DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13221482

Catalog #: 00318ET3E182JM-SG

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

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 Altitude : 1000 m.a.s.l. Approx. weight³ : 91.2 lb

Protection degree Design		: IP55 : B	Moment of inertia (J)	: 0.4017 sq.ft.lb
Output [HP]		3	3	3
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		7.62/3.81	9.08/4.54	8.30/4.40
L. R. Amperes [A]		67.1/33.5	60.8/30.4	62.3/33.0
LRC [A]		8.8x(Code K)	6.7x(Code H)	7.5x(Code J)
No load current [A	.]	4.00/2.00	3.95/1.97	3.99/2.11
Rated speed [RPI		1765	1455	1460
Slip [%]		1.94	3.00	2.67
Rated torque [ft.lb]	8.93	10.8	10.8
Locked rotor torqu		220	170	200
Breakdown torque	: [%]	300	260	290
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		32s (cold) 18s (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%	86.4	88.2	87.8
Efficiency (%)	50%	87.5	87.5	87.2
Elliciency (70)	75%	88.5	87.7	87.9
	100%	89.5	86.7	87.0
	25%	0.36	0.42	0.39
Power Factor	50%	0.61	0.68	0.65
1 OWEI FACIOI	75%	0.74	0.79	0.77
	100%	0.81	0.85	0.83

Drive end Non drive end Foundation loads

Bearing type 6207 ZZ 6205 ZZ Max. traction : 154 lb Sealing V'Ring Without Max. compression : 245 lb

Bearing Seal

Lubrication interval Lubricant amount

Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 8.43A SF 1.00 SFA 8.43A

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



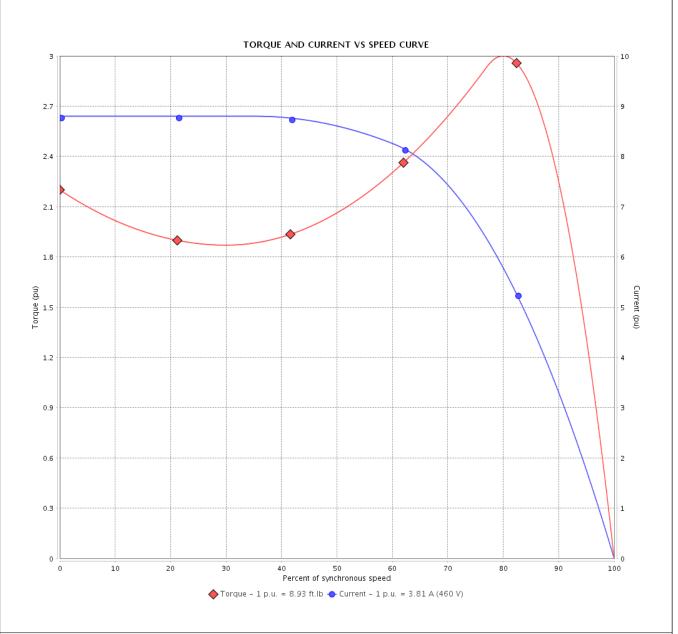
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13221482

Catalog #: 00318ET3E182JM-SG



Performance : 230/460 V 60 Hz 4P Rated current : 7.62/3.81 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 8.8 Duty cycle : Cont.(S1) : F : 8.93 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 220 % Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



Three Phase Induction Motor - Squirrel Cage Customer Product line : JM Pump NEMA Premium Product code: 13221482 Efficiency Three-Phase Catalog #: 00318ET3E182JM-SG TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) Current 1.2 0.6 0.3 Percent of synchronous speed ♦ Torque – 1 p.u. = 10.8 ft.lb ♦ Current – 1 p.u. = 4.54 A (380 V)

Performance : 190/380 V 50 Hz 4P Rated current : 9.08/4.54 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 10.8 ft.lb Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 1455 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



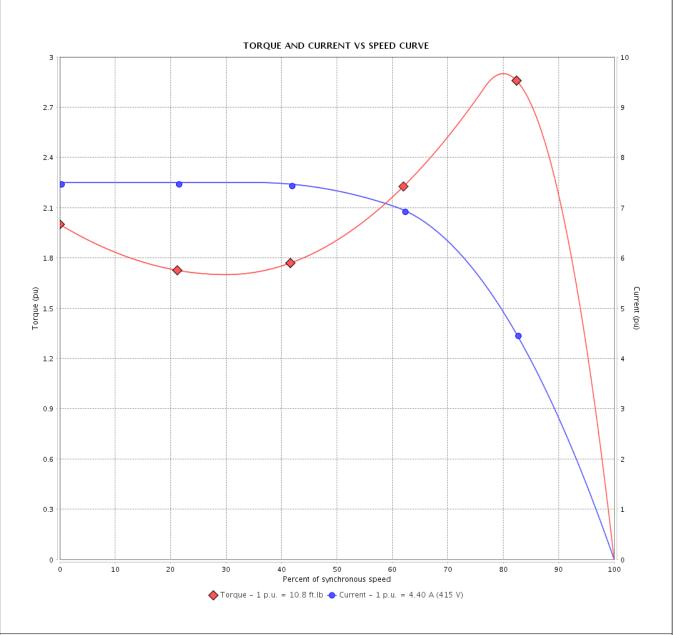
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13221482

Catalog #: 00318ET3E182JM-SG



Performance : 220/415 V 50 Hz 4P Rated current : 8.30/4.40 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : F : 10.8 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



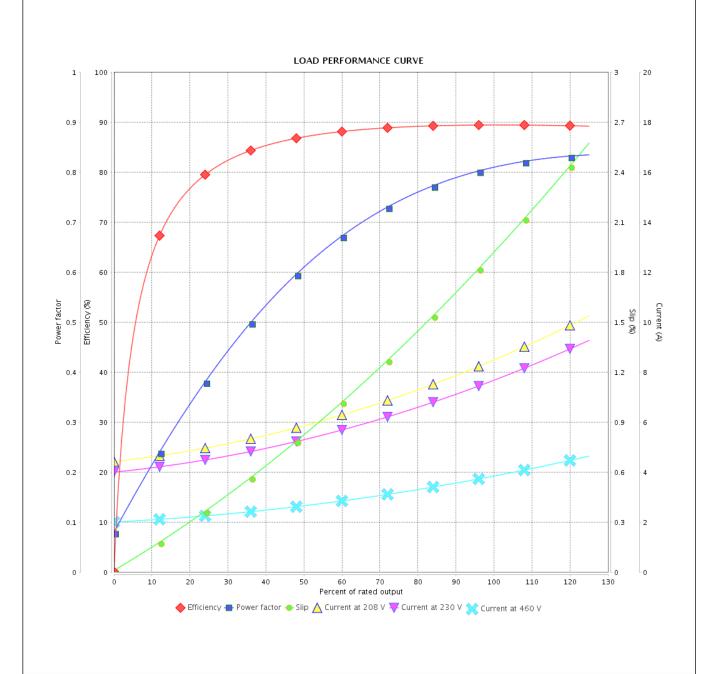
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Performance	formance : 230/460 V 60 Hz 4P					
Rated current : 7.62/3.81 A		Moment o	Moment of inertia (J)		.lb	
LRC	:	: 8.8 Duty		;	: Cont.(S1)	
Rated torque	ated torque : 8.93 ft.lb		Insulation	class	: F	
Locked rotor torqu			Service fa	ctor	: 1.15	
Breakdown torque : 30		300 %	Temperati	Temperature rise		
Rated speed	:	1765 rpm	Design		: B	
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Customer :

Date

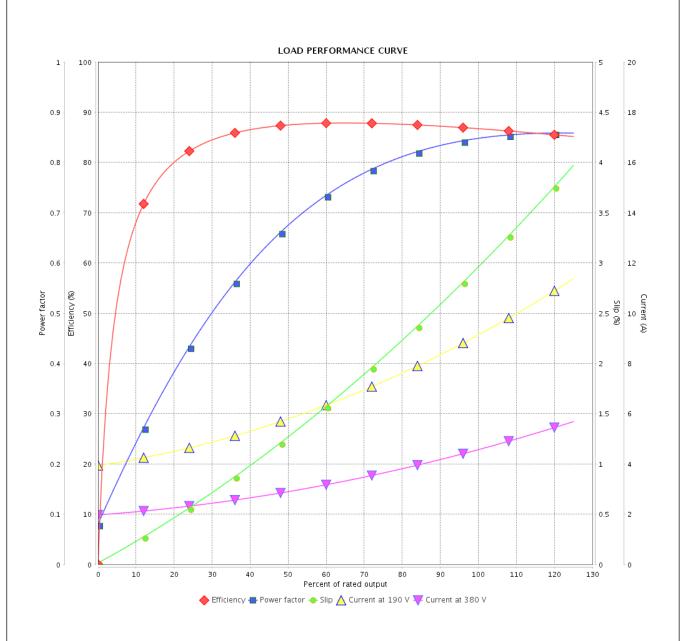
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Performance : 190/380 V 50 Hz 4P Rated current : 9.08/4.54 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 10.8 ft.lb : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



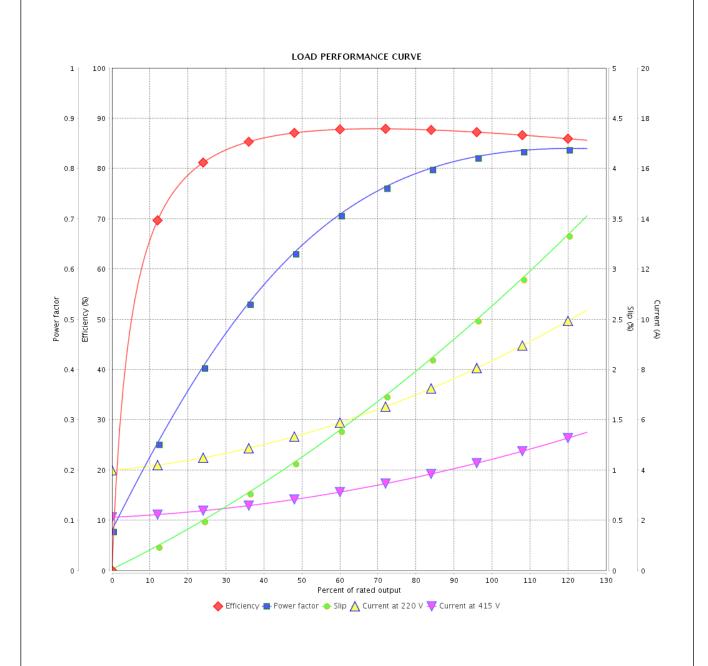
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Performance	: :	: 220/415 V 50 Hz 4P				
Rated current	Rated current : 8.30/4.40 A		Moment o	f inertia (J)	: 0.4017 sq.ft.	lb
LRC	: '	7.5	Duty cycle	;	: Cont.(S1)	
Rated torque	:	10.8 ft.lb	Insulation	class	: F	
Locked rotor torque : 200 %		200 %	Service fa	ctor	: 1.15	
Breakdown torque	::	290 %	Temperature rise		: 80 K	
Rated speed	:	1460 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

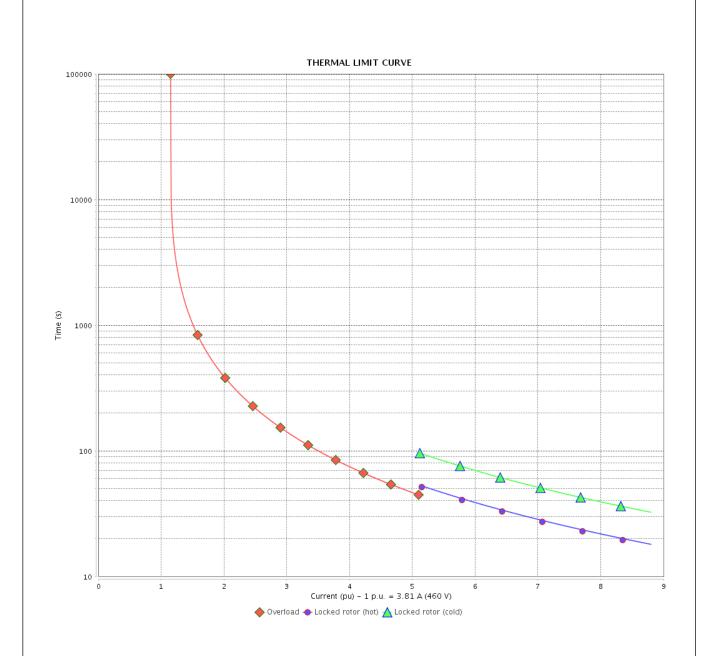


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13221482	
		Elliciency Three-Friase		Catalog # :	00318ET3E1	82JM-SG
Performance	:	230/460 V 60 Hz 4P				
Rated current		7.62/3.81 A	Moment o	of inertia (J)	: 0.4017 sq.ft.l	lb
LRC		8.8	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		8.93 ft.lb 220 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ue :	300 %	Temperat		: 80 K	
Rated speed	:	1765 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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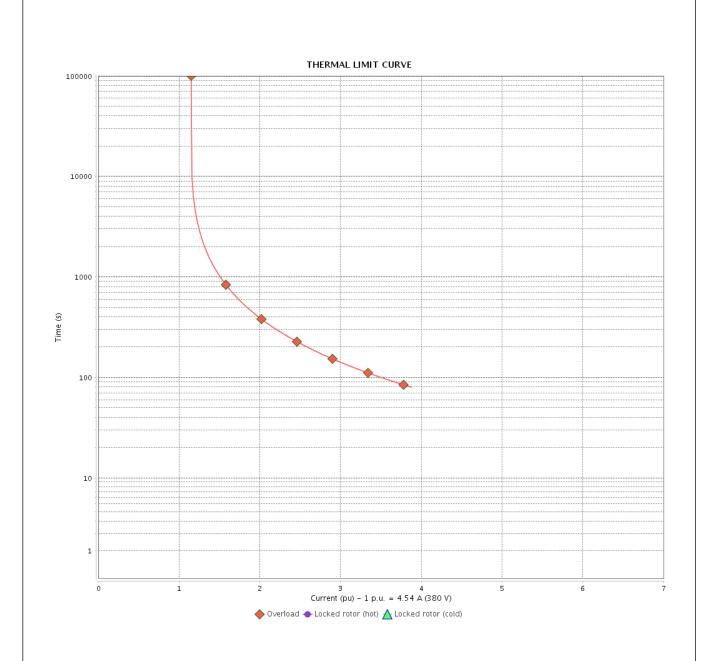


Customer		:				
D 1 1"				.	40004400	
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13221482	
		,		Catalog # :	00318ET3E1	82JM-SG
Performance		190/380 V 50 Hz 4P				
Rated current		9.08/4.54 A	Moment o	f inertia (J)	: 0.4017 sq.ft.l	b
LRC	:	6.7	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor tord		10.8 ft.lb 170 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie :	260 %	Temperati		: 80 K	
Rated speed		1455 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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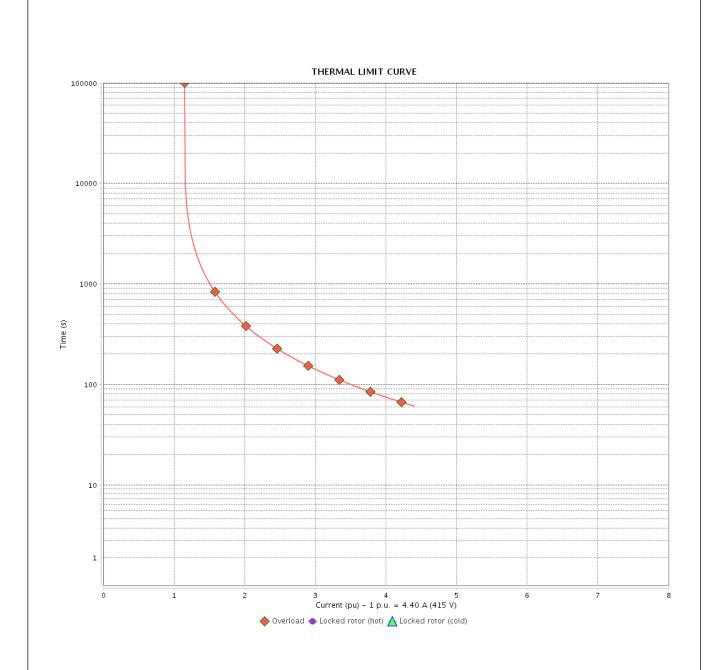


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D 1 1 1 1				.	40004400	
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Performance		220/415 V 50 Hz 4P				
Rated current		8.30/4.40 A	Moment o	f inertia (J)	: 0.4017 sq.ft.l	b
LRC	:	7.5	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torc		10.8 ft.lb 200 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		290 %	Temperati		: 80 K	
Rated speed		1460 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



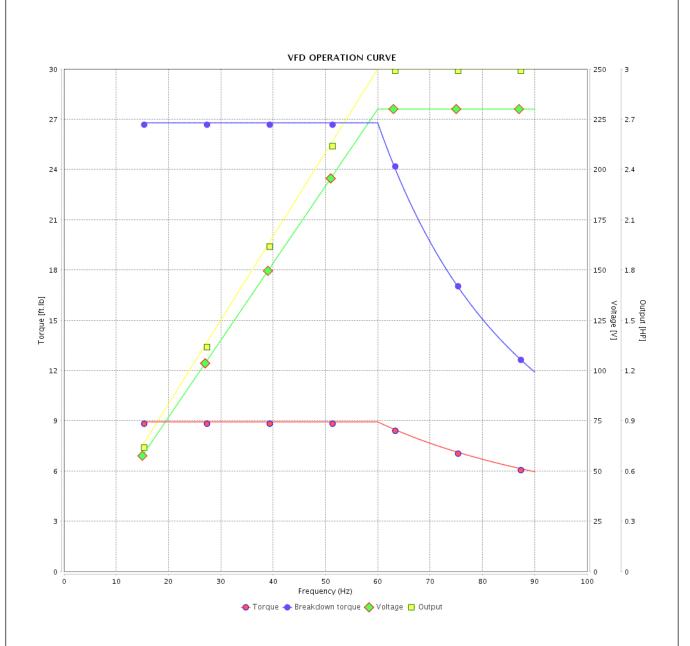
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Performance : 230/460 V 60 Hz 4P : 7.62/3.81 A Rated current Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.8 Insulation class Rated torque : 8.93 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary**

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



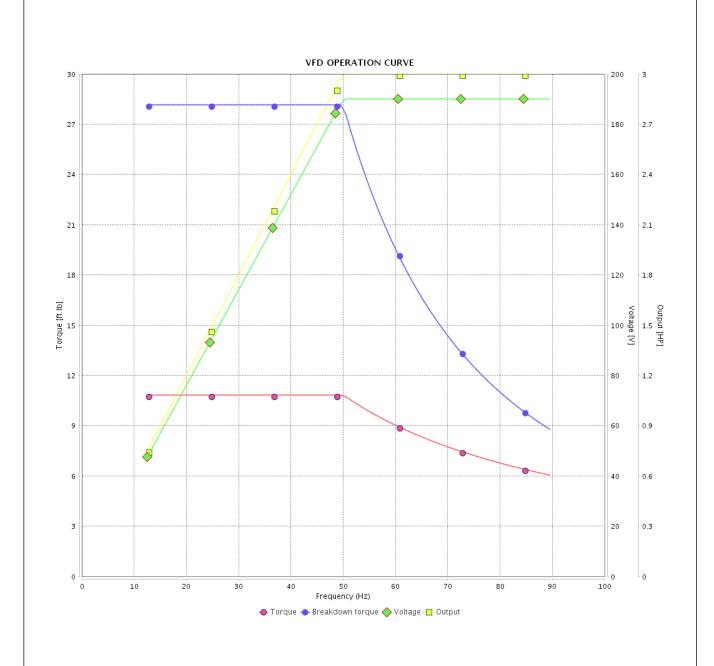
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Performance :		: 190/380 V 50 Hz 4P					
Rated current		08/4.54 A Moment of inertia (J)		: 0.4017 sq.ft.lb			
LRC		.7		Duty cycle		: Cont.(S1)	
Rated torque		0.8 ft.lb	Insulation class		:F ,		
Locked rotor torque		70 %	Service factor		: 1.15		
Breakdown torque	: 2	60 %	Temperati	ıre rise	: 80 K : B		
Rated speed	: 1	455 rpm	Design				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



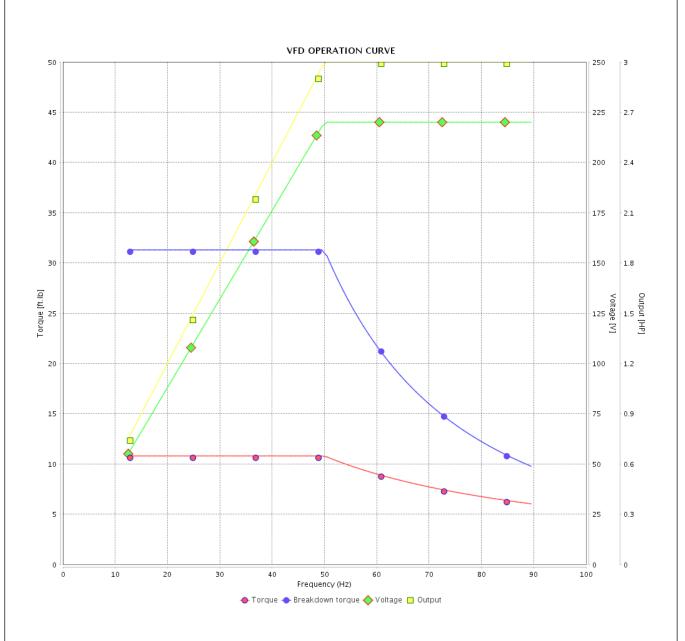
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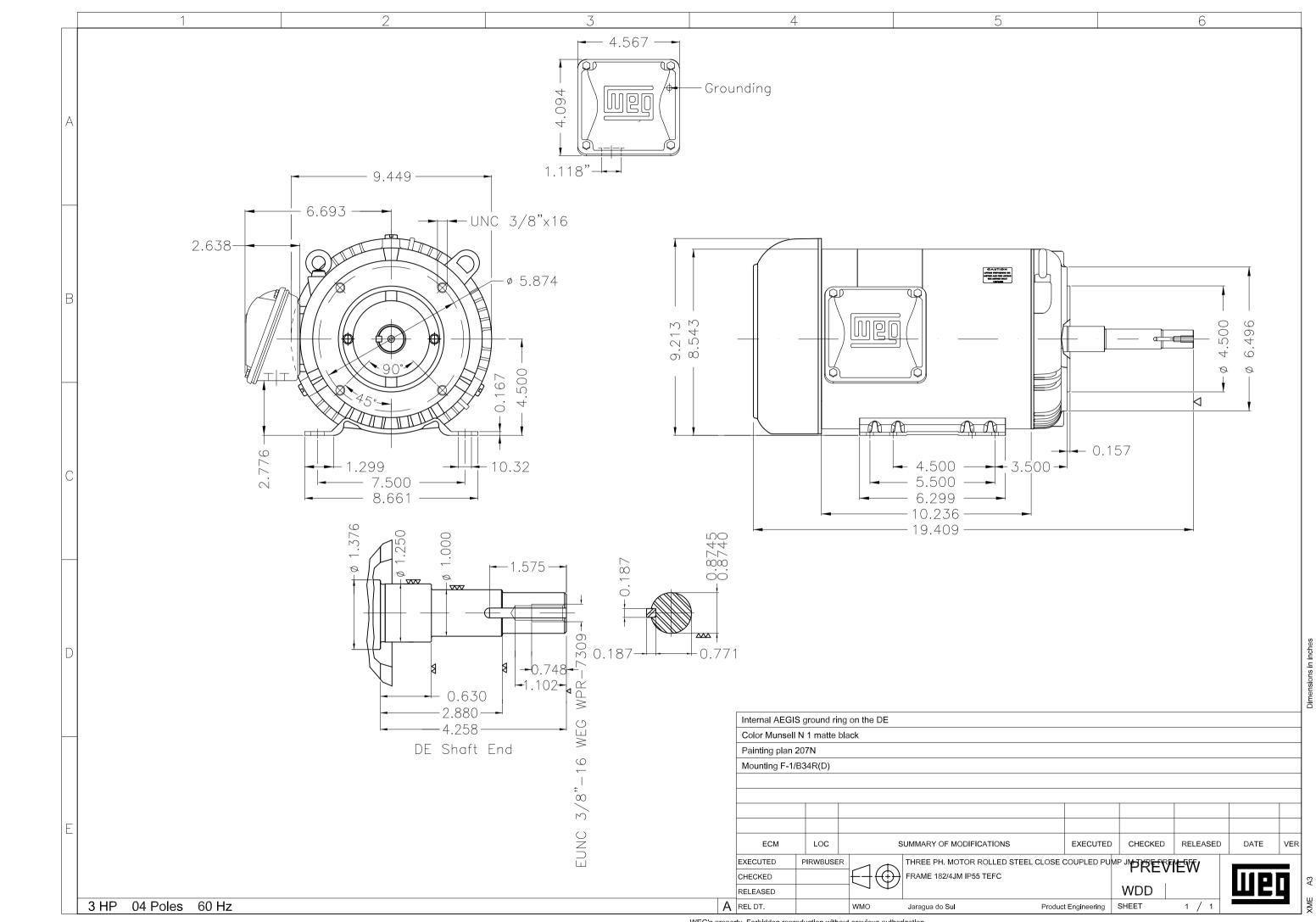


			·		·			
Performance	: 2:	: 220/415 V 50 Hz 4P						
Rated current	: 8.	.30/4.40 A	Moment of inertia (J)		: 0.4017 sq.ft.lb			
LRC	: 7.	.5	Duty cycle		: Cont.(S1)			
Rated torque	: 10	0.8 ft.lb	Insulation class		: F			
Locked rotor tord	que : 20	00 %	Service fa	Service factor		: 1.15		
Breakdown torqu	ie : 29	90 %	Temperati	Temperature rise		: 80 K		
Rated speed	: 14	160 rpm Design		: B				
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Date





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(**VL)**US LISTED

3PT9

Energy Verifi

CC029A W01.TEOICOXON 13221482 MADE IN MÉXICO

JM003404NPW01GR

Hz 60 S/N

182/4.IM 23MAR2022

CONT

3.76/4.38 7.62/3.81 230/460 1.15

P55

1000 m.a.s.l

F AT 80K

NS CI

IEC 60034-1 T6-GRY T8-RED RED T2-WHT T4-YEL SF1.15 Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 4:1 CT r3-org T7-PNK T9-BRK T5-BLK 1-BLU 190-220/380-415V MOBIL POLYREX EM

EFF 88.7% 89.5%

NOM EFF 1455RPM

50 Hz

3.0HP

9.08-8.15/4.54-4.32A

LTERNATE RATING:

ODE 6205-22

8207-ZZ

삠

ZPM 3FA 쑮 쌆

> CODE SH

> TEFC 0

43A

SABLE @ 208V 8.

SF1.00 INC.

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION JT6

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 avant l'entretien de la machine