

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 2/5/2014

P.O. NO.: CY60
Order/Line NO.: 20378 MN 100

TO:

Model Number: CY60
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 00030.00 ~ KW: 22.38
Enclosure TEFC
Poles 06 ~ RPM: 1200
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 91.7 % ~ Guaranteed
Load Inertia (lb-ft²): NEMA ~ NEMA Inertia: 384.00 ~ 1.00
Number Of Starts Per Hour: NEMA
Motor Type Code TCE
Rotor Inertia (LB-FT²) 14.1 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

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Accessories:

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	30
Pole(s)	06
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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EFFECTIVE:
19-SEP-12

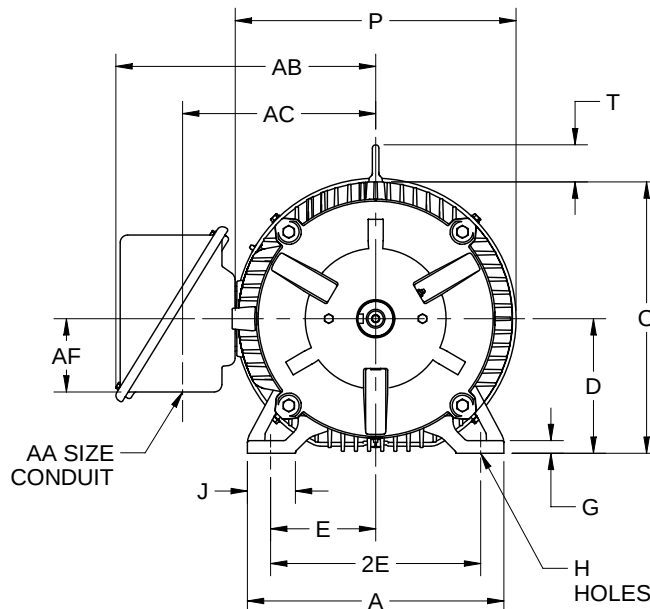
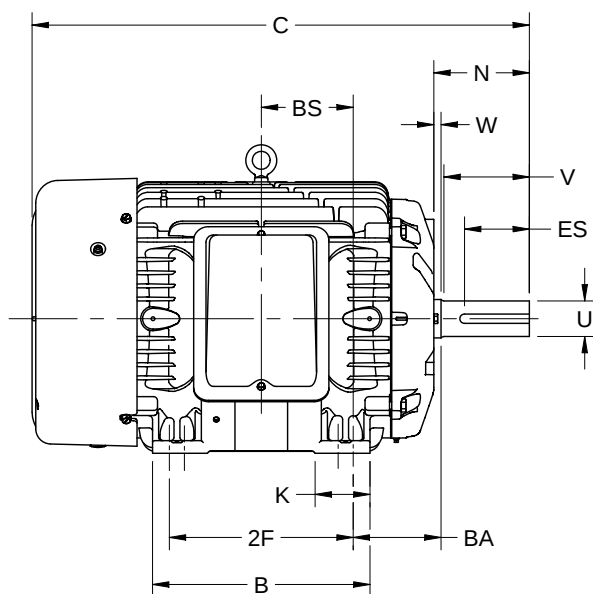
SUPERSEDES:
01-AUG-11

HORIZONTAL MOTORS

FRAME: 320T
BASIC TYPE: TC, CE

PRINT:
07-2057

SHEET:
1 OF 1



ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS

		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.

07-2057/E

Nidec Motor Corporation
St. Louis, Missouri

INFORMATION DISCLOSED ON THIS DOCUMENT
IS CONSIDERED PROPRIETARY AND SHALL NOT BE
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CONSENT OF NIDEC MOTOR CORPORATION



ISSUED BY
K. FRIEDMAN
APPROVED BY
J. O'BRIEN

IHP_DP_NMCA (MAR-2011) SOLIDEDGE

NAMEPLATE DATA

CATALOG NUMBER				NAMEPLATE PART #:		431157-000	
MODEL	CY60	FR	326T	TYPE	TCE	ENCL	TEFC
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	30	RPM	1180	HP		RPM	
VOLTS	460			VOLTS			
FL AMPS	35.0			FL AMPS			
SF AMPS	40.0			SF AMPS			
SF	1.15	DESIGN	B	CODE	G		
NEMA NOM EFFICIENCY	93.0	NOM PF	86.1	KiloWatt	22.380		
GUARANTEED EFFICIENCY	91.7	MAX KVAR	7.1	HZ	60		

HAZARDOUS LOCATION 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	10.5	
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	0.08 IN/SEC	Arctic Duty	
3/4 Load Eff.	94.3	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	

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
CY60	NA	3	TCE	326T

ORDER NO.	20378	LINE NO.	
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MPI:		125566
HP:		30
POLES:		6
VOLTS:		460
HZ:		60
SERVICE FACTOR:		1.15
EFFICIENCY (%):		
	S.F.	92.4
	FULL	93
	3/4	94.3
	1/2	94.4
	1/4	92.3
POWER FACTOR (%):		
	S.F.	86.4
	FULL	86.1
	3/4	84.2
	1/2	77.1
	1/4	58
	NO LOAD	4.5
	LOCKED ROTOR	39.3
AMPS:		
	S.F.	40
	FULL	35
	3/4	26.5
	1/2	19.3
	1/4	13.1
	NO LOAD	10.5
	LOCKED ROTOR	235.4
NEMA CODE LETTER		G
NEMA DESIGN LETTER		B
FULL LOAD RPM		1180
NEMA NOMINAL EFFICIENCY (%)		93
GUARANTEED EFFICIENCY (%)		91.7
MAX KVAR		7.1
AMBIENT (°C)		40
ALTITUDE (FASL)		3300
SAFE STALL TIME-HOT (SEC)		30
SOUND PRESSURE (DBA @ 1M)		59
TORQUES:		
	BREAKDOWN{% F.L.}	249
	LOCKED ROTOR{% F.L.}	198
	FULL LOAD{LB-FT}	133.3

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

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ST. LOUIS, MO

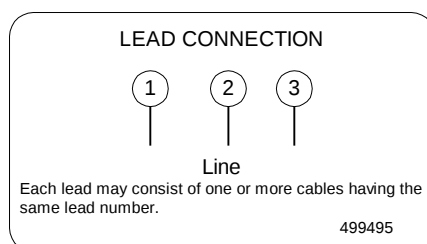
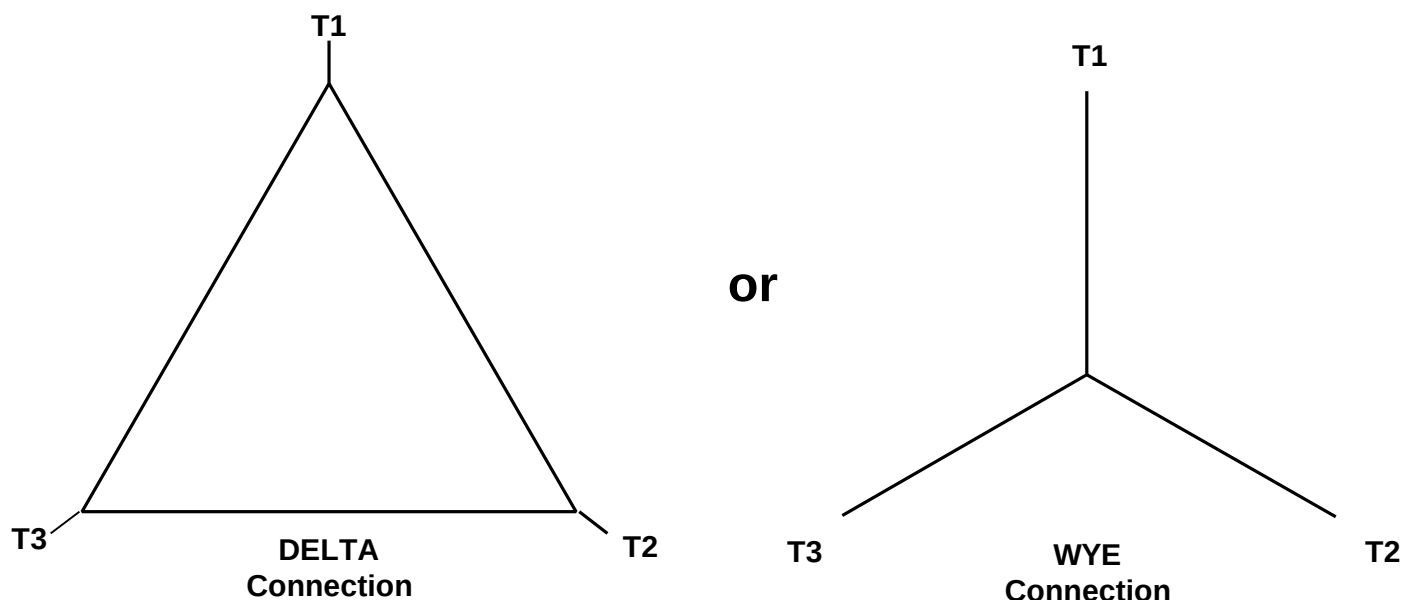


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Motor Wiring Diagram



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.