DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Product code : 13196705

Efficiency Three-Phase

Catalog #: 00518ET3E184JM-SG

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

Insulation class : F Mounting : F-1

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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 84.0 lb
Protection degree : IP55 Moment of inertia (J) : 0.3080 sq.ft.lb

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

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 [RPM]	1750	1425	1435
Slip [%]		2.78	5.00	4.33
Rated torque [ft.lb]		15.0	18.4	18.3
Locked rotor torque [%]		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
Efficiency (%)	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
FUWEI FACIOI	75%	0.73	0.80	0.76
	100%	0.80	0.84	0.82

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

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

Bearing Seal

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

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



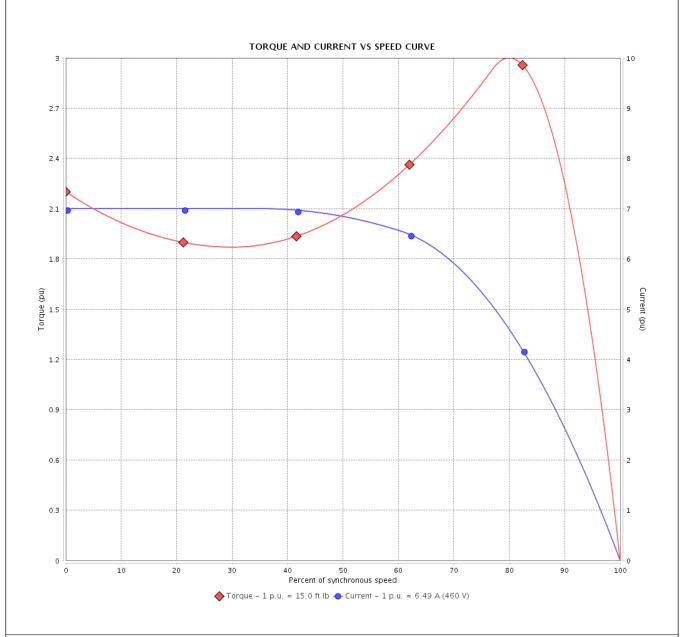
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13196705

Catalog #: 00518ET3E184JM-SG



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 : 1.15 Locked rotor torque : 220 % 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

Three Phase Induction Motor - Squirrel Cage

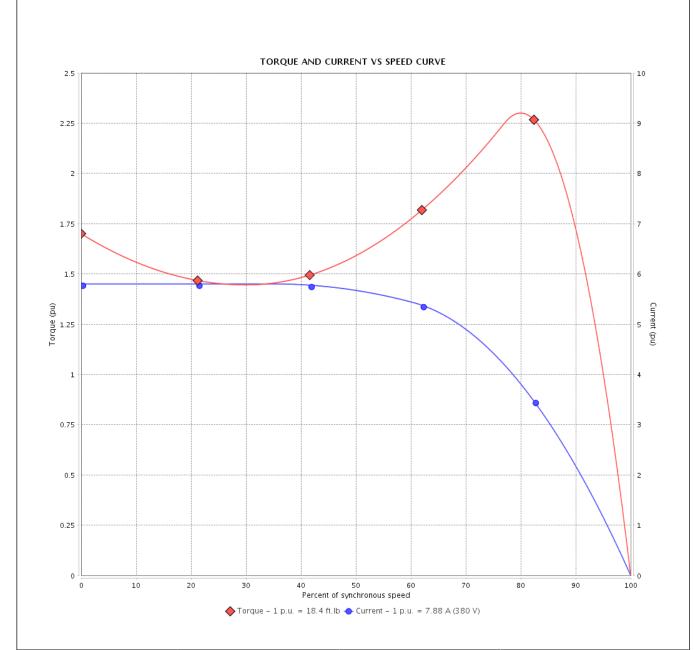


Customer :

Product line : JM Pump NEMA Premium Product code : 13196705

Efficiency Three-Phase

Catalog #: 00518ET3E184JM-SG



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) Rated torque : 18.4 ft.lb Insulation class : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : B : 1425 rpm Design

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

Lookou rotor tim		3 (0014) 00 (1101)			
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



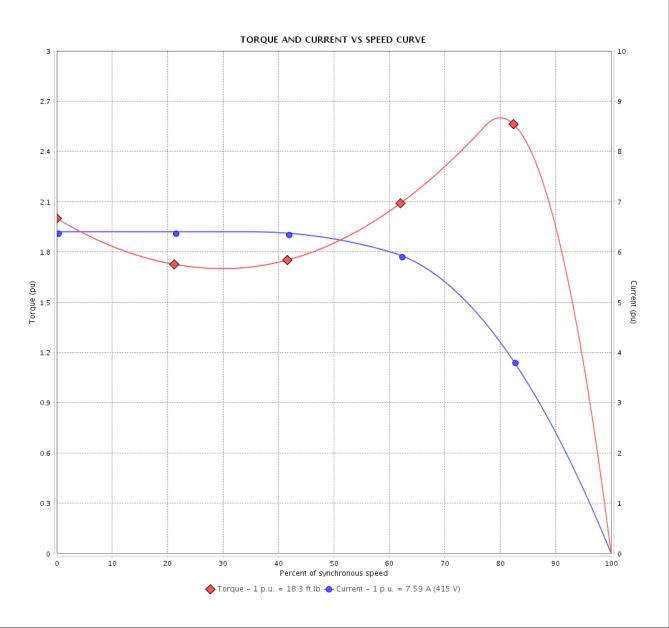
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13196705

Catalog #: 00518ET3E184JM-SG



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) : 18.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 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

Three Phase Induction Motor - Squirrel Cage



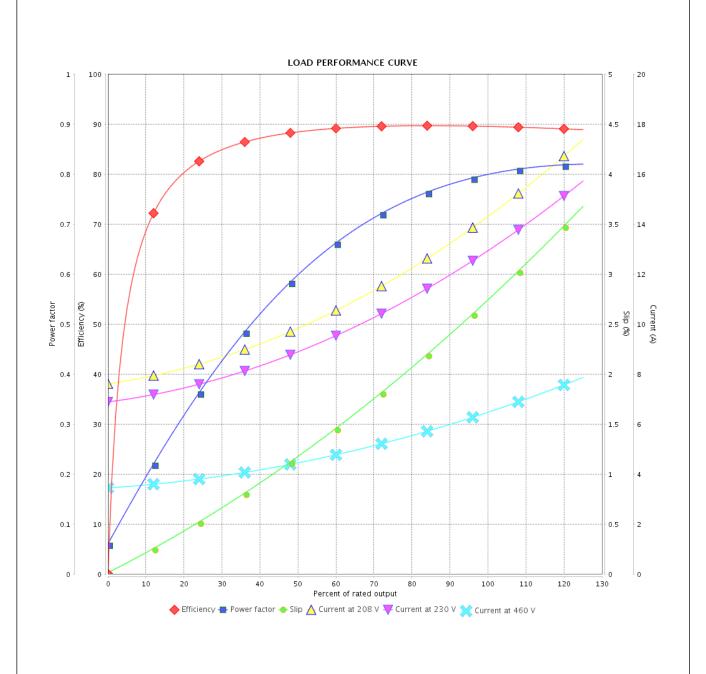
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13196705

Catalog #: 00518ET3E184JM-SG



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: ′	: 13.0/6.49 A Moment of		f inertia (J)	: 0.3080 sq.ft.	.lb
LRC	: 7	7.0	Duty cycle	}	: Cont.(S1)	
Rated torque	: 1	15.0 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 2	220 %	Service fa	ctor	: 1.15	
Breakdown torqu	own torque : 300 % Temperature rise		ıre rise	: 80 K		
Rated speed	: 1	1750 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				5 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

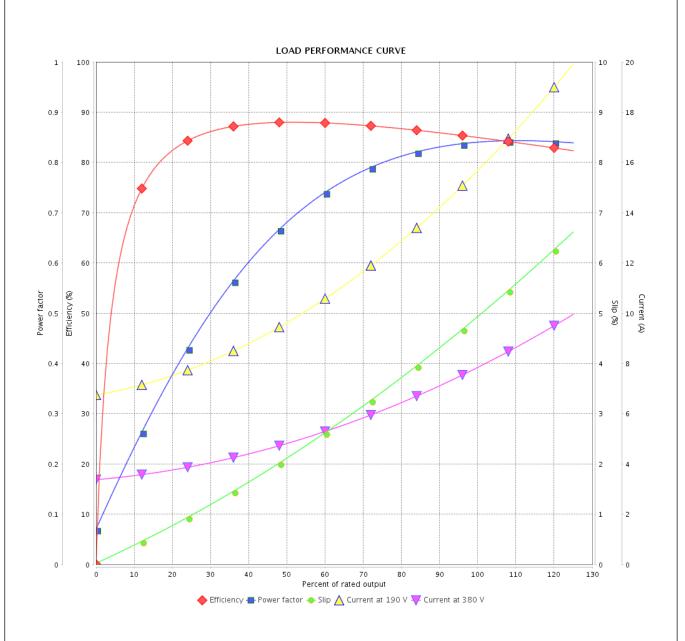
13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13196705

Catalog #: 00518ET3E184JM-SG



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

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



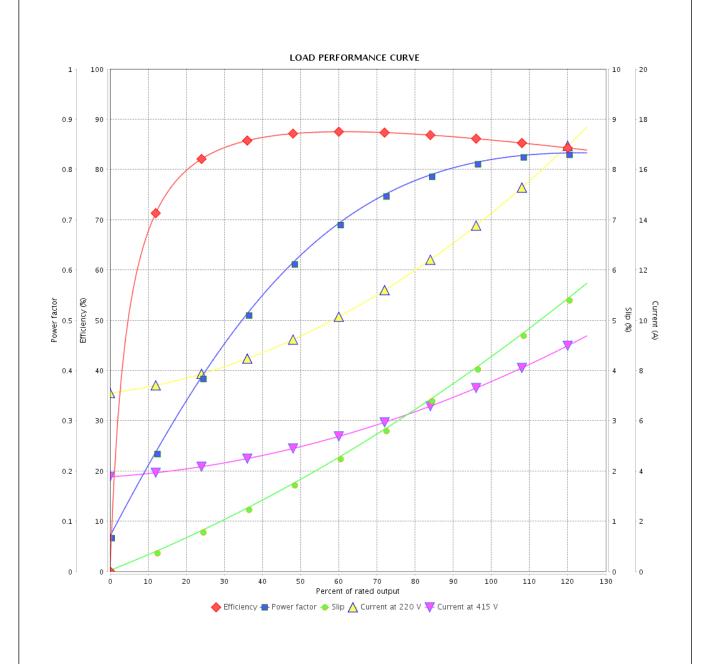
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13196705

Catalog #: 00518ET3E184JM-SG



Performance	: 2	220/415 V 50 Hz 4P				
Rated current	:	14.3/7.59 A	Moment o	f inertia (J)	: 0.3080 sq.ft.lb	
LRC	: (6.4	Duty cycle	;	: Cont.(S1)	
Rated torque	:	18.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie ::	200 %	Service fa	ctor	: 1.00	
Breakdown torque	::	260 %	Temperati	Temperature rise		
Rated speed : 1435		1435 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				7 / 16	

Three Phase Induction Motor - Squirrel Cage

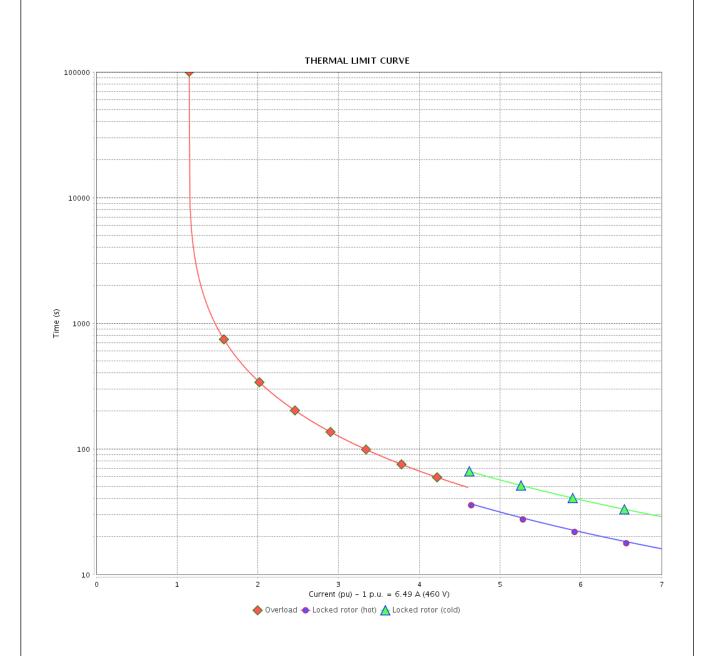


Customer	:					
Product line	:.	JM Pump NEMA Premium	I	Product code :	13196705	
	_	Efficiency Three-Phase		Catalog # :	00518ET3E1	84JM-SG
Performance		30/460 V 60 Hz 4P	Managata	Finantia (I)	. 0 2000 #1	b
Rated current LRC	: 7.		Duty cycle	f inertia (J)	: 0.3080 sq.ft.l : Cont.(S1)	U
Rated torque		5.0 ft.lb 20 %	Insulation Service fa	class	: F : 1.15	
Locked rotor tord Breakdown torqu	ie : 30	00 %	Temperatu		: 80 K	
Rated speed		750 rpm	Design		: B	
Heating constant						
Cooling constant	:	Changes Commercial	Т	Dorform	Chapter-I	Data
Rev.		Changes Summary		Performed	Checked	Date
Performed by					<u> </u>	
Checked by		-			Page	Revision
	40/04/0000	-			1 2/42	

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

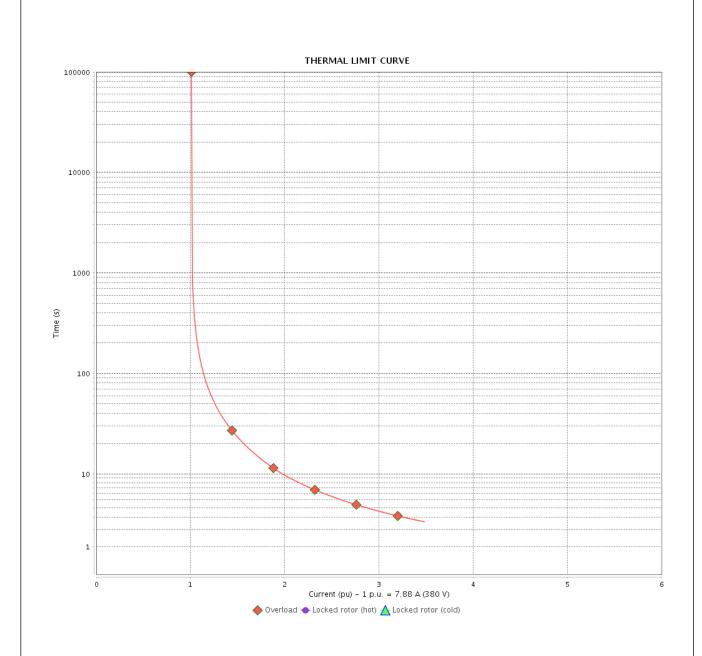


Customer	:			
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code : Catalog # :	13196705 00518ET3E18	34JM-SG
Performance	: 190/380 V 50 Hz 4P			
Rated current LRC	: 15.8/7.88 A : 5.8	Moment of inertia (J) Duty cycle	: 0.3080 sq.ft.lb : Cont.(S1))
Rated torque	: 18.4 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 170 % : 229 %	Service factor Temperature rise	: 1.00 : 105 K	
Rated speed	: 1425 rpm	Design	: B	
Heating constant				
Cooling constant				
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Data 13/04/3	2022		10/16	1.00101011

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

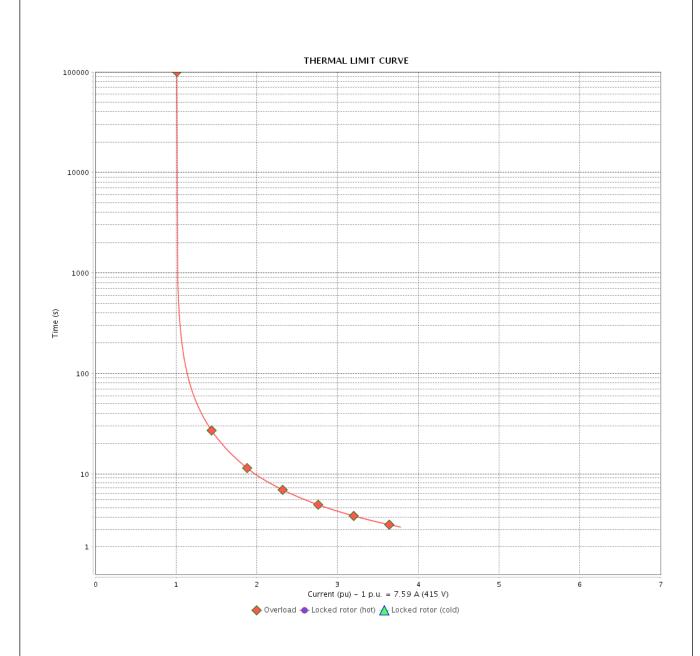


Customer	:					
Product line	:.	JM Pump NEMA Premium	I	Product code :	13196705	
	_	Efficiency Three-Phase		Catalog # :	00518ET3E1	84JM-SG
Performance		20/415 V 50 Hz 4P 4.3/7.59 A	Momont	finartia (I)	· 0 2000 og ft	lh
Rated current LRC	: 6.	4	Duty cycle	f inertia (J)	: 0.3080 sq.ft.l : Cont.(S1)	iu
Rated torque Locked rotor torq		8.3 ft.lb 00 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	e : 20	60 %	Temperatu		: 105 K	
Rated speed		435 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summers	Т	Performed	Checked	Date
rev.		Changes Summary		r enomieu	Checked	Date
Performed by						
Checked by		-			Page	Revision
D /	40/04/2222	1			1 40/40 1	

Three Phase Induction Motor - Squirrel Cage



Customer



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

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

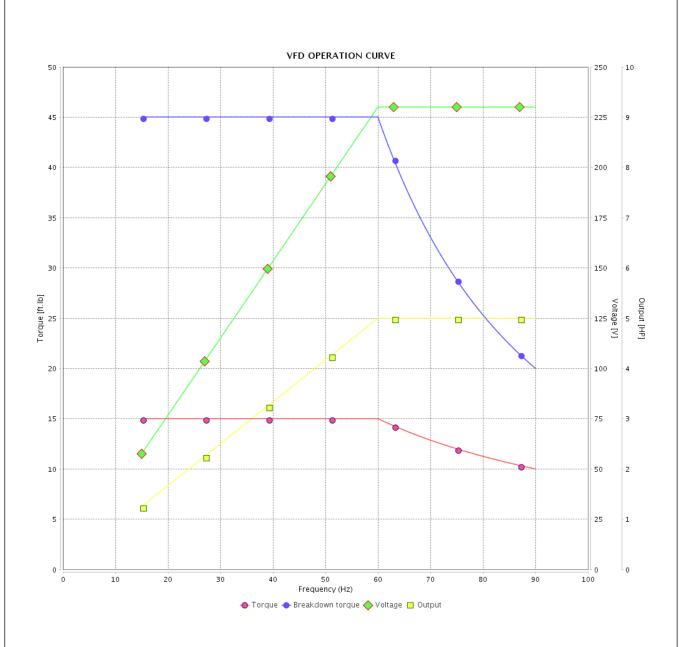
Product code: 13196705

Catalog #: 00518ET3E184JM-SG

Page

14/16

Revision



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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



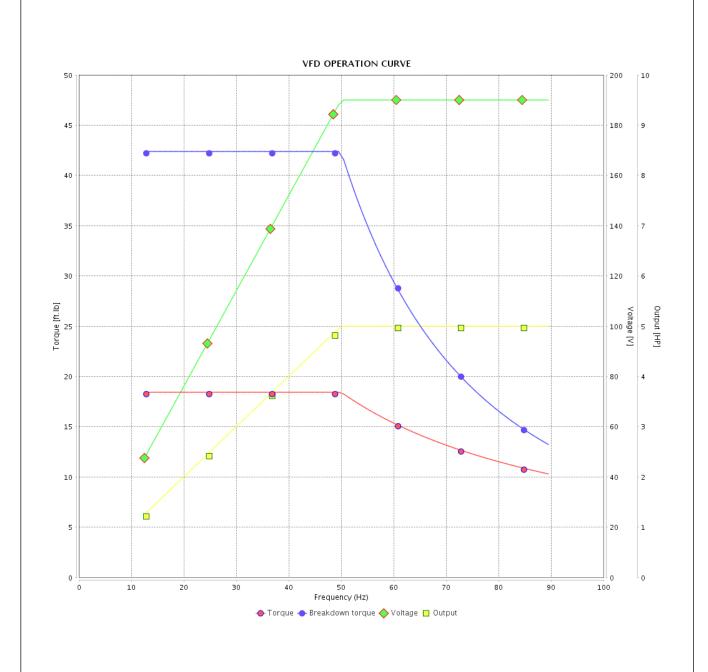
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13196705

Catalog #: 00518ET3E184JM-SG



Performance		: 190/380 V 50 Hz 4P					
Rated current		5.8/7.88 A	Moment o	Moment of inertia (J)		: 0.3080 sq.ft.lb	
LRC :		5.8	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		8.4 ft.lb	Insulation	Insulation class		: F	
Locked rotor torque		170 %	Service fa	Service factor		: 1.00	
Breakdown torque	: 2	229 %	Temperati	Temperature rise		: 105 K	
Rated speed	: 1	425 rpm	Design		: B		
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by					Page	Revision	
Date	13/04/2022				15 / 16		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page 16 / 16

Customer :

Checked by

Date

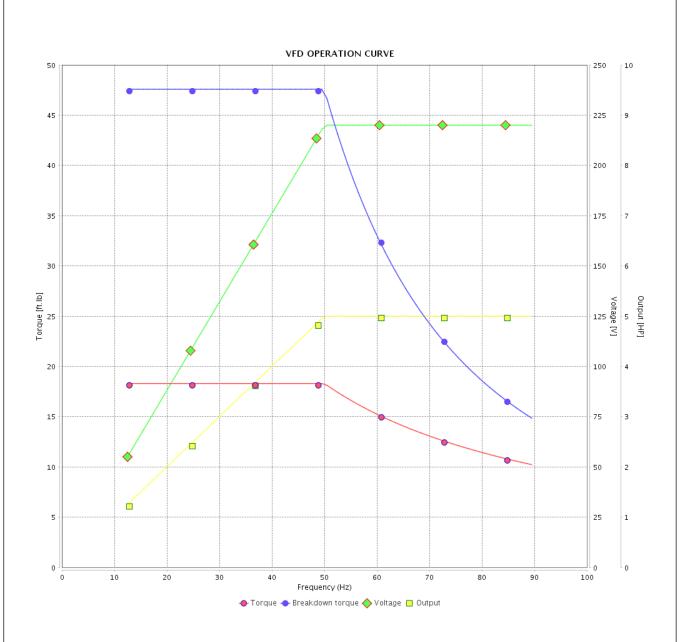
13/04/2022

Product line : JM Pump NEMA Premium

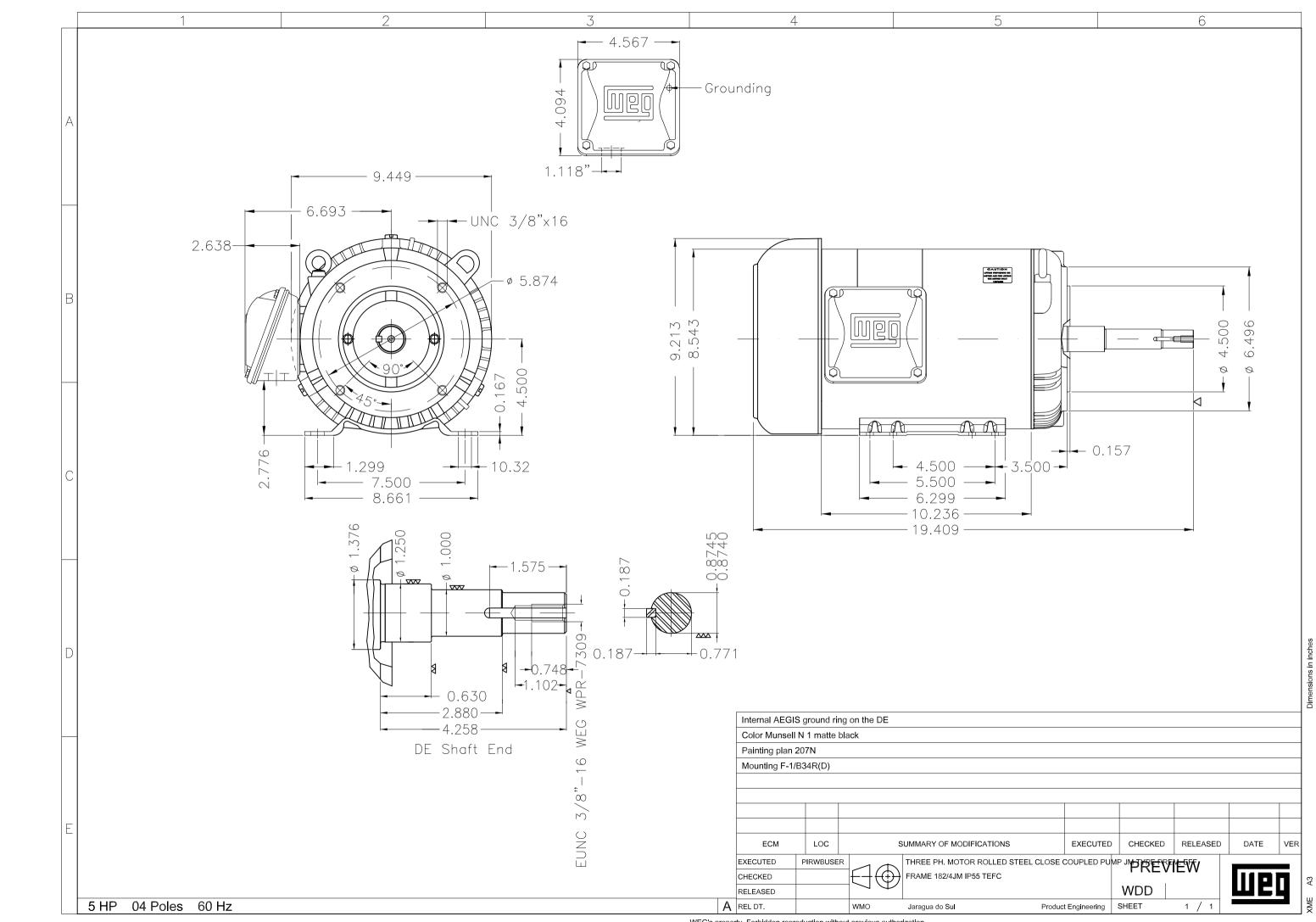
Efficiency Three-Phase

Product code: 13196705

Catalog #: 00518ET3E184JM-SG



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





NEX

3PT9

(**UL)**US LISTED

8 Energy Verifi

> 9 ¥ 182/4.IM

CONT

MODEL 00518ET3E184JM-SG

N01.TE0IC0X0N

S/N

1APR2022

CC029A

13196705

MADE IN MÉXICO

13.0/6.49 14.9/7.46 230/460

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

NS CI

15

3FA 냃 쌆

> LTERNATE RATING: SABLE @ 208V 14.

SF1.00 NCL

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 4:1 CT NOM EFF 1425RPM ZPM 50 Hz 5.0HP

15.8-14.17.88-7.47A

IEC 60034-1

SF1.00

190-220/380-415V

EFF 84.9% 89.5%

MOBIL POLYREX EM

ODE 6205-22

8207-ZZ

삠

T6

T2-WHT

11-BLU

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

AVERTISSEMENT: Le moteur doit être mis à la terre

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

shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

T8-RED RED T6-GRY T4-YEL r3-org T7-PNK T9-BRK T5-BLK