

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 6/23/2011

P.O. NO.:

Order/Line NO.: 15929 MN

TO:

Model Number: AU14
Catalog Number: C25P3C
C25P3C,TEFC,PRES,AC MTR
60,460V (ALT DL99)
TCE,25HP,6P,324T

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	25
Enclosure.	TE
Poles.	06
RPM (Full Load).	1185
Motor Frame Size	324T
Phase.	3
Frequency.	60
Voltage.	460
Motor Type Code.	TCE
Rotor Inertia (LB-FT ²)	11.9 LB-FT ²
Qty. of Bearings PE (Shaft)	1
Qty. of Bearings SE (OPP)	1
Bearing Number PE (Shaft)	6311-2Z-J/C3
Bearing Number SE (OPP)	6211-2Z-J/C3

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EFFECTIVE:
04-MAR-11

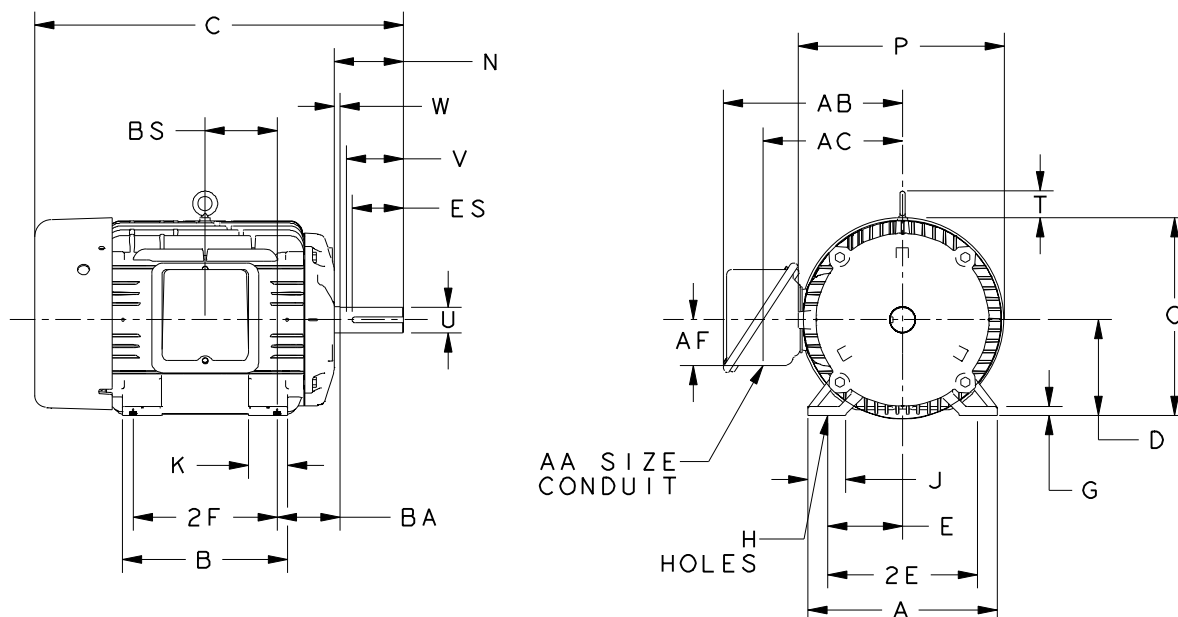
SUPERSEDES:
04-JUN-01

HORIZONTAL MOTORS

FRAME: 324, 326T
TYPE: TCE, TC, FTC, CE

PRINT:
07-2057

SHEET:
1 OF 1



	A	B	C	D	E	2E	G	H
	IN	15.75	13.75	30.75	8.00	6.25	12.50	.75
	MM	400	349	781	203	159	318	19
	J	K	N	N-W	O	p ²	T	U
	IN	3.19	3.25	5.75	5.25	16.50	17.19	2.25
	MM	81	83	146	143	149	437	57
	SO KEY	V MIN	W	AA	AB	AC	AF	BA
	IN	.500	5.00	.50	15.00	11.69	3.25	5.25
	MM	12.70	127	13	381	297	83	133
	BS	ES MIN						
	IN	6.00	3.91					
	MM	152	100					
	FRAME	2F						
	IN	±.03						
	MM	10.50						
	IN	267						
	MM	12.00						
	IN	305						

1: ALL ROUGH CASTING DIMENSIONS MAY VARY .25"
DUE TO CASTING VARIATIONS.
2: LARGEST MOTOR WIDTH
3: TOLERANCES ARE SHOWN IN INCHES.

4: CONDUIT BOX MAY BE LOCATED ON EITHER SIDE
OF MOTOR. CONDUIT OPENINGS MAY BE LOCATED IN
STEPS OF 90 DEGREES REGARDLESS OF LOCATION.
STANDARD AS SHOWN WITH CONDUIT OPENING DOWN.

07-2057/C

Nidec Motor Corporation
St. Louis, Missouri

INFORMATION DISCLOSED ON THIS DOCUMENT
IS CONSIDERED PROPRIETARY AND SHALL NOT BE
REPRODUCED OR DISCLOSED WITHOUT WRITTEN
CONSENT OF NIDEC MOTOR CORPORATION



ISSUED BY
K. FRIEDMAN
APPROVED BY
K. POTTER

IHP_DP_NMCA (MAR-2011) PROENGINEER

NAMEPLATE DATA

CATALOG NUMBER:		C25P3C		NAMEPLATE PART #:		422696-002	
MODEL	AU14	FR	324T	TYPE	TCE	ENCL	TE
SHAFT END BRG		6311-2Z-J/C3 - QTY 1		OPP END BRG		6211-2Z-J/C3 - QTY 1	
PH	3	MAX AMB	40 C	ID#			
INSUL CLASS	F	Asm. Pos.	F1	DUTY	CONT		
HP	25	RPM	1185	HP		RPM	
VOLTS	460			VOLTS			
FL AMPS	29.4			FL AMPS			
SF AMPS	34.0			SF AMPS			
SF	1.15	DESIGN	B	CODE	G		
NEMA NOM EFFICIENCY	93.0	NOM PF	85.7	KiloWatt	18.7		
GUARANTEED EFFICIENCY	91.7	MAX KVAR	6.2	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	6	
VECTOR MAX RPM		
Radians / Seconds	1	
FL SLIP		
MAGNETIZING AMPS	9.1	
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=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.	94.0	Inrush Limit	
Motor Weight	600	Direction of Rotation	
Sound Level		Special Note 1	
Vertical Thrust		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

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MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
AU14	C25P3C	3	TCE	324T

ORDER NO.	15929	LINE NO.	
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MPI:		67155
HP:		25
POLES:		6
VOLTS:		460
HZ:		60
SERVICE FACTOR:		1.15
EFFICIENCY (%):		
	S.F.	92.2
	FULL	93
	3/4	94
	1/2	94
	1/4	91.7
POWER FACTOR (%):		
	S.F.	86.2
	FULL	85.7
	3/4	83.2
	1/2	76.1
	1/4	56.7
	NO LOAD	4.7
	LOCKED ROTOR	39.5
AMPS:		
	S.F.	34
	FULL	29.4
	3/4	22.4
	1/2	16.4
	1/4	11.3
	NO LOAD	9.1
	LOCKED ROTOR	182
NEMACODE LETTER		G
NEMADESIGN LETTER		B
FULL LOAD RPM		1185
NEMANOMINAL EFFICIENCY (%)		93
GUARANTEED EFFICIENCY (%)		91.7
MAX KVAR		6.2
AMBIENT (°C)		40
ALTITUDE (FASL)		3300
SAFE STALL TIME-HOT (SEC)		30
SOUND PRESSURE (DBA @ 1M)		59
TORQUES:		
	BREAKDOWN{% F.L.}	247
	LOCKED ROTOR{% F.L.}	190
	FULL LOAD{LB-FT}	111

The Above Data Is Typical. Sinewave Power Unless Noted Otherwise

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ST. LOUIS, MO

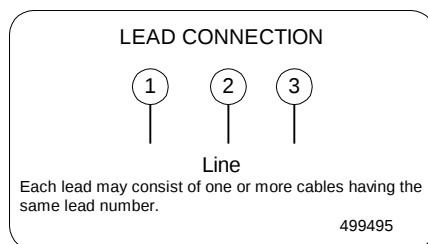
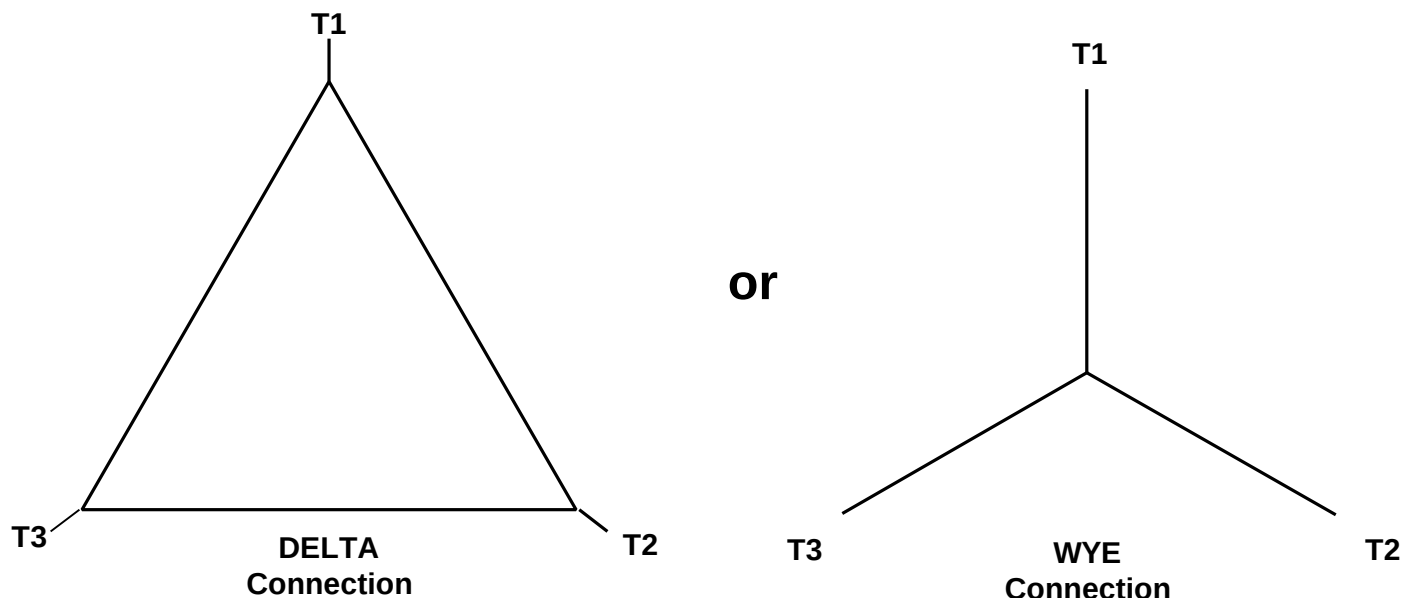


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499495

Motor Wiring Diagram



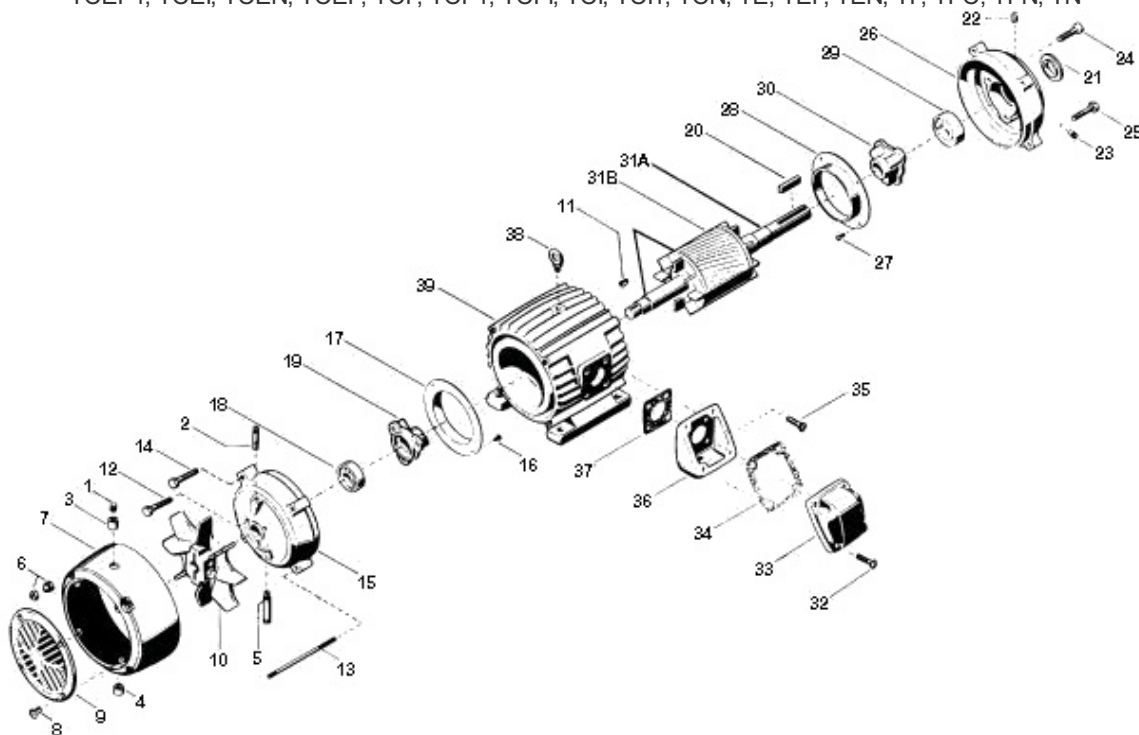
To reverse direction of rotation interchange connections L1 and L2.

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

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, CTF4, 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, TCEF4, 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 U.S. Electrical Motors office for assistance.

BEARINGS:

Refer to motor nameplate for the bearing numbers.

PRICES:

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

reference: Renewal Parts Section 700, Page 19