

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 3/13/2012

P.O. NO.:

Order/Line NO.:

21822 MN

TO:

Model Number: DN56
Catalog Number: C125P3C
C125P3C, TEFC, PRE, AC MTR
60HZ, 460V
TCE 125HP, 6P, 445T,

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	125
Enclosure.	TE
Poles.	06
RPM (Full Load).	1185
Motor Frame Size	445T
Phase.	3
Frequency.	60
Voltage.	460
Motor Type Code.	TCE
Rotor Inertia (LB-FT ²)	53.7 LB-FT ²
Qty. of Bearings PE (Shaft)	1
Qty. of Bearings SE (OPP)	1
Bearing Number PE (Shaft)	6318-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

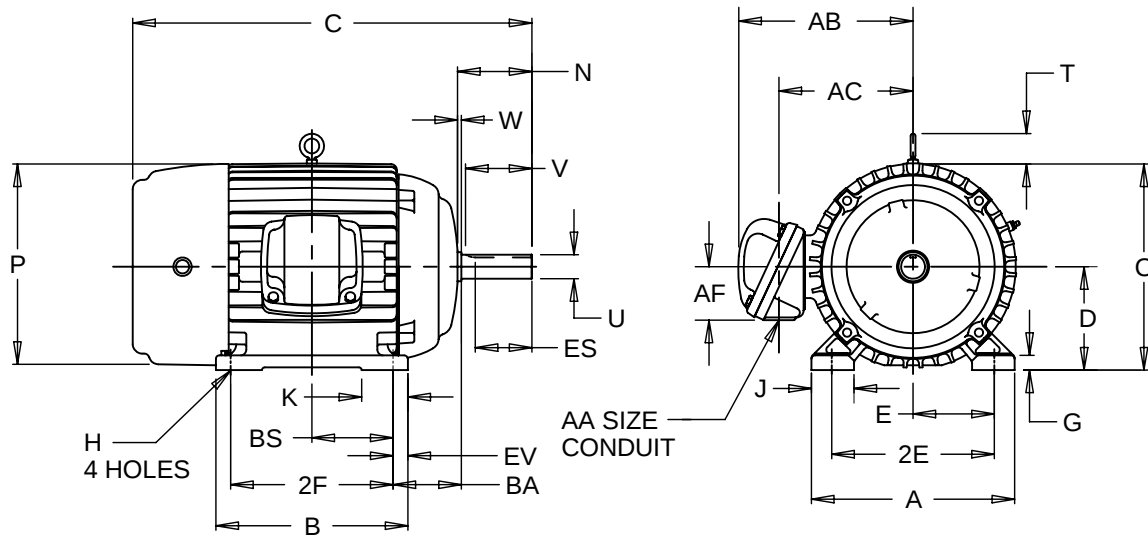
SUPERSEDES:
08-MAR-10

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: C125P3C		NAMEPLATE PART #: 422696-002	
MODEL DN56	FR 445T	TYPE TCE	ENCL TE
SHAFT END BRG 6318-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 125	RPM 1185	HP 	RPM
VOLTS 460		VOLTS 	
FL AMPS 151.0		FL AMPS 	
SF AMPS 174.0		SF AMPS 	
SF 1.15	DESIGN B	CODE G	
NEMA NOM EFFICIENCY 95.4	NOM PF 81.3	KiloWatt 93.250	
GUARANTEED EFFICIENCY 94.5	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 	TORQUE 2
VFD LOAD TYPE 1 	VFD LOAD TYPE 2
VFD HERTZ RANGE 1 	VFD HERTZ RANGE 2
VFD SPEED RANGE 1 	VFD SPEED RANGE 2
SERVICE FACTOR 	FL SLIP
NO. POLES 6	MAGNETIZING AMPS 52.3
VECTOR MAX RPM 	Encoder PPR
Radians / Seconds 1	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=499495	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	CC 030A
COS		Marine Duty	
Balance	0.08 IN/SEC	Arctic Duty	
3/4 Load Eff.	96.0	Inrush Limit	
Motor Weight (LBS)	1750	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	
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 Accessory Note 28	
Special Accessory Note 14		Special Accessory Note 29	
Special Accessory Note 15		Special Accessory Note 30	

NIDEC MOTOR CORPORATION
ST. LOUIS, MO



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

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

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DN56	C125P3C	3	TCE	445T

ORDER NO.	21822	LINE NO.	
-----------	-------	----------	--

MPI:		146198
HP:		125
POLES:		6
VOLTS:		460
HZ:		60
SERVICE FACTOR:		1.15
EFFICIENCY (%):		
	S.F.	94.9
	FULL	95.4
	3/4	96
	1/2	95.9
	1/4	93.8
POWER FACTOR (%):		
	S.F.	81.7
	FULL	81.3
	3/4	78.6
	1/2	70.6
	1/4	49.5
	NO LOAD	3
	LOCKED ROTOR	25.4
AMPS:		
	S.F.	174
	FULL	151
	3/4	116
	1/2	86
	1/4	63
	NO LOAD	52.3
	LOCKED ROTOR	907.5
NEMA CODE LETTER		G
NEMA DESIGN LETTER		B
FULL LOAD RPM		1185
NEMA NOMINAL EFFICIENCY (%)		95.4
GUARANTEED EFFICIENCY (%)		94.5
MAX KVAR		35.4
AMBIENT (°C)		40
ALTITUDE (FASL)		3300
SAFE STALL TIME-HOT (SEC)		30
SOUND PRESSURE (DBA @ 1M)		0
TORQUES:		
	BREAKDOWN{% F.L.}	221
	LOCKED ROTOR{% F.L.}	127
	FULL LOAD{LB-FT}	553.6

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

NIDEC MOTOR CORPORATION
ST. LOUIS, MO

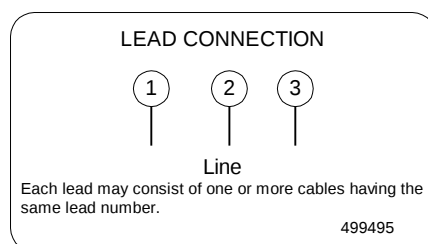
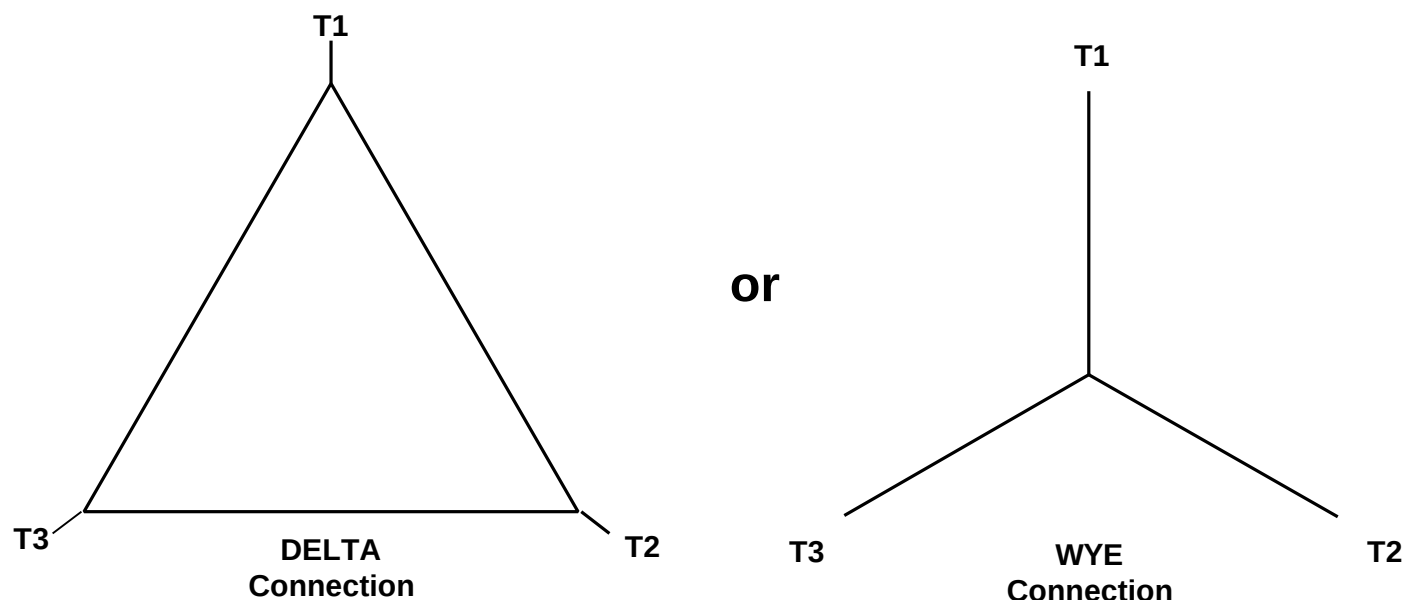


Nidec trademarks followed by the ® symbol are registered with the U.S. Patent and Trademark Office.



499495

Motor Wiring Diagram



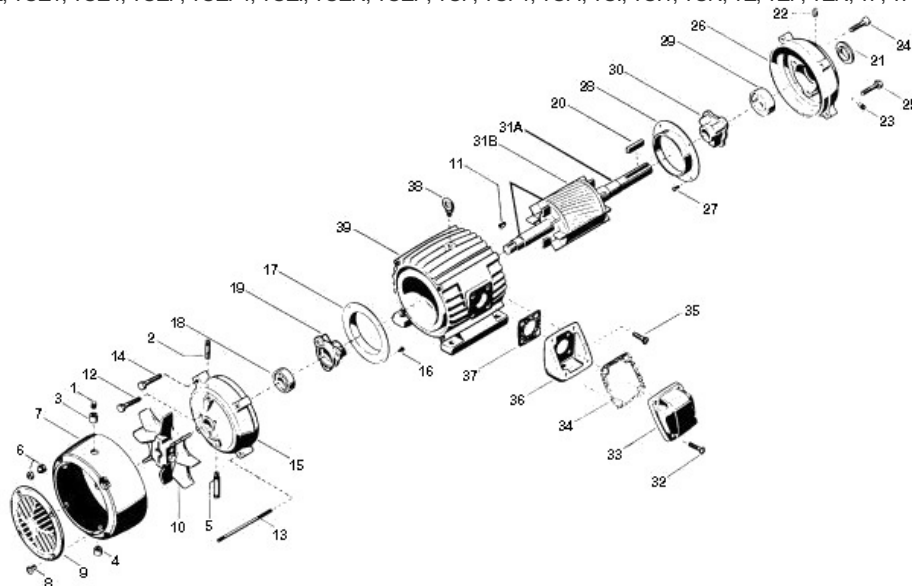
To reverse direction of rotation interchange connections L1 and L2.

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

RENEWAL PARTS

FRAMES 254T THRU 447T - TOTALLY ENCLOSED AND EXPLOSIONPROOF MOTORS

TYPES: CE, CE1, CE4, CEF, CT, CT1, CT4, CTC, CTE, CTE1, CTE4, CTEF, CTEF1, CTEF4, CTEI, CTEN, CTF, CTF1, CTF4, CTFI, CTFI1, CTFI4, CTFN, CTI, CTI4, CTN, CTNI, EC, ECEI, FCT, FCTF, FCTF1, FCTN, FD, FDF, FDF1, FL, FLC, FLCA, FLCF, FLF, FN, FNC, FTC, FTCF, JAD, JDE, L, L1, L4, LC, LC1, LCA, LCAE, LCE, LCEF, LCEI, LCE1, LCF, LCFI, LCI, LE, LE1, LE4, LEF, LF, LF1, LF4, LFC, LFI, LI, LN, N, NC, NCE, NCEF, NCF, NCFI, NCI, NE, NF, NN, T, T1, T4, TC, TC1, TC4, TCA, TCE, TCE1, TCE4, TCEF, TCEI, TCEN, TCEP, TCF, TCF1, TCFI, TCI, TCI1, TCN, TE, TEF, TEN, TF, TFC, TFN, TN



ITEM NO.	QTY	NAME OF PART
1	1	Slotted Headless Pipe Plug
2	1	Pipe Coupling
3	1	Pipe Nipple
4	1	Pipe Cap
5	1	Pipe Nipple
6	2	Cap and Jam Nut
7	1	Fan Cover Guard
8	3	Screw & Lockwasher
9	1	Grill
10	1	Vent Fan Assembly
11	1	Woodruff Key (Not used on frames 254T & 256T)
12	2	Screw
13	2	Stud & Nut
14	2	Screw (Qty 6 on frames 254T & 256T)
15	1	Bracket
16	4	Screw (Used only on frame 286T & 326T)
17	1	Air Deflector (Used only on frame 286T & 326T)
18	1	Ball Bearing
19	1	Bearing Cap
20	1	Key
21	1	Water Deflector

ITEM NO.	QTY	NAME OF PART
22	1	Slotted Headless Pipe Plug
23	1	Pipe Plug
24	2	Screw
25	4	Screw (Qty 8 on frames 286T & 326T)
26	1	Bracket (Not used on types TF)
27	4	Screw (Used only on frame 286T & 326T)
28	1	Air Deflector ((Used only on frame 286T & 326T)
29	1	Ball Bearing
30	1	Bearing Cap
31	1	Rotor Assembly (Includes items 31A & 31B)
31A	1	Motor Shaft
31B	1	Rotor Core
32	4	Screw
33	1	Outlet Box Cover
34	1	Gasket
35	4	Screw (Qty 2 on frames 254T & 256T)
36	1	Outlet Box Base
37	1	Gasket (Outlet Box Base)
38	1	Eyebolt
39	1	Wound Stator Assembly

WARNING:

Any disassembly or repair work on explosionproof motors will void the Underwriters Laboratories, Inc. label unless done by the manufacturer, or a facility approved by the Underwriters Laboratories, Inc. Refer to your nearest sales office for assistance.

BEARINGS:

Refer to motor nameplate for the bearing numbers.

PRICES:

Parts stocking distributors: refer to renewal parts numerical index. All Others: refer to your nearest parts distributor.

reference: Renewal Parts Section 700, Page 19