

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 7/18/2012

P.O. NO.:

Order/Line NO.: 20391 MN

TO:

Model Number: CY73

Catalog Number:

TEFC, PRE, AC MTR

60 HZ, 460 V, MEX. MARKET

TCE, 100 HP, 2 P, 405TS

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	100
Enclosure.	TE
Poles.	02
RPM (Full Load).	3560
Motor Frame Size	405TS
Phase.	3
Frequency.	60
Voltage.	460
Motor Type Code.	TCE
Rotor Inertia (LB-FT ²)	9.91 LB-FT ²
Qty. of Bearings PE (Shaft)	1
Qty. of Bearings SE (OPP)	1
Bearing Number PE (Shaft)	6316-J/C3
Bearing Number SE (OPP)	6316-J/C3

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EFFECTIVE:
14-JUN-11

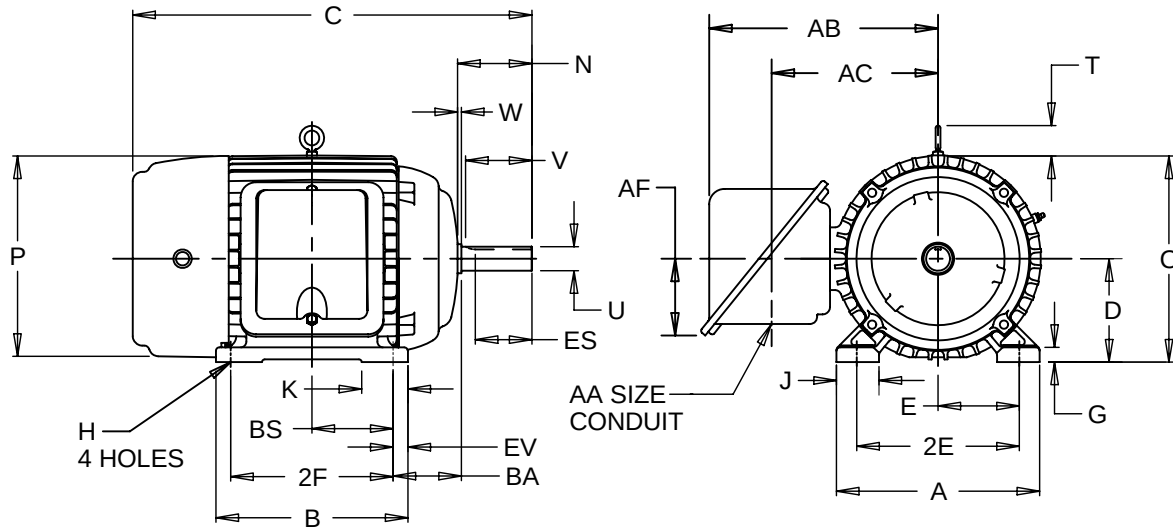
SUPERSEDES:
25-FEB-10

HORIZONTAL MOTORS

TEFC - CORRODUTY
FRAME: 400TS
BASIC TYPE: TC

PRINT:
07-2947

SHEET:
1 OF 1



ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS

UNITS	A	B	C	D -.06	E	2E ±.03	G	H +.05	J	K	N
IN	19.75	16.75	35.00	10.00	8.00	16.00	1.38	.81	3.75	5.00	4.38
MM	502	425	889	254	203	406	35	21	95	127	111

UNITS	O	P ²	T	U -.001	V MIN	W	AA	AB	AC	AF	BA
IN	20.44	20.88	2.94	2.125	4.00	.13	3 NPT	18.69	14.13	4.88	6.63
MM	519	530	75	53.98	102	3		475	359	124	168

UNITS	BS	ES MIN	EV	SQ KEY
IN	6.88	2.78	1.50	.500
MM	175	71	38	12.70

FRAME	UNITS	2F ±.03
404TS	IN	12.25
	MM	311
405TS	IN	13.75
	MM	349

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.

07-2947/-

Nidec Motor Corporation
St. Louis, Missouri

INFORMATION DISCLOSED ON THIS DOCUMENT
IS CONSIDERED PROPRIETARY AND SHALL NOT BE
REPRODUCED OR DISCLOSED WITHOUT WRITTEN
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	CY73	FR	405TS	TYPE	TCE	ENCL	TE
SHAFT END BRG		6316-J/C3 - QTY 1		OPP END BRG		6316-J/C3 - QTY 1	
PH	3	MAX AMB	40 C	ID#			
INSUL CLASS	F	Asm. Pos	F1	DUTY	CONT		
HP	100	RPM	3560	HP		RPM	
VOLTS	460			VOLTS			
FL AMPS	112.0			FL AMPS			
SF AMPS	129.0			SF AMPS			
SF	1.15	DESIGN	B	CODE	F		
NEMA NOM EFFICIENCY	94.5	NOM PF	88.7	KiloWatt	74.600		
GUARANTEED EFFICIENCY	93.6	MAX KVAR	18.7	HZ	60		
UL 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		27.6	
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.	94.7	Inrush Limit	
Motor Weight (LBS)	1300	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
CY73	NA	3	TCE	405TS

ORDER NO.	20391	LINE NO.	
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MPI:		118856
HP:		100
POLES:		2
VOLTS:		460
HZ:		60
SERVICE FACTOR:		1.15
EFFICIENCY (%):		
	S.F.	94.1
	FULL	94.5
	3/4	94.7
	1/2	94.1
	1/4	90.7
POWER FACTOR (%):		
	S.F.	88.6
	FULL	88.7
	3/4	87.5
	1/2	82.8
	1/4	66.6
	NO LOAD	7.8
	LOCKED ROTOR	23.4
AMPS:		
	S.F.	129
	FULL	112
	3/4	85
	1/2	60
	1/4	39
	NO LOAD	27.6
	LOCKED ROTOR	682
NEMA CODE LETTER		F
NEMA DESIGN LETTER		B
FULL LOAD RPM		3560
NEMA NOMINAL EFFICIENCY (%)		94.5
GUARANTEED EFFICIENCY (%)		93.6
MAX KVAR		18.7
AMBIENT (°C)		40
ALTITUDE (FASL)		3300
SAFE STALL TIME-HOT (SEC)		16
SOUND PRESSURE (DBA @ 1M)		84
TORQUES:		
	BREAKDOWN{% F.L.}	256
	LOCKED ROTOR{% F.L.}	123
	FULL LOAD{LB-FT}	147.4

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

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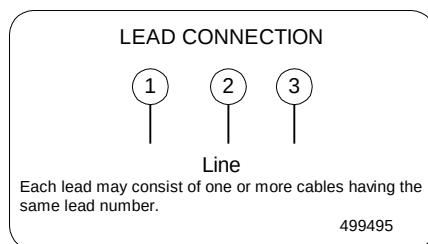
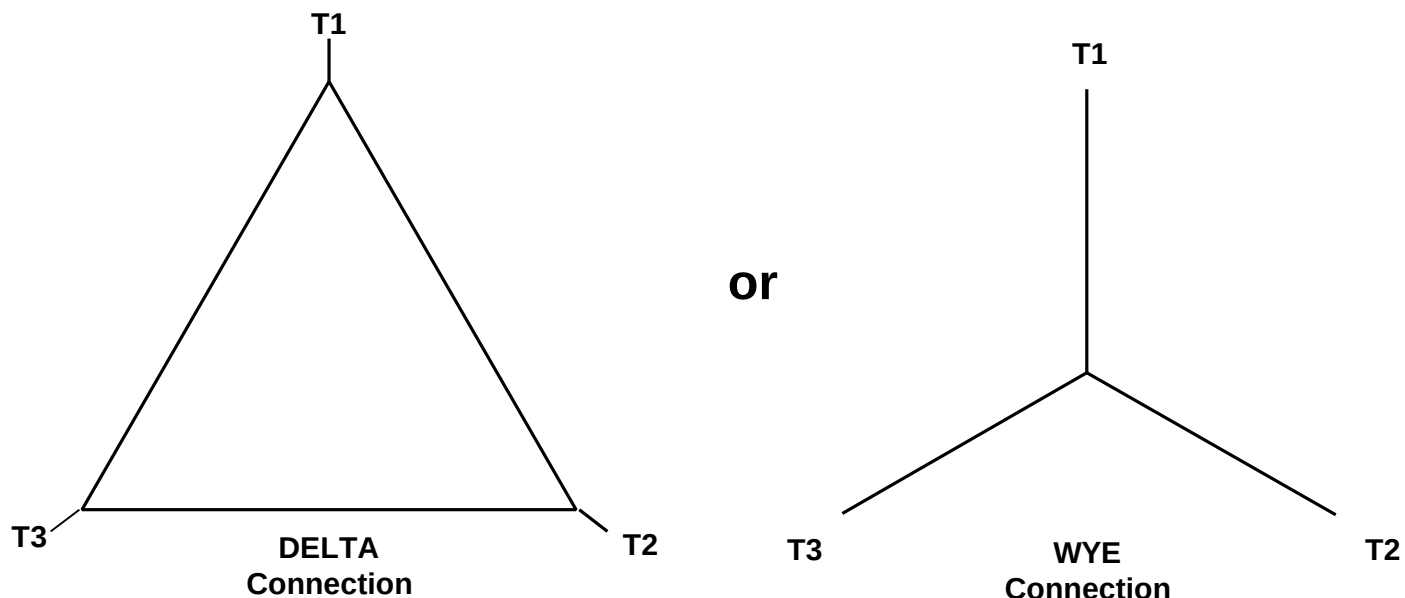


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Motor Wiring Diagram



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.