE @208V 6.52A SF 1.00 SFA 6.52A

50%

75%

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.

0.56

0.69

0.76

(1)710 10070 0110	in 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



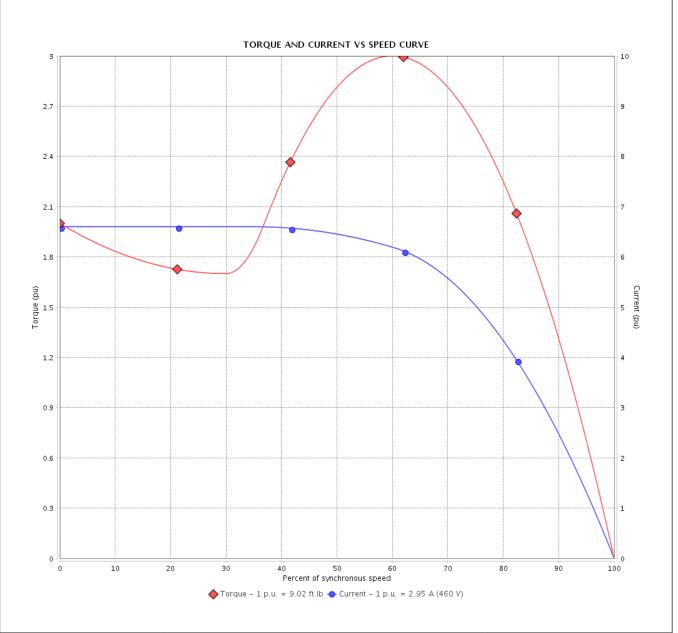
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482591

Catalog #: 00212OT3E184JMV-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



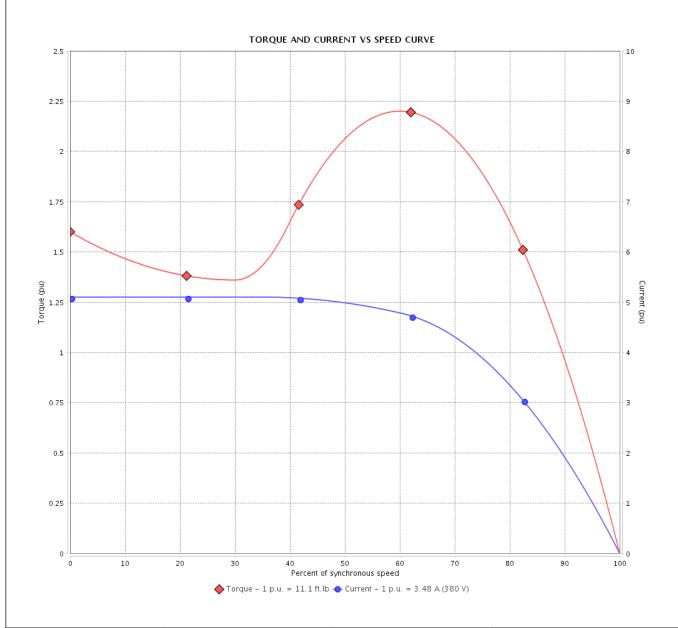
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482591

Catalog #: 00212OT3E184JMV-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)

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

TORQUE AND CURRENT VS SPEED CURVE

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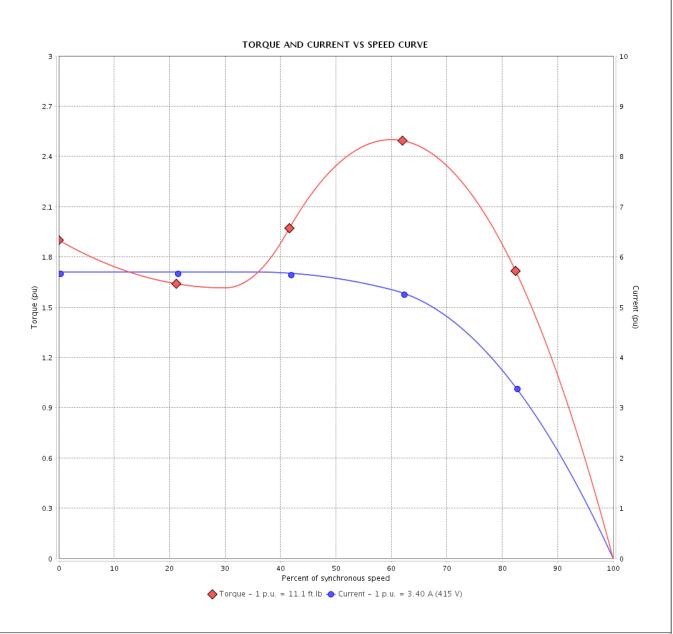
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482591

Catalog #: 00212OT3E184JMV-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



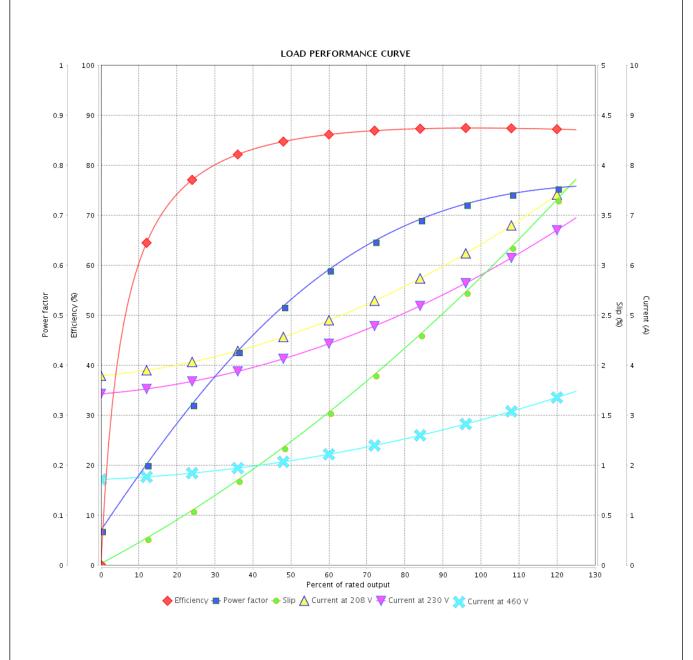
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Efficiency Three-Phase

Product code: 13482591

Catalog #: 00212OT3E184JMV-S



Performance	nance : 230/460 V 60 Hz 6P					
Rated current	ited current : 5.90/2.95 A		Moment o	f inertia (J)	: 0.2800 sq.ft.lb	
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 %	Temperature 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

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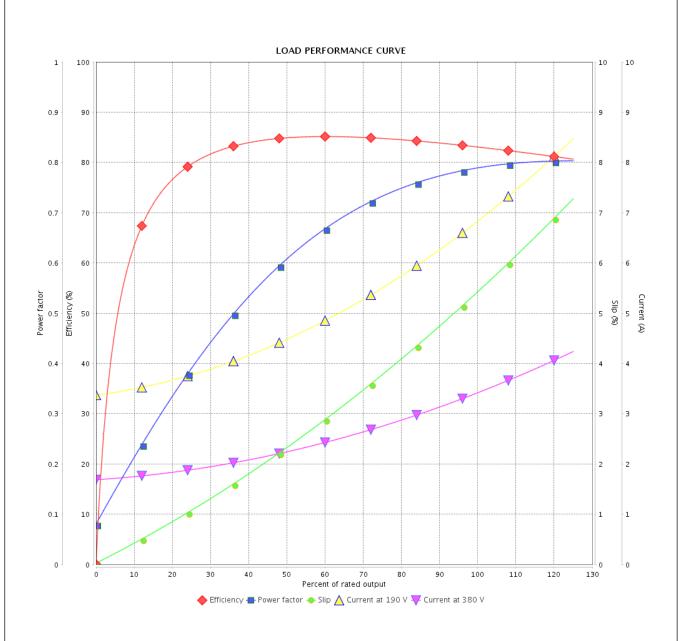
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Efficiency Three-Phase

Product code: 13482591

Catalog #: 00212OT3E184JMV-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 Duty cycle Insulation Service fa Temperate Design	class actor	: 0.2800 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/16

14/04/2022

Date

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



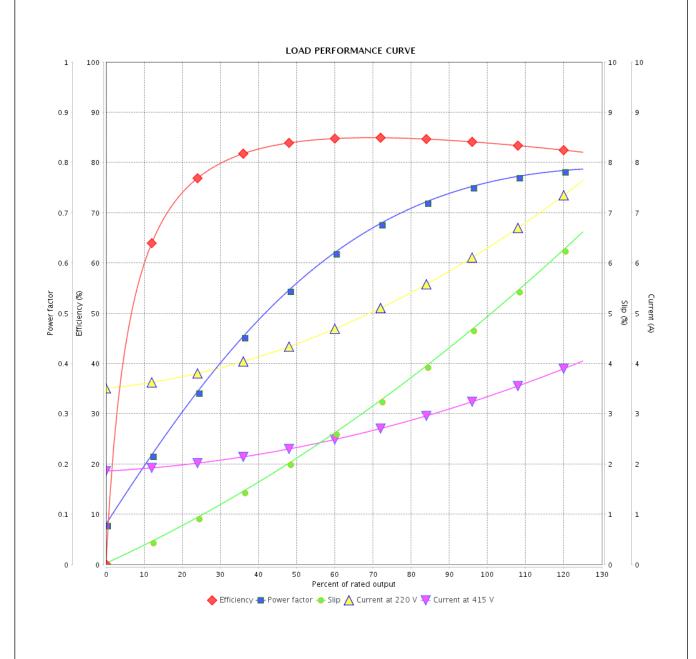
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482591

00212OT3E184JMV-S Catalog #:



Performance	: 2	220/415 V 50 Hz 6P				
Rated current	: 6	.41/3.40 A	41/3.40 A Moment of		: 0.2800 sq.ft	.lb
LRC	: 5	5.7	Duty cycle	e	: Cont.(S1)	
Rated torque	: 1	1.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ıe : 1	90 %	Service fa	ictor	: 1.00	
Breakdown torque		50 %	Temperati	Temperature rise		
Rated speed	: 9	50 rpm Design			: B	
Rev.		Changes Summar	ту	Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	14/04/2022				7 / 16	

Three Phase Induction Motor - Squirrel Cage

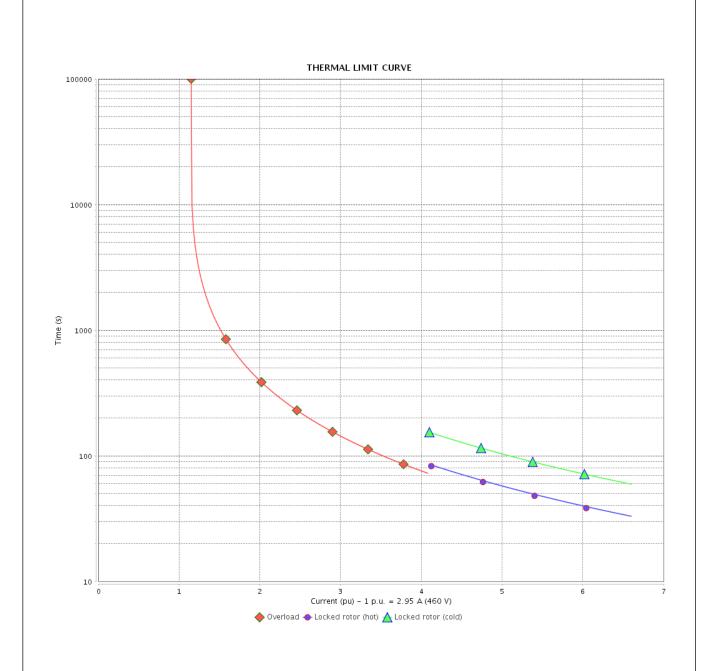


Customer	:					
Product line	: .	JM Pump NEMA Premium fficiency Three-Phase	I	Product code :	13482591	
	_	inciency Three-i hase	(Catalog # :	00212OT3E1	84JMV-S
Performance		30/460 V 60 Hz 6P	Managara	6 : (I)	. 0 0000 #1	L
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 0.2800 sq.ft.l : Cont.(S1)	υ
Rated torque Locked rotor torq		02 ft.lb 00 %	Insulation Service fa	class	: F : 1.15	
Breakdown torqu	e : 30	00 %	Temperatu		: 80 K	
Rated speed	: 1′	165 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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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

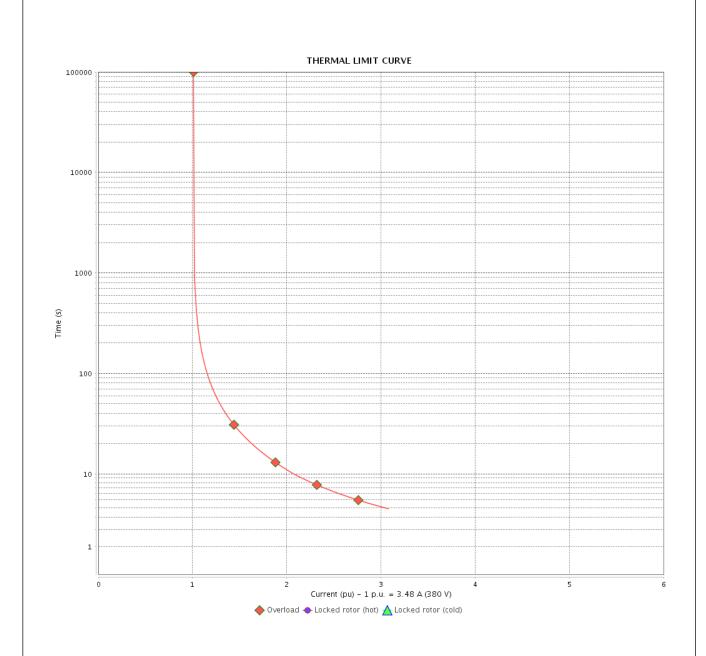


Customer	:				
Product line	: JM Pump N Efficiency Th	NEMA Premium	Product code :	13482591	
	Emoleticy 11	ilee i flase	Catalog # :	00212OT3E1	84JMV-S
Performance	: 190/380 V 5	0 Hz 6P			
Rated current	: 6.96/3.48 A		t of inertia (J)	: 0.2800 sq.ft.l	b
LRC	: 5.1	Duty cy	cle	: Cont.(S1)	
Rated torque Locked rotor torc	: 11.1 ft.lb ue : 160 %	Service	on class factor	: F : 1.00	
Breakdown torqu	e : 220 %	Temper	ature rise	: 105 K	
Rated speed	: 945 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes	Summary	Performed	Checked	Date
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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

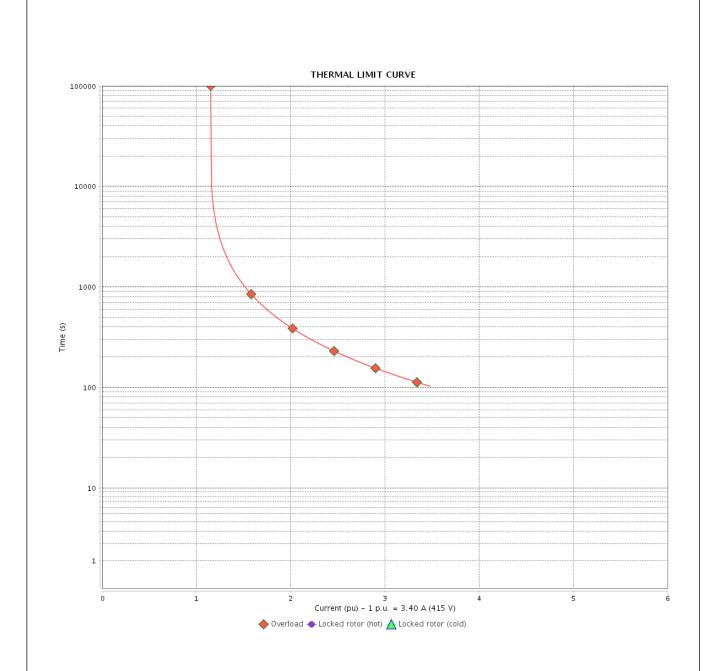


Customer	:					
Product line	:.	JM Pump NEMA Premium	I	Product code :	13482591	
	E	fficiency Three-Phase	(Catalog # :	00212OT3E1	84JMV-S
Performance		20/415 V 50 Hz 6P				
Rated current LRC	: 6. : 5.	41/3.40 A 7	Moment of Duty cycle	f inertia (J)	: 0.2800 sq.ft.l : Cont.(S1)	D
Rated torque	: 11	1.1 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		90 % 50 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		50 rpm	Design	-	: B	
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Cooling constant			Т			
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
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Three Phase Induction Motor - Squirrel Cage



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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



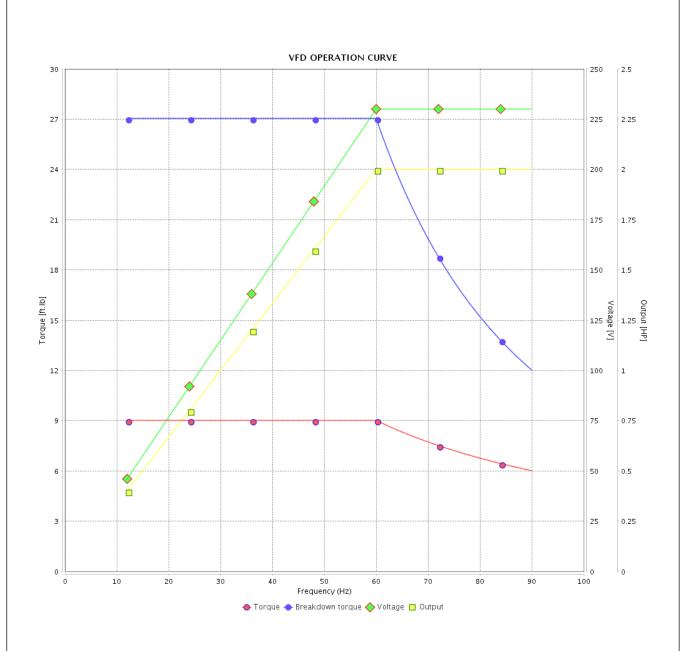
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482591

Catalog #: 00212OT3E184JMV-S



Performance	: 23	30/460 V 60 Hz 6P				
Rated current	: 5.	90/2.95 A	Moment of	of inertia (J)	: 0.2800 sq.ft	.lb
LRC	: 6.	6	Duty cycle	e	: Cont.(S1)	
Rated torque	: 9.	02 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 20	00 %	Service fa	actor	: 1.15	
Breakdown torqu	ie : 30	0 % Temperature		ure rise	: 80 K	
Rated speed	: 11	1165 rpm Design			: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				14 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page

15 / 16

Customer

Checked by

Date

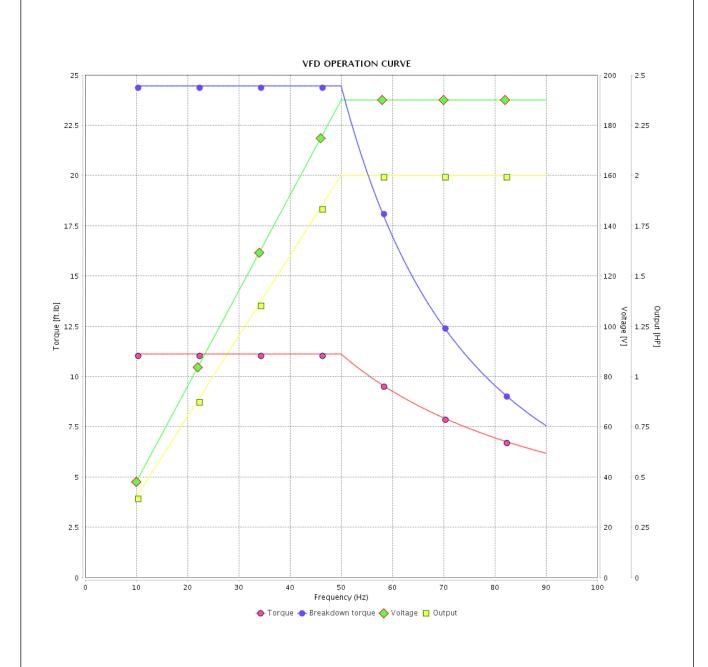
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482591

Catalog #: 00212OT3E184JMV-S



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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



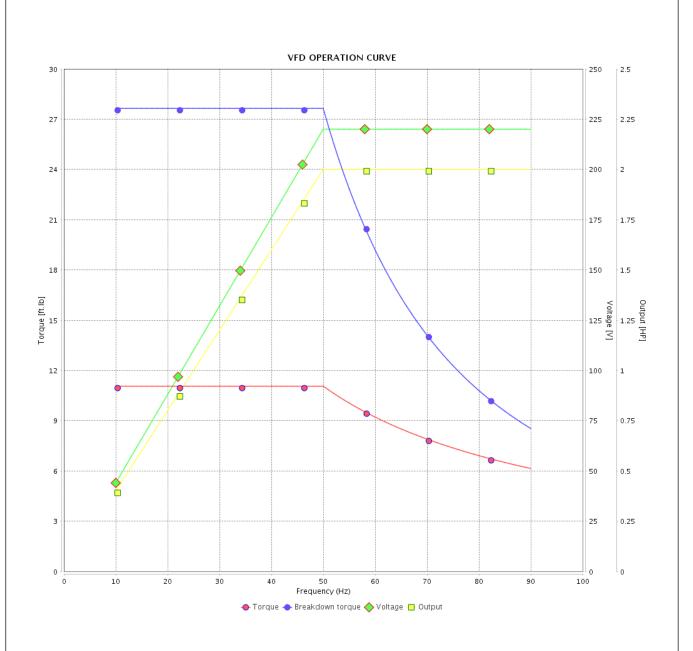
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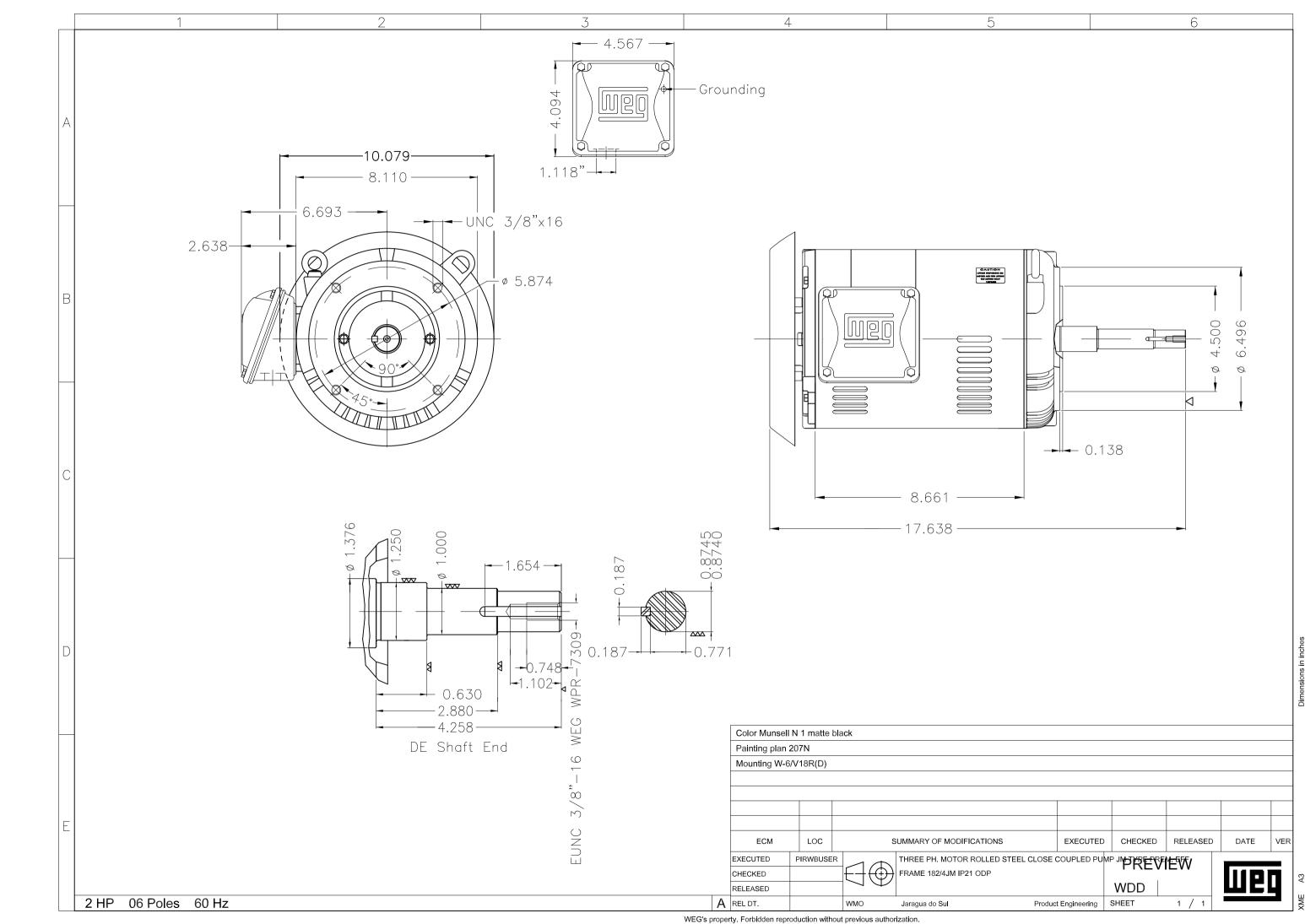


Performance	: 220/415 V 50 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.41/3.40 A : 5.7 : 11.1 ft.lb : 190 % : 250 % : 950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.2800 sq.ft. : Cont.(S1) : F : 1.00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

16 / 16

14/04/2022

Date









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	CC029A		84JMV-S		182/4JM HP(kW) 2				INSCLFAT 80	NEMA NOM	USABLE @	3: 2.0HP 5	6A 945	
MADE IN MEXICO	_	W01.TO0IC0X0N	MODEL 002120T3E184JMV-S	24JUL2020 S/N:	1	V 230/460	A 5.90/2.95	9/3.39	SF 1.15 INS C	PF 0.73	ALT 1000 m.a.s.l. USABLE @	ALTERNATE RATING:	6.96-6.34/3.48-3.36A	

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	116	ပ္ပ	녌	4	2%	52A	90-2
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	165	CONT.	CODE J	40°C	%	_	190-220/380	EFF 83.0%	T1-BLU
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RPM

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)LTAGE HIGH

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VARNING: Motor must be grounded in accordance with local and national MOBIL POLYREX EM electrical codes to prevent serious electrical shocks. Disconnect power on V INTERCHANGE ANY TWO LINE WIRES TO RE Inverter duty motor For 80Hz use 6205-ZZ ODE source before servicing unit. 5207-ZZ

AVERTISSEMENT: Le moteur doit être mis à la terre conformément

sux codes électriques locaux et nationaux afin d'éviter tout choc

