DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code:

Efficiency Three-Phase

Catalog #: 00518ET3E184JM-S

13180545

Frame : 182/4JM Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 84.0 lb Altitude

Protection degree : IP55 Moment of inertia (J) : 0.3080 sa.ft.lb

Dosign		. IP33	Moment of mertia (3)	. 0.3060 Sq.11.1b
Design		: B		
Output [HP]		5	5	5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		13.0/6.49	15.8/7.88	14.3/7.59
L. R. Amperes [A]		90.9/45.4	91.4/45.7	91.6/48.6
LRC [A]		7.0x(Code J)	5.8x(Code G)	6.4x(Code H)
No load current [A]	6.89/3.44	6.74/3.37	7.10/3.77
Rated speed [RPN	<i>/</i> I]	1750	1425	1435
Slip [%]		2.78	5.00	4.33
Rated torque [ft.lb]]	15.0	18.4	18.3
Locked rotor torqu	e [%]	220	170	200
Breakdown torque	[%]	300	229	260
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		28s (cold) 16s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		56.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%	88.2	89.7	88.2
Efficiency (%)	50%	88.5	87.9	87.2
Elliciency (70)	75%	89.5	87.2	87.3
	100%	89.5	84.9	85.8
	25%	0.35	0.42	0.37
Power Factor	50%	0.60	0.68	0.63
I OWELL ACTOL	75%	0.73	0.80	0.76
	100%	0.80	0.84	0.82

Non drive end Foundation loads Drive end

Bearing type 6207 ZZ 6205 ZZ Max. traction : 262 lb Sealing V'Ring Without Max. compression : 346 lb

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 14.4A SF 1.00 SFA 14.4A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



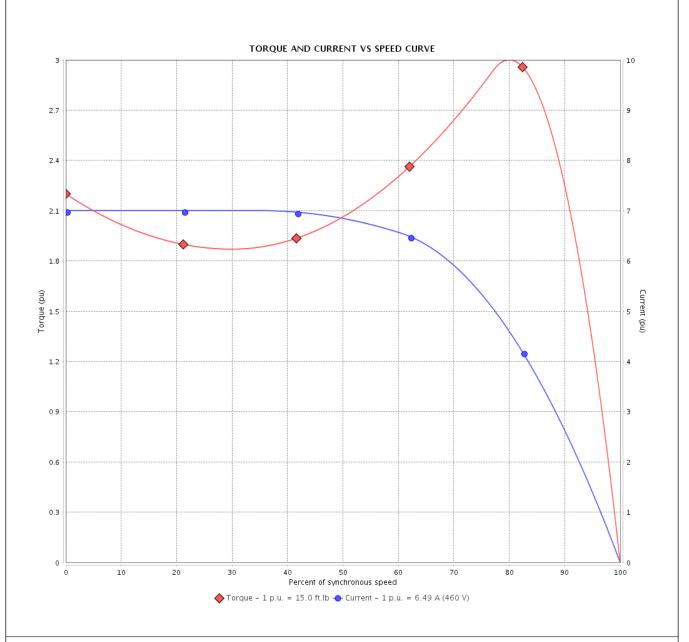
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180545

Catalog #: 00518ET3E184JM-S



Performance : 230/460 V 60 Hz 4P Rated current : 13.0/6.49 A Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : F : 15.0 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/16	

TORQUE AND CURRENT VS SPEED CURVE

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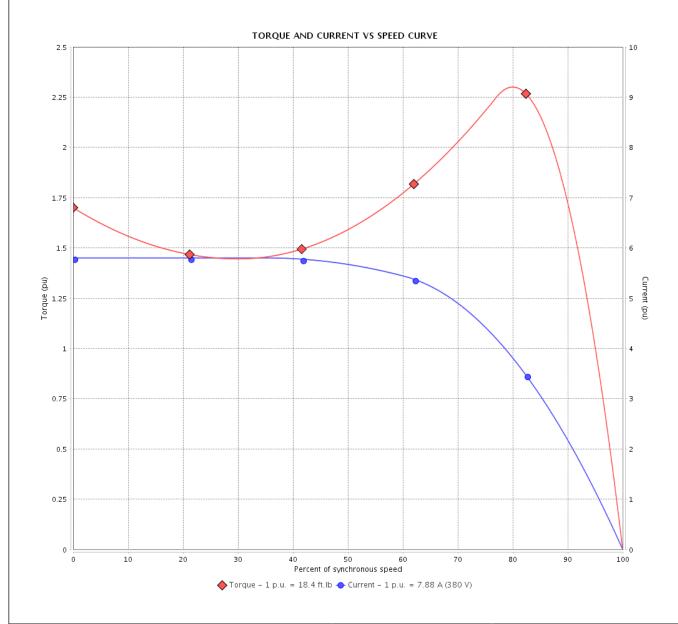
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180545

Catalog #: 00518ET3E184JM-S



Performance : 190/380 V 50 Hz 4P Rated current : 15.8/7.88 A Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 18.4 ft.lb : 1.00 Locked rotor torque : 170 % Service factor Breakdown torque : 229 % Temperature rise : 105 K : B Rated speed : 1425 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	13/04/2022			3 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



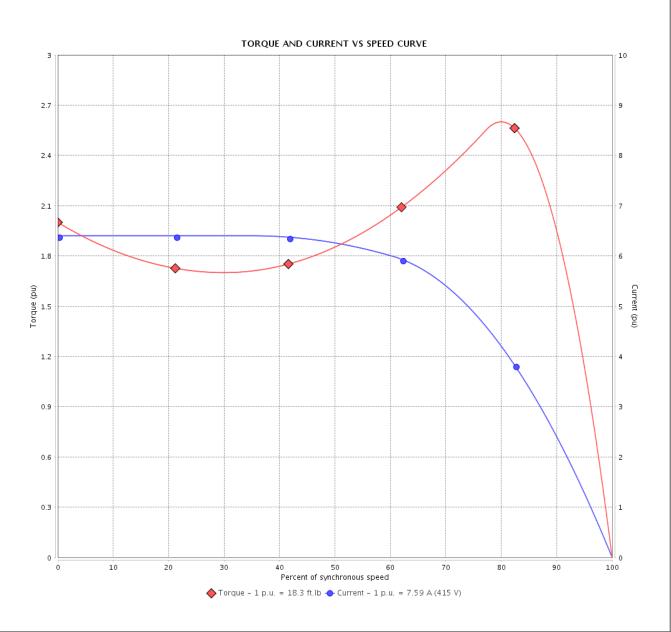
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180545

Catalog #: 00518ET3E184JM-S



Performance : 220/415 V 50 Hz 4P Rated current : 14.3/7.59 A Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.3 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1435 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 16	

LOAD PERFORMANCE CURVE

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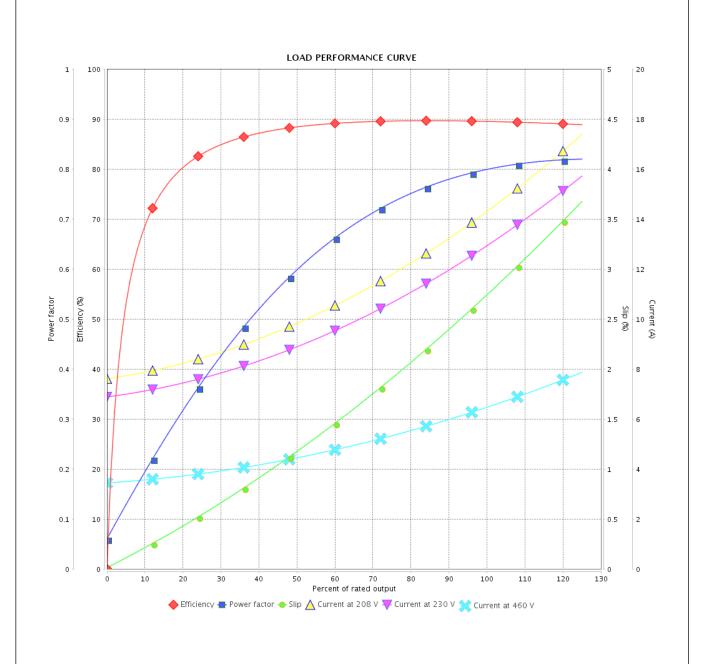
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Product line : JM Pump NEMA Premium Product

Efficiency Three-Phase

Product code: 13180545

Catalog #: 00518ET3E184JM-S



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	ated current : 13.0/6.49 A Mon		l l	f inertia (J)	: 0.3080 sq.ft.lb	
LRC	: 7	.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	5.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	20 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	00 %	Temperati	Temperature rise		
Rated speed	: 1	750 rpm Design		: B		
Rev.		Changes Summary	/	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				5 / 16	

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Three Phase Induction Motor - Squirrel Cage



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Date

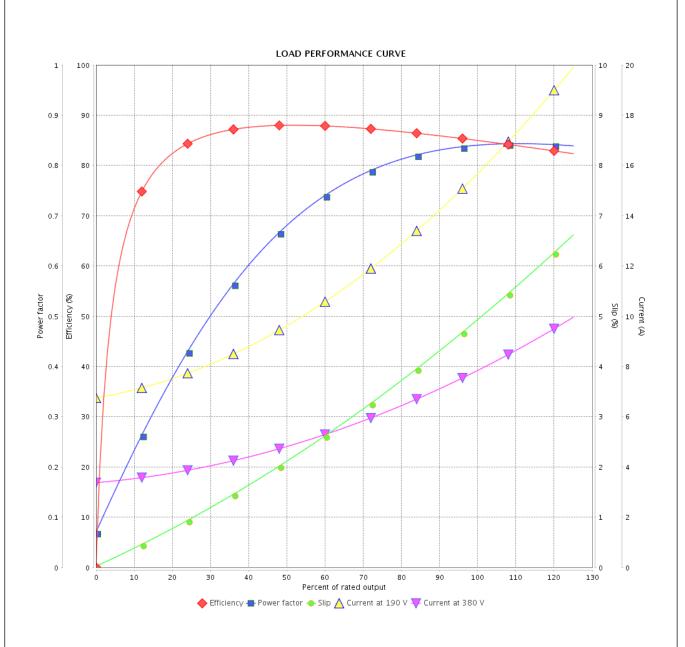
13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180545

Catalog #: 00518ET3E184JM-S



Performance : 190/380 V 50 Hz 4P : 15.8/7.88 A Rated current Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 : 18.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1425 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

6/16

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Three Phase Induction Motor - Squirrel Cage



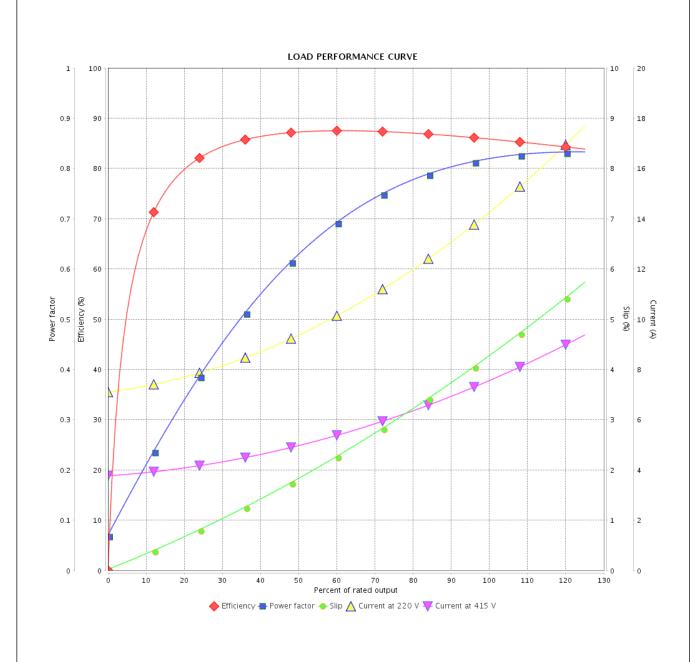
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Efficiency Three-Phase

Product code: 13180545

Catalog #: 00518ET3E184JM-S



Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.3/7.59 A : 6.4 : 18.3 ft.lb : 200 % : 260 % : 1435 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3080 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary	Perf	ormed	Checked	Date
Performed by					
Checked by				Page	Revision

7 / 16

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

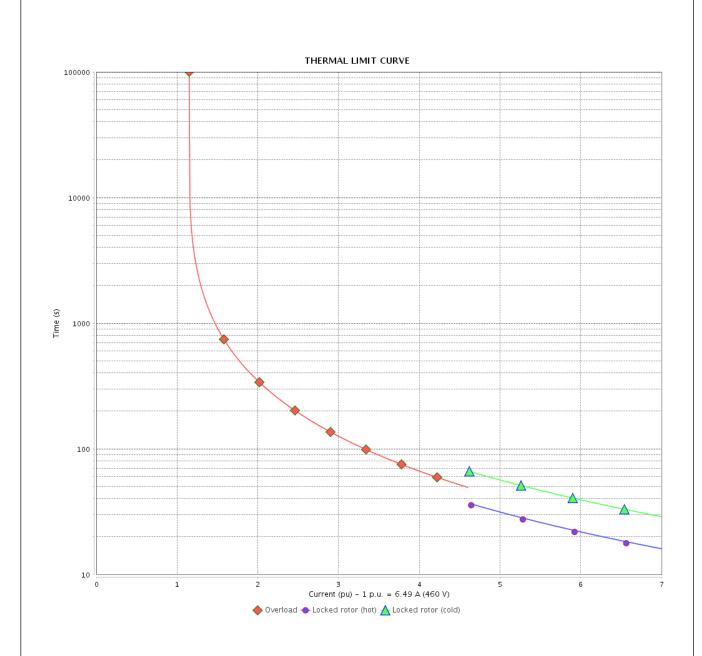


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Product line		JM Pump NEMA Premium	I	Product code :	13180545	
	E	fficiency Three-Phase	(Catalog # :	00518ET3E1	84JM-S
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 13 : 7.	3.0/6.49 A .0	Moment of Duty cycle	f inertia (J)	: 0.3080 sq.ft.l : Cont.(S1)	D
Rated torque	: 19	5.0 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		20 % 00 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		750 rpm	Design		: B	
Heating constant						
Cooling constant			Т			
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
D-4	40/04/0000	-			0 / 40	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	13/04/2022			9 / 16	

Three Phase Induction Motor - Squirrel Cage

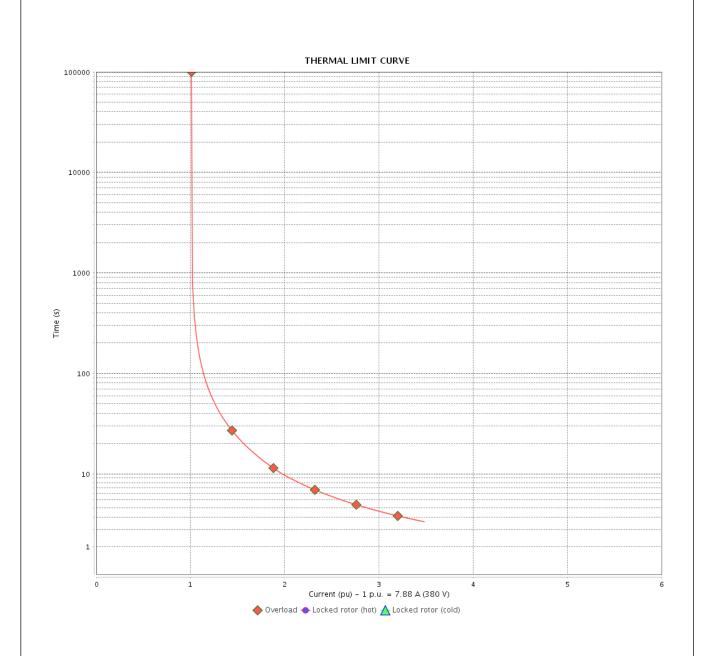


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Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13180545	
	•	Emolericy Tribe Triboo		Catalog # :	00518ET3E1	84JM-S
Performance	: 1	190/380 V 50 Hz 4P				
Rated current		15.8/7.88 A	Moment o	f inertia (J)	: 0.3080 sq.ft.l	b
LRC Rated torque		5.8 18.4 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que : '	170 %	Service fa	ctor	: 1.00	
Breakdown torqu		229 %	Temperati	ure rise	: 105 K : B	
Rated speed		1425 rpm	Design		. D	
Heating constant						
Cooling constant	<u> </u>	Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	13/04/2022				10 / 16	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			11 / 16	

Three Phase Induction Motor - Squirrel Cage

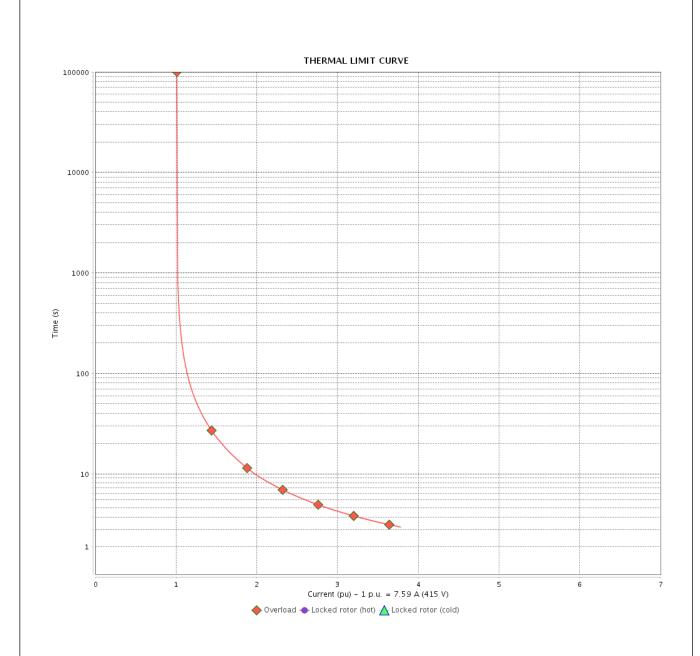


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Product line	:.	JM Pump NEMA Premium	I	Product code :	13180545	
	_	fficiency Three-Phase	(Catalog # :	00518ET3E1	84JM-S
Performance		20/415 V 50 Hz 4P				
Rated current LRC	: 14 : 6.	4.3/7.59 A .4	Moment of Duty cycle	f inertia (J)	: 0.3080 sq.ft.l : Cont.(S1)	b
Rated torque	: 18	8.3 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		00 % 60 %	Service far Temperatu		: 1.00 : 105 K	
Rated speed		435 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		_			Page	Revision
D-/	40/04/0000	-			10 / 10	

Three Phase Induction Motor - Squirrel Cage



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Rev.		Changes Summary		Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			13 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

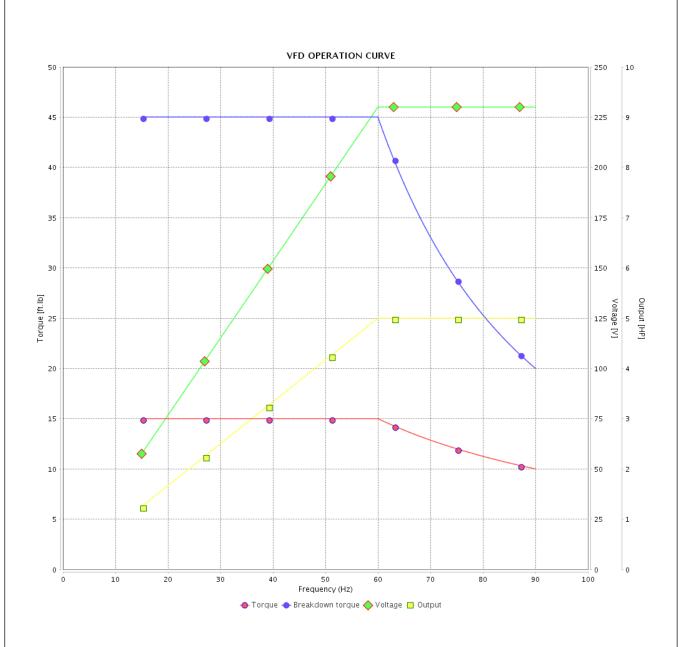
13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180545

Catalog #: 00518ET3E184JM-S



Performance		: 230/460 V 60 Hz	4P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 13.0/6.49 A : 7.0 : 15.0 ft.lb : 220 % : 300 % : 1750 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3080 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Rev.		Changes Summary		Performed	Checked	Date
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Performed by						

Page

14/16

Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

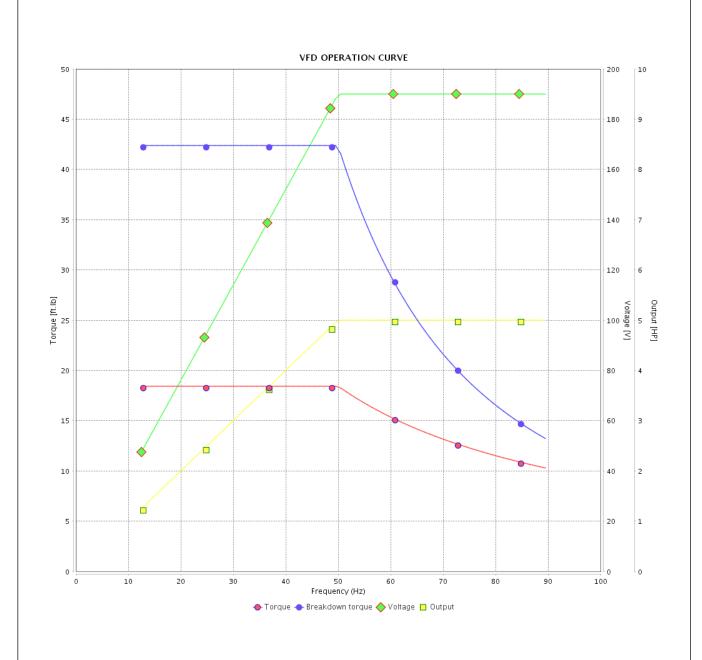
Product code: 13180545

Catalog #: 00518ET3E184JM-S

Page

15 / 16

Revision



Performance	<u> </u>	190/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 1 : 8 : 1 que : 1 ue : 2	15.8/7.88 A 5.8 18.4 ft.lb 170 % 229 % 1425 rpm	Moment of Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3080 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		у	Performed	Checked	Date	
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VFD OPERATION CURVE

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Efficiency Three-Phase

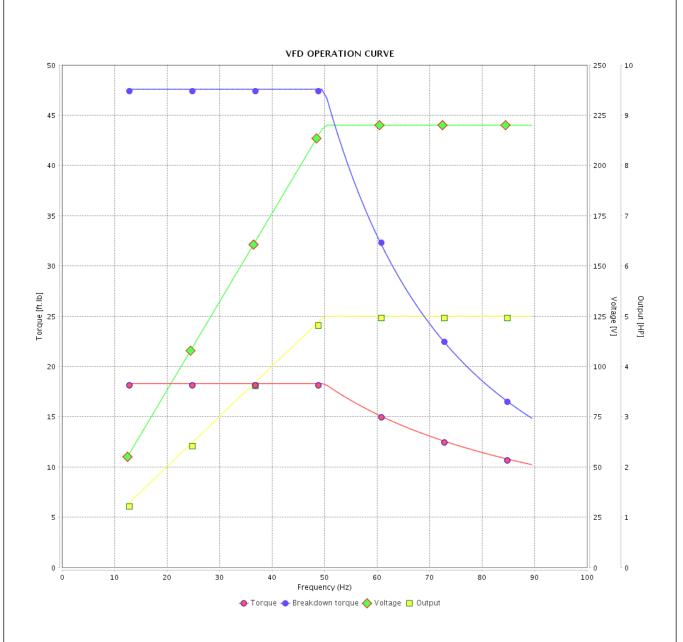
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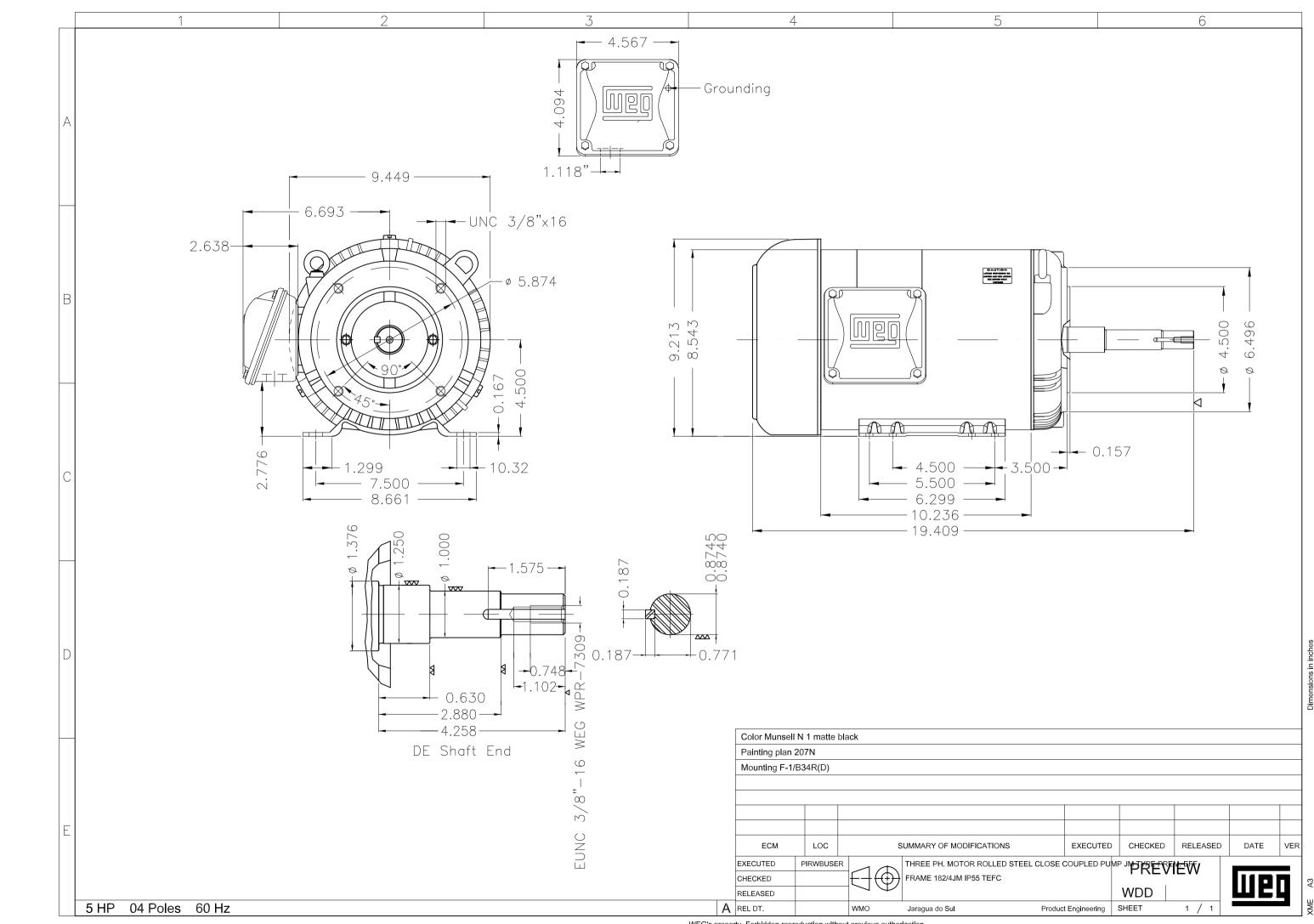
Page

16 / 16

Revision



Performance	: 220/415 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.3/7.59 A : 6.4 : 18.3 ft.lb : 200 % : 260 % : 1435 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3080 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
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MADE IN MÉXICO

Premiur NEX

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(**UL)**US LISTED

FOR SAFE AREA

3PT9

Energy Verifi

MODEL 00518ET3E184JM-S N01.TE0IC0X0N 13180545

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

> Hz 60 S/N 182/4.IM 28MAR2022

CONT

P55 CODE SH 1000 m.a.s.l F AT 80K TEFC 0

SCI

13.0/6.49 14.9/7.46 230/460 15

> SABLE @ 208V 14.4A ALTERNATE RATING:

SF1.00 INC. W

ZPM 3FA 냃 쌆

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 4:1 CT 1425RPM ODE 6205-22 5.0HP 15.8-14.17.88-7.47A

IEC 60034-1

SF1.00

190-220/380-415V

NOM EFF NEMA

50 Hz

EFF 84.9% 89.5%

8207-ZZ

MOBIL POLYREX EM

TE

T2-WHT

T5-BLK 1-BLU

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



T6-GRY T8-RED

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