

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

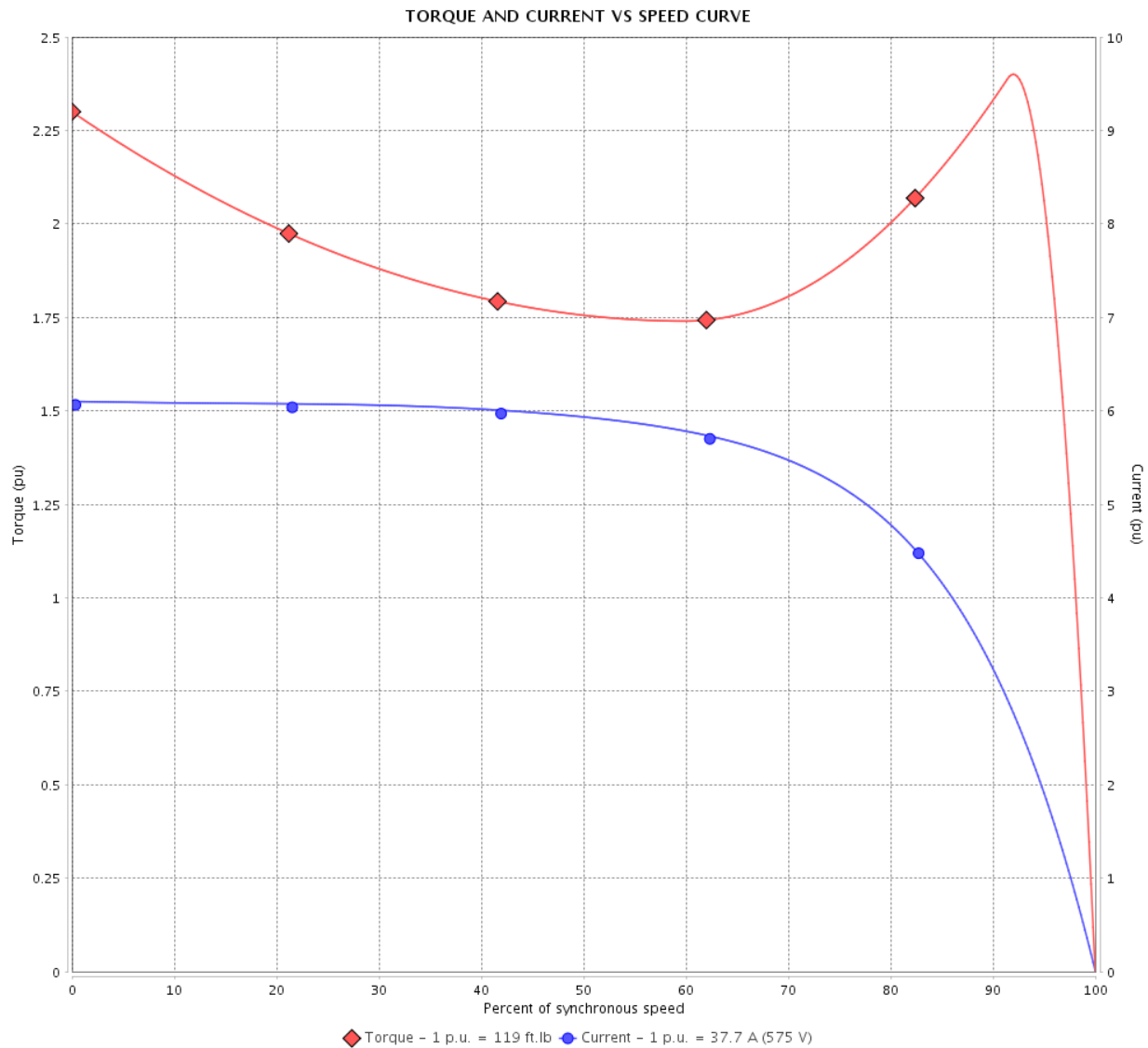


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12712282

Catalog # : 04018ET3H324JM-W22



Performance : 575 V 60 Hz 4P

Rated current	: 37.7 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 119 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1770 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

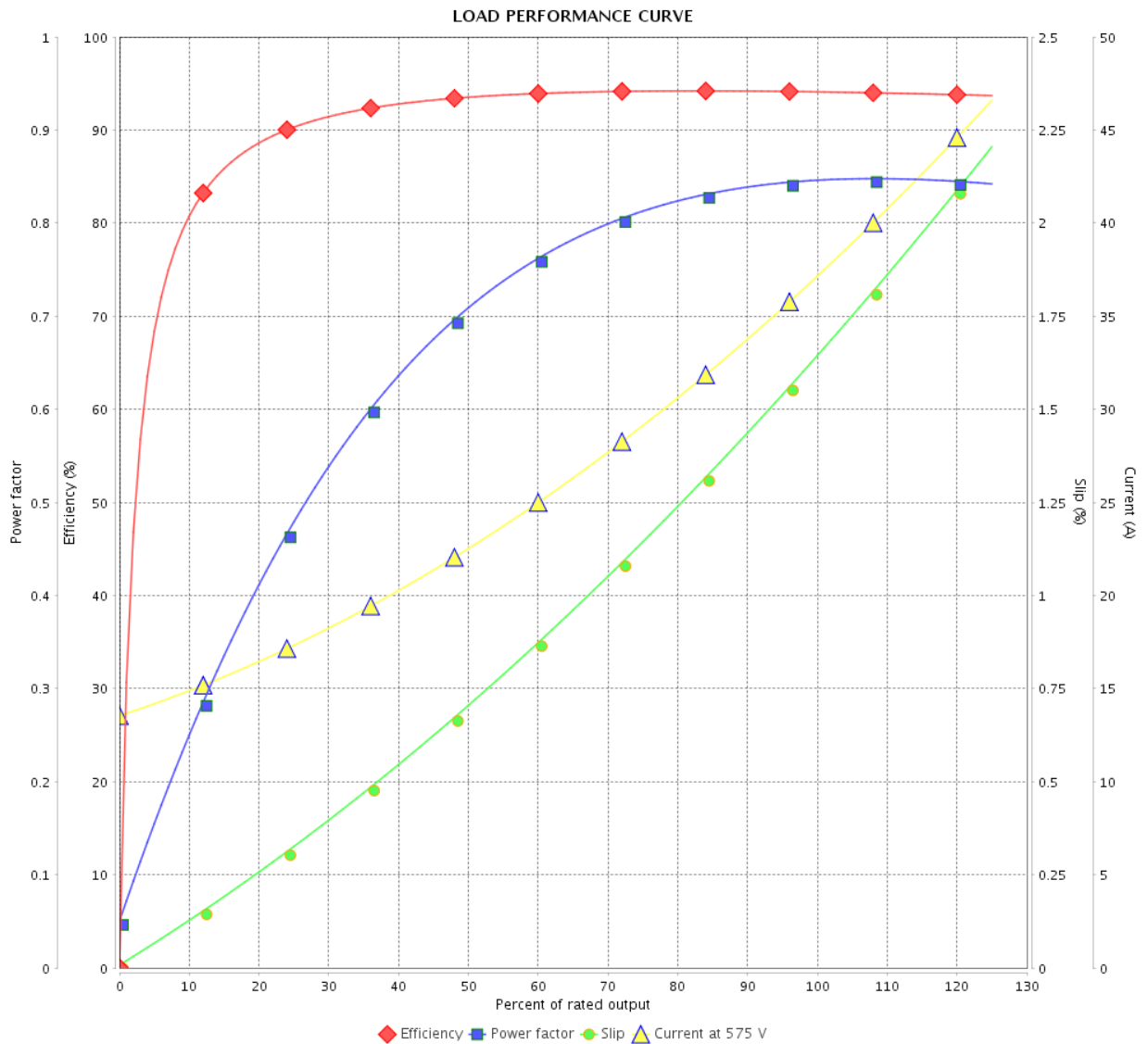


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

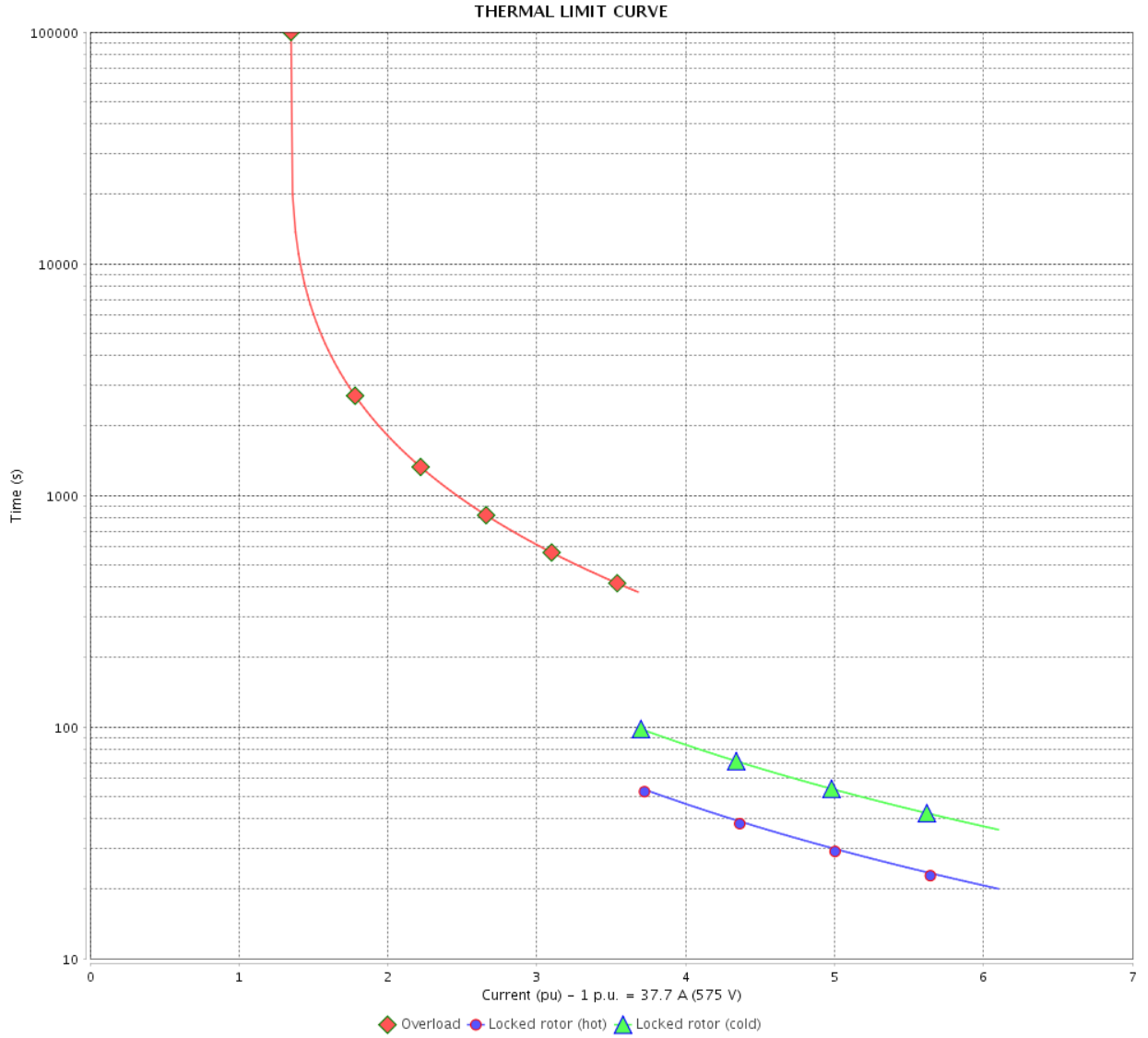
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

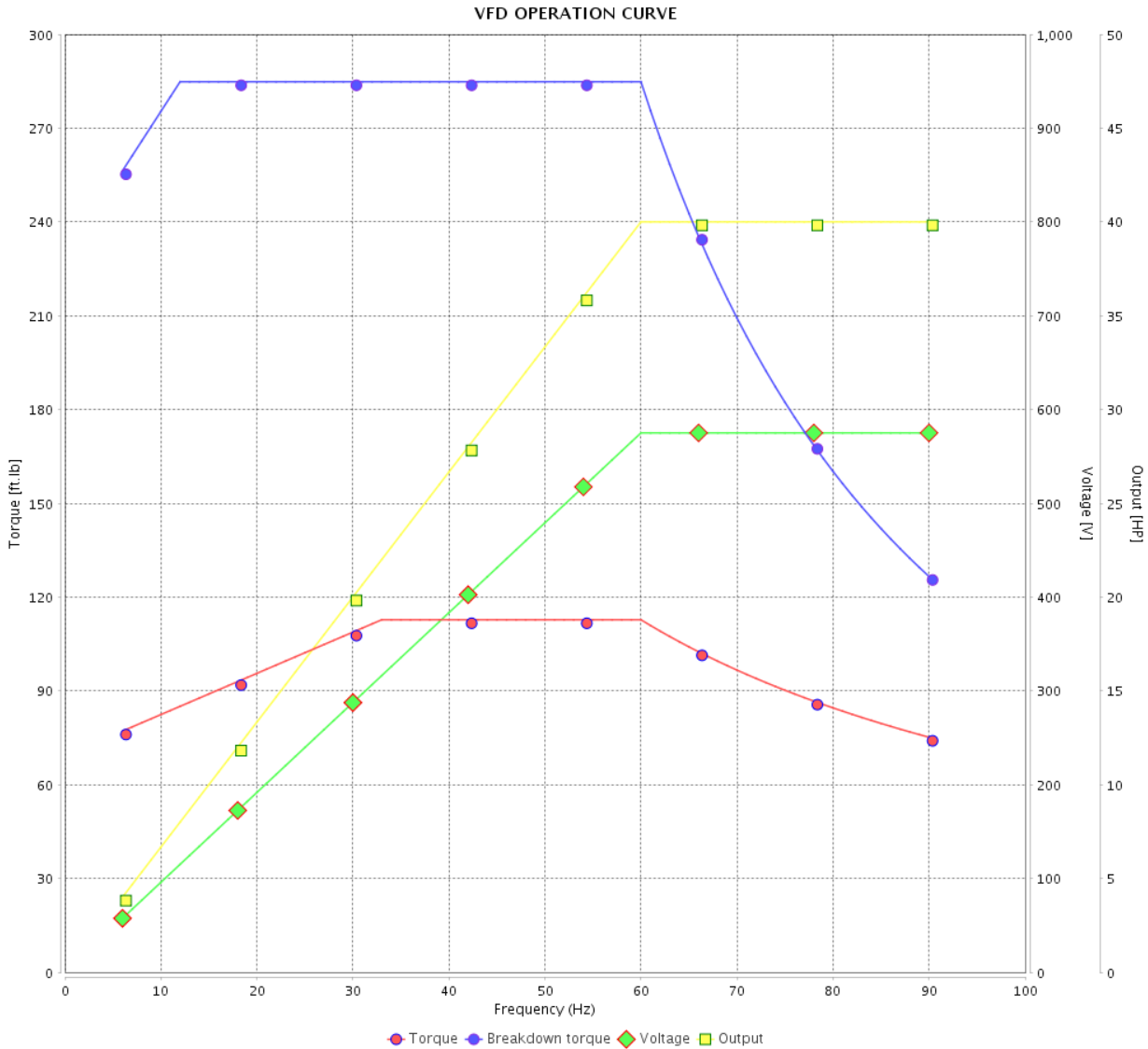


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 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

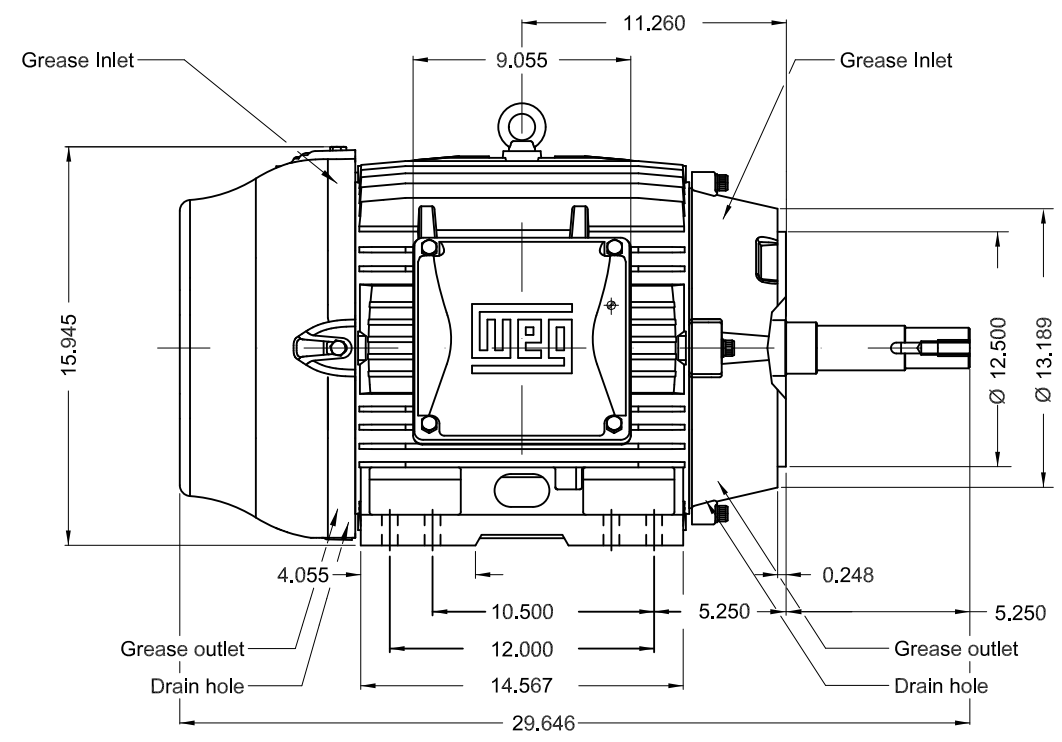
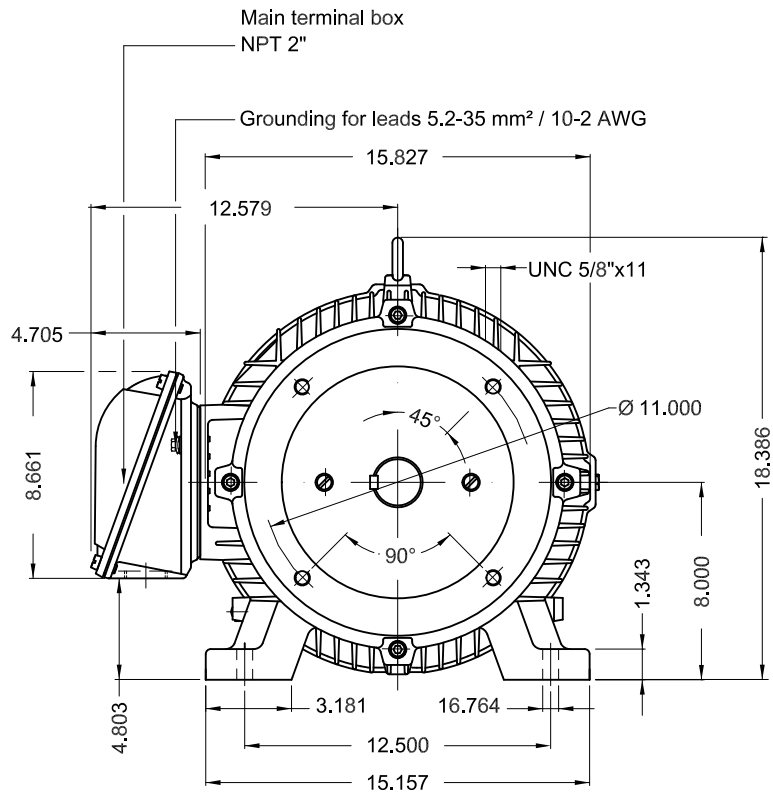
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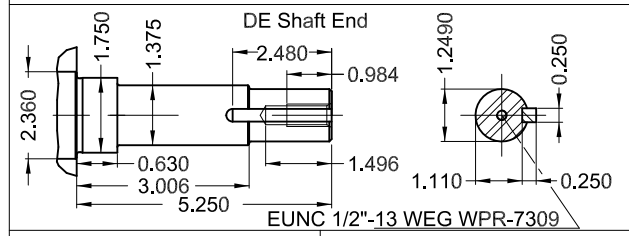
A

B

C



D



E

Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting NEMA F-1
 Mounting B34R(D)

40 HP 04 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 324/6JM IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO		Jaragua do Sul	Product Engineering	SHEET	1 / 1	

PREVIEW
WDD





*Inverter Duty Motor
Severe Duty*



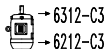
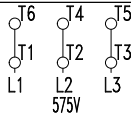
FOR SAFE AREA
MOD.TE1BFOXON



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

JM040504NPW22
MADE IN BRAZIL
12712282

PH 3	FR 324/6JM	HP(kW) 40(30)		Hz 60
V 575		A 37.7		IP55
NEMA NOM EFF		94.1	%	RPM 1775
ENCL TEFC	DUTY CONT.		INS. CL. F Δ T 80 K	
PF 0.85		DES B	CODE G	AMB. 40°C
SF 1.25	SFA 47.1		ALT 1000 m.a.s.l.	



→ 6312-C3
→ 6212-C3

MOBIL POLYREX EM
21 g 20000 h

575 Lbs