



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

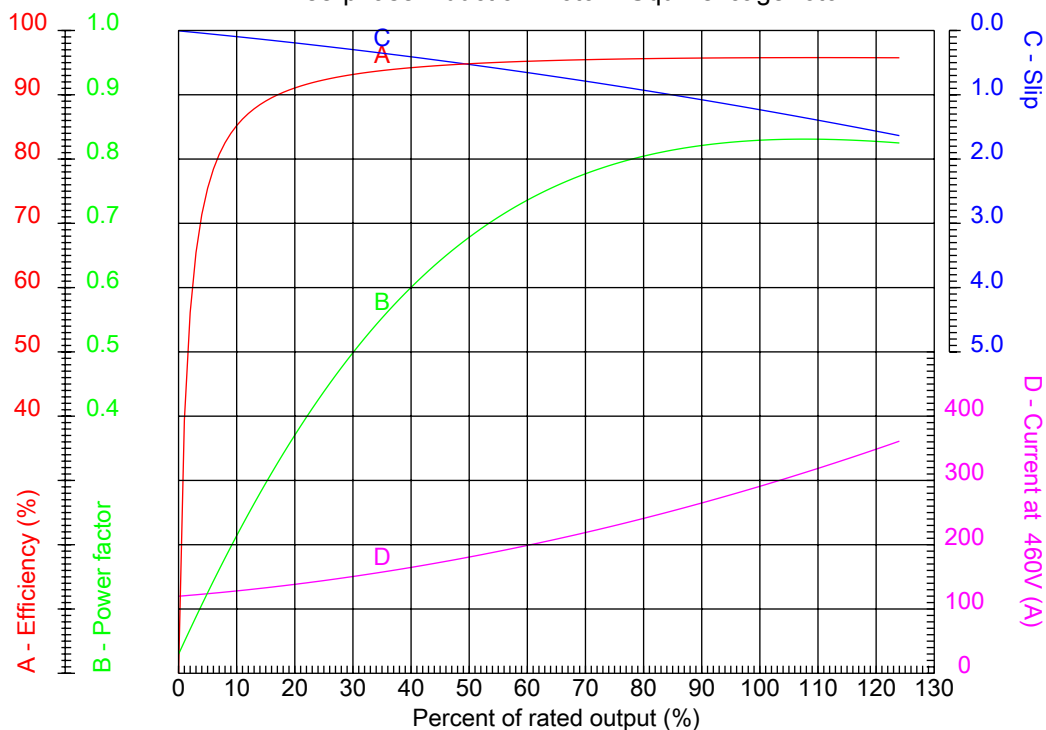


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

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

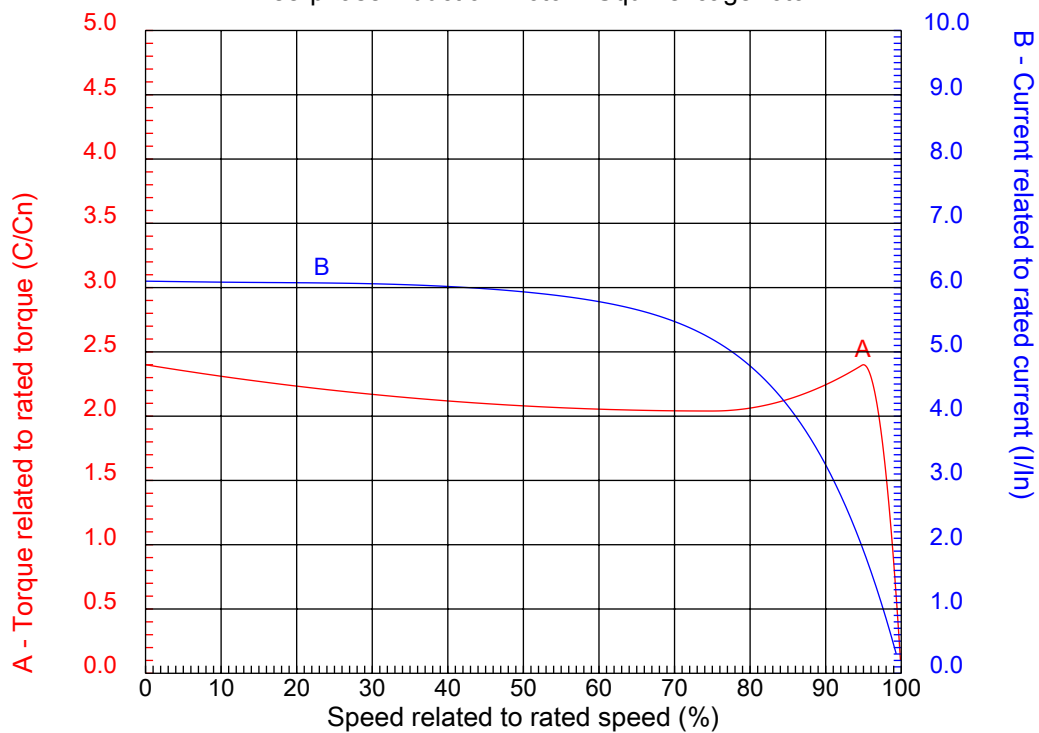


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



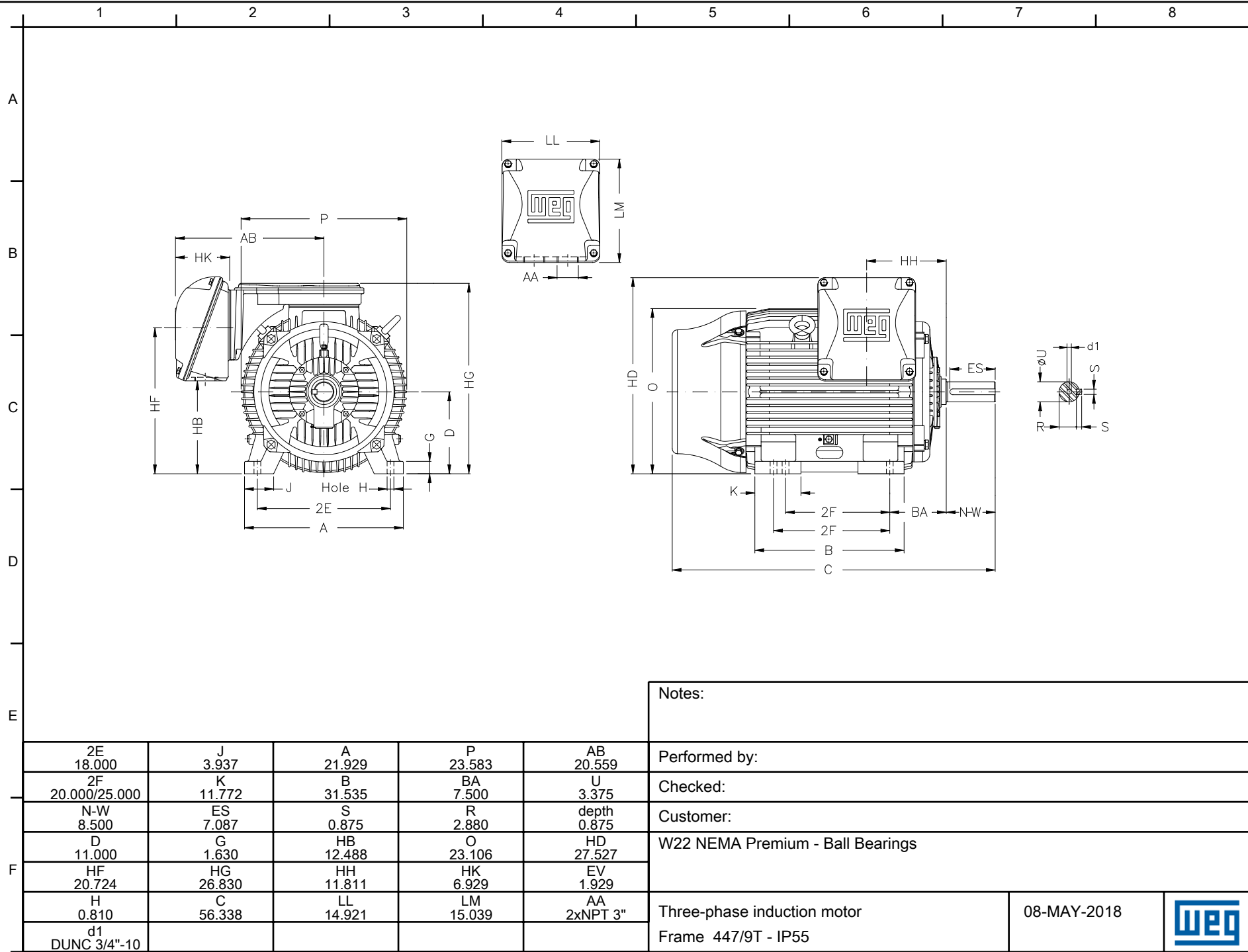
Customer :
Product line : W22 NEMA Premium - Ball Bearings

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

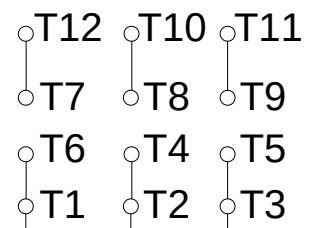


1 2 3 4 5 6 7 8

A

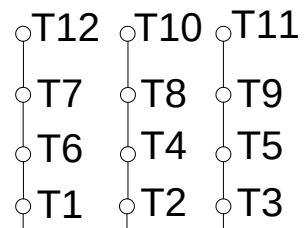
PART-WINDING

START



L1 L2 L3

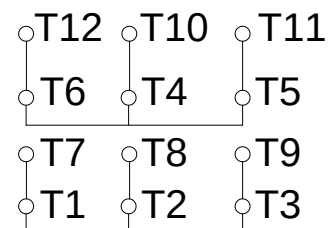
RUN



L1 L2 L3

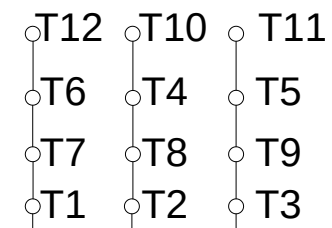
WYE-DELTA

START



L1 L2 L3

RUN



L1 L2 L3

B

C

D

E

F

Notes:

Performed by:

Checked:

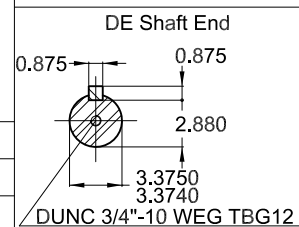
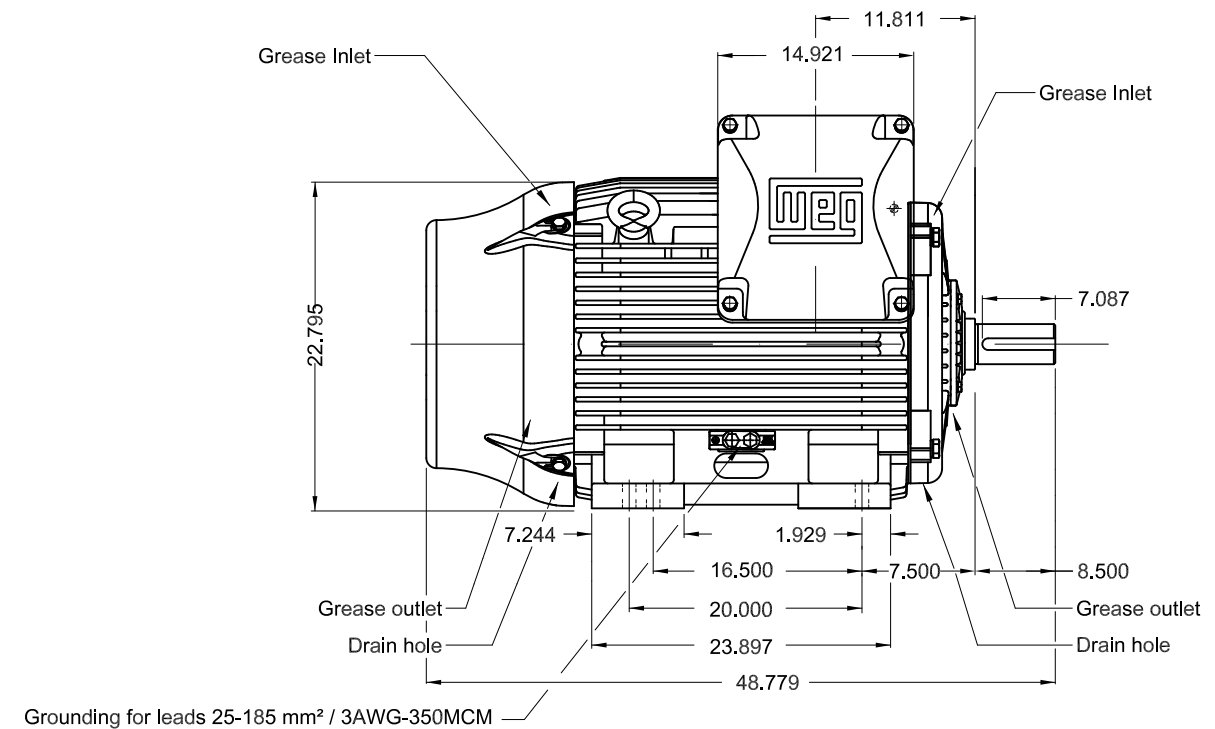
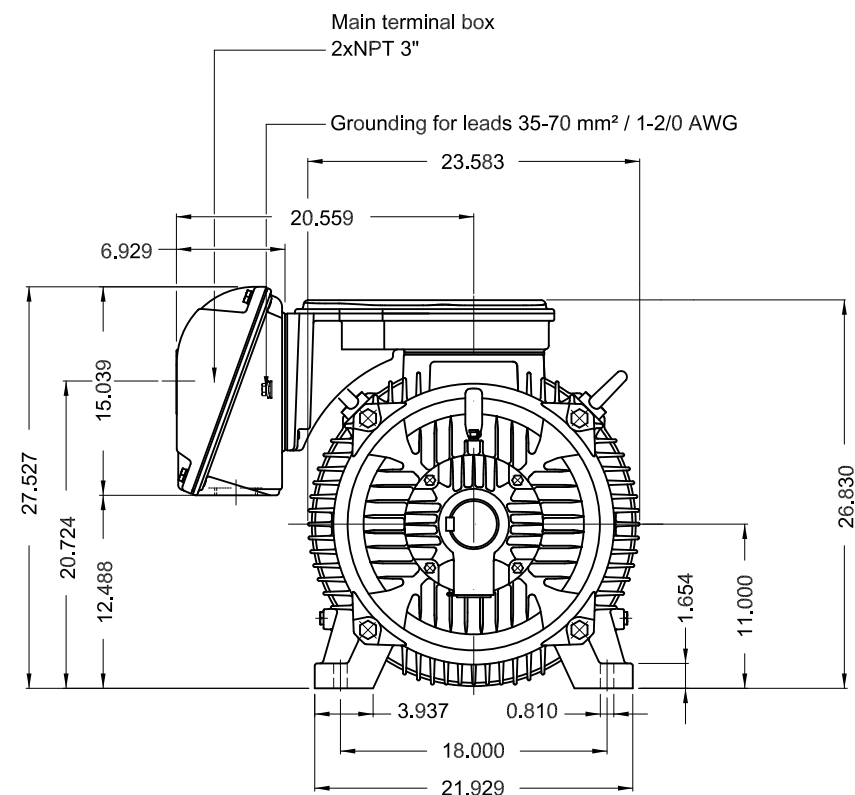
Customer:

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 445/7T IP55 TEFC				PREVIEW WDD			
CHECKED										
RELEASED										
REL DT		WMO	Jaragua do Sul			Product Engineering		SHEET	1 / 1	

MODEL 10012ET3E444T-W22

MADE IN MEXICO

11355339


W22 NEMA
CC029A Premium
*Inverter Duty Motor
Severe Duty*

**3PT9
LISTED**

 FOR SAFE AREA
 MOD.TE1BFOXON

C US
 Energy Verified

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

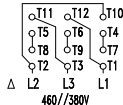
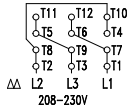
 NEMA NOM EFF 95.0 % INS. CL. F Δ T 80 K IP55

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