DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line			Pump NENency Three	//A Premium e-Phase	Product code :	13393204
					Catalog # :	00318ET3H182JM-S
Frame Output Poles			/4JM P (2.2 kW)		Locked rotor time Temperature rise Duty cycle	: 32s (cold) 18s (hot) : 80 K : Cont.(S1)
Frequency Rated voltage Rated current		: 60 H : 575 : 3.09	V		Ambient temperature Altitude Protection degree	: -20°C to +40°C : 1000 m.a.s.l. : IP55
L. R. Amperes LRC		: 26.8 : 8.8	: 26.8 A : 8.8x(Code K)		Cooling method Mounting Rotation ¹	: IC411 - TEFC : F-1
No load current Rated speed Slip		: 176 : 1.94	: 1.60 A : 1765 rpm : 1.94 %		Noise level ² Starting method	: Both (CW and CCW) : 56.0 dB(A) : Direct On Line
Rated torque Locked rotor torque Breakdown torque		: 220	: 8.93 ft.lb : 220 % : 300 %		Approx. weight ³	: 91.0 lb
Insulation class Service factor		: F : 1.1	: 1.15			
Moment of inertian Design	a (J)	: 0.40 : B	017 sq.ft.lb			
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	86.4	87.5	88.5	89.5	Max. traction	: 125 lb
Power Factor	0.36	0.61	0.74	0.81	Max. compression	: 216 lb
D			<u>Drive end</u> : 6207 ZZ		Non drive end 6205 ZZ	
Bearing type Sealing		:	6207 ZZ V'Ring		V'Ring	
Lubrication interval Lubricant amount		:		- - Ma	- - obil Polyrex EM	
Lubricant type		•		IVIC	JOHN TOTYTON LIVI	
NIOTOO						

Notes

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



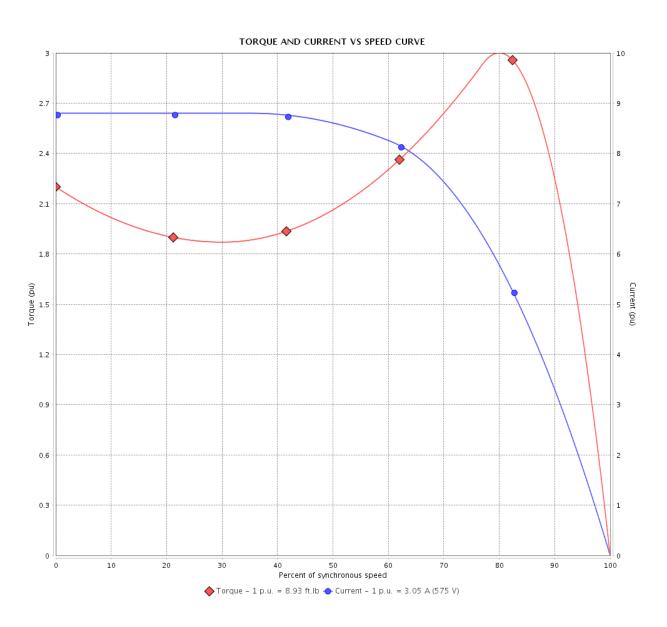
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393204

Catalog #: 00318ET3H182JM-S



Performance : 575 V 60 Hz 4P Rated current : 3.05 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 8.8 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 8.93 ft.lb 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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LOAD PERFORMANCE CURVE

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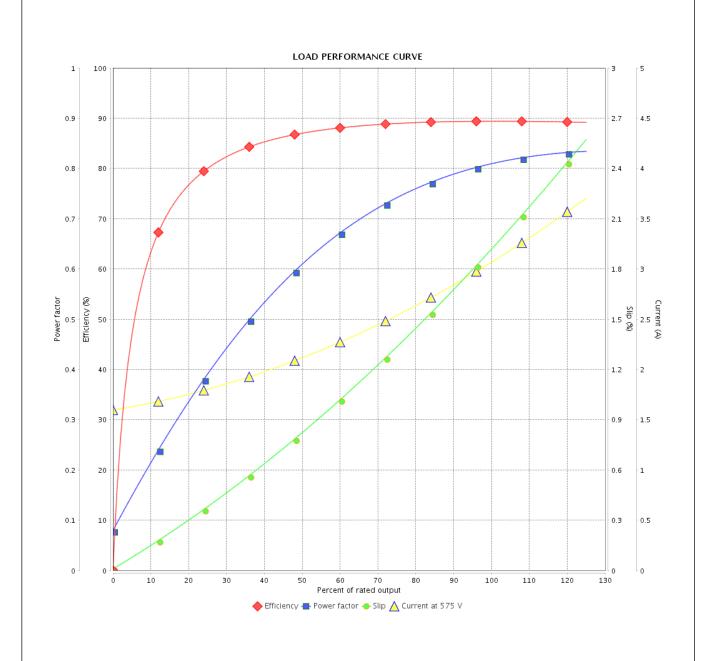
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393204

Catalog #: 00318ET3H182JM-S



Performance	:	: 575 V 60 Hz 4P						
Rated current	:	3.05 A Moment of inertia (J)		f inertia (J)	: 0.4017 sq.ft.lb			
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Rated torque	:	: 8.93 ft.lb Insulation : 220 % Service fa : 300 % Temperat		class	: F : 1.15 : 80 K			
Locked rotor torque	e :			ctor				
Breakdown torque	:			ure rise				
Rated speed	: 1765 rpm		Design	Design				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



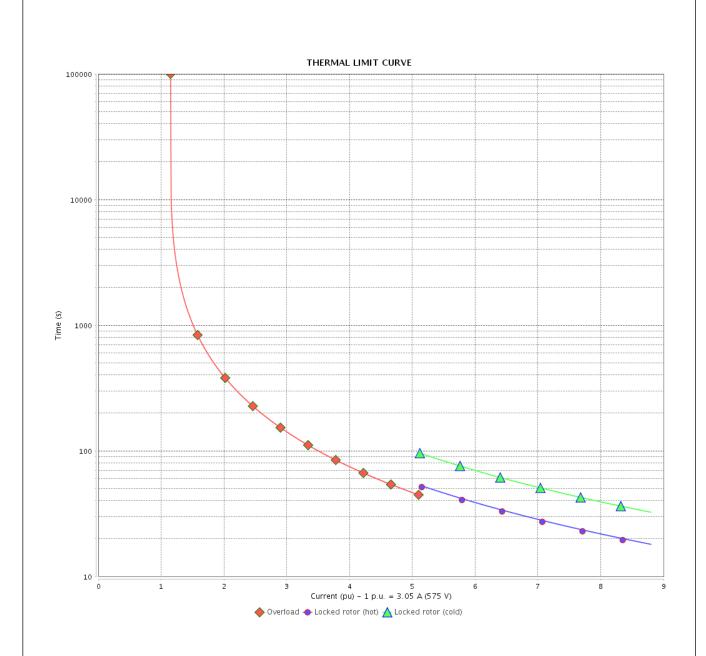
Customer		:				
D 1 1"				5	4000004	
Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :		13393204	
		,		Catalog # :	00318ET3H	182JM-S
Performance		575 V 60 Hz 4P				
Rated current LRC		3.05 A 8.8	Moment of	of inertia (J)	: 0.4017 sq.ft.	b
Rated torque		8.93 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torc	jue :	220 %	Service fa	ctor	: 1.15	
Breakdown torqu Rated speed		300 % 1765 rpm	Temperature rise Design		: 80 K : B	
			- 50.9"		- -	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



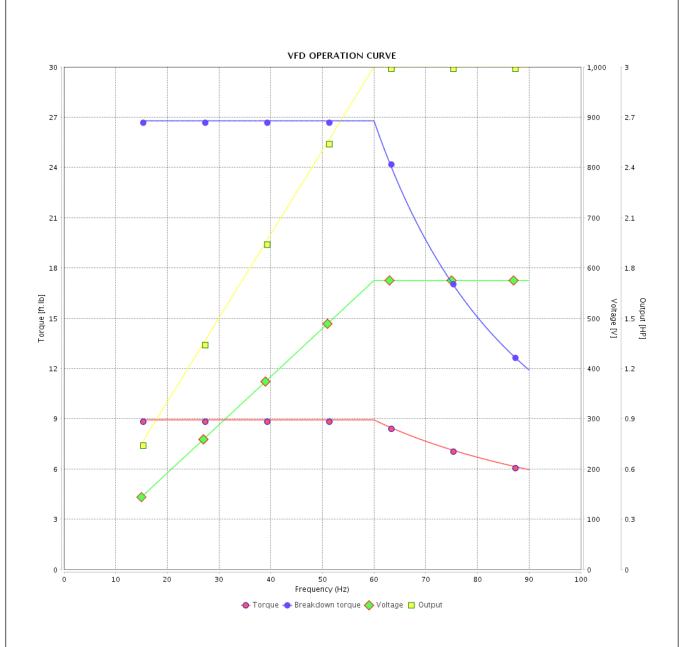
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

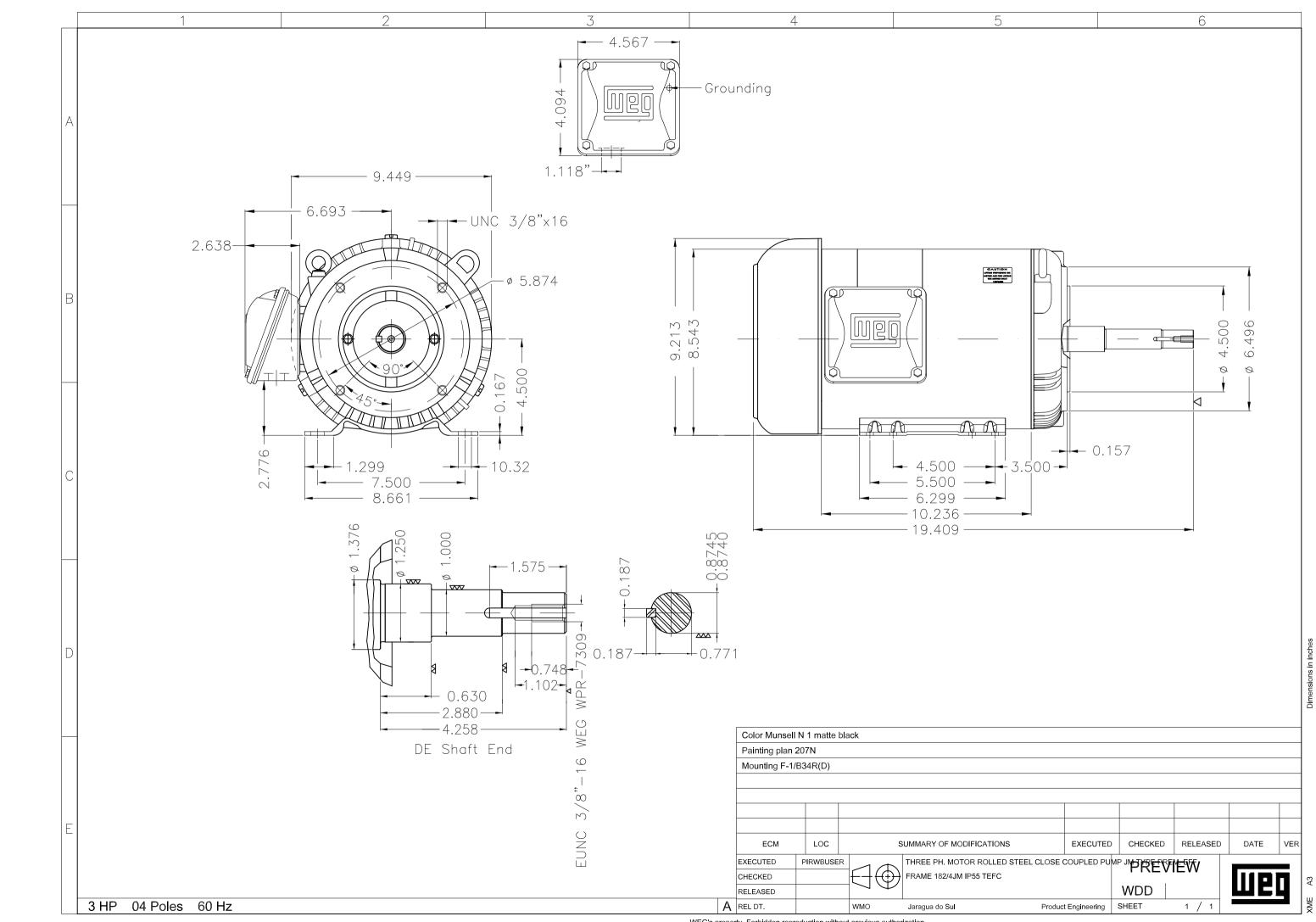
Product code: 13393204

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(**UL)**US LISTED 3PT9 FOR SAFE AREA

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) **&** Energy Verified

CC029A

13393204

T2-WHT r3-ORG T1-BLU T4-YEL For safe area-inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT MOBIL POLYREX EM

ODE 6205-22

8207-ZZ

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NOM. EFF 89.5%

NEMA ZPM 3FA 쑮 쌆

> CODE SH

> TEFC 0

3.05 1.15 575 3.51

1000 m.a.s.l

F AT 80K

NSC INC. WB

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182/4.IM **38APR2022**

CONT

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NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local



choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine 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. ind national electrical codes to prevent serious electrical