

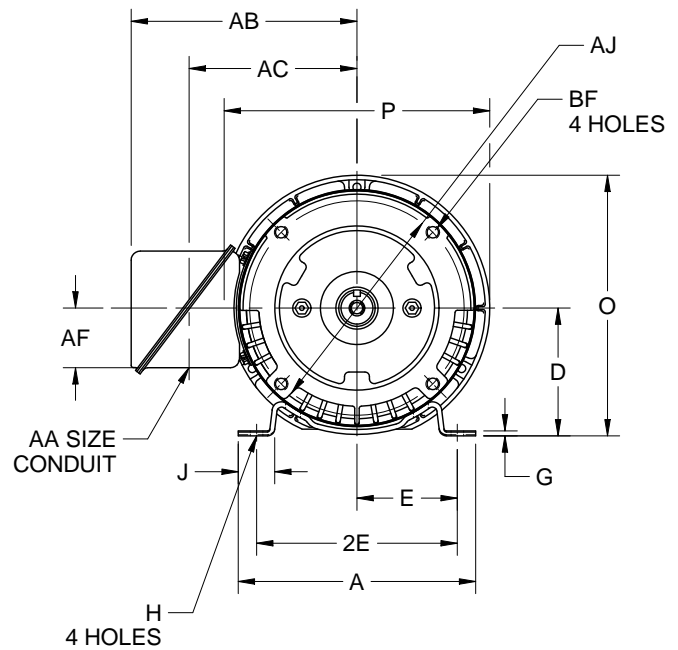
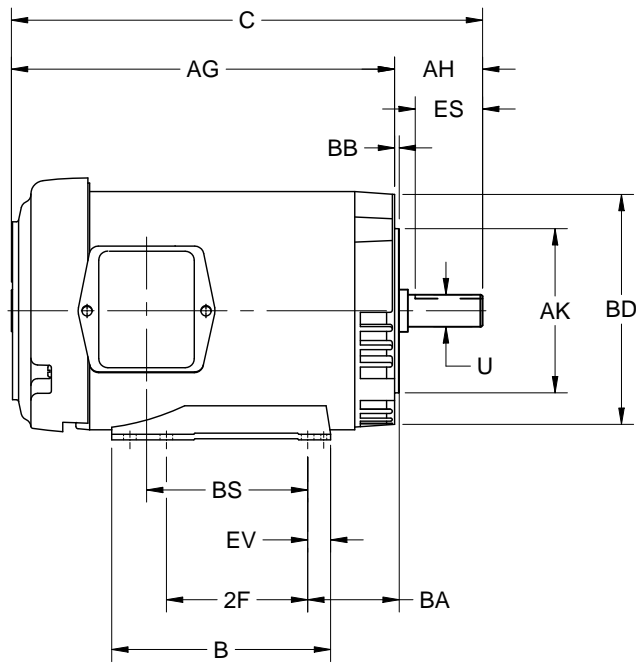
EFFECTIVE:
28-JUL-16

SUPERSEDES:
30-MAR-11

DIMENSION PRINT
TEFC - 7.75 FRAME
FRAME: 56C
BASIC TYPE: UT

PRINT:
07-1839

SHEET:
1 OF 1



ALL DIMENSION ARE IN INCHES AND MILLIMETERS

UNITS	A	B	C	D -.06	E	2E ±.03	2F ±.03	G	H +.005	J	O	P ²
IN	6.50	4.00	13.06	3.50	2.44	4.88	3.00	.13	.34 X 1.25	1.63	7.16	7.28
MM	165	102	332	89	62	124	76	3		4.41	182	185

UNITS	U -.0005	AA	AB	AC	AF	AG	AH	AJ	AK -.003	BA	BB MIN	BD MAX
IN	.6250	.75	6.09	4.50	1.59	11.00	2.06	5.875	4.500	2.75	.13	6.50
MM	15.88		155	114	40	279	52	149.23	114.30	70	3	165

UNITS	BF	BS	ES MIN	EV	SQ KEY
IN	3/8-16 X .75	4.59	1.53	.50	.188
MM		117	39	13	4.78

1. ALL ROUGH CASTING DIMENSIONS MAY VARY BY .25" DUE TO CASTING AND/OR FABRICATION VARIATIONS.
2. LARGEST MOTOR WIDTH.
3. CONDUIT BOX MAY BE LOCATED ON EITHER SIDE OF MOTOR. CONDUIT OPENINGS MAY BE LOCATED IN OF 90 DEGREES REGARDLESS OF LOCATION. STANDARD AS SHOWN WITH CONDUIT OPENING DOWN.

07-1839/A

Nidec Motor Corporation
St. Louis, Missouri

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ISSUED BY
F. CRUZ
APPROVED BY
A. ALCARAZ

IHP_DP_NMCA (MAR-2011) SOLIDEDGE

NAMEPLATE DATA

CATALOG NUMBER: <input style="width: 150px;" type="text" value="U2P1DFC"/>		NAMEPLATE PART #: <input style="width: 150px;" type="text" value="422702-002"/>	
MODEL: <input style="width: 50px;" type="text" value="FM76"/> <input style="width: 50px;" type="text" value="FR"/> <input style="width: 50px;" type="text" value="56C"/>	TYPE: <input style="width: 50px;" type="text" value="UTE"/> <input style="width: 50px;" type="text" value="ENCL"/> <input style="width: 50px;" type="text" value="TEFC"/>		
SHAFT END BRG: <input style="width: 150px;" type="text" value="6203-2Z-J/C3 - QTY 1"/>		OPP END BRG: <input style="width: 150px;" type="text" value="6203-2Z-J/C3 - QTY 1"/>	
PH: <input style="width: 30px;" type="text" value="3"/> MAX AMB: <input style="width: 50px;" type="text" value="40 C"/>	ID#: <input style="width: 150px;" type="text"/>		
INSUL CLASS: <input style="width: 30px;" type="text" value="F"/> Asm. Pos: <input style="width: 150px;" type="text" value="F1"/>	DUTY: <input style="width: 150px;" type="text" value="CONT"/>		
HP: <input style="width: 30px;" type="text" value="2"/> RPM: <input style="width: 50px;" type="text" value="3505"/>	HP: <input style="width: 30px;" type="text" value="2"/> RPM: <input style="width: 50px;" type="text" value="2865"/>		
VOLTS: <input style="width: 40px;" type="text" value="460"/> <input style="width: 40px;" type="text" value="230"/> <input style="width: 40px;" type="text" value="208"/>	VOLTS: <input style="width: 40px;" type="text" value="380"/> <input style="width: 40px;" type="text" value="190"/>		
FL AMPS: <input style="width: 40px;" type="text" value="2.5"/> <input style="width: 40px;" type="text" value="4.9"/> <input style="width: 40px;" type="text" value="5.4"/>	FL AMPS: <input style="width: 40px;" type="text" value="3.0"/> <input style="width: 40px;" type="text" value="5.9"/>		
SF AMPS: <input style="width: 40px;" type="text" value="3.0"/> <input style="width: 40px;" type="text" value="6.0"/>	SF AMPS: <input style="width: 40px;" type="text"/>		
SF: <input style="width: 30px;" type="text" value="1.25"/> DESIGN: <input style="width: 30px;" type="text" value="B"/> CODE: <input style="width: 30px;" type="text" value="M"/>	SF: <input style="width: 30px;" type="text" value="1.00"/> DESIGN: <input style="width: 30px;" type="text" value="B"/> CODE: <input style="width: 30px;" type="text" value="J"/>		
NEMA NOM EFFICIENCY: <input style="width: 40px;" type="text" value="86.5"/> NOM PF: <input style="width: 40px;" type="text" value="88.3"/> KiloWatt: <input style="width: 40px;" type="text" value="1.5"/>	NEMA NOM EFFICIENCY: <input style="width: 40px;" type="text" value="84.1"/> NOM PF: <input style="width: 40px;" type="text" value="90.7"/>		
GUARANTEED EFFICIENCY: <input style="width: 40px;" type="text" value="84.0"/> MAX KVAR: <input style="width: 40px;" type="text" value=".6"/> HZ: <input style="width: 40px;" type="text" value="60"/>	GUARANTEED EFFICIENCY: <input style="width: 40px;" type="text" value="81.5"/> MAX KVAR: <input style="width: 40px;" type="text" value=".5"/> HZ: <input style="width: 40px;" type="text" value="50"/>		

HAZARDOUS LOCATION DATA (IF APPLICABLE):

DIVISION: <input style="width: 100px;" type="text"/>	CLASS I: <input style="width: 100px;" type="text"/>	GROUP I: <input style="width: 100px;" type="text"/>
TEMP CODE: <input style="width: 100px;" type="text"/>	CLASS II: <input style="width: 100px;" type="text"/>	GROUP II: <input style="width: 100px;" type="text"/>

VFD DATA (IF APPLICABLE):

VOLTS: <input style="width: 150px;" type="text"/>	
AMPS: <input style="width: 150px;" type="text"/>	
TORQUE 1: <input style="width: 150px;" type="text"/>	TORQUE 2: <input style="width: 150px;" type="text"/>
VFD LOAD TYPE 1: <input style="width: 150px;" type="text"/>	VFD LOAD TYPE 2: <input style="width: 150px;" type="text"/>
VFD HERTZ RANGE 1: <input style="width: 150px;" type="text"/>	VFD HERTZ RANGE 2: <input style="width: 150px;" type="text"/>
VFD SPEED RANGE 1: <input style="width: 150px;" type="text"/>	VFD SPEED RANGE 2: <input style="width: 150px;" type="text"/>
SERVICE FACTOR: <input style="width: 150px;" type="text"/>	FL SLIP: <input style="width: 150px;" type="text"/>
NO. POLES: <input style="width: 100px;" type="text" value="2"/>	MAGNETIZING AMPS: <input style="width: 100px;" type="text" value=".9"/>
VECTOR MAX RPM: <input style="width: 150px;" type="text"/>	Encoder PPR: <input style="width: 150px;" type="text"/>
Radians/ Seconds: <input style="width: 150px;" type="text"/>	Encoder Volts: <input style="width: 150px;" type="text"/>

TEAO DATA (IF APPLICABLE):

HP (AIR OVER): <input style="width: 100px;" type="text"/>	HP (AIR OVER M/S): <input style="width: 100px;" type="text"/>	RPM (AIR OVER): <input style="width: 100px;" type="text"/>	RPM (AIR OVER M/S): <input style="width: 100px;" type="text"/>
FPM AIR VELOCITY: <input style="width: 100px;" type="text"/>	FPM AIR VELOCITY M/S: <input style="width: 100px;" type="text"/>	FPM AIR VELOCITY SEC: <input style="width: 100px;" type="text"/>	

ADDITIONAL NAMEPLATE DATA:

Decal / Plate	WD=344136	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	CC 030A
COS		Marine Duty	
Balance		Arctic Duty	
3/4 Load Eff.	87.4	Inrush Limit	
Motor Weight (LBS)	30	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	6.8	SH Max. Temp.	
190V 50 hz Max Amps	5.9	SH Voltage	
380V 50 Hz Max Amps	3.0	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	
Heater in C/B Voltage		Heater in C/B Watts	
Zone 2 Group		Division 2 Service Factor	

**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
FM76	U2P1DFC	3	UTE	56C

ORDER NO.	24236	LINE NO.

MPI:	210443	210444	210445	210446	210447
HP:	2	2	2	2	2
POLES:	2	2	2	2	2
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.25	1.25	1.25	1	1
EFFICIENCY (%):					
S.F.	85.7	85.7	83.1		
FULL	86.5	86.5	85.5	84.1	84.1
3/4	87.4	87.4	87.1	86.5	86.5
1/2	85.8	85.8	86.3	86.5	86.5
1/4	78.6	78.6	80.2	81.3	81.3
POWER FACTOR (%):					
S.F.	90.4	90.4	91.4		
FULL	88.3	88.3	90.3	90.7	90.7
3/4	84	84	87.4	87.6	87.6
1/2	74.9	74.9	80.4	80.2	80.2
1/4	54.5	54.5	61.7	60.6	60.6
NOLOAD	11.9	11.9	13.1	11.6	11.6
LOCKED ROTOR	66.4	66.4	65.2	71.6	71.6
AMPS:					
S.F.	3	6	6.8		
FULL	2.5	4.9	5.4	3	5.9
3/4	1.9	3.8	4.1	2.2	4.5
1/2	1.5	2.9	3	1.6	3.3
1/4	1.1	2.2	2.1	1.1	2.3
NOLOAD	0.9	1.9	1.7	0.9	1.9
LOCKED ROTOR	25	50	44	22.3	45
NEMA CODE LETTER	M	M	K	J	J
NEMA DESIGN LETTER	B	B	B	B	B
FULL LOAD RPM	3505	3505	3475	2865	2865
NEMA NOMINAL / EFFICIENCY (%)	86.5	86.5	85.5	84.1	84.1
GUARANTEED EFFICIENCY (%)	84	84	82.5	81.5	81.5
MAX KVAR	0.6	0.6	0.5	0.5	0.5
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	9	9	12	12	12
SOUND PRESSURE (DBA @ 1M)	0	0	0	0	0
TORQUES:					
BREAKDOWN{% F.L.}	438	438	350	331	331
LOCKED ROTOR{% F.L.}	335	335	264	265	265
FULL LOAD{LB-FT}	3	3	3	3.7	3.7

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

NIDEC MOTOR CORPORATION
ST. LOUIS, MO

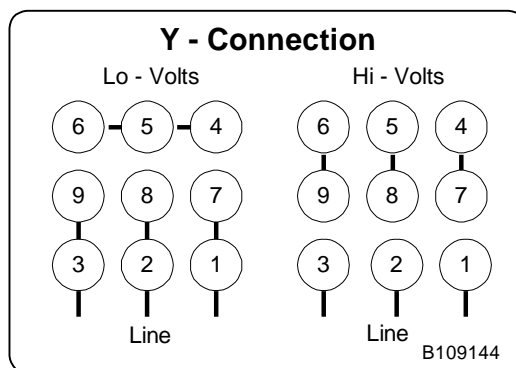
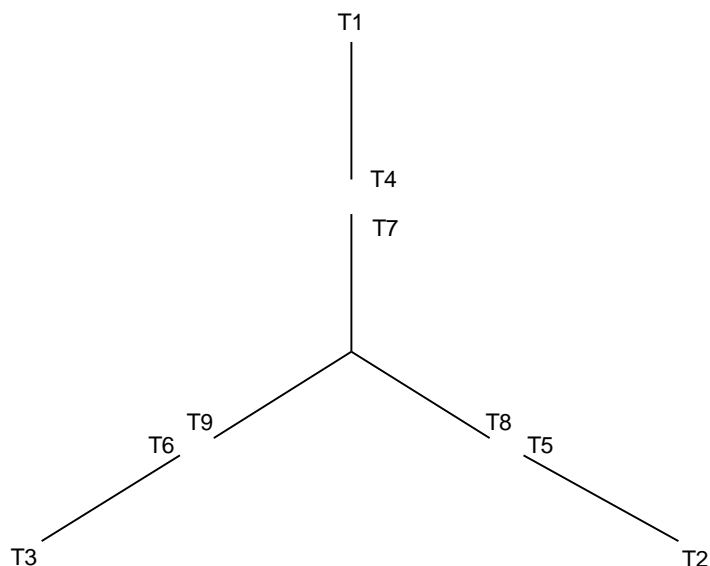


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B109144

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.