DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line		: JM Pump NEMA Premium Efficiency Three-Phase			Product code :	14218529	
					Catalog # :	01518ET3H254JM-SG	
Frame Output		: 254/6JM : 15 HP (11 kW)			Locked rotor time Temperature rise	: 34s (cold) 19s (hot) : 80 K	
Poles Frequency Rated voltage		: 4 : 60 I : 575			Duty cycle Ambient temperature Altitude	: Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.	
Rated current L. R. Amperes		: 14.6 : 94.6	6 A 6 A		Protection degree Cooling method	: IP55 : IC411 - TEFC	
LRC No load current Rated speed		: 6.5x(Code G) : 6.92 A : 1770 rpm			Mounting Rotation ¹ Noise level ²	: F-1 : Both (CW and CCW) : 68.0 dB(A)	
Slip Rated torque		: 1.67 % : 44.5 ft.lb			Starting method Approx. weight³	: Direct On Line : 226 lb	
Locked rotor tord Breakdown torqu Insulation class		: 250 % : 300 % : F					
Service factor Moment of inertia	a (J)	: F : 1.15 : 2.15 sq.ft.lb					
Design	~ (0)	: B					
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%) Power Factor	90.8 0.39	91.0 0.64	92.4 0.76	92.4 0.82	Max. traction Max. compression	: 527 lb : 753 lb	
				e end	Non drive end		
Bearing type		:	: 6309 Z C3		6208 Z C3		
Sealing		:	V'Ring		Without Bearing	Seal	
Lubrication interval		:	20000 h		20000 h		
Lubricant amount Lubricant type		:	1	13 g Ma	8 g bbil Polyrex EM		
Notes					<u> </u>		

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



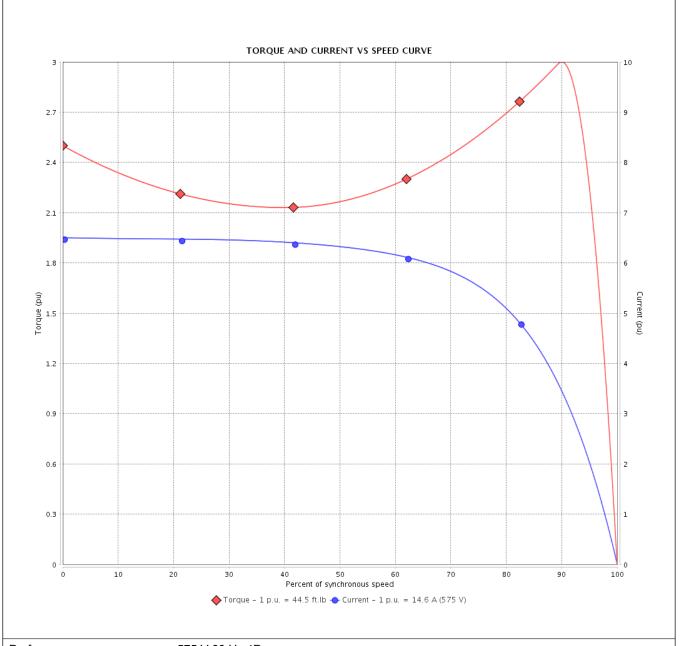
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14218529

Catalog #: 01518ET3H254JM-SG



Performance : 575 V 60 Hz 4P Rated current : 14.6 A Moment of inertia (J) : 2.15 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 44.5 ft.lb : F : 250 % Service factor : 1.15 Locked rotor torque Breakdown torque : 300 % Temperature rise : 80 K Rated speed

Locked rotor time : 34s (cold) 19s (hot)

: 1770 rpm

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/6	

Design

: B

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



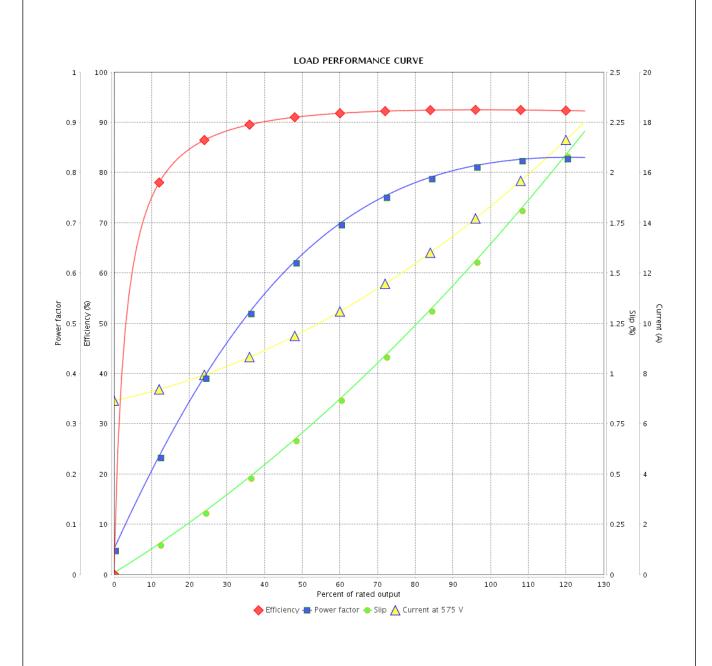
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14218529

Catalog #: 01518ET3H254JM-SG



Performance	: :	575 V 60 Hz 4P				
Rated current		: 14.6 A Moment of		f inertia (J)	: 2.15 sq.ft.lb	
LRC :		6.5	Duty cycle		: Cont.(S1)	
Rated torque	: -	44.5 ft.lb	Insulation class		:F	
Locked rotor torqu	ue ::	250 %	Service factor		: 1.15	
Breakdown torque	e ::	300 %	% Temperature rise		: 80 K	
Rated speed	:	: 1770 rpm Design		: B		
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



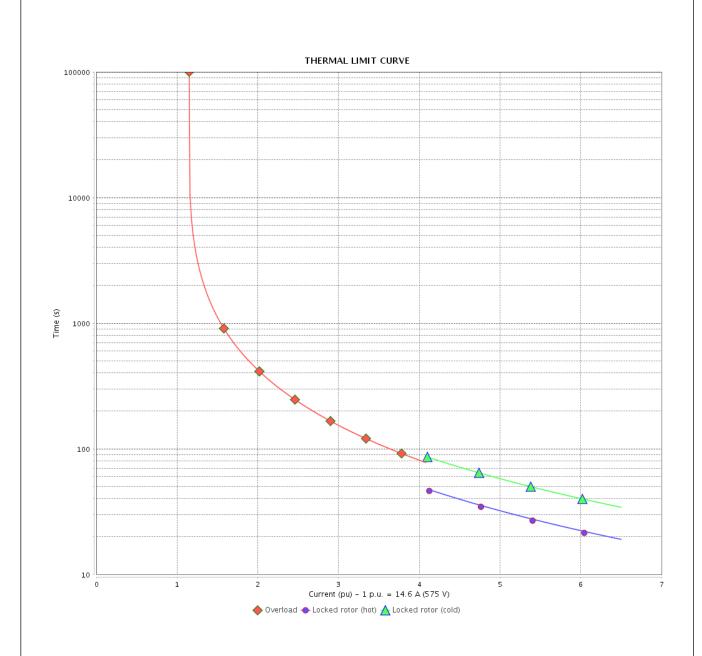
Customer		:				
Dec Letter		IM D NEMA D		De la facilita	44040500	
Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :		14218529	
		,		Catalog # :	01518ET3H2	54JM-SG
Performance		575 V 60 Hz 4P				
Rated current LRC		14.6 A 6.5	Moment of Duty cycle	of inertia (J)	: 2.15 sq.ft.lb : Cont.(S1)	
Rated torque		44.5 ft.lb	Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	250 %	Service fa	ictor	: 1.15	
Breakdown torqu Rated speed		300 % 1770 rpm	Temperati Design	ure rise	: 80 K : B	
		πτοτριπ	Design			
Heating constant						
Cooling constant	•	Ohanna Our		Douf	Chl !	Data
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				4/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
-		_		_	
Checked by				Page	Revision
Date	13/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 6

Customer :

Checked by

Date

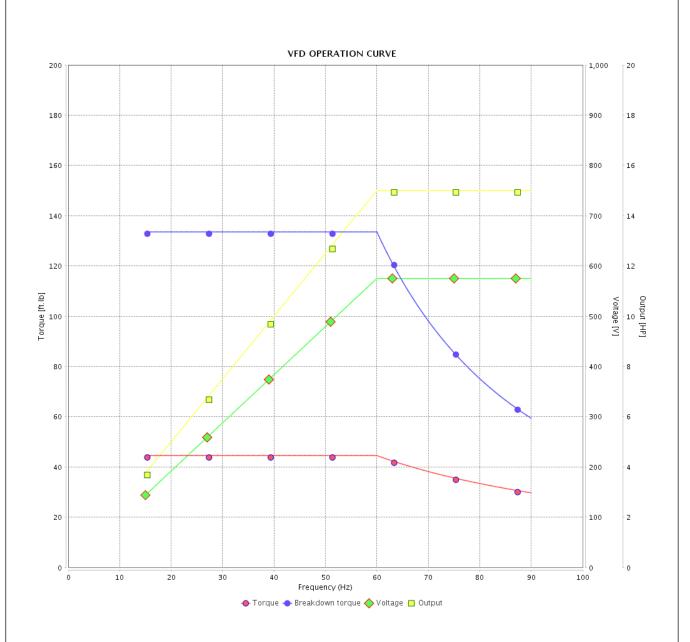
13/04/2022

Product line : JM Pump NEMA Premium

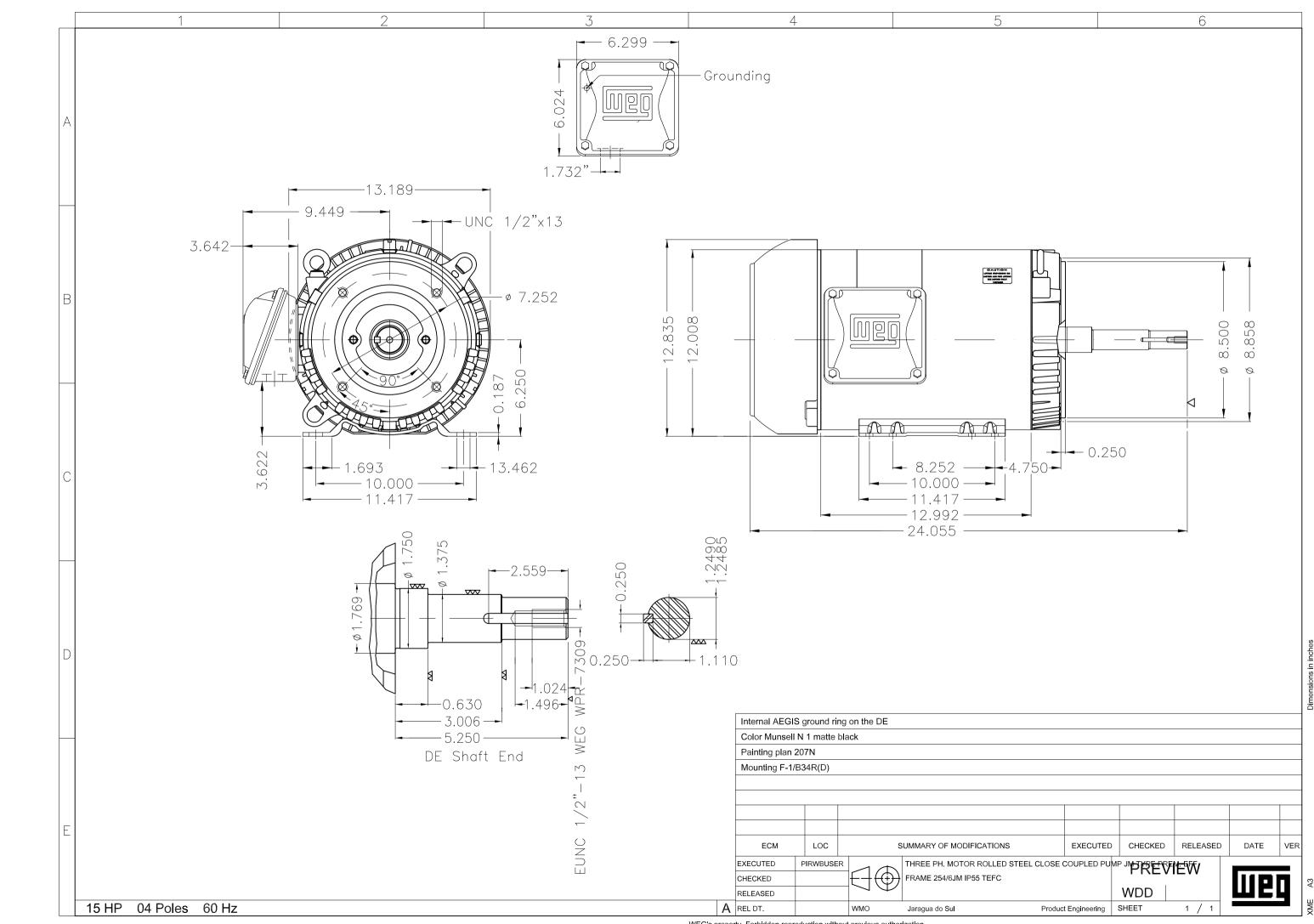
Efficiency Three-Phase

Product code: 14218529

Catalog #: 01518ET3H254JM-SG



Performance : 575 V 60 Hz 4P : 14.6 A Rated current Moment of inertia (J) : 2.15 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 : 44.5 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by







3PT9

(**VL)**US LISTED

N01.TE0IC0X0N

CC029A

14218529

MADE IN MÉXICO

JM015504NPW01GR

S/N 08DEC2021

Hz 60

254/6JM

2000bh

Inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT

NOM. EFF 92.4%

NEMA SPM 3FA 쑮 쌆

1.15 575 14.6 16.8

> P55 CODE SHO

F AT 80K

TEFC 0 SCI INC. W_A

1000 m.a.s.l

CONT

ME XERY POLYREX EM

ODE 6208-Z-C3 9

8309-Z-C3

牌

T2-WHT r3-ORG T1-BLU

r6-GRY 15-BLK T4-YEL

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. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

&

Energy Verified