NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136

DATE: 6/7/2011

P.O. NO.:
Order/Line NO.: 20500 MN

TO:

Model Number: CW62
Catalog Number: NA
TEFC, PRE, AC MOTOR
60 HZ, 230/460 V
LCE, 10 HP,4 P, 215T

REVISIONS:
(NONE)

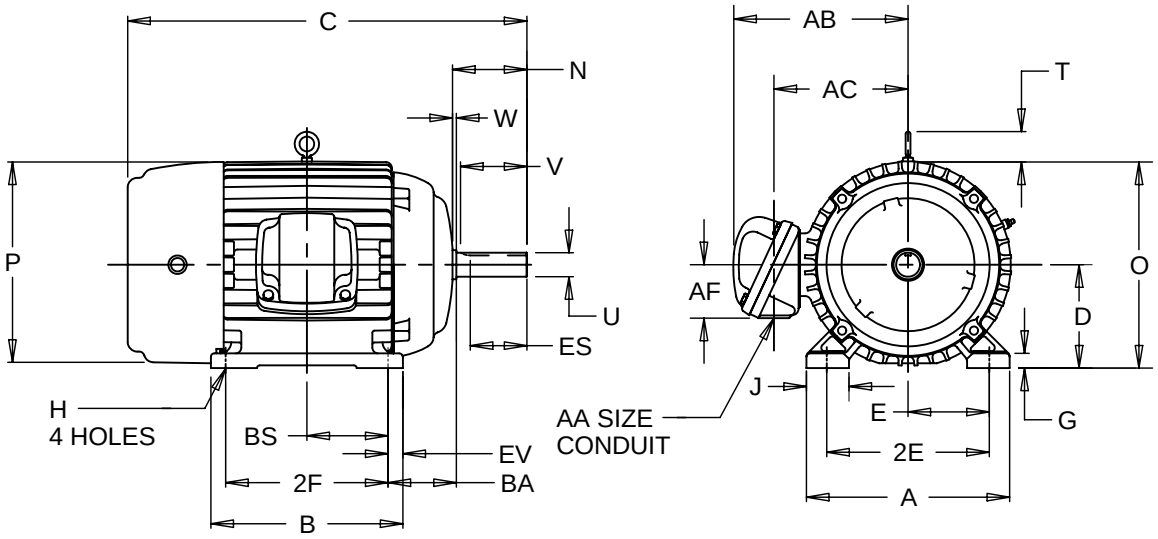
ALL DOCUMENTS HEREIN ARE CONSIDERED CERTIFIED BY NIDEC MOTOR CORPORATION.
THANK YOU FOR YOUR ORDER AND THE OPPORTUNITY TO SERVE YOU.

Features:

HorsePower	10
Enclosure	TE
Poles	04
RPM (Full Load)	1765
Motor Frame Size	215T
Phase	3
Frequency	60
Voltage	460-230
Motor Type Code	LCE
Rotor Inertia (LB-FT²)	.928 LB-FT²
Qty. of Bearings PE (Shaft)	1
Qty. of Bearings SE (OPP)	1
Bearing Number PE (Shaft)	6208-J/C3
Bearing Number SE (OPP)	6206-J/C3

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

EFFECTIVE: 10-MAR-11	HORIZONTAL MOTORS	PRINT: 07-2891
SUPERSEDES: 31-JUL-09	FRAME: 213, 215T BASIC TYPE: LC, NC	SHEET: 1 OF 1



ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS

	UNITS	A	B	C	D -.06	E	2E ±.03	G	H +.05	J	N
	IN	10.38	8.50	20.00	5.25	4.25	8.50	.75	.41	1.75	3.75
	MM	264	216	508	133	108	216	19	10	44	95

	UNITS	O	P [2]	T	U -.0005	V MIN	W	AA	AB	AC	AF	BA
	IN	10.75	11.00	2.03	1.3750	3.13	.38	1.00 NPT	9.16	6.81	2.63	3.50
	MM	273	279	52	34.925	79	10		233	173	67	89

	UNITS	BS	ES MIN	EV	SQ KEY
	IN	3.50	2.41	.75	.313
	MM	89	61	19	7.95

	FRAME	UNITS	2F ±.03
	213T	IN	5.50
		MM	140
	215T	IN	7.00
		MM	178

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.

Nidec Motor Corporation
St. Louis, Missouri

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ISSUED BY	R. KING
APPROVED BY	K. POTTER

IHP_DP_NMCA (MAR-2011) SOLIDEDGE

NAMEPLATE DATA

CATALOG NUMBER:				NAMEPLATE PART #:	431158-000		
MODEL	CW62	FR	215T	TYPE	LCE	ENCL	TE
SHAFT END BRG	6208-J/C3 - QTY 1			OPP END BRG	6206-J/C3 - QTY 1		
PH	3	MAX AMB	40 C	ID#			
INSUL CLASS	F	Asm. Pos.	F1	DUTY	CONT		

HP	10	RPM	1765	HP		RPM	
VOLTS	460	230		VOLTS			
FL AMPS	12.0	23.9		FL AMPS			
SF AMPS				SF AMPS			
SF	1.15	DESIGN	B	CODE	H	SF		DESIGN		CODE	
NEMA NOM EFFICIENCY	91.7	NOM PF	85.3	KiloWatt	7.460	NEMA NOM EFFICIENCY		NOM PF			
GUARANTEED EFFICIENCY	90.2	MAX KVAR	2.8	HZ	60	GUARANTEED EFFICIENCY		MAX KVAR		HZ	

UL DATA (IF APPLICABLE):

DIVISION	1	CLASS I	I	GROUP I	D
TEMP CODE	T2B	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	4	MAGNETIZING AMPS	4.2
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=158802	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		Arctic Duty	
3/4 Load Eff.	92.7	Inrush Limit	
Motor Weight	170	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
CW62	NA	3	LCE	215T

ORDER NO.	20500	LINE NO.	

MPI:	119575	119576
HP:	10	10
POLES:	4	4
VOLTS:	460	230
HZ:	60	60
SERVICE FACTOR:	1.15	1
EFFICIENCY (%):		
S.F.	91.1	
FULL	91.7	91.7
3/4	92.7	92.7
1/2	92.4	92.4
1/4	88.7	88.7
POWER FACTOR (%):		
S.F.	86.2	
FULL	85.3	85.3
3/4	82.1	82.1
1/2	74.6	74.6
1/4	54	54
NO LOAD	6.1	6.1
LOCKED ROTOR	44.1	44.1
AMPS:		
S.F.	13.7	
FULL	12	23.9
3/4	9.2	18.5
1/2	6.8	13.6
1/4	4.9	9.8
NO LOAD	4.1	8.1
LOCKED ROTOR	81	161
NEMA CODE LETTER	H	H
NEMA DESIGN LETTER	B	B
FULL LOAD RPM	1760	1760
NEMA NOMINAL EFFICIENCY (%)	91.7	91.7
GUARANTEED EFFICIENCY (%)	90.2	90.2
MAX KVAR	2.8	2.7
AMBIENT (°C)	40	40
ALTITUDE (FASL)	3300	3300
SAFE STALL TIME-HOT (SEC)	24	24
SOUND PRESSURE (DBA @ 1M)	68	68
TORQUES:		
BREAKDOWN{% F.L.}	301	301
LOCKED ROTOR{% F.L.}	235	235
FULL LOAD{LB-FT}	29.8	29.8

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

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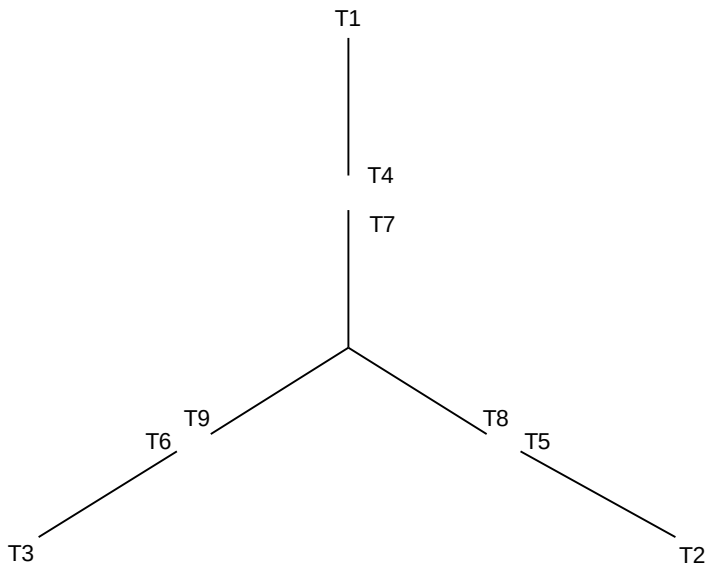
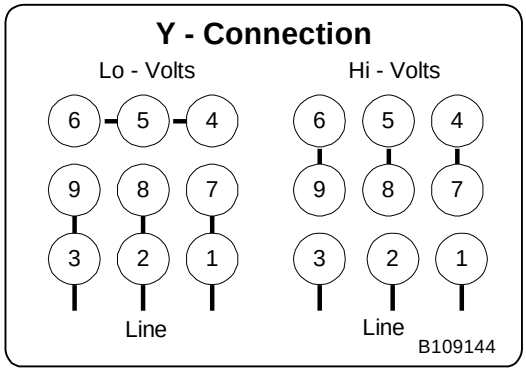
B109144

Motor Wiring Diagram

9 Lead, Dual Voltage (WYE Conn.)





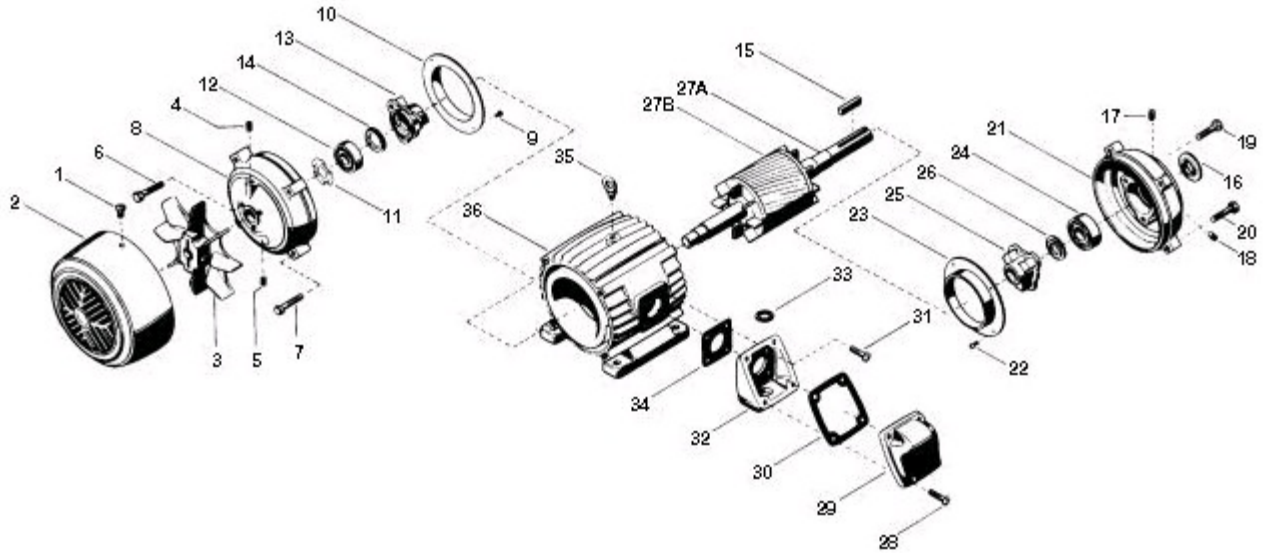
To reverse direction of rotation interchange connections L1 and L2.

Each lead may have one or more cables comprising that lead.
In such case each cable will be marked with the appropriate lead number.

Connection Plate: B109144
Connection Decal: 344136

RENEWAL PARTS

FRAMES 182 THRU 215 - TOTALLY ENCLOSED AND EXPLOSION PROOF MOTORS
TYPES: CE, CEF, CEF4, CT, CT2, CT4, CTC, CTE, CTE4, CTEF, CTF, CTF1, CTF4, CTFI, CTI, CTI4, CTN, CTNI, FCT, FCT4, FCTF, FCTN, FL, FLC, FLCA, FLCF, FLF, FN, FNC, FTC, FTCF, JAD, JDE, L, L1, L4, LC, LC4, LCA, LCAE, LCE, LCE4, LCEF, LCF, LCF1, LCFI, LCI, LE, LE1, LEF, LF, LF1, LF4, LFI, LFN, LI, LI4, LN, N, NC, NCE, NCEF, NCF, NI, T, TC, TC1, TC2, TC3, TC4, TCAE, TCE, TCE1, TCE2, TCE3, TCE4, TCEF, TCEFN, TCEN, TCEP, TCF, TCF1, TCF4, TCFI, TCFN, TCI, TCI3, TCN, TCNI, TF, TFN



ITEM NO.	QTY	NAME OF PART
1	4	Screw (Omit for Type TFN)
2	1	Fan Cover Guard (Omit for Type TFN)
3	1	Vent Fan (Omit for Type TFN)
4	1	Slotted Headless Pipe Plug
5	1	Slotted Headless Pipe Plug
6	3	Screw (Types L & LF only)
7	4	Screw
8	1	Bracket
9	4	Screw (Used only on Frame 184T)
10	1	Air Deflector (Used Only on Frame 184T)
11	1	Loading Spring (Types T, TF, TC, TCE, & TFN only)
12	1	Ball Bearing (Short End) (Refer to section 775)
13	1	Bearing Cap (Types L & LF only)
14	1	Slinger (Frames 213T & 215T, Types T, TF, TC, TCE, & TFN only)
15	1	Key
16	1	Water Deflector
17	1	Slotted Headless Pipe Plug
18	1	Slotted Headless Pipe Plug
19	3	Screw (Types L & LF only)
20	4	Screw
21	1	Bracket (Not used on Types TF, LF, & TFN)

ITEM NO.	QTY	NAME OF PART
22	4	Screw (Used only on frame 184T)
23	1	Air Deflector (Used only on frame 184T)
24	1	Ball Bearing (Refer to section 775)
25	1	Bearing Cap (Type L only)
26	1	Slinger
27	1	Rotor Assembly (Includes Items 27A & 27B)
27A	1	Motor Shaft
27B	1	Rotor Core
28	4	Screw
29	1	Outlet Box Cover
30	1	Gasket (Types T, TC, TCE, TF, & TFN only)
31	2	Screw
32	1	Outlet Box Base
33	1	Washer
34	1	Gasket (Types T, TC, TCE, TF, & TFN only)
35	1	Eyebolt
36	1	Wound Stator Assembly
37	1	Thermal Protectors (Used on Wheel Drive units only) (Not Illustrated)
38	2	Round Head Machine Screw (Thermal Protectors)
39	2	Hex Nut (Thermal Protectors)

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 18

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