

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 3/8/2013

P.O. NO.: CY39
Order/Line NO.: 20350 MN 100

TO:

Model Number: CY39
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 00003.00 ~ KW: 2.238
Enclosure TEFC
Poles 06 ~ RPM: 1200
Frame Size 213~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)
NEMA Design B
KVA Code Letter "K"
Starting Method Direct-On-Line Start
Duty Cycle Continuous Duty
Efficiency Value 89.5 % ~ NEMA Nominal
Load Inertia (lb-ft²): NEMA ~ NEMA Inertia: 43.70 ~ 1.00
Number Of Starts Per Hour: NEMA
Motor Type Code TCE
Rotor Inertia (LB-FT²) .684 LB-FT²
Qty. of Bearings PE (Shaft) 1
Qty. of Bearings SE (OPP) 1
Bearing Number PE (Shaft) 6208-J/C3
Bearing Number SE (OPP) 6208-J/C3

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Accessories:

Corro-Duty
Clockwise Rotation FODE
Ground Lug In Conduit Box
Horizontal Lifting Lugs
Precision Balance
Standard Leadtime: REFER TO OFFICE
Est. Weight (lbs ea): 160 ~ F.O.B.: St. Louis, MO

USE THE DATA PROVIDED BELOW TO SELECT THE APPROPRIATE DIMENSION PRINT

Horsepower	3
Pole(s)	06
Voltage(s)	460-230
Frame Size	213T
Shaft U Diameter	1.375
Outlet Box AF	2.00
Outlet Box AA	1.00

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EFFECTIVE:
25-MAR-11

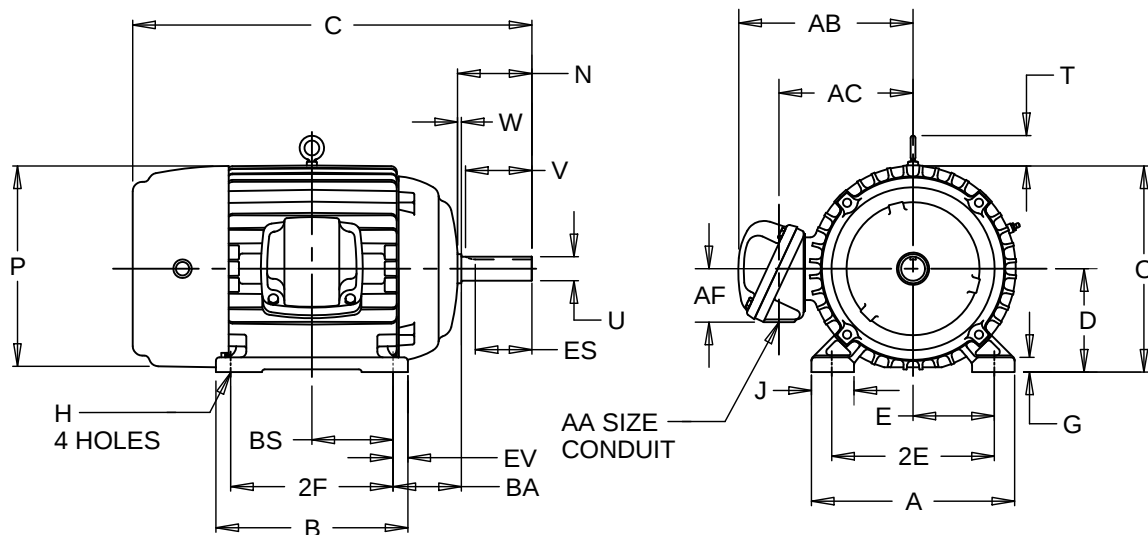
SUPERSEDES:
03-AUG-09

HORIZONTAL MOTORS

FRAME: 213, 215T
BASIC TYPE: TC, CE

PRINT:
07-2894

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	10.38	8.50	20.00	5.25	4.25	8.50	.75	.41	1.75	3.75
MM	264	216	508	133	108	216	19	10	44	95

UNITS	O	P ²	T	U -.0005	V MIN	W	AA	AB	AC	AF	BA
IN	10.75	11.00	2.03	1.3750	3.13	.38	1.00 NPT	9.82	7.26	2.00	3.50
MM	273	279	52	34.925	79	10		249	184	51	89

UNITS	BS	ES MIN	EV	SQ KEY
IN	3.50	2.41	.75	.313
MM	89	61	19	7.95

FRAME	UNITS	2F ±.03
213T	IN	5.50
	MM	140
215T	IN	7.00
	MM	178

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.

07-2894/A

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 **ECO 46423-00**
L. CUESTA
APPROVED BY
J. LOZANO

IHP_DP_NMCA (MAR-2011) SOLIDEDGE

NAMEPLATE DATA

CATALOG NUMBER:				NAMEPLATE PART #:		431157-000	
MODEL	CY39	FR	213T	TYPE	TCE	ENCL	TE
SHAFT END BRG		6208-J/C3 - QTY 1		OPP END BRG		6208-J/C3 - QTY 1	
PH	3	MAX AMB	40 C	ID#			
INSUL CLASS	F	Asm. Pos	F1	DUTY	CONT		
HP	3	RPM	1175	HP		RPM	
VOLTS	460	230		VOLTS			
FL AMPS	4.4	8.8		FL AMPS			
SF AMPS	4.9	9.7		SF AMPS			
SF	1.15	DESIGN	B	CODE	K		
NEMA NOM EFFICIENCY	89.5	NOM PF	71.6	KiloWatt	2.238		
GUARANTEED EFFICIENCY	87.5	MAX KVAR	1.8	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		6		MAGNETIZING AMPS		2.6	
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=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	0.05 IN/SEC	Arctic Duty	
3/4 Load Eff.	89.7	Inrush Limit	
Motor Weight (LBS)	160	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
CY39	NA	3	TCE	213T

ORDER NO.	20350	LINE NO.	
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MPI:	125417	125418
HP:	3	3
POLES:	6	6
VOLTS:	460	230
HZ:	60	60
SERVICE FACTOR:	1.15	1.15
EFFICIENCY (%):		
S.F.	89.5	89.5
FULL	89.5	89.5
3/4	89.7	89.7
1/2	87.9	87.9
1/4	80.9	80.9
POWER FACTOR (%):		
S.F.	74.2	74.2
FULL	71.6	71.6
3/4	64.3	64.3
1/2	51.9	51.9
1/4	32.2	32.2
NO LOAD	5.3	5.3
LOCKED ROTOR	48.8	48.8
AMPS:		
S.F.	4.9	9.7
FULL	4.4	8.8
3/4	3.7	7.3
1/2	3.1	6.2
1/4	2.7	5.4
NO LOAD	2.6	5.2
LOCKED ROTOR	30.6	60.8
NEMA CODE LETTER	K	K
NEMA DESIGN LETTER	B	B
FULL LOAD RPM	1175	1175
NEMA NOMINAL EFFICIENCY (%)	89.5	89.5
GUARANTEED EFFICIENCY (%)	87.5	87.5
MAX KVAR	1.8	1.8
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.}	348	348
LOCKED ROTOR{% F.L.}	275	275
FULL LOAD{LB-FT}	13.4	13.4

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

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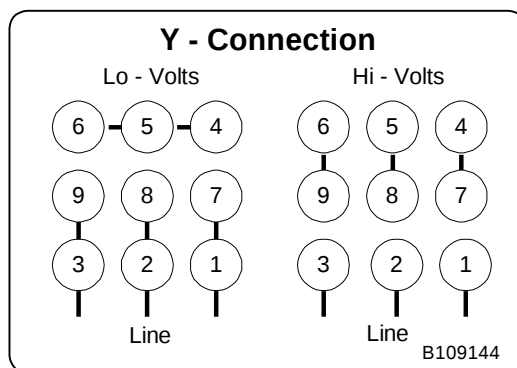
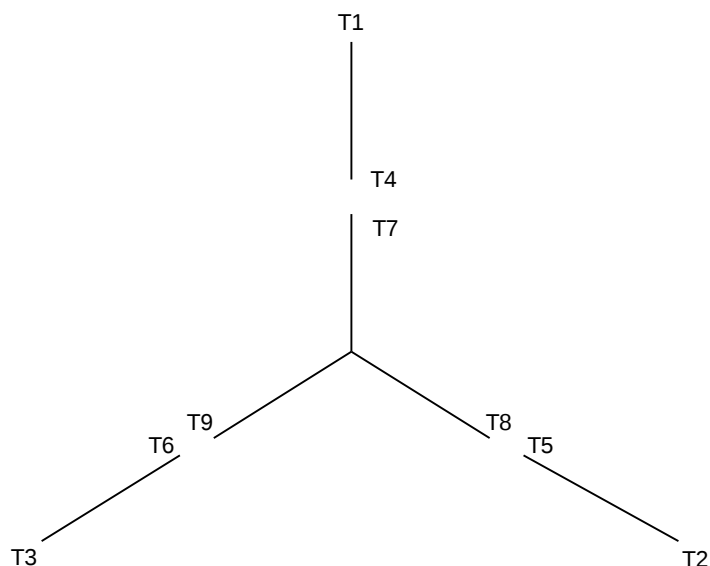


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B109144

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.