

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 8/20/2013

P.O. NO.: CY65
Order/Line NO.: 20383 MN 100

TO:

Model Number: CY65
Catalog Number:
Corro-Duty Premium Eff. Config
CONF,MOTOR,CORRO-DUTY PRE EFF

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 00050.00 ~ KW: 37.3
Enclosure TEFC
Poles 04 ~ RPM: 1800
Frame Size 326~T
Phase/Frequency/Voltage.. 3~060~460 ~ Random Wound
Service Factor 1.15
Insulation Class Class "F" ~ Insulife 2000
Altitude In Feet (Max) .. 3300 Ft.(1000 M)
Ambient In Degree C (Max) +40 C
Assembly Position "F-1" Assembly Position
Efficiency Class Premium Efficiency
Application Unknown
Customer Part Number
"AK" Dimension (Inches).. NA
Temperature Rise (Sine Wave): "B" Rise @ 1.0 SF (Resist)
NEMA Design B
KVA Code Letter "G"
Starting Method Direct-On-Line Start
Duty Cycle Continuous Duty
Efficiency Value 93.6 % ~ Guaranteed
Load Inertia (lb-ft²): NEMA ~ NEMA Inertia: 232.00 ~ 1.00
Number Of Starts Per Hour: NEMA
Motor Type Code TCE
Rotor Inertia (LB-FT²) 9.85 LB-FT²
Qty. of Bearings PE (Shaft) 1
Qty. of Bearings SE (OPP) 1
Bearing Number PE (Shaft) 6311-J/C3
Bearing Number SE (OPP) 6311-J/C3

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

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Accessories:

Cast Iron Fan Cover
Corro-Duty
Clockwise Rotation FODE
Ground Lug In Conduit Box
Horizontal Lifting Lugs
Special Balance
Standard Leadtime: REFER TO OFFICE
Est. Weight (lbs ea): 625 ~ F.O.B.: St. Louis, MO

USE THE DATA PROVIDED BELOW TO SELECT THE APPROPRIATE DIMENSION PRINT

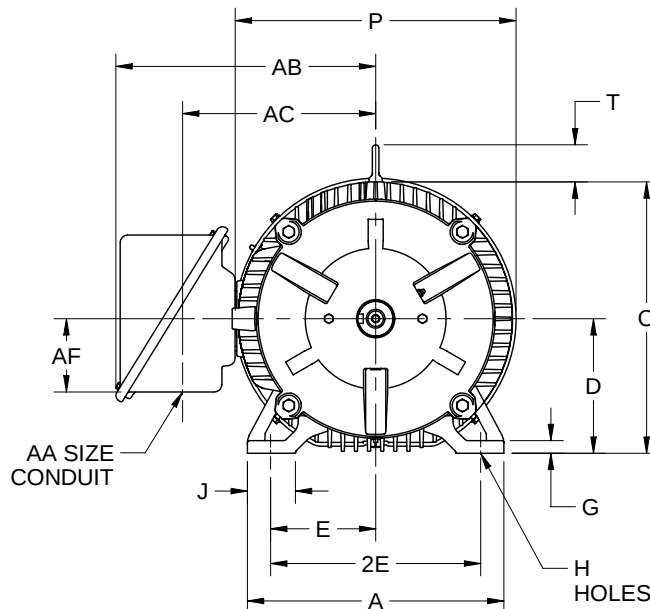
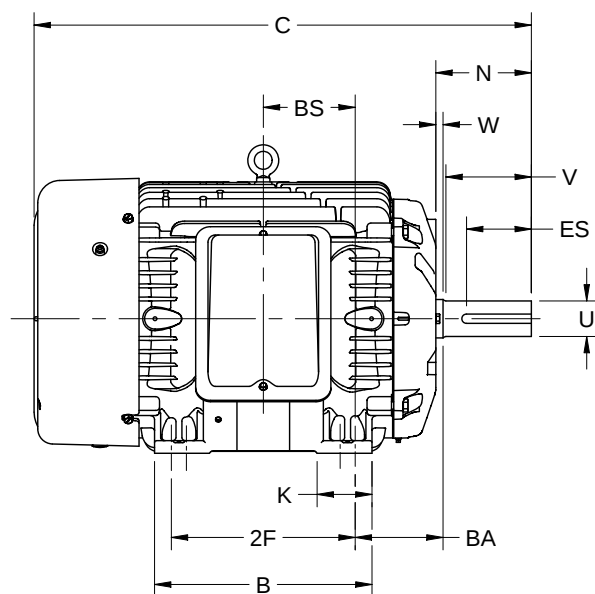
Horsepower	50
Pole(s)	04
Voltage(s)	460
Frame Size	326T
Shaft U Diameter	2.125
Outlet Box AF	3.81
Outlet Box AA	2.00

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SUPERSEDES:
01-AUG-11

FRAME: 320T
BASIC TYPE: TC, CE

SHEET:
1 OF 1



	A	B	C	D -.06	E	2E ±.03	G	H +.05	J
IN	15.75	13.75	30.75	8.00	6.25	12.50	.75	.66	3.19
MM	400	349	781	203	159	318	19	17	81
K	N	N-W	O	P ²	T	U -.001	V MIN	W	
IN	3.25	5.75	5.25	16.50	17.19	2.25	2.125	5.00	.50
MM	83	146	133	149	437	57	53.98	127	13
AA	AB	AC	AF	BA ±.09	BS	ES MIN	SQ KEY		
IN	2 NPT	15.00	11.69	3.81	5.25	6.00	3.91	.500	
MM		381	297	97	133	152	99	12.70	
FRAME	2F ±.03								
IN	324T	10.50							
MM		267							
IN	326T	12.00							
MM		305							

1. DIMENSIONS MAY VARY .25" DUE TO CASTING AND/OR FABRICATION 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.

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NAMEPLATE DATA

CATALOG NUMBER				NAMEPLATE PART #:		431157-000	
MODEL	CY65	FR	326T	TYPE	TCE	ENCL	TE
SHAFT END BRG		6311-J/C3 - QTY 1		OPP END BRG		6311-J/C3 - QTY 1	
PH	3	MAX AMB	40 C	ID#			
INSUL CLASS	F	Asm. Pos	F1	DUTY	CONT		
HP	50	RPM	1780	HP		RPM	
VOLTS	460			VOLTS			
FL AMPS	56.0			FL AMPS			
SF AMPS	65.0			SF AMPS			
SF	1.15	DESIGN	B	CODE	G		
NEMA NOM EFFICIENCY	94.5	NOM PF	88.4	KiloWatt	37.300		
GUARANTEED EFFICIENCY	93.6	MAX KVAR	10.1	HZ	60		
UL DATA (IF APPLICABLE):							
DIVISION				CLASS I			
TEMP CODE				CLASS II			
VFD DATA (IF APPLICABLE):							
VOLTS				TORQUE 2			
AMPS				VFD LOAD TYPE 2			
TORQUE 1				VFD HERTZ RANGE 2			
VFD LOAD TYPE 1				VFD SPEED RANGE 2			
VFD HERTZ RANGE 1							
VFD SPEED RANGE 1							
SERVICE FACTOR				FL SLIP			
NO. POLES		4		MAGNETIZING AMPS		14.9	
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=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	0.08 IN/SEC	Arctic Duty	
3/4 Load Eff.	95.2	Inrush Limit	
Motor Weight (LBS)	625	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	

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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
CY65	NA	3	TCE	326T

ORDER NO.	20383	LINE NO.	
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MPI:		67427
HP:		50
POLES:		4
VOLTS:		460
HZ:		60
SERVICE FACTOR:		1.15
EFFICIENCY (%):		
	S.F.	93.8
	FULL	94.5
	3/4	95.2
	1/2	95.2
	1/4	93
POWER FACTOR (%):		
	S.F.	88.5
	FULL	88.4
	3/4	86.7
	1/2	81.1
	1/4	63
	NO LOAD	4.9
	LOCKED ROTOR	39.2
AMPS:		
	S.F.	65
	FULL	56
	3/4	43
	1/2	30
	1/4	20
	NO LOAD	14.9
	LOCKED ROTOR	377
NEMA CODE LETTER		G
NEMA DESIGN LETTER		B
FULL LOAD RPM		1780
NEMA NOMINAL EFFICIENCY (%)		94.5
GUARANTEED EFFICIENCY (%)		93.6
MAX KVAR		10.1
AMBIENT (°C)		40
ALTITUDE (FASL)		3300
SAFE STALL TIME-HOT (SEC)		22
SOUND PRESSURE (DBA @ 1M)		0
TORQUES:		
	BREAKDOWN(% F.L.)	265
	LOCKED ROTOR(% F.L.)	210
	FULL LOAD(LB-FT)	147.7

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

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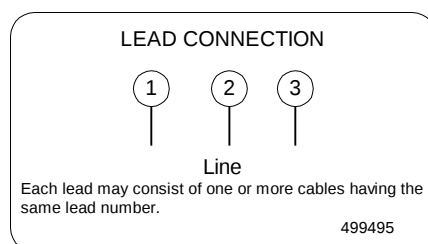
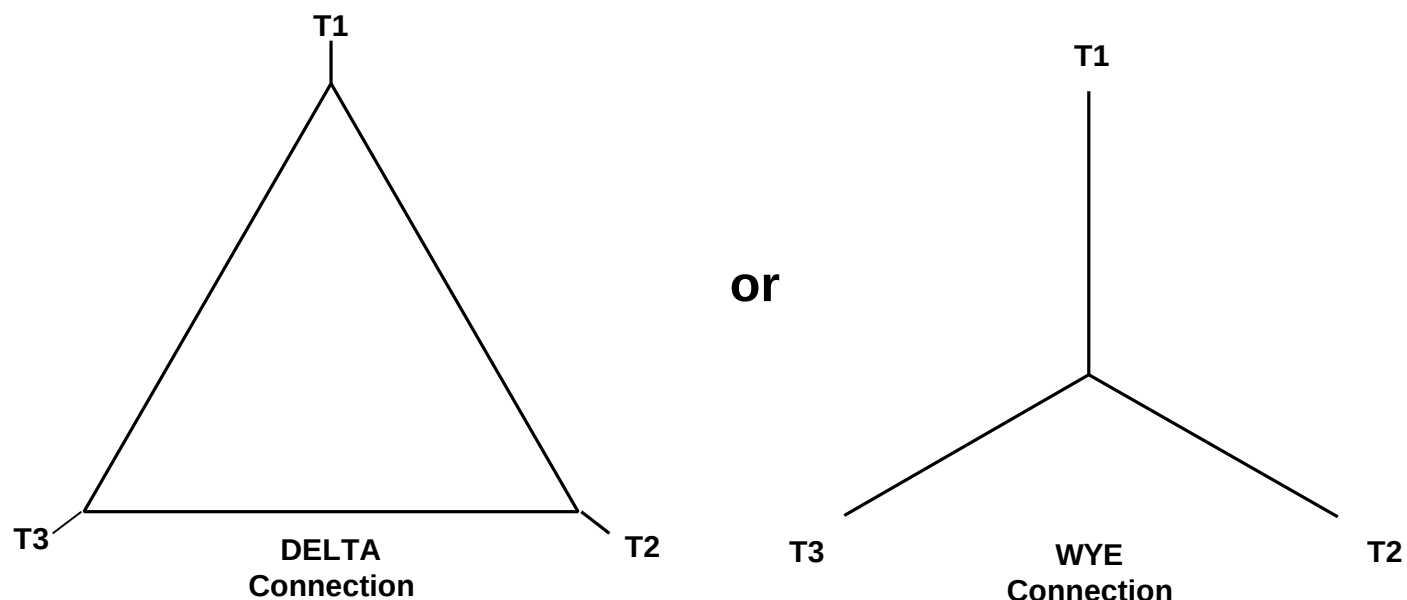


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499495

Motor Wiring Diagram



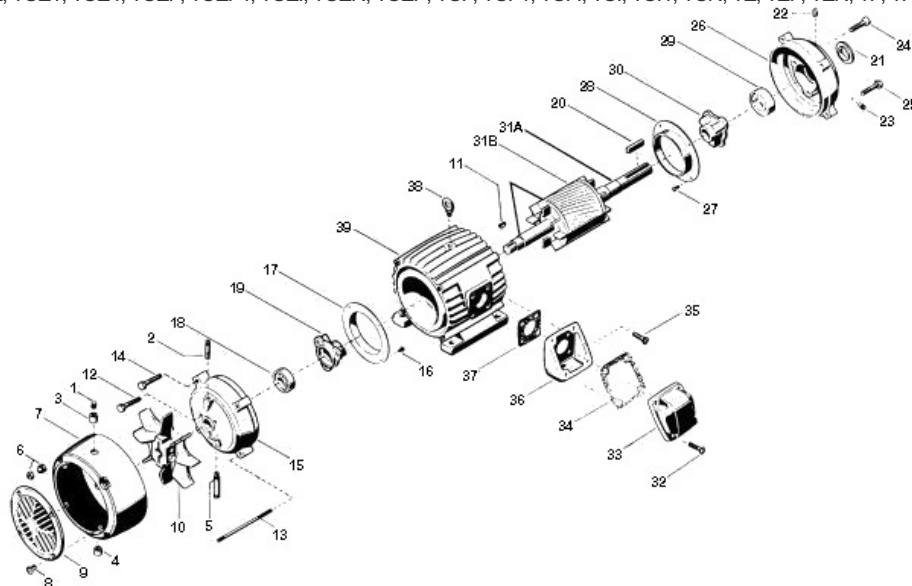
To reverse direction of rotation interchange connections L1 and L2.

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, 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