



No.:

Date: 08-MAY-2018

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 25012ET3G449T-W22

List Price : \$ Contact us for new item

Notes:

Performed by:

Checked:



No.:

Date: 08-MAY-2018

DATA SHEET**Three-phase induction motor - Squirrel cage rotor**

Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 447/9T
Output : 250 HP
Frequency : 60 Hz
Poles : 6
Full load speed : 1185 rpm
Slip : 1.25 %
Voltage : 460 V
Rated current : 292 A
Locked rotor current : 1780 A
Locked rotor current (I_L/I_n) : 6.1
No-load current : 120 A
Full load torque : 1093 lb.ft
Locked rotor torque : 240 %
Breakdown torque : 240 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 12 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 2538 lb
Moment of inertia : 144.52 sq.ft.lb
Noise level : 70 dB(A)

	D.E.	N.D.E.
Bearings	6322 C3	6319 C3
Regreasing interval	11000 h	13000 h
Grease amount	60 g	45 g

Load	Power factor	Efficiency (%)
100%	0.83	95.8
75%	0.79	95.4
50%	0.68	95.0

Notes:

Performed by

Checked

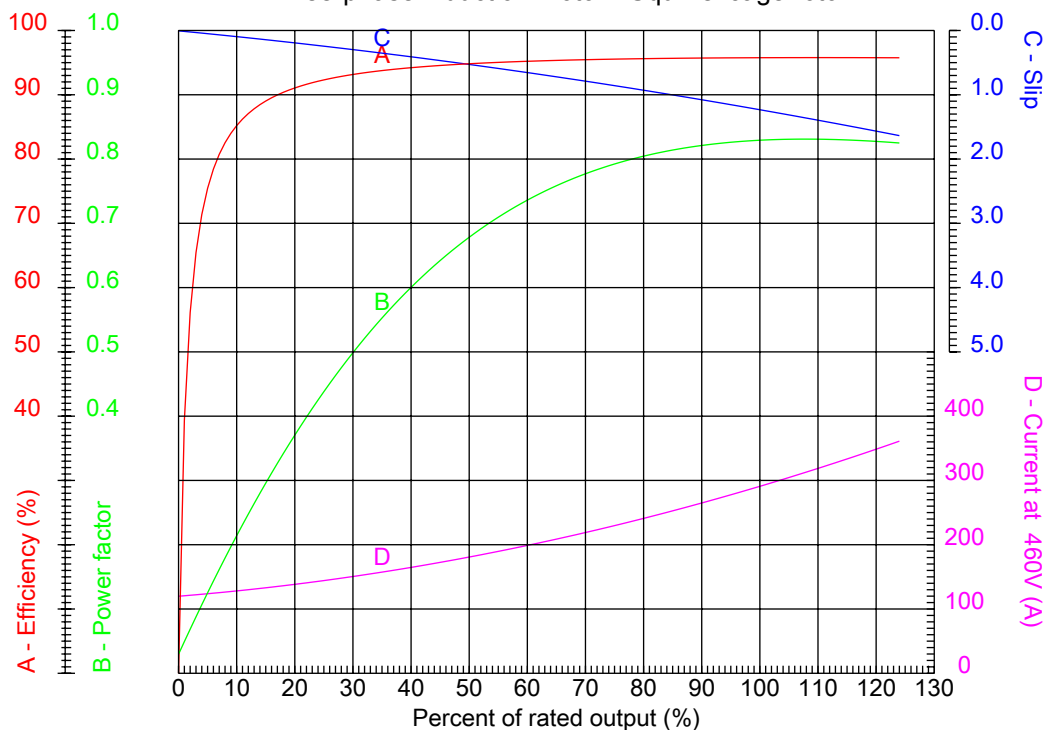


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 447/9T	Locked rotor current (I _L /I _n)	: 6.1
Output	: 250 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1185 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 292 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

Checked

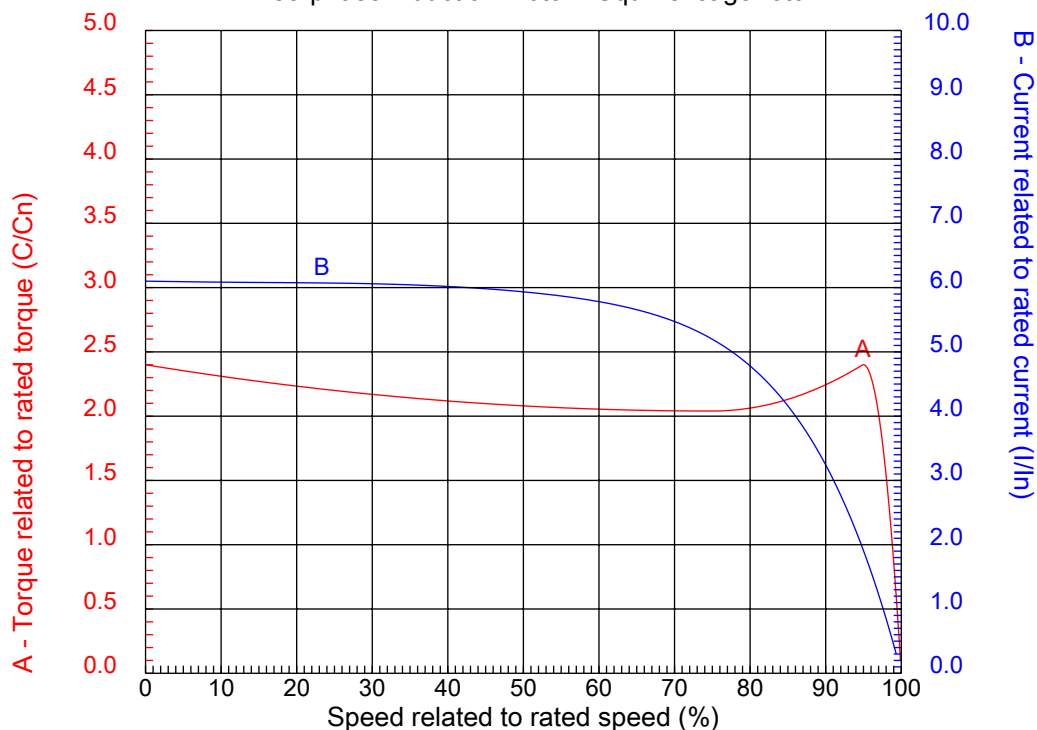


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



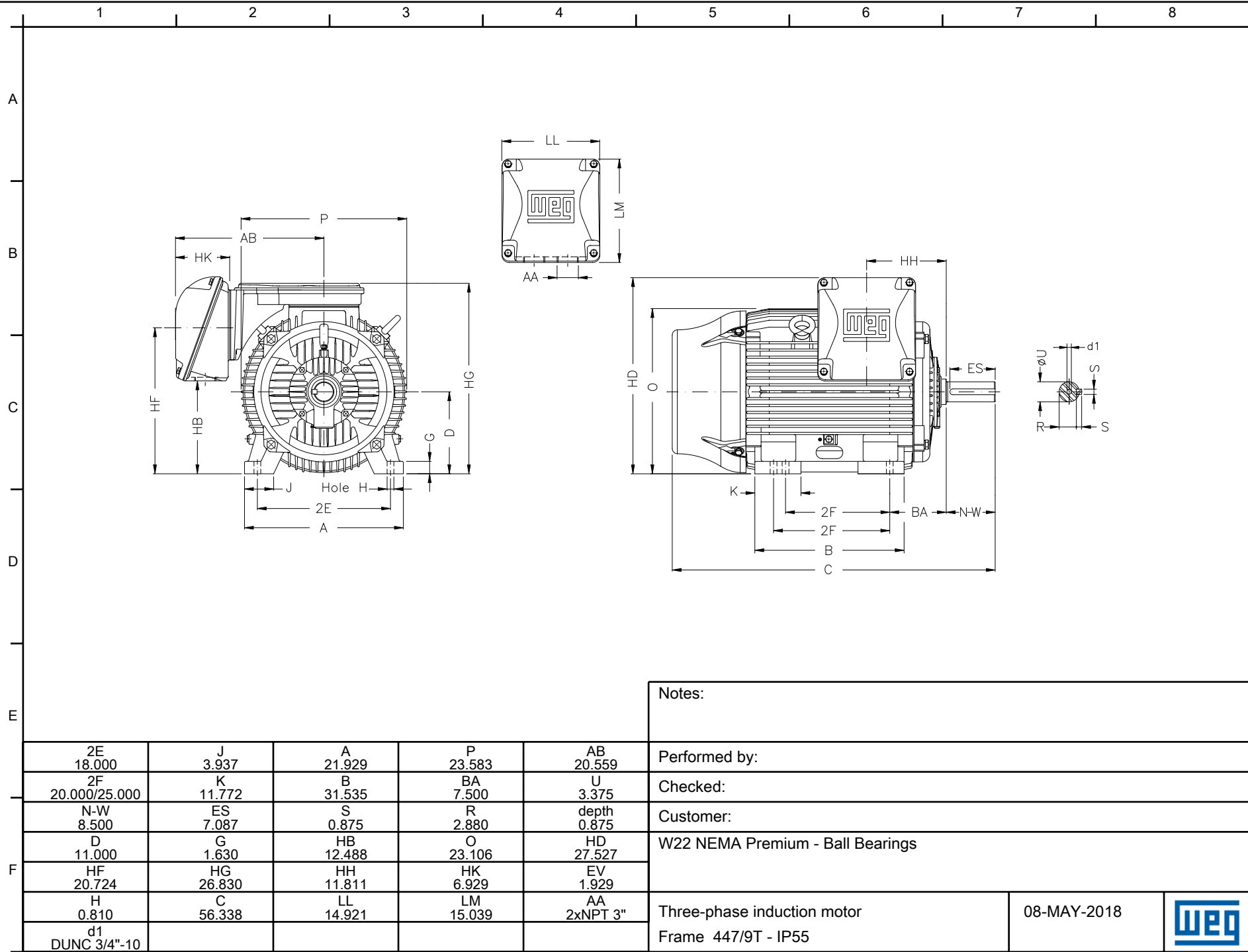
Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 447/9T	Locked rotor current (I _L /I _n)	: 6.1
Output	: 250 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1185 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 292 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

Checked

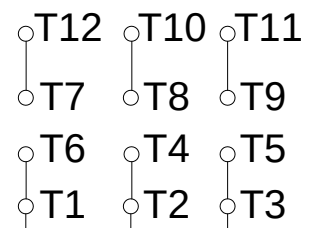


1 2 3 4 5 6 7 8

A

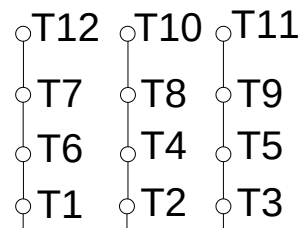
PART-WINDING

START



L1 L2 L3

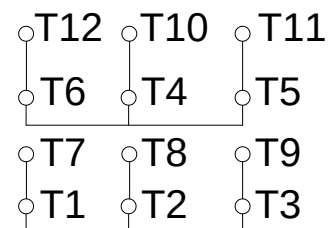
RUN



L1 L2 L3

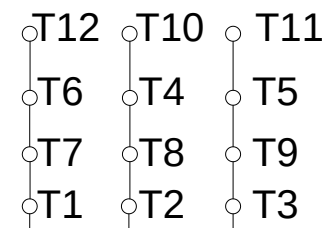
WYE-DELTA

START



L1 L2 L3

RUN



L1 L2 L3

B

C

D

E

F

Notes:

Performed by:

Checked:

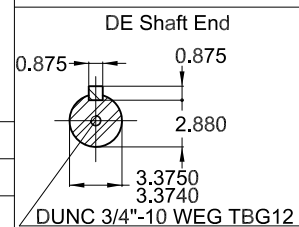
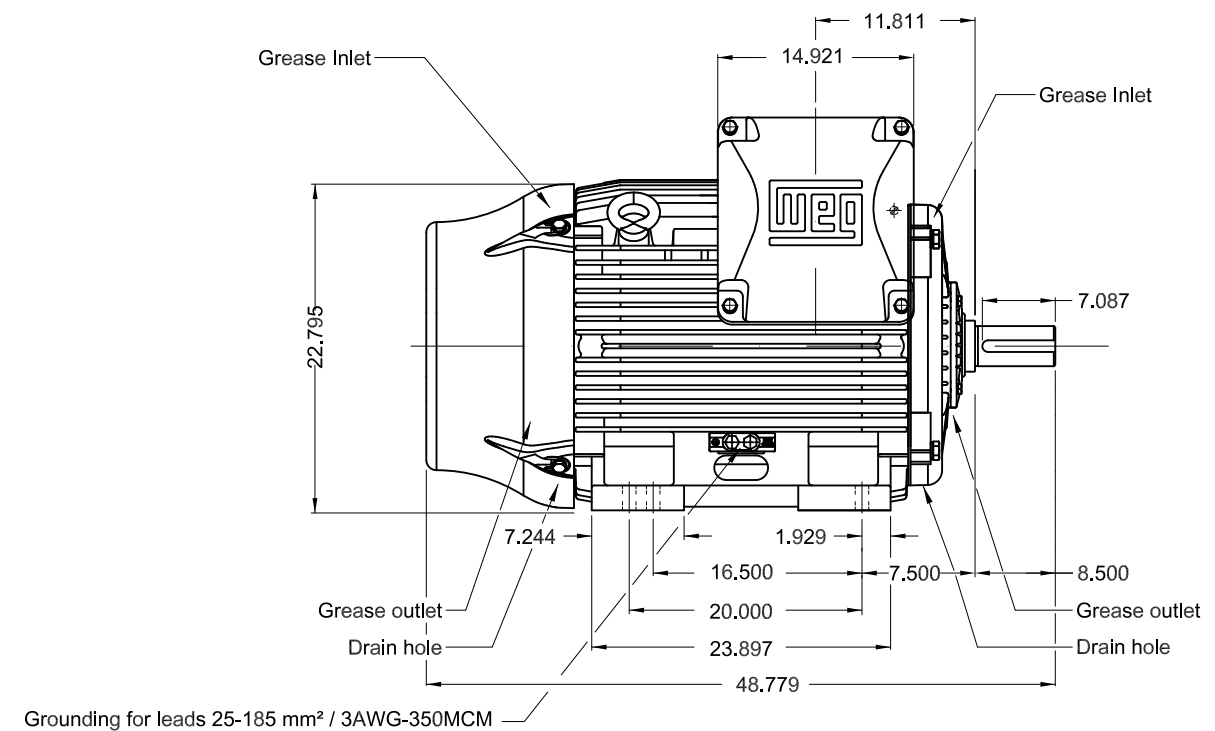
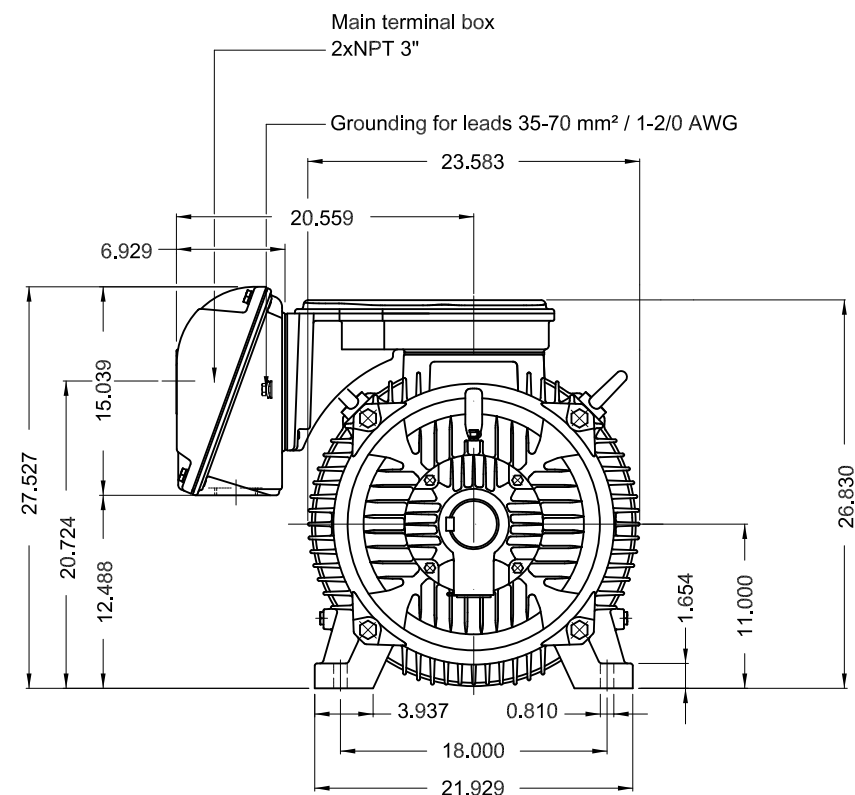
Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor
Frame 447/9T - IP55

08-MAY-2018





Color RAL 5009
Painting plan 203A
Mounting B3R(D)

150 HP 06 Poles 60Hz							A
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN		THREE PHASE W22 MOTOR - NEMA PREMIUM EFF FRAME 445/TT IP55 TEFC	PREVIEW WDD			
CHECKED							
RELEASED							
REL DT		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1	

MODEL 10012ET3E444T-W22
MADE IN MEXICO
11355339

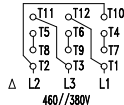
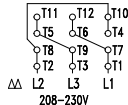


FOR SAFE AREA
MOD.TE1BFOXON

For 60Hz: 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 - T3C
For 60Hz use on PWM, Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.0SF, T3A



PH 3	FR 444/5T	HP(kW) 100.0(75.0)	Hz 60
V 230/460	A 242/121	RPM 1185	DES B
NEMA NOM EFF 95.0 %	INS. CL. F Δ T 80 K	IP55	
ENCL TEFC	DUTY CONT.	AMB. 40°C	
CODE G	PF 0.82	SF 1.25	SFA 303/151
USABLE @208V 268 A	SF 1.10	SFA 295	
100HP 75kW 50Hz 380V 145A 980RPM SF1.00 EFF 93.6% (IE1)			



→ 6319-C3 (45g)
→ 6316-C3 (34g)

MOBIL POLYREX EM
13000 h

ALT 1000 m.a.s.l. 1676 Lbs