

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 6/13/2012

P.O. NO.:

Order/Line NO.: 20416 MN

TO:

Model Number: CY83

Catalog Number:

TEFC, PRE, AC MTR

60 HZ, 460 V, MEX MARKET

TCE, 200 HP, 4 P, 447T

REVISIONS:

(NONE)

**ALL DOCUMENTS HEREIN ARE CONSIDERED CERTIFIED BY NIDEC MOTOR CORPORATION.
THANK YOU FOR YOUR ORDER AND THE OPPORTUNITY TO SERVE YOU.**

Features:

HorsePower	200
Enclosure.	TE
Poles.	04
RPM (Full Load).	1785
Motor Frame Size	447T
Phase.	3
Frequency.	60
Voltage.	460
Motor Type Code.	TCE
Rotor Inertia (LB-FT ²)	61.0 LB-FT ²
Qty. of Bearings PE (Shaft)	1
Qty. of Bearings SE (OPP)	1
Bearing Number PE (Shaft)	6220-J/C3
Bearing Number SE (OPP)	6313-J/C3

Nidec trademarks followed by the ® symbol are registered with the U.S. Patent and Trademark Office.

EFFECTIVE:
30-MAR-11

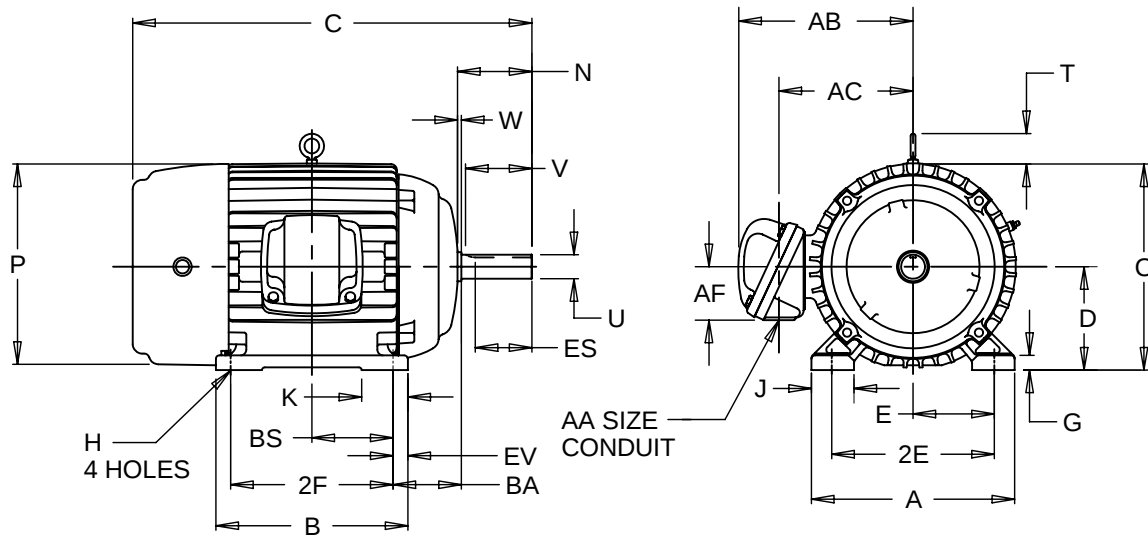
SUPERSEDES:
08-MAR-10

HORIZONTAL MOTORS

FRAME: 444T THRU 447TS
BASIC TYPE: TC

PRINT:
07-2763

SHEET:
1 OF 1



ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS

UNITS	A	D -.06	E	2E ±.03	G	H +.05	J	O	P ²	T
IN	22.00	11.00	9.00	18.00	1.50	.81	4.00	22.75	23.50	3.25
MM	559	279	229	457	38	21	102	578	597	83

UNITS	W	AB	AC	AF	BA ±.09	EV
IN	.38	19.38	15.00	5.28	7.50	1.50
MM	10	492	381	134	191	38

FRAME	UNITS	N	U -.001	V MIN	ES MIN	SQ KEY
440T	IN	8.88	3.375	8.25	6.91	.875
	MM	226	85.73	210	176	22.23
440TS	IN	4.91	2.375	4.50	3.03	.625
	MM	125	60.33	114	77	15.88

FRAME	UNITS	C
444, 445T	IN	45.75
	MM	1162
444, 445TS	IN	42.00
	MM	1067
447T	IN	49.25
	MM	1251
447TS	IN	45.50
	MM	1156

AA
1 1/2 NPT
2 NPT
2 1/2 NPT
3 NPT
3 1/2 NPT

FRAME	UNITS	B	K	BS
444, 445T, TS	IN	19.50	6.00	8.25
	MM	495	152	210
447T, TS	IN	23.00	4.00	10.00
	MM	584	102	254

FRAME	UNITS	2F ±.03
444T, TS	IN	14.50
	MM	368
445T, TS	IN	16.50
	MM	419
447T, TS	IN	20.00
	MM	508

- 1: ALL ROUGH CASTING DIMENSIONS MAY VARY BY .25" DUE TO CASTING AND/OR FABRICATION VARIATIONS.
- 2: LARGEST MOTOR WIDTH.
- 3: TOLERANCES SHOWN ARE IN INCHES ONLY.
- 4: STANDARD ASSEMBLY POSITION F-1 IS SHOWN F-2 IS PROVIDED WHEN SPECIFIED. CONDUIT OPENINGS MAY BE LOCATED IN STEPS OF 90 DEGREES REGARDLESS OF LOCATION. STANDARD AS SHOWN WITH CONDUIT OPENING DOWN.



NAMEPLATE DATA

CATALOG NUMBER:				NAMEPLATE PART #:		431157-000	
MODEL	CY83	FR	447T	TYPE	TCE	ENCL	TE
SHAFT END BRG		6220-J/C3 - QTY 1		OPP END BRG		6313-J/C3 - QTY 1	
PH	3	MAX AMB	40 C	ID#			
INSUL CLASS	F	Asm. Pos	F1	DUTY	CONT		
HP	200	RPM	1785	HP		RPM	
VOLTS	460			VOLTS			
FL AMPS	224.0			FL AMPS			
SF AMPS	260.0			SF AMPS			
SF	1.15	DESIGN	B	CODE	F		
NEMA NOM EFFICIENCY	96.2	NOM PF	86.8	KiloWatt	149.200		
GUARANTEED EFFICIENCY	95.4	MAX KVAR	35.4	HZ	60		

UL DATA (IF APPLICABLE):

DIVISION		CLASS I		GROUP I	
TEMP CODE		CLASS II		GROUP II	

VFD DATA (IF APPLICABLE):

VOLTS		
AMPS		
TORQUE 1		
VFD LOAD TYPE 1		
VFD HERTZ RANGE 1		
VFD SPEED RANGE 1		
TORQUE 2		
VFD LOAD TYPE 2		
VFD HERTZ RANGE 2		
VFD SPEED RANGE 2		
SERVICE FACTOR		
NO. POLES	4	
VECTOR MAX RPM		
Radians / Seconds	1	
FL SLIP		
MAGNETIZING AMPS	52.3	
Encoder PPR		
Encoder Volts		

TEAO DATA (IF APPLICABLE):

HP (AIR OVER)		HP (AIR OVER M/S)		RPM (AIR OVER)		RPM (AIR OVER M/S)	
FPM AIR VELOCITY		FPM AIR VELOCITY M/S		FPM AIR VELOCITY SEC			

ADDITIONAL NAMEPLATE DATA:

Decal / Plate	WD=477257	Customer PN	
Notes		Non Rev Ratchet	
Max Temp Rise	80C RISE/RES@1.00SF	OPP/Upper Oil Cap	GREASE
Thermal (WDG)		SHAFT/Lower Oil Cap	GREASE
Altitude			
Regulatory Notes		Regulatory Compliance	
COS		Marine Duty	
Balance	0.05 IN/SEC	Arctic Duty	
3/4 Load Eff.	96.6	Inrush Limit	
Motor Weight (LBS)	2100	Direction of Rotation	
Sound Level		Special Note 1	
Vertical Thrust (LBS)		Special Note 2	
Thrust Percentage		Special Note 3	
Bearing Life		Special Note 4	
Starting Method		Special Note 5	
Number of Starts		Special Note 6	
200/208V 60Hz Max Amps		SH Max. Temp.	
190V 50 hz Max Amps		SH Voltage	
380V 50 Hz Max Amps		SH Watts	
NEMA Inertia		Load Inertia	
Sumpheater Voltage		Sumpheater Wattage	
Special Accessory Note 1		Special Accessory Note 16	1-800-566-1418
Special Accessory Note 2		Special Accessory Note 17	
Special Accessory Note 3		Special Accessory Note 18	
Special Accessory Note 4		Special Accessory Note 19	
Special Accessory Note 5		Special Accessory Note 20	
Special Accessory Note 6		Special Accessory Note 21	
Special Accessory Note 7		Special Accessory Note 22	
Special Accessory Note 8		Special Accessory Note 23	
Special Accessory Note 9		Special Accessory Note 24	
Special Accessory Note 10		Special Accessory Note 25	
Special Accessory Note 11		Special Accessory Note 26	
Special Accessory Note 12		Special Accessory Note 27	
Special Accessory Note 13	SPECIAL WINDING	Special Accessory Note 28	
Special Accessory Note 14	CONTACT USEM PRIOR	Special Accessory Note 29	
Special Accessory Note 15	TO REWINDING,CALL	Special Accessory Note 30	

NIDEC MOTOR CORPORATION
ST. LOUIS, MO



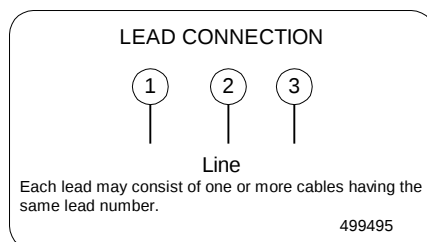
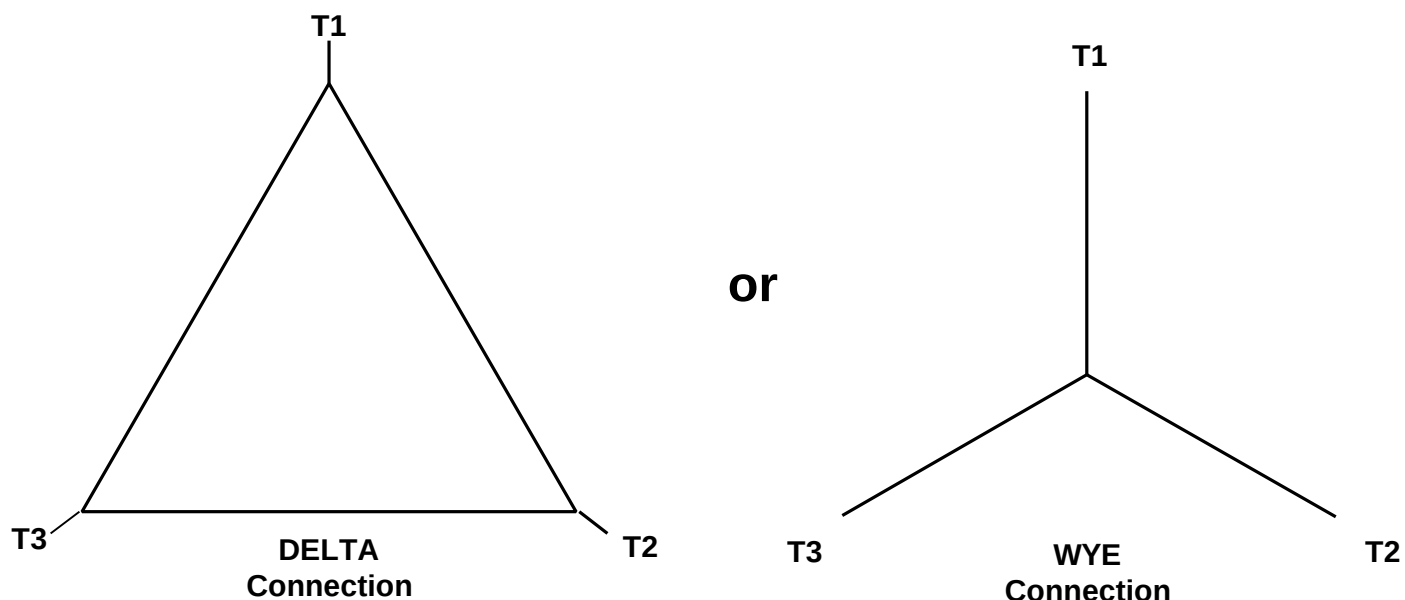
TYPICAL NAMEPLATE DATA
ACTUAL MOTOR NAMEPLATE LAYOUT MAY VARY
SOME FIELDS MAY BE OMITTED

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499495

Motor Wiring Diagram



To reverse direction of rotation interchange connections L1 and L2.

Each lead may be comprised of one or more cables.
Each cable will be marked with the appropriate lead number.