

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 6/11/2014

P.O. NO.:

DT07

Order/Line NO.:

22148 MN 100

TO:

Model Number: DT07

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 00040.00 ~ KW: 29.84
Enclosure TEFC
Poles 02 ~ RPM: 3600
Frame Size 324~TS
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)
Starting Method Direct-On-Line Start
Duty Cycle Continuous Duty
Efficiency Value 92.4 % ~ Typical
Load Inertia (lb-ft²): NEMA ~ NEMA Inertia: 40.00 ~ 1.00
Number Of Starts Per Hour: NEMA
Motor Type Code TCE
Rotor Inertia (LB-FT²) 3.65 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

Ground Lug In Conduit Box

Special Balance

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Standard Leadtime: 7-8 WEEKS

Est. Weight (lbs ea): 600 ~ F.O.B.: Monterrey, Mexico

USE THE DATA PROVIDED BELOW TO SELECT THE APPROPRIATE DIMENSION PRINT

Horsepower	40
Pole(s)	02
Voltage(s)	460
Frame Size	324TS
Shaft U Diameter	1.875
Outlet Box AF	3.81
Outlet Box AA	2.00

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EFFECTIVE:
3-MAR-11

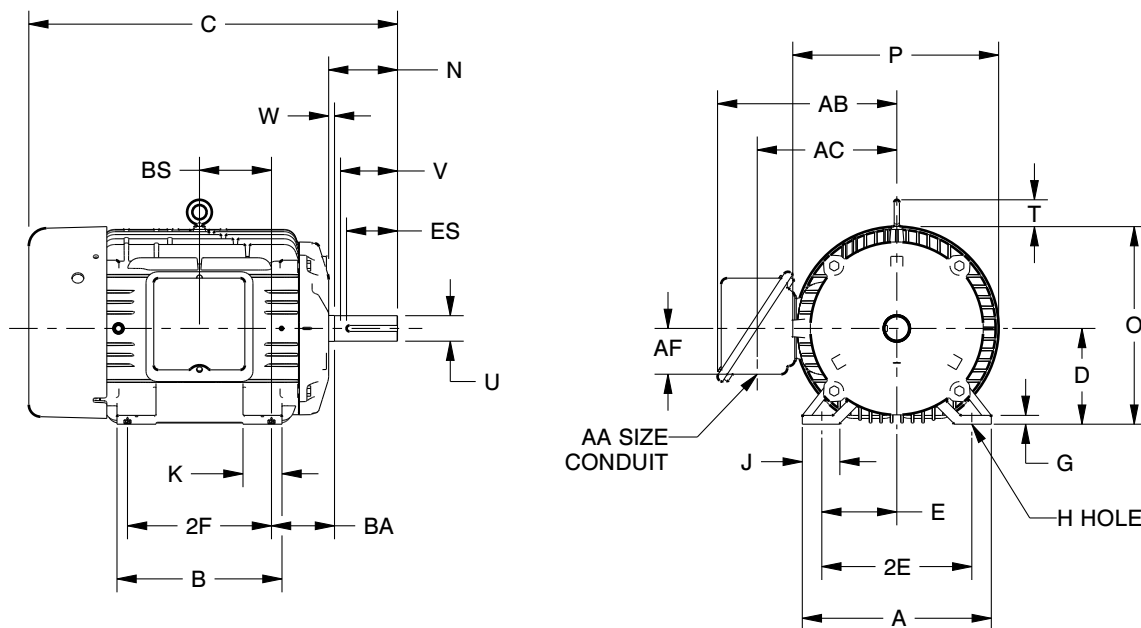
HORIZONTAL MOTORS

PRINT:
07-2059

SUPERSEDES:
23-MAR-99

FRAME: 320TS
BASIC TYPE: TCE, TC, FTC, CE

SHEET:
1 OF 1



UNITS	A	B	C	D	E	2E	G	H
IN	15.75	13.75	29.25	8.00	6.25	12.50	0.75	0.66
MM	400	349	743	203	159	318	19	17

UNITS	J	K	N	N-W	O	P ²	SQ. KEY	T
IN	3.19	3.25	4.25	3.75	16.50	17.19	0.500	2.25
MM	81	83	108	95	419	437	12.70	57

UNITS	U	V	W	AA	AB	AC	AF	BA
IN	1.875	3.50	0.50	2 NPT	15.00	11.69	3.81	5.25
MM	47.63	89	13		381	297	97	133

UNITS	BS	ES						
IN	6.00	2.03						
MM	152	52						

UNITS	FRAME	2F
IN	324TS	10.50
MM		267
IN	326TS	12.00
MM		305

1: ALL ROUGH CASTING DIMENSIONS MAY VARY .25"
DUE TO CASTING 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.

07-2059/A

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
P. INGALE
APPROVED BY
L. MORALES

IHP_DP_NMCA (MAR-2011) PROENGINEER

NAMEPLATE DATA

CATALOG NUMBER:				NAMEPLATE PART #:		2022000-001	
MODEL	DT07	FR	324TS	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	40	RPM	3560	HP		RPM	
VOLTS	460			VOLTS			
FL AMPS	45.0			FL AMPS			
SF AMPS	52.0			SF AMPS			
SF	1.15	DESIGN	B	CODE	G		
NEMA NOM EFFICIENCY	93.0	NOM PF	89.5	KiloWatt	29.840		
GUARANTEED EFFICIENCY	91.7	MAX KVAR	6	HZ	60		
HAZARDOUS LOCATION DATA (IF APPLICABLE):							
DIVISION				CLASS I			
TEMP CODE				CLASS II			
VFD DATA (IF APPLICABLE):							
VOLTS				TORQUE 2			
AMPS				VFD LOAD TYPE 2			
TORQUE 1				VFD HERTZ RANGE 2			
VFD LOAD TYPE 1				VFD SPEED RANGE 2			
VFD HERTZ RANGE 1							
VFD SPEED RANGE 1							
SERVICE FACTOR				FL SLIP			
NO. POLES		2		MAGNETIZING AMPS		8.9	
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=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.	93.2	Inrush Limit	
Motor Weight (LBS)	600	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	

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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
DT07	NA	3	TCE	324TS

ORDER NO.	22148	LINE NO.	
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MPI:		149906
HP:		40
POLES:		2
VOLTS:		460
HZ:		60
SERVICE FACTOR:		1.15
EFFICIENCY (%):		
	S.F.	92.7
	FULL	93
	3/4	93.2
	1/2	92.1
	1/4	87.2
POWER FACTOR (%):		
	S.F.	88.9
	FULL	89.5
	3/4	89.4
	1/2	86.6
	1/4	74.4
	NO LOAD	13.8
	LOCKED ROTOR	31.3
AMPS:		
	S.F.	52
	FULL	45
	3/4	34
	1/2	23.5
	1/4	14.4
	NO LOAD	8.9
	LOCKED ROTOR	285
NEMA CODE LETTER		G
NEMA DESIGN LETTER		B
FULL LOAD RPM		3560
NEMA NOMINAL EFFICIENCY (%)		93
GUARANTEED EFFICIENCY (%)		91.7
MAX KVAR		6
AMBIENT (°C)		40
ALTITUDE (FASL)		3300
SAFE STALL TIME-HOT (SEC)		16
SOUND PRESSURE (DBA @ 1M)		72
TORQUES:		
	BREAKDOWN{% F.L.}	276
	LOCKED ROTOR{% F.L.}	175
	FULL LOAD{LB-FT}	59

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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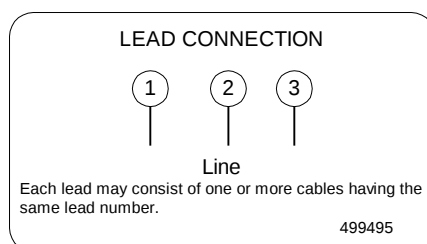
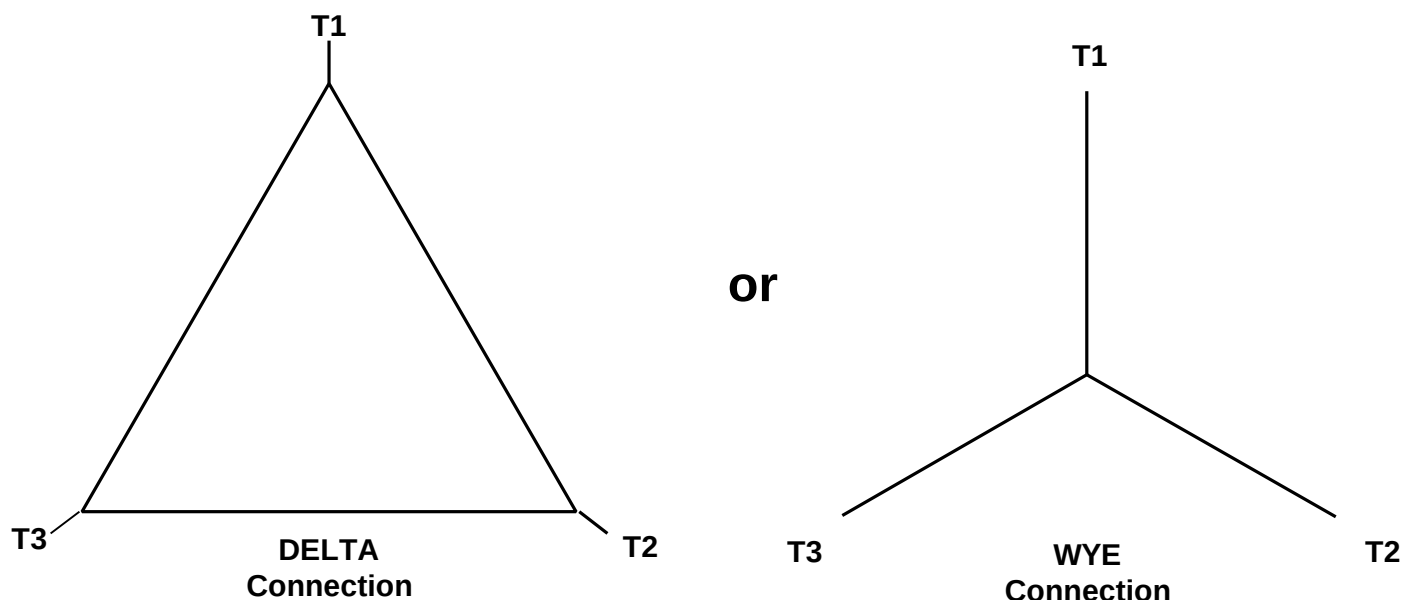


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499495

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.