

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



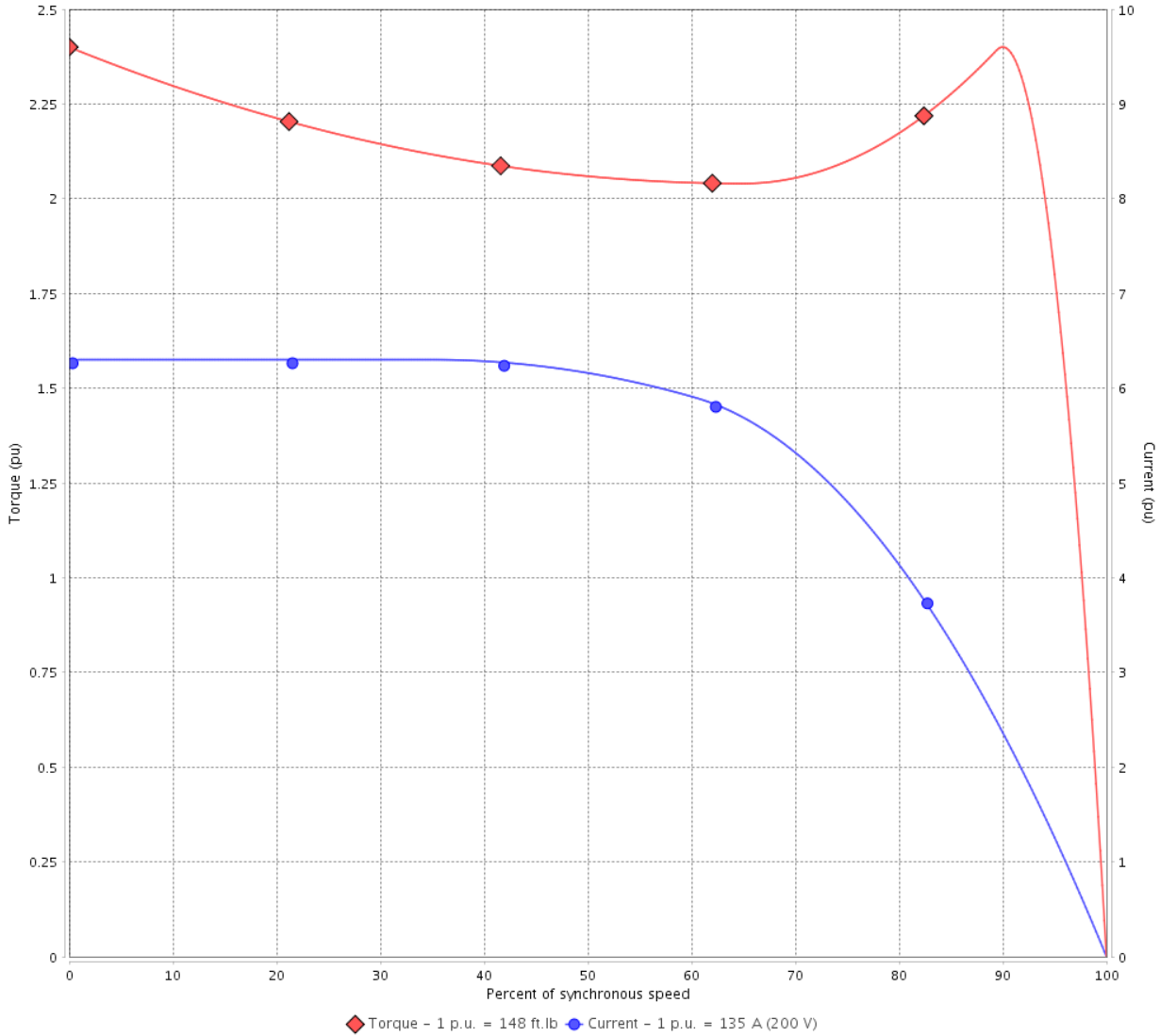
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14501318

Catalog # : 05018OT3P326T-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 200 V 60 Hz 4P

Rated current	: 135 A	Moment of inertia (J)	: 7.08 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 148 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 6	Revision
Checked by				
Date	12/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

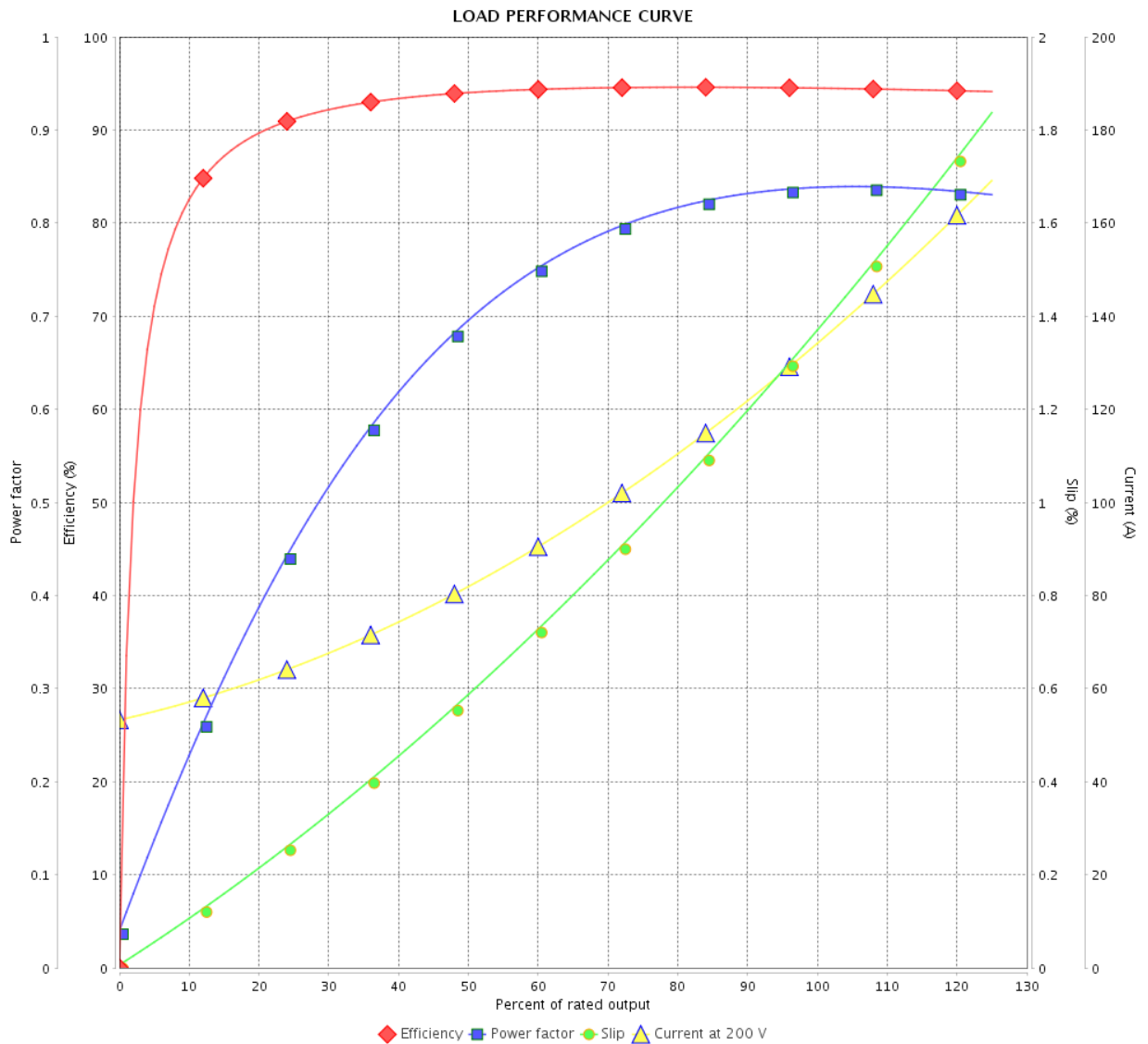


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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

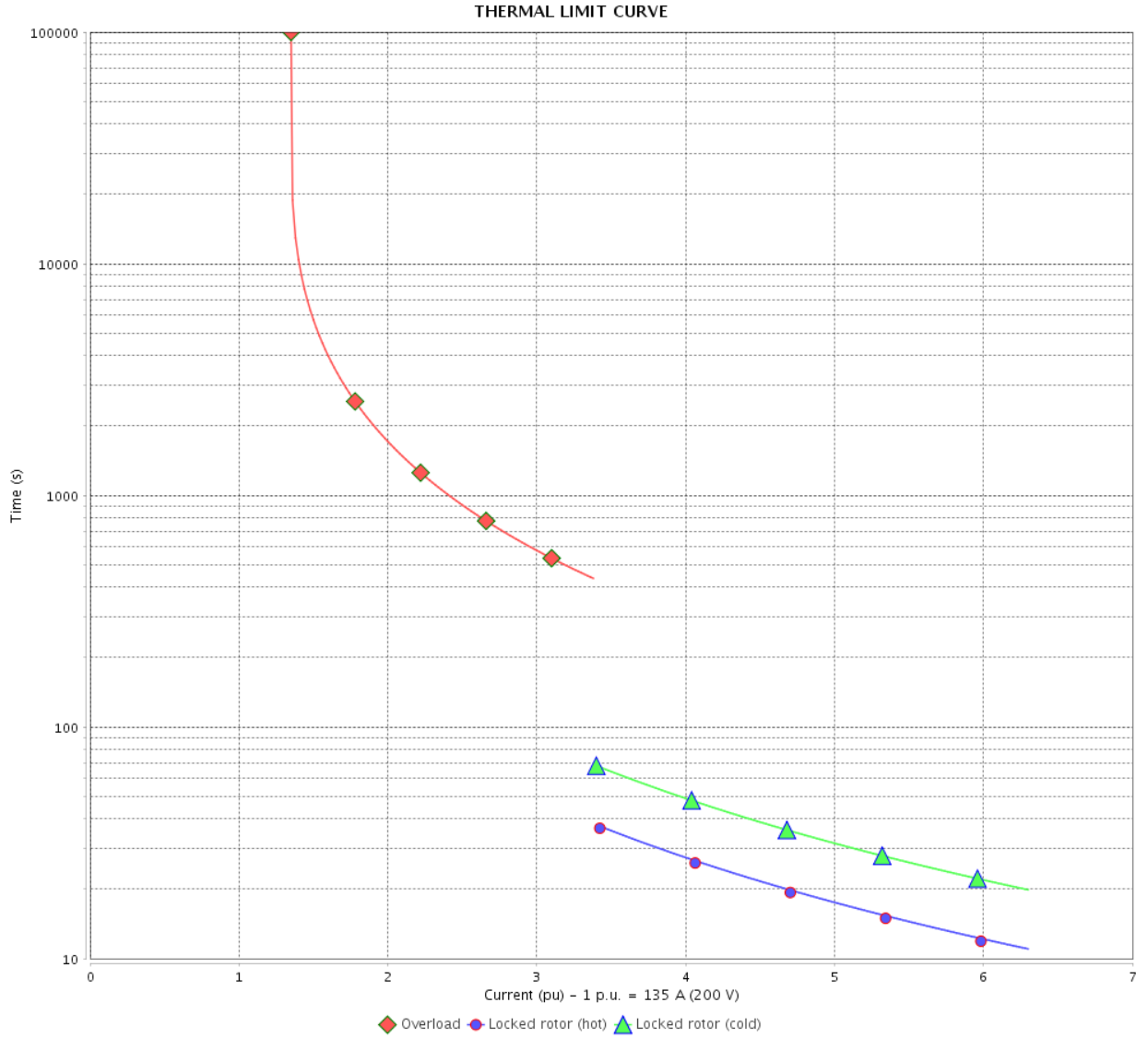
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Date	12/04/2022		4 / 6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

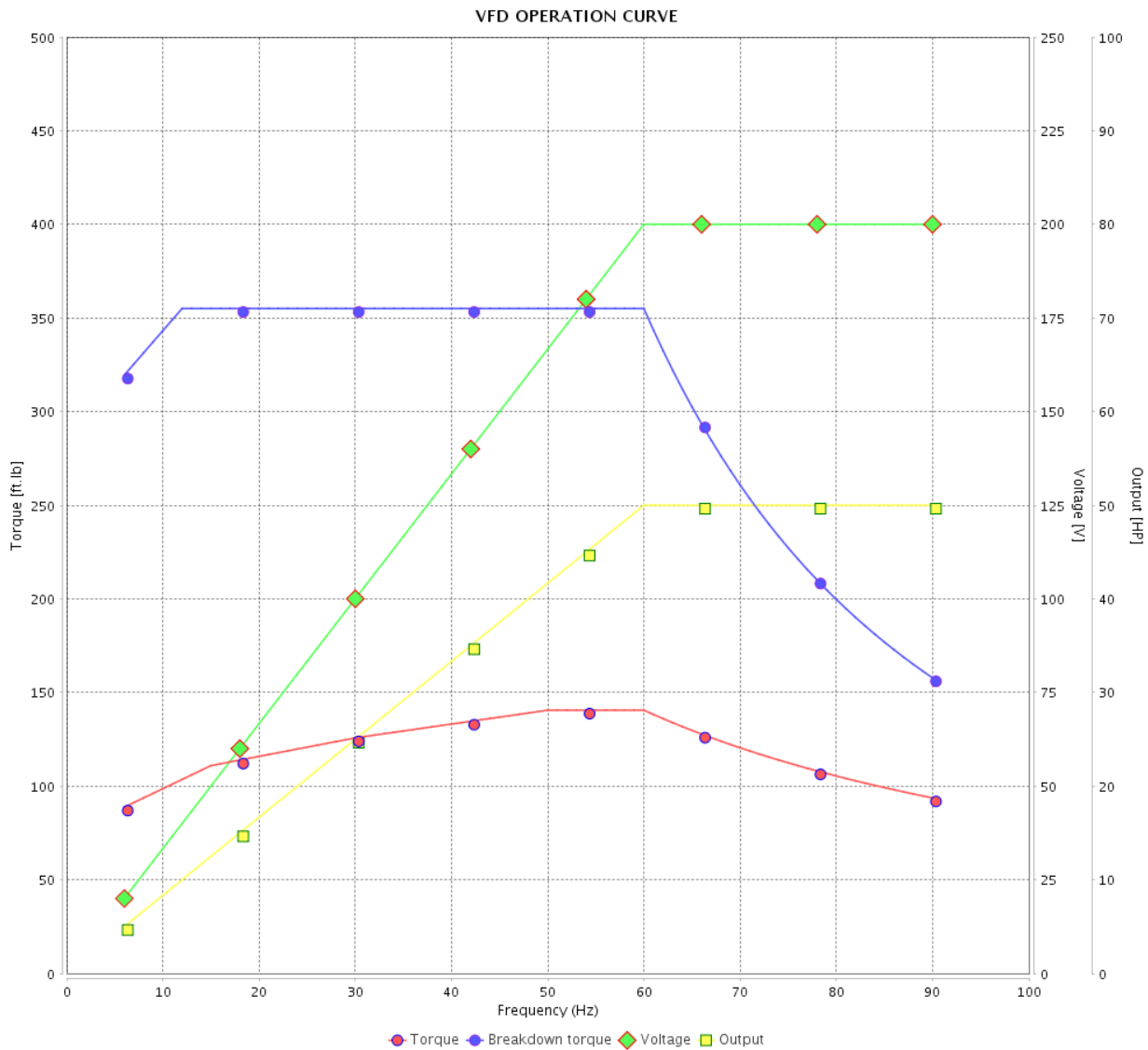


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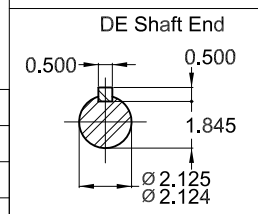
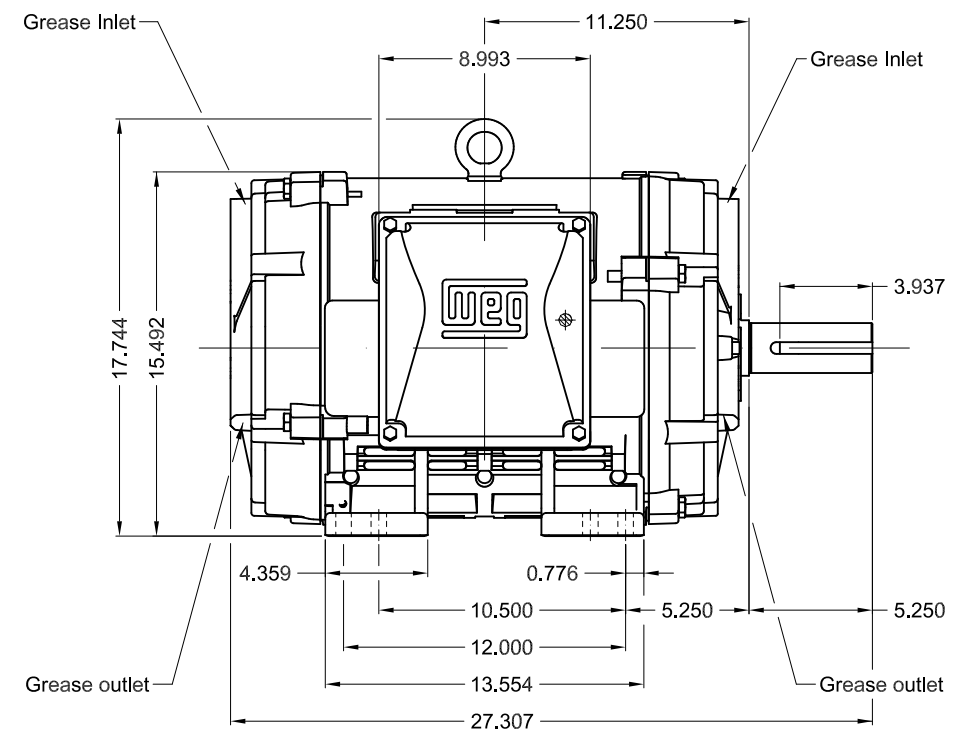
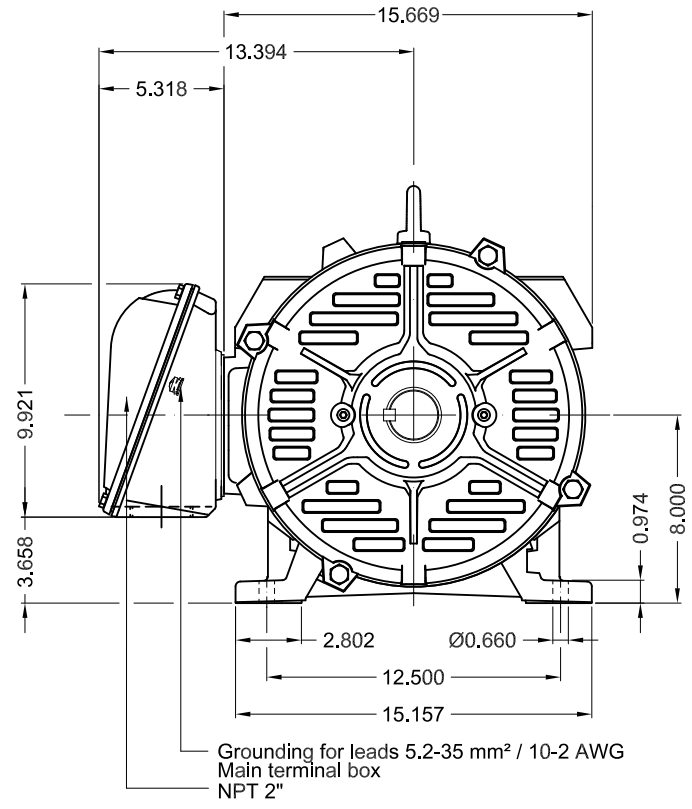


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Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B3R(D)

50 HP 04 Poles 60 Hz A

1:8

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR W40 PREM. EFF.					
CHECKED		FRAME 324/6T IP23 ODP					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
WDD



MODEL 050180T3P326T-W40
MADE IN BRAZIL
14501318

WEG **W40 NEMA**
CC029A Premium
Inverter Duty Motor

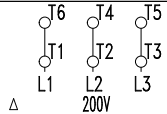
CE **UL** **US** **3PT9 LISTED**


IEC 60034-1
MOD.T01#FOXON

SP
US
Energy Verified

For use on PWM, VT 1000:1, CT 3:1, 1.0SF

PH 3	FR 324/6T	HP(kW) 50(37)		Hz 60
V 200		A 135		IP23
NEMA NOM EFF		94.5	%	RPM 1775
ENCL ODP	DUTY CONT.		INS. CL. F Δ T 80 K	
PF 0.84		DES B	CODE G	AMB. 40°C
SF 1.25		SFA 169		ALT 1000 m.a.s.l.



 → 6312-Z-C3
→ 6211-Z-C3

MOBIL POLYREX EM
21 g 20000 h

514 Lbs