



What motors are affected?

Any motor which has a legislated efficiency level.

What is Covered?


- 3 Phase General Purpose
 - Requires NEMA Premium (IE3)
 - NEMA Design A, B, C
 - 2, 4, 6 Pole
 - 1 – 500 HP
 - ODP and TEFC enclosures
 - ¼ - 1HP
 - ODP Enclosures
- Single Phase 1/4HP - 3HP
 - Requires NEMA Premium (IE3)
 - 2, 4, 6 Pole
 - ODP


What is changed?


Motors must meet regulated efficiencies at **all voltages and frequencies** shown on the nameplate.

US DOE- 10 CFR Parts 429 and 431 - [EERE-2020-BT-TP-0011] - RIN 1904-AE62

“DOE could select any nameplate voltage for enforcement testing. DOE considers “Usable At” voltages that appear on the nameplate as a nameplate voltage, and thus could be selected for testing. In DOE’s view, at any voltage at which the manufacturer declares that an electric motor may be installed and operated by making a representation in its nameplate, the electric motor must meet the standards when measured by the DOE test procedure.”

 No More
“50/60HZ”

 No More
“Usable at 208V”

 No More
“208~230/460V”

Efficiency Levels	
NEMA	IEC
Standard Efficiency	IE1
High Efficiency	IE2
NEMA Premium	IE3
Super Premium	IE4

NAMPLATE CHANGES DUE TO NEW REGULATIONS

**BEFORE
10/17/23**

TECHTOP INDUSTRIAL ELECTRIC MOTOR
INVERTER DUTY 15:1 CT - 1.0 SF

MODEL GR3-CI-TF-254T-2-BR-D-15 **TECHTOP.COM**

NEMA Premium	HP	60 Hz	50 Hz	MFG PN	TXC254T15U2A
	RPM	3550	2945	SER #	123456789
●	VOLT (3∅)	230/460	190/380	DATE	0845302
	FLA	33.6/16.8	40.4/20.2	DESIGN	A
	SF	1.25	1.0	FRAME	254T
KVA CODE		K	G	ENCL	TEFC
NOM.EFF		91%	91%	IP	55
				DUTY	CONT
				INS CL	F
				AMB	40 °C
				WEIGHT	242.6 lbs

BEARING SIZE		USABLE @	
DE	6309-C3	ODE	6309-C3
GREASE: MOBIL POLYREX EM		FLA	37.1

Class 1, Div 2, Group A, B, C and D Made in China **IEEE 45 MARINE DUTY**

CE, CC096A, CULUS E323353, SP Energy Verified 255355

**AFTER
10/17/23**

TECHTOP INDUSTRIAL ELECTRIC MOTOR
INVERTER DUTY CT 15:1.0SF
IEEE 45 MARINE DUTY

3 Phase **NEMA Premium**

WWW.TECHTOPIND.COM MODEL GR3-CI-TF-254T-2-BR-D-15

CLASS 1, DIV 2, GROUPS A, B, C AND D

●	HP	15	MFG PN	TXC254T15U2A
	RPM	3550	SER #	123456789
●	VOLT	230/460	DATE	170303
	Hz	60	DESIGN	A
●	FLA	33.6/16.8	FRAME	254T
	SF	1.25	ENCL	TEFC
KVA CODE		K	IP	55
NOM.EFF		91%	DUTY	CONT
			INS CL	F

BEARING SIZE	
DE	6309-C3
ODE	6309-C3

POLYUREA GREASE

AMB 40 °C

WEIGHT 242.6 lbs

MADE IN CHINA

CC096A, CE, CULUS E323353, SP Energy Verified 224693

~~X~~ R3

**Nameplate
1-50 HP**

TECHTOP 3 Phase **SUPER PREMIUM**
WWW.TECHTOPIND.COM

ARC ARRESTOR
Shaft Grounding Installed

MODEL XR3-CI-TF-254T-2-BR-D-15 **Inverter Duty - CT 15:1.0SF**
IEEE 45 MARINE DUTY

●	HP	15	15	15	MFG PN	T 254T15U2B
	RPM	3550	3550	2960	SER #	2307057
●	VOLT	200-208/400-416	230/460	190/380	DATE	0862202
	HZ	60	60	50	DESIGN	BE
●	FLA	38.6-37.1/19.3-18.16	33.4/16.7	40/20	FRAME	254T
	SF	1.25	1.25	1.0	ENCL	TEFC
KVA CODE		G	H	I	IP	55
NOM EFF		91%	92.4%	91%	DUTY	CONT
					INS CL	H
					AMB	40 °C
					WEIGHT	242.6 lbs

NEMA Premium		SUPER PREMIUM		NEMA Premium	
DE	6309-C3	NDE	6309-C3		

Bearing Size

CE, CC096A, CULUS E323353, SP Energy Verified 224693, Made in China