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

DATE: 12/15/2015

P.O. NO.: FF72
Order/Line NO.: 23478 MN 100

TO:

Model Number: FF72
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:

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Horsepower ..............  00010.00 ~ KW: 7.46
Enclosure ...............  TEFC
Poles ...................  06 ~ RPM: 1200
Frame Size ..............  256~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 ........  91.0 % ~ Typical
Load Inertia (lb-ft2): NEMA ~ NEMA Inertia: 137.00 ~ 1.00
Number Of Starts Per Hour: NEMA
Motor Type Code .........  LCE
Rotor Inertia (LB-FT²)        3.49 LB-FT²
Qty. of Bearings PE (Shaft)   1
Qty. of Bearings SE (OPP)     1
Bearing Number PE (Shaft)     6309-J/C3
Bearing Number SE (OPP)       6207-J/C3
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Accessories:
Corro-Duty
.
Standard Leadtime: 7-8 WEEKS
Est. Weight (lbs ea): 375 ~ F.O.B.: Monterrey, Mexico

USE THE DATA PROVIDED BELOW TO SELECT THE APPROPRIATE DIMENSION PRINT

Horsepower	10
Pole(s)	06
Voltage(s)	460-230
Frame Size	256T
Shaft U Diameter	1.625
Outlet Box AF	3.13
Outlet Box AA	1.50

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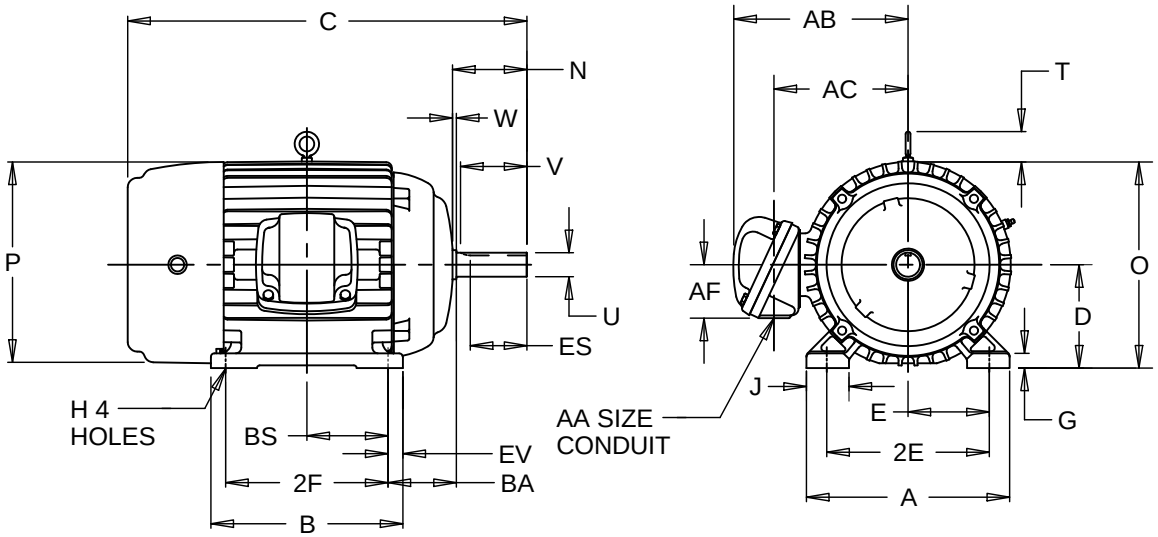
EFFECTIVE: 08-APR-11	HORIZONTAL MOTORS	PRINT: 07-2835
SUPERSEDES: 22-MAY-09	FRAME: 254, 256T BASIC TYPE: LC,NC	SHEET: 1 OF 1



ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS

	UNITS	A	B	C	D -.06	E	2E ±.03	G	H +.05	J	N
	IN	12.13	12.00	25.00	6.25	5.00	10.00	.88	.53	2.25	4.38
	MM	308	305	635	159	127	254	22	14	57	111

	UNITS	O	P [2]	T	U -.001	V MIN	W	AA	AB	AC	AF	BA
	IN	12.91	13.31	2.03	1.625	3.75	.38	1.50 NPT	11.07	8.22	3.13	4.25
	MM	328	338	52	41.28	95	10		281	209	79	108

	UNITS	BS	ES MIN	EV	SQ KEY
	IN	5.00	2.91	1.00	.375
	MM	127	74	25	10

	FRAME	UNITS	2F ±.03
	254T	IN	8.25
		MM	210
	256T	IN	10.00
		MM	254

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	L. CUESTA
APPROVED BY	E. LIZANA

IHP_DP_NMCA (MAR-2011) SOLIDEDGE

NAMEPLATE DATA

CATALOG NUMBER:				NAMEPLATE PART #:	2022000-002		
MODEL	FF72	FR	256T	TYPE	LCE	ENCL	TEFC
SHAFT END BRG	6309-J/C3 - QTY 1			OPP END BRG	6207-J/C3 - QTY 1		
PH	3	MAX AMB	40 C	ID#			
INSUL CLASS	F	Asm. Pos.	F1	DUTY	CONT		

HP	10		RPM	1180		HP		RPM	
VOLTS	460	230				VOLTS			
FL AMPS	12.4	24.8				FL AMPS			
SF AMPS	14.1	28.1				SF AMPS			
SF	1.15	DESIGN	B	CODE	G	SF		DESIGN	CODE
NEMA NOM EFFICIENCY	91.0	NOM PF	83.1	KiloWatt	7.5	NEMA NOM EFFICIENCY		NOM PF	
GUARANTEED EFFICIENCY	89.5	MAX KVAR	3.3	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	4.9
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.	92.1	Inrush Limit	
Motor Weight (LBS)	170.25 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
FF72	NA	3	LCE	256T

ORDER NO.	23478	LINE NO.	

MPI:	120218	120219
HP:	10	10
POLES:	6	6
VOLTS:	460	230
HZ:	60	60
SERVICE FACTOR:	1.15	1.15
EFFICIENCY (%):		
S.F.	90.6	90.6
FULL	91	91
3/4	92.1	92.1
1/2	91.7	91.7
1/4	87.6	87.6
POWER FACTOR (%):		
S.F.	84.4	84.4
FULL	83.1	83.1
3/4	78.9	78.9
1/2	69.7	69.7
1/4	47.9	47.9
NO LOAD	5.5	5.5
LOCKED ROTOR	45.7	45.7
AMPS:		
S.F.	14.1	28.1
FULL	12.4	24.8
3/4	9.7	19.3
1/2	7.3	14.6
1/4	5.6	11.2
NO LOAD	4.9	9.8
LOCKED ROTOR	79.3	158.6
NEMA CODE LETTER	G	G
NEMA DESIGN LETTER	B	B
FULL LOAD RPM	1180	1180
NEMA NOMINAL / EFFICIENCY (%)	91	91
GUARANTEED EFFICIENCY (%)	89.5	89.5
MAX KVAR	3.3	3.3
AMBIENT (°C)	40	40
ALTITUDE (FASL)	3300	3300
SAFE STALL TIME-HOT (SEC)	29	29
SOUND PRESSURE (DBA @ 1M)	68	68
TORQUES:		
BREAKDOWN{% F.L.}	285	285
LOCKED ROTOR{% F.L.}	207	207
FULL LOAD{LB-FT}	44.5	44.5

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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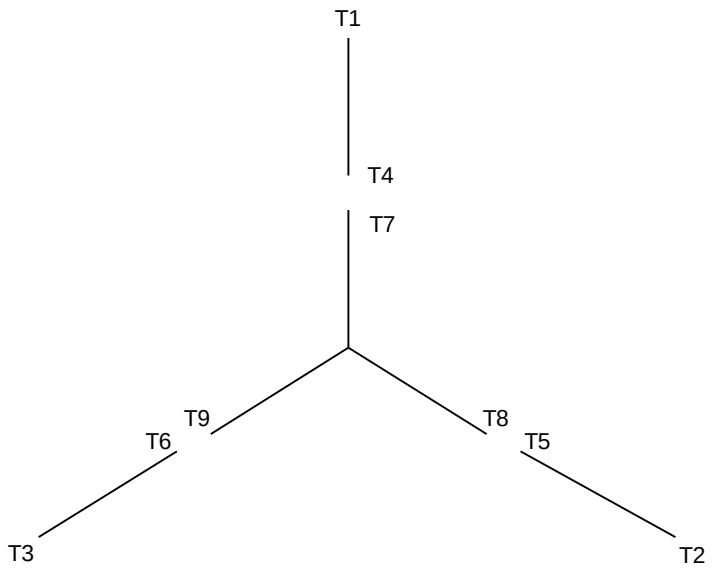
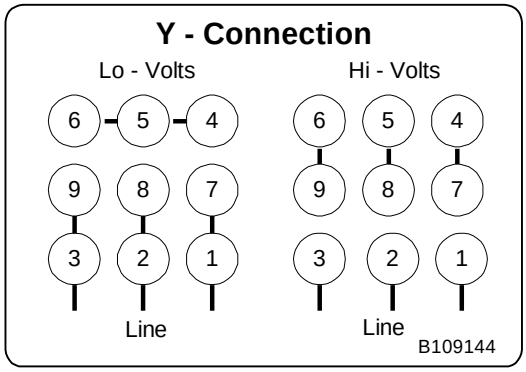
B109144

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