

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 12/18/2012

P.O. NO.: DU07
Order/Line NO.: 22287 MN 100

TO:

Model Number: DU07
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 00015.00 ~ KW: 11.19
Enclosure TEFC
Poles 06 ~ RPM: 1200
Frame Size 284~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
"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 91.7 % ~ Typical
Load Inertia (lb-ft²): NEMA ~ NEMA Inertia: 200.00 ~ 1.00
Number Of Starts Per Hour: NEMA
Motor Type Code TCE
Rotor Inertia (LB-FT²) 5.53 LB-FT²
Qty. of Bearings PE (Shaft) 1
Qty. of Bearings SE (OPP) 1
Bearing Number PE (Shaft) 6310-J/C3
Bearing Number SE (OPP) 6310-J/C3

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22287 MN 100

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Accessories:

Corro-Duty

Ground Lug In Conduit Box

Special Balance

.

Product Family

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use NA

Reserved for future use NA

Standard Leadtime: 8-9 WEEKS

Est. Weight (lbs ea): 380 ~ F.O.B.: Monterrey, Mexico

USE THE DATA PROVIDED BELOW TO SELECT THE APPROPRIATE DIMENSION PRINT

Horsepower	15
Pole(s)	06
Voltage(s)	460-230
Frame Size	284T
Shaft U Diameter	1.875
Outlet Box AF	2.63
Outlet Box AA	1.50

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EFFECTIVE:
05-APR-11

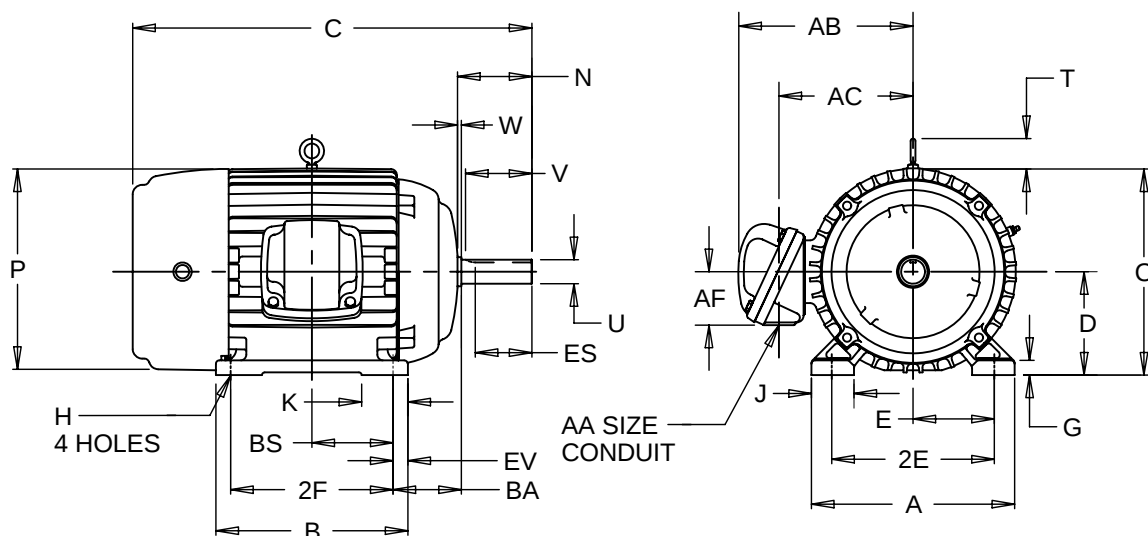
HORIZONTAL MOTORS

PRINT:
07-2775

SUPERSEDES:
17-FEB-09

FRAME: 284, 286 T, TS
BASIC TYPE: TC

SHEET:
1 OF 1



ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS

UNITS	A	B	D -.06	E	2E ±.03	G	H +.05	J	O
IN	13.75	13.00	7.00	5.50	11.00	1.00	.53	2.88	14.16
MM	349	330	178	140	279	25	14	73	360

UNITS	P ²	T	AA	AB	AC	AF	BA	BS	EV	W
IN	14.31	2.03	1.50 NPT	11.63	9.19	2.63	4.75	5.50	1.00	.38
MM	364	52		295	233	67	121	140	25	10

FRAME	UNITS	C	N	U -.001	V MIN	ES MIN	SQ KEY
284, 286T	IN	27.38	5.00	1.875	4.38	3.28	.500
	MM	695	127	47.63	111	83	12.70
284, 286TS	IN	26.00	3.63	1.625	3.00	1.91	.375
	MM	660	92	41.28	76	48	9.53

FRAME	UNITS	2F ±.03
284T, TS	IN	9.50
	MM	241
286T, TS	IN	11.00
	MM	279

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.

07-2775/A ECO 46369-00

Nidec Motor Corporation
St. Louis, Missouri

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ISSUED BY
L. CUESTA
APPROVED BY
J. RANGEL

IHP_DP_NMCA (MAR-2011) SOLIDEDGE

NAMEPLATE DATA

CATALOG NUMBER:				NAMEPLATE PART #:		431157-000	
MODEL	DU07	FR	284T	TYPE	TCE	ENCL	TE
SHAFT END BRG		6310-J/C3 - QTY 1		OPP END BRG		6310-J/C3 - QTY 1	
PH	3	MAX AMB	40 C	ID#			
INSUL CLASS	F	Asm. Pos.	F1	DUTY	CONT		
HP	15	RPM	1180	HP		RPM	
VOLTS	460	230		VOLTS			
FL AMPS	18.4	37.0		FL AMPS			
SF AMPS	21.1	42.0		SF AMPS			
SF	1.15	DESIGN	B	CODE	G		
NEMA NOM EFFICIENCY	91.7	NOM PF	83.2	KiloWatt	11.190		
GUARANTEED EFFICIENCY	90.2	MAX KVAR	4.5	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	6	
VECTOR MAX RPM		
Radians / Seconds	1	
FL SLIP		
MAGNETIZING AMPS	6.6	
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.	92.7	Inrush Limit	
Motor Weight (LBS)	380	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
DU07	NA	3	TCE	284T

ORDER NO.	22287	LINE NO.	
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MPI:	139193	139194
HP:	15	15
POLES:	6	6
VOLTS:	460	230
HZ:	60	60
SERVICE FACTOR:	1.15	1.15
EFFICIENCY (%):		
S.F.	90.9	90.9
FULL	91.7	91.7
3/4	92.7	92.7
1/2	92.5	92.5
1/4	89.1	89.1
POWER FACTOR (%):		
S.F.	84	84
FULL	83.2	83.2
3/4	79.8	79.8
1/2	71.6	71.6
1/4	50.7	50.7
NO LOAD	5.1	5.1
LOCKED ROTOR	40.1	40.1
AMPS:		
S.F.	21.1	42
FULL	18.4	37
3/4	14.2	28.5
1/2	10.6	21.2
1/4	7.8	15.6
NO LOAD	6.6	13.2
LOCKED ROTOR	109.2	218.4
NEMA CODE LETTER	G	G
NEMA DESIGN LETTER	B	B
FULL LOAD RPM	1180	1180
NEMA NOMINAL EFFICIENCY (%)	91.7	91.7
GUARANTEED EFFICIENCY (%)	90.2	90.2
MAX KVAR	4.5	4.5
AMBIENT (°C)	40	40
ALTITUDE (FASL)	3300	3300
SAFE STALL TIME-HOT (SEC)	30	30
SOUND PRESSURE (DBA @ 1M)	56	56
TORQUES:		
BREAKDOWN{% F.L.}	252	252
LOCKED ROTOR{% F.L.}	188	188
FULL LOAD{LB-FT}	66.8	66.8

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

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ST. LOUIS, MO

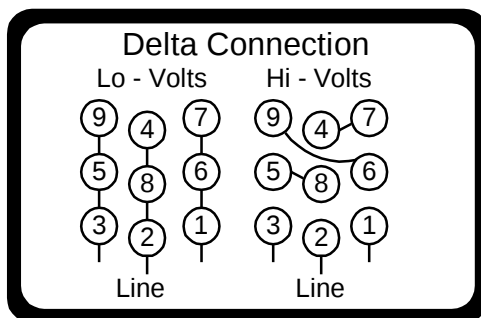
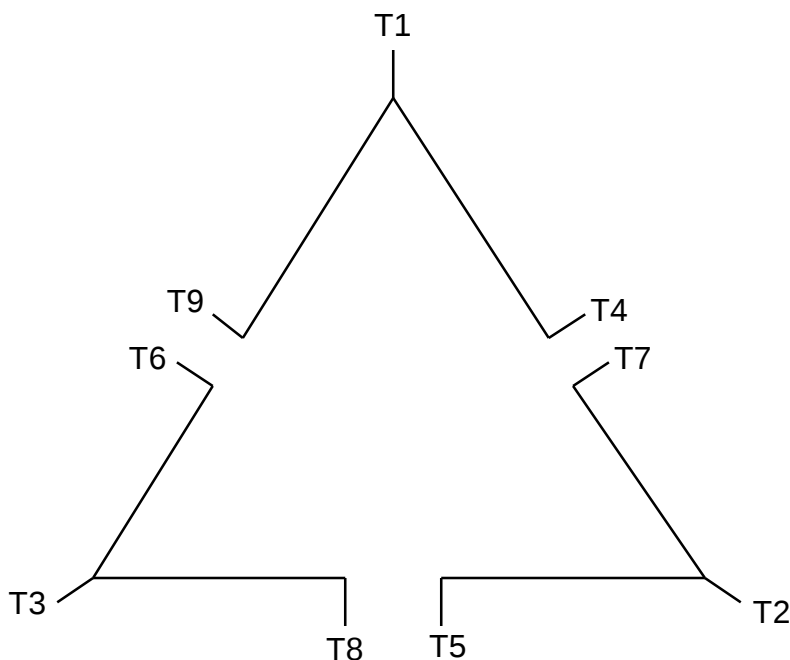


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A109145

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.