



# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



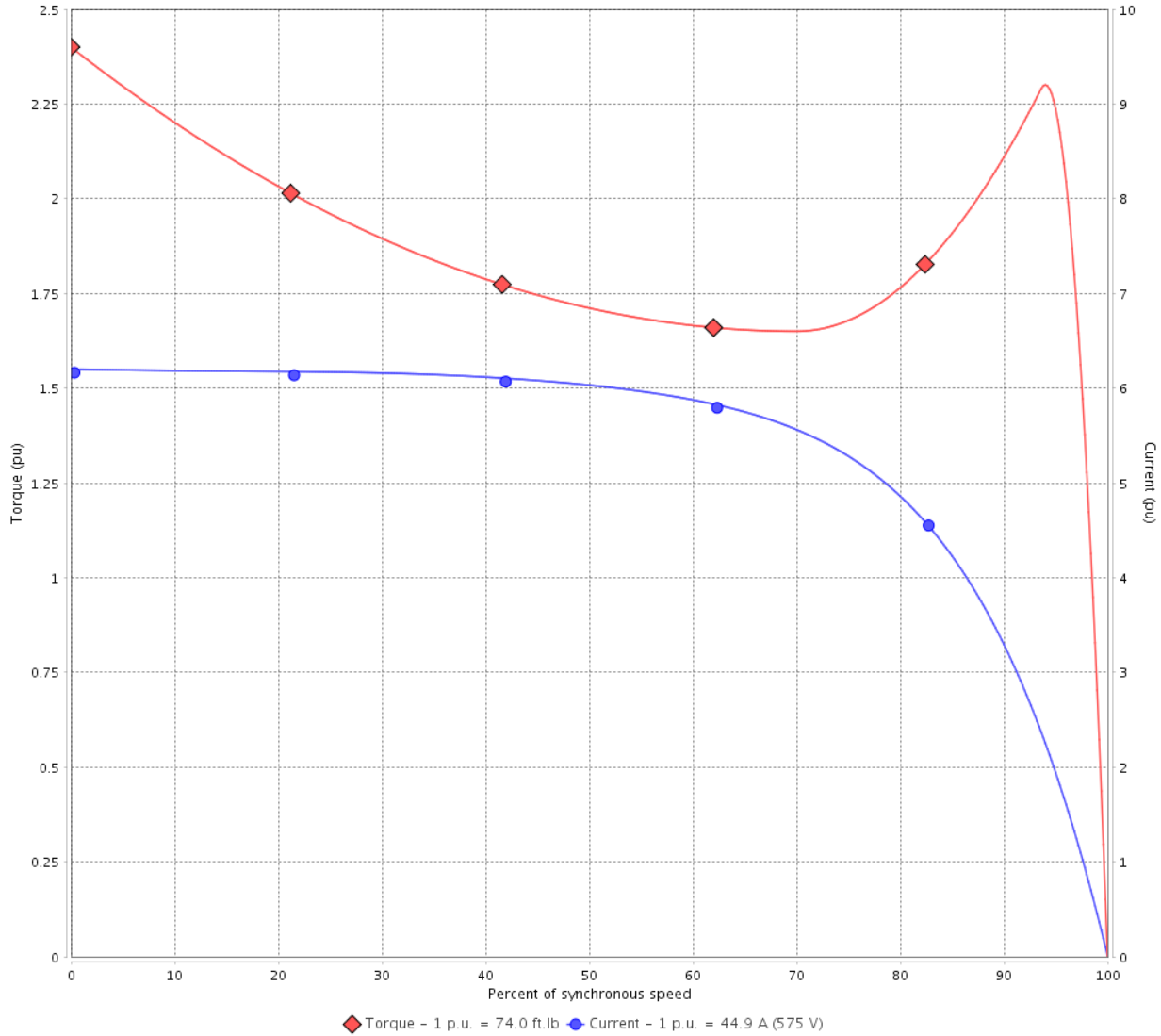
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12504686

Catalog # : 05036ET3H326JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 44.9 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 74.0 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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Performed by			Page 2 / 6	Revision
Checked by				
Date	12/04/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

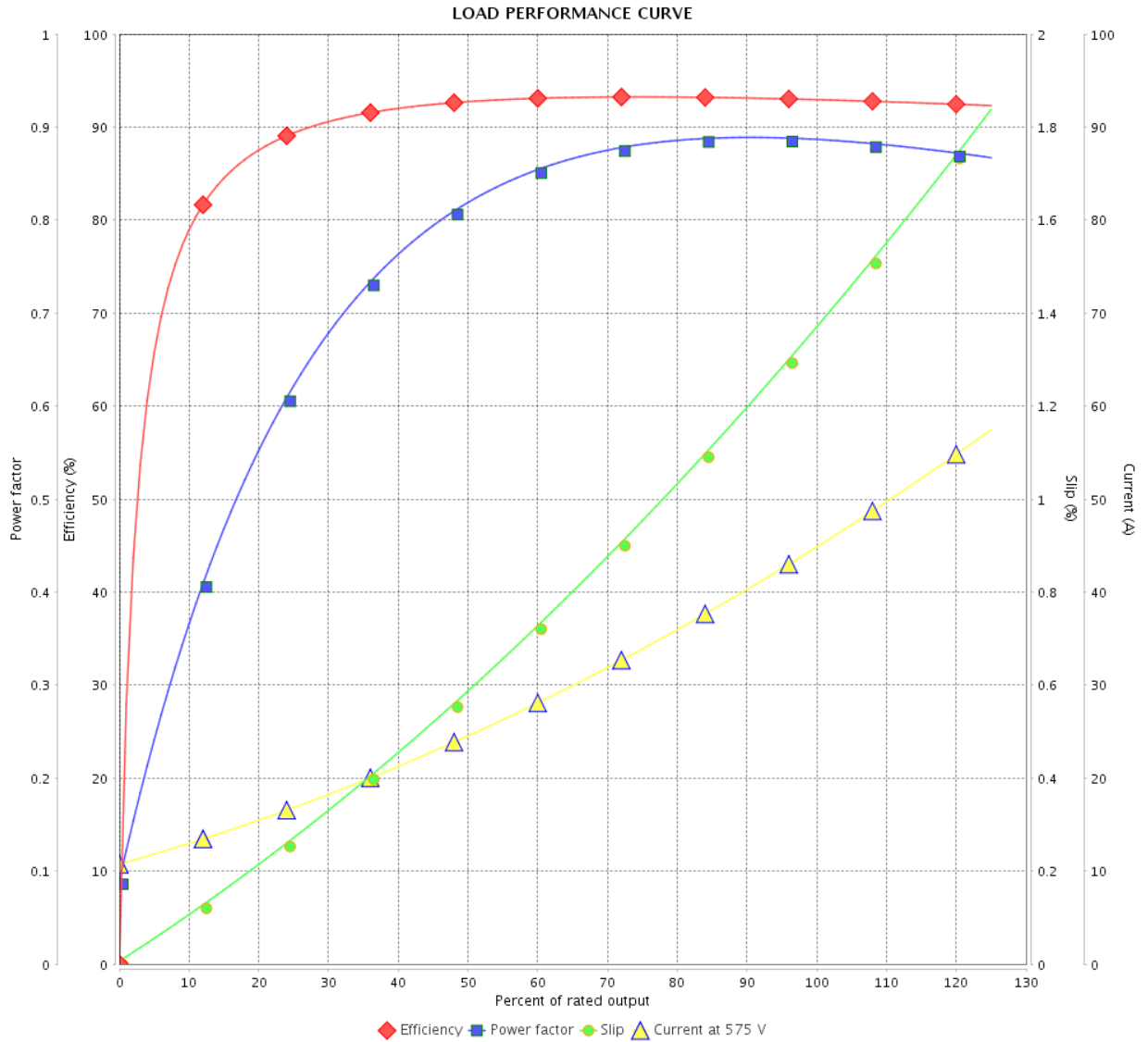


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 Design : B

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# THERMAL LIMIT CURVE



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Rated speed : 3560 rpm	Design : B

Heating constant

Cooling constant

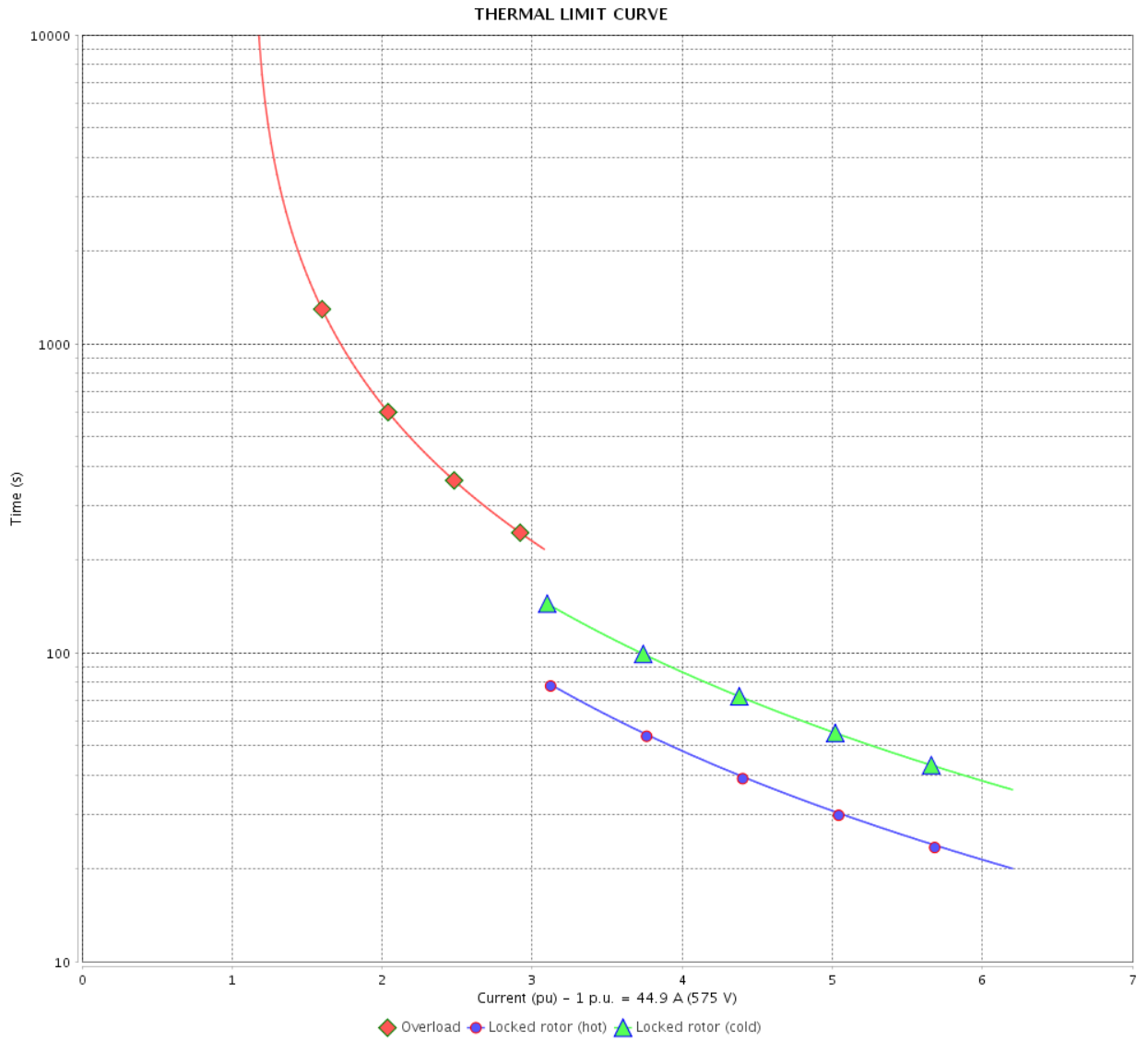
Rev.	Changes Summary	Performed	Checked	Date
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Date	12/04/2022			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



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Date				

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



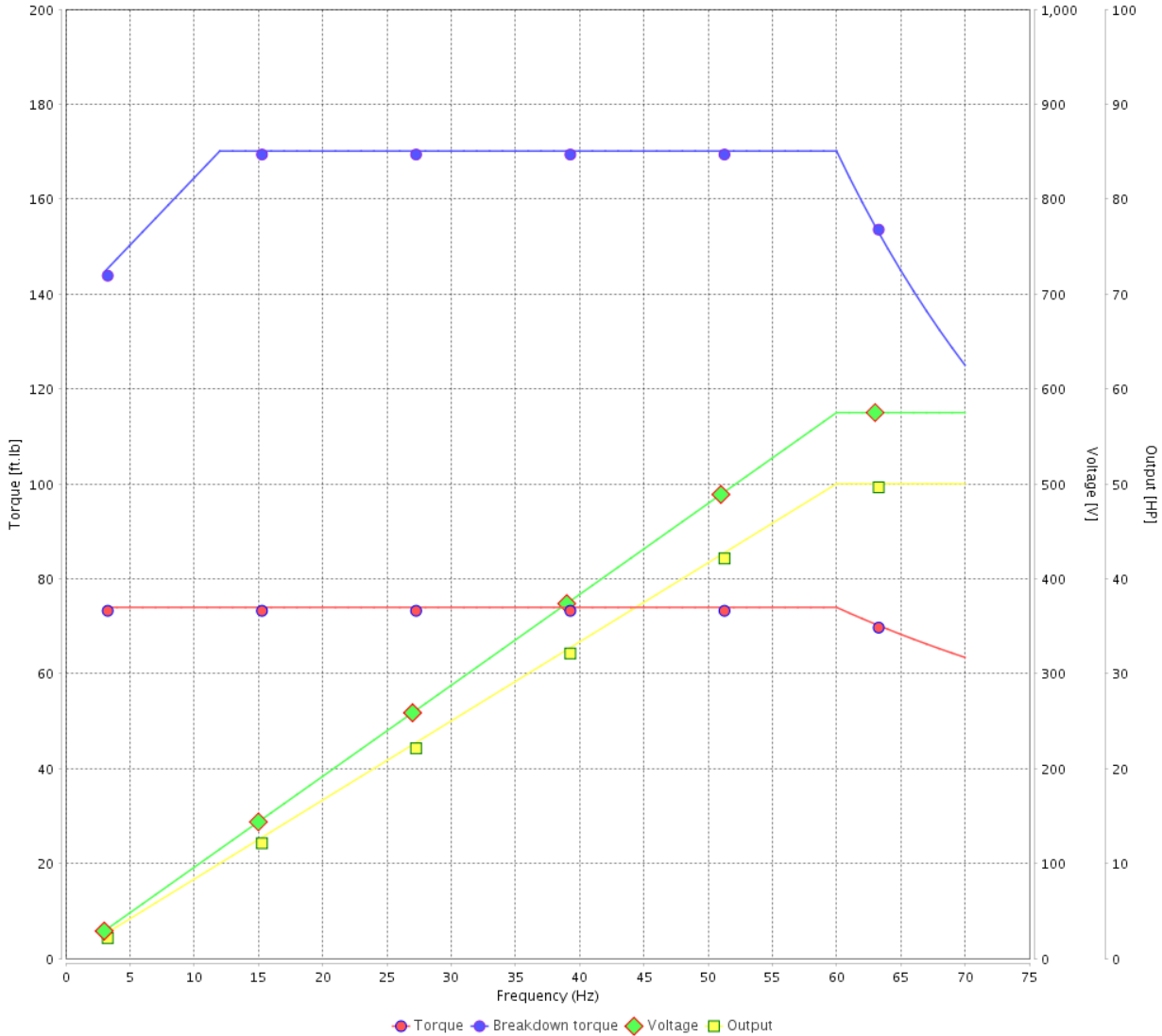
Customer :

Product line : NEMA Premium Efficiency Three-Phase

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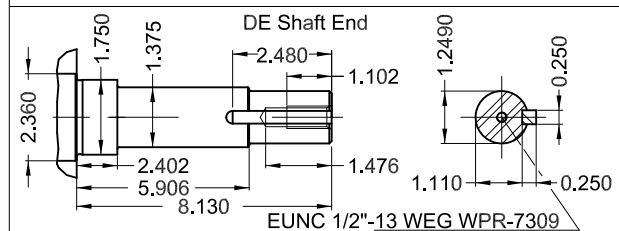
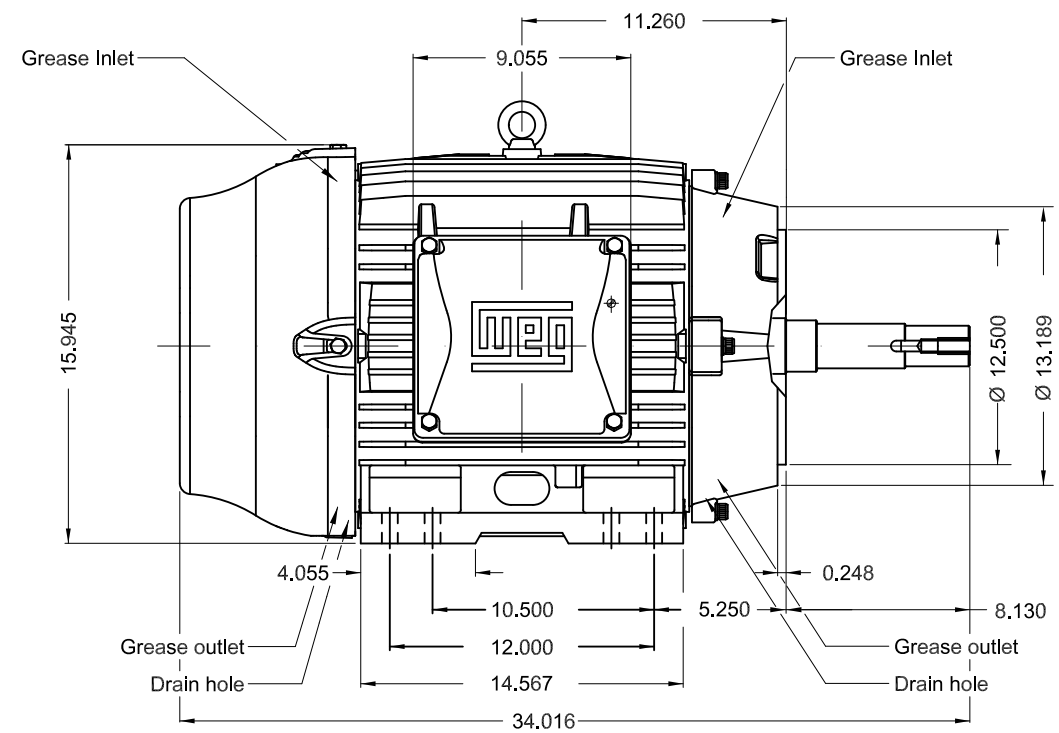
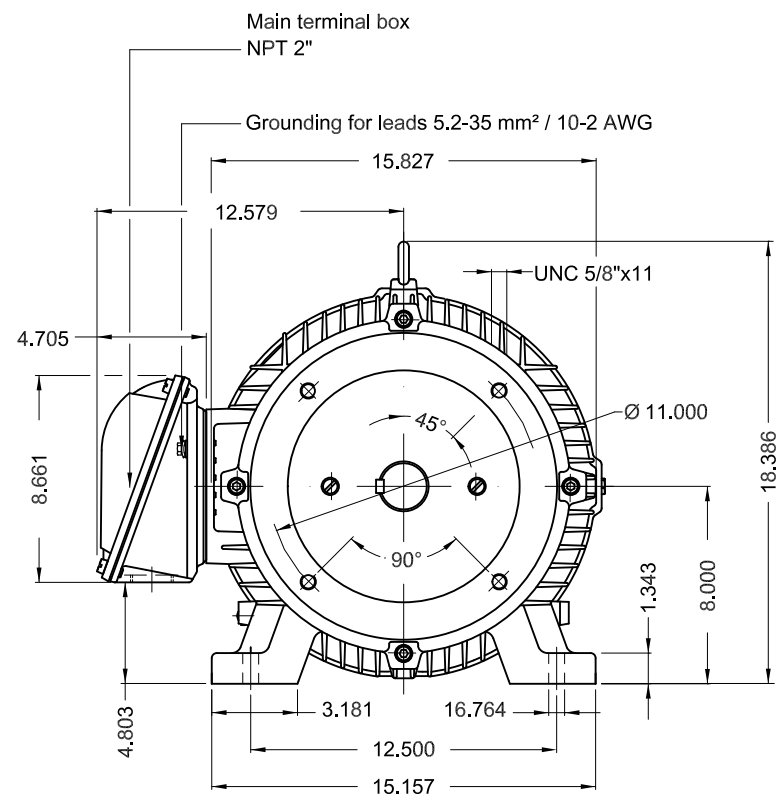
VFD OPERATION CURVE



Performance : 575 V 60 Hz 2P

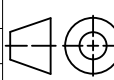
Rated current	: 44.9 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 74.0 ft.lb	Insulation class	: F
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50 HP 02 Poles 60 Hz

A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	 THREE PH. MOTOR JM/JP/JET PUMP W22 PREM. EFF. FRAME 324/6JP IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO		Jaragua do Sul	Product Engineering	SHEET	1 / 1	

Color RAL 5009  
 Painting plan 203A  
 Mounting B34R(D)

PREVIEW  
 WDD



Dimensions in inches XME A3



*Inverter Duty Motor  
Severe Duty*



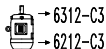
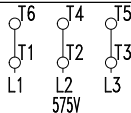
FOR SAFE AREA  
MOD.TE1BFOXON



Class I, Div 2, Gr. A, B, C and D - T3  
Class I, Zone 2, IIC - T3  
Class II, Div 2, Gr. F and G - T4  
For use on PWM, Gr. A, B, C, D and F,  
VT 1000:1, CT 20:1, 1.0SF, T3A

JP050502NPW22  
MADE IN BRAZIL  
12504686

PH 3	FR 324/6JP	HP(kW) 50(37)	Hz 60
V 575	A 44.9	IP55	
NEMA NOM EFF	93.0 %	RPM 3560	
ENCL TEFC	DUTY CONT.	INS. CL. F $\Delta$ T 80 K	
PF 0.89	DES B	CODE G	AMB. 40°C
SF 1.25	SFA 56.1	ALT 1000 m.a.s.l.	



→ 6312-C3  
→ 6212-C3

MOBIL POLYREX EM  
21 g 12000 h

600 Lbs