NIDEC MOTOR CORPORATION
8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136

DATE: 11/27/2015

P.O. NO.: FJ02
Order/Line NO.: 23760 MN 100

TO:

Model Number: FJ02
Catalog Number:
Horiz. XP Premium Eff. Config.
CONF,MOTOR,HORIZ XP 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 ..............  00002.00 ~ KW: 1.492
Enclosure ...............  TEFC
Poles ...................  06 ~ RPM: 1200
Frame Size ..............  184~T
Phase/Frequency/Voltage..  3~060~230/460 ~ 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 ....
Hazardous Location Info:
Division 1 ~ Class I ~ Group D
Class II N/A ~ Group N/A ~ T2B Temp Code
"AK" Dimension (Inches).. NA
Temperature Rise (Sine Wave): "B" Rise @ 1.0 SF (Resist)
Starting Method .........  Direct-On-Line Start
Duty Cycle ..............  Continuous Duty
Efficiency Value ........  88.5 % ~ Typical
Load Inertia (lb-ft2): NEMA ~ NEMA Inertia: 30.00 ~ 1.00
Number Of Starts Per Hour: NEMA
Motor Type Code .........  LCE
Rotor Inertia (LB-FT²)        .348 LB-FT²
Qty. of Bearings PE (Shaft)   1
Qty. of Bearings SE (OPP)     1
Bearing Number PE (Shaft)     6206-J/C3
Bearing Number SE (OPP)       6205-J/C3
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Accessories:
Corro-Duty
.
Standard Leadtime: 7-8 WEEKS
Est. Weight (lbs ea): 110 ~ F.O.B.: Monterrey, Mexico

USE THE DATA PROVIDED BELOW TO SELECT THE APPROPRIATE DIMENSION PRINT

Horsepower	2
Pole(s)	06
Voltage(s)	460-230
Frame Size	184T
Shaft U Diameter	1.125
Outlet Box AF	2.25
Outlet Box AA	0.75

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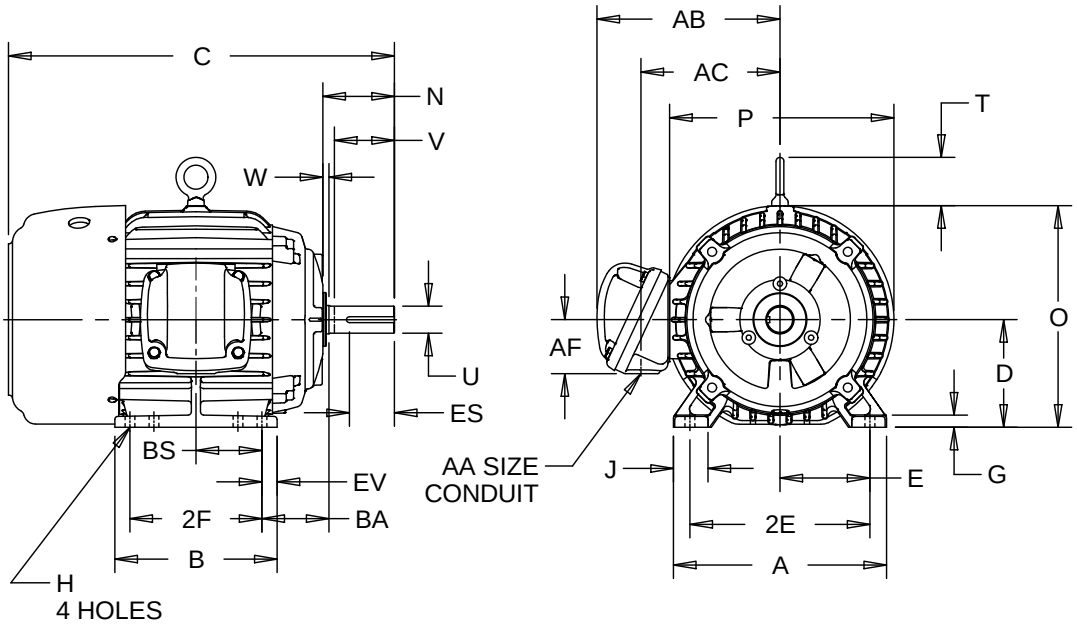
EFFECTIVE: 29-JAN-15	DIMENSION PRINT CORRODUTY FRAME: 182, 184T BASIC TYPE: LC, NC	PRINT: 07-2804
SUPERSEDES: 14-MAR-11		SHEET: 1 OF 1



ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS

	UNITS	A	B	C	D -.06	E	2E ±.03	G	H +.05	J	N	O	P [2]	T
	IN	8.88	6.75	16.09	4.50	3.75	7.50	.50	.41	1.56	2.94	9.25	9.34	2.03
	MM	226	171	409	114	95	191	13	10	40	75	235	237	52

	UNITS	U -.0005	V MIN	W	AA	AB	AC	AF	BA	BS	ES MIN	EV	SQ KEY
	IN	1.1250	2.50	.19	3/4 NPT	7.59	5.78	2.25	2.75	2.75	1.78	.63	.250
	MM	28.575	64	5		193	176	57	70	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.

07-2804/B

Nidec Motor Corporation
St. Louis, Missouri

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ISSUED BY	R. KING
APPROVED BY	J. O'BRIEN

IHP_DP_NMCA (MAR-2011) SOLIDEDGE

NAMEPLATE DATA

CATALOG NUMBER:				NAMEPLATE PART #:	2022000-002		
MODEL	FJ02	FR	184T	TYPE	LCE	ENCL	TEFC
SHAFT END BRG	6206-J/C3 - QTY 1			OPP END BRG	6205-J/C3 - QTY 1		
PH	3	MAX AMB	40 C	ID#			
INSUL CLASS	F	Asm. Pos.	F1	DUTY	CONT		

HP	2		RPM	1170		HP		RPM	
VOLTS	460	230				VOLTS			
FL AMPS	2.9	5.8				FL AMPS			
SF AMPS	3.2	6.5				SF AMPS			
SF	1.15	DESIGN	B	CODE	J	SF		DESIGN	CODE
NEMA NOM EFFICIENCY	88.5	NOM PF	73.5	KiloWatt	1.5	NEMA NOM EFFICIENCY		NOM PF	
GUARANTEED EFFICIENCY	86.5	MAX KVAR	1.1	HZ	60	GUARANTEED EFFICIENCY		MAX KVAR	HZ

HAZARDOUS LOCATION 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	6	MAGNETIZING AMPS	1.6
VECTOR MAX RPM		Encoder PPR	
Radians / Seconds		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.	88.8	Inrush Limit	
Motor Weight (LBS)	49.94 KG	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
FJ02	NA	3	LCE	184T

ORDER NO.	23760	LINE NO.	

MPI:	129852	129853
HP:	2	2
POLES:	6	6
VOLTS:	460	230
HZ:	60	60
SERVICE FACTOR:	1.15	1.15
EFFICIENCY (%):		
S.F.	87.9	87.9
FULL	88.5	88.5
3/4	88.8	88.8
1/2	87.4	87.4
1/4	80.7	80.7
POWER FACTOR (%):		
S.F.	75.8	75.8
FULL	73.5	73.5
3/4	66.7	66.7
1/2	54.6	54.6
1/4	34.4	34.4
NO LOAD	6.1	6.1
LOCKED ROTOR	47.1	47.1
AMPS:		
S.F.	3.2	6.5
FULL	2.9	5.8
3/4	2.4	4.7
1/2	2	3.9
1/4	1.7	3.4
NO LOAD	1.6	3.3
LOCKED ROTOR	18.2	36.8
NEMA CODE LETTER	J	J
NEMA DESIGN LETTER	B	B
FULL LOAD RPM	1170	1170
NEMA NOMINAL EFFICIENCY (%)	88.5	88.5
GUARANTEED EFFICIENCY (%)	86.5	86.5
MAX KVAR	1.1	1.1
AMBIENT (°C)	40	40
ALTITUDE (FASL)	3300	3300
SAFE STALL TIME-HOT (SEC)	30	30
SOUND PRESSURE (DBA @ 1M)	58	58
TORQUES:		
BREAKDOWN{% F.L.}	314	314
LOCKED ROTOR{% F.L.}	198	198
FULL LOAD{LB-FT}	9	9

NEMA Nominal and Guaranteed Efficiencies are up to 3,300 feet above sea level and 25 ° C ambient

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

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ST. LOUIS, MO

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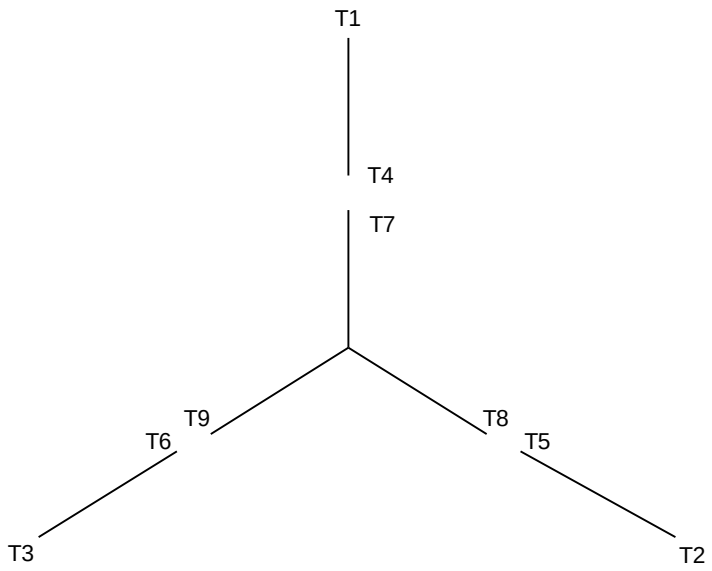
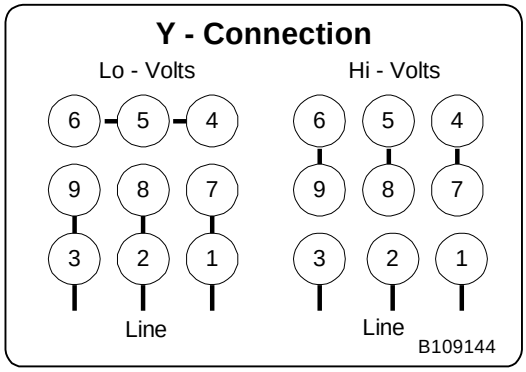
B109144

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