

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 7/8/2011

P.O. NO.:

Order/Line NO.: 20352 MN

TO:

Model Number: CY41
Catalog Number: NA
TEFC, PRE, AC MTR
60 HZ, 230/460 V, MEX. MARKET
TCE, 5 HP, 4 P, 184T

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	5
Enclosure.	TE
Poles.	04
RPM (Full Load).	1755
Motor Frame Size	184T
Phase.	3
Frequency.	60
Voltage.	460-230
Motor Type Code.	TCE
Rotor Inertia (LB-FT ²)	.361 LB-FT ²
Qty. of Bearings PE (Shaft)	1
Qty. of Bearings SE (OPP)	1
Bearing Number PE (Shaft)	6206-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:
03-MAR-11

SUPERSEDES:
02-APR-09

HORIZONTAL MOTORS

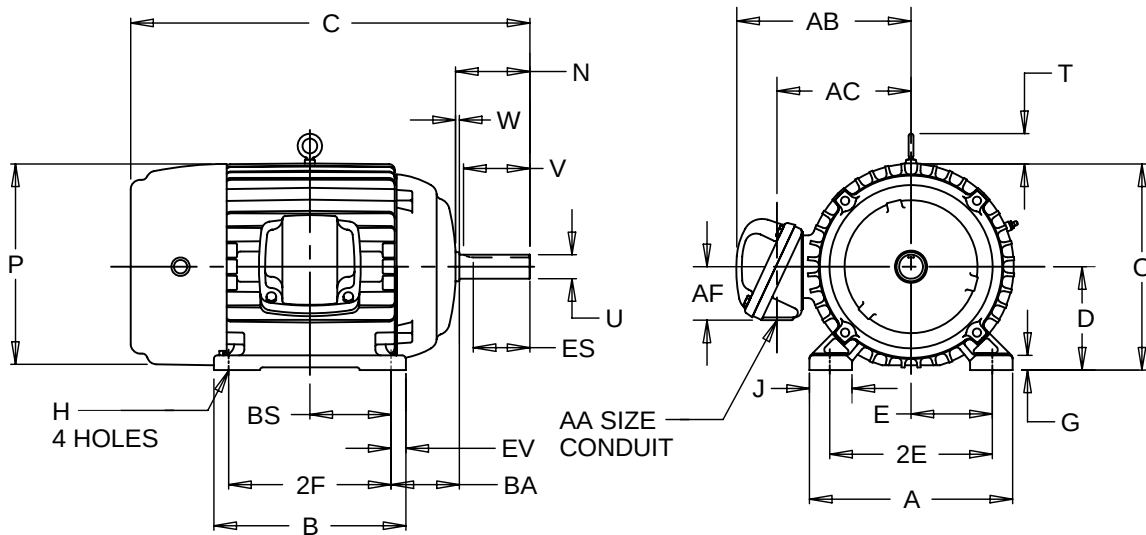
TEFC - CORRODUTY

FRAME: 182, 184T

BASIC TYPE: TC, CE

PRINT:
07-2807

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	8.88	6.75	16.13	4.50	3.75	7.50	.50	.41	1.50	2.91
MM	226	171	410	114	95	191	13	10	38	74

UNITS	O	P ²	T	U -.0005	V MIN	W	AA	AB	AC	AF	BA
IN	9.22	9.13	1.75	1.1250	2.50	.16	.75 NPT	8.06	5.75	2.13	2.75
MM	234	232	44	28.575	64	4		205	146	54	70

UNITS	BS	ES MIN	EV	SQ KEY
IN	2.75	1.78	.63	.250
MM	70	45	16	6.35

FRAME	UNITS	2F ±.03
182T	IN	4.50
	MM	114
184T	IN	5.50
	MM	140

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.

07-2807/A ECO 46385-00

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
R. KING
APPROVED BY
K. POTTER

IHP_DP_NMCA (MAR-2011) SOLIDEDGE

NAMEPLATE DATA

CATALOG NUMBER:				NAMEPLATE PART #:		431157-000	
MODEL	CY41	FR	184T	TYPE	TCE	ENCL	TE
SHAFT END BRG		6206-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	5	RPM	1755	HP		RPM	
VOLTS	460	230		VOLTS			
FL AMPS	6.3	12.5		FL AMPS			
SF AMPS	7.1	14.2		SF AMPS			
SF	1.15	DESIGN	B	CODE	J		
NEMA NOM EFFICIENCY	89.5	NOM PF	83.6	KiloWatt	3.730		
GUARANTEED EFFICIENCY	87.5	MAX KVAR	1.8	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	4	
VECTOR MAX RPM		
Radians / Seconds	1	
FL SLIP		
MAGNETIZING AMPS	2.7	
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=158803	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.	90.7	Inrush Limit	
Motor Weight	110	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
CY41	NA	3	TCE	184T

ORDER NO.	20352	LINE NO.	
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MPI:		125423	125424
HP:		5	5
POLES:		4	4
VOLTS:		460	230
HZ:		60	60
SERVICE FACTOR:		1.15	1.15
EFFICIENCY (%):			
	S.F.	88.7	88.7
	FULL	89.5	89.5
	3/4	90.7	90.7
	1/2	90.2	90.2
	1/4	85.7	85.7
POWER FACTOR (%):			
	S.F.	85.4	85.4
	FULL	83.6	83.6
	3/4	78.7	78.7
	1/2	68.5	68.5
	1/4	46.1	46.1
	NO LOAD	6.2	6.2
	LOCKED ROTOR	53.3	53.3
AMPS:			
	S.F.	7.1	14.2
	FULL	6.3	12.5
	3/4	4.9	9.8
	1/2	3.8	7.6
	1/4	3	5.9
	NO LOAD	2.7	5.3
	LOCKED ROTOR	46	92
NEMACODE LETTER		J	J
NEMADESIGN LETTER		B	B
FULL LOAD RPM		1755	1755
NEMANOMINAL EFFICIENCY (%)		89.5	89.5
GUARANTEED EFFICIENCY (%)		87.5	87.5
MAX KVAR		1.8	1.8
AMBIENT (°C)		40	40
ALTITUDE (FASL)		3300	3300
SAFE STALL TIME-HOT (SEC)		11	11
SOUND PRESSURE (DBA @ 1M)		56	56
TORQUES:			
	BREAKDOWN{% F.L.}	341	341
	LOCKED ROTOR{% F.L.}	231	231
	FULL LOAD{LB-FT}	15	15

The Above Data Is Typical. Sinewave Power Unless Noted Otherwise

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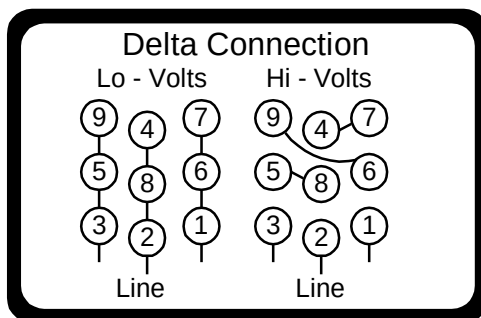
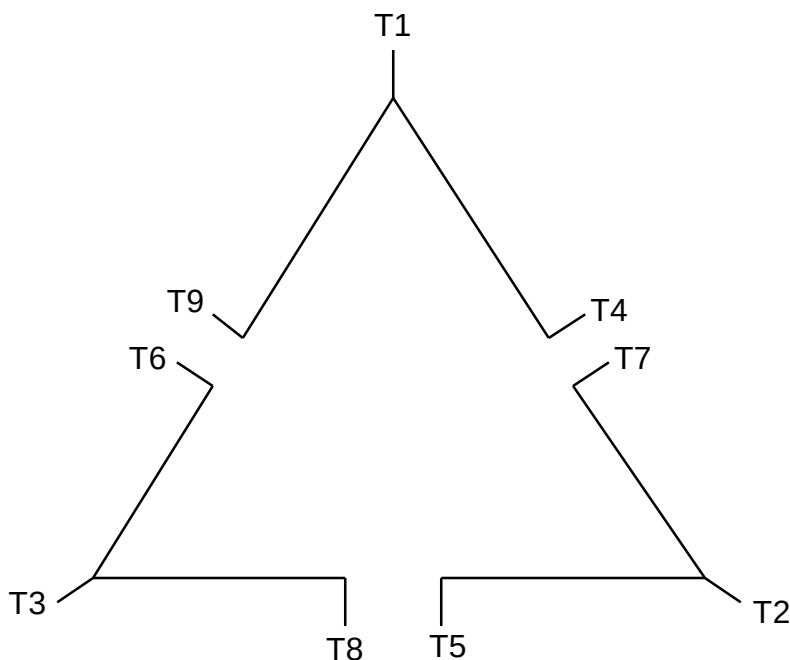


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A109145

Motor Wiring Diagram
9 Lead, Dual Voltage (DELTA Conn.)



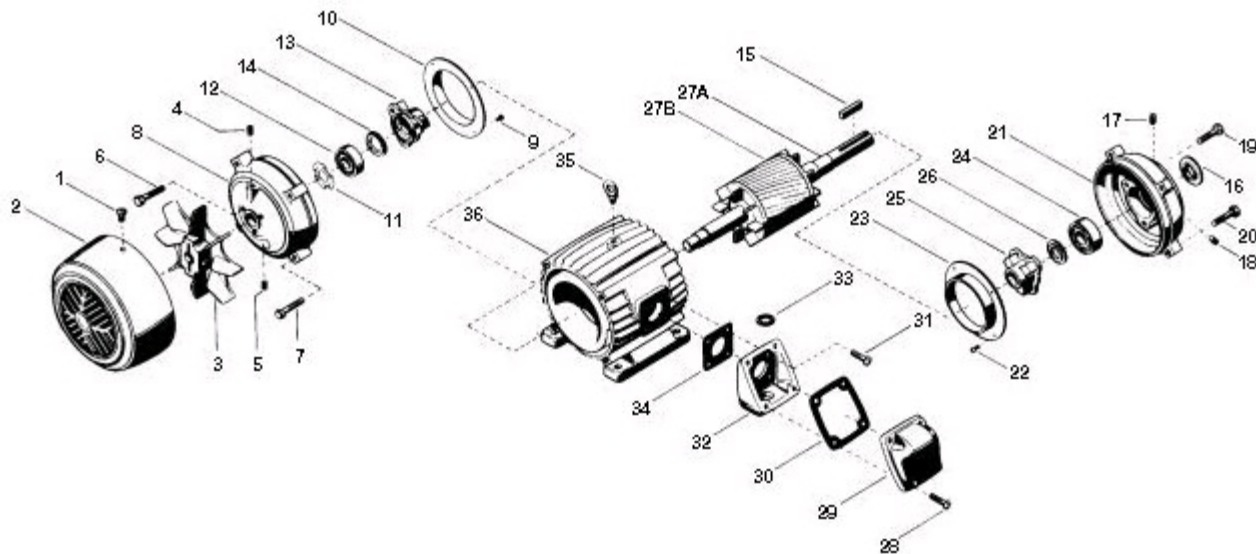
To reverse direction of rotation interchange connections L1 and L2.

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

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, L4, 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