

EFFECTIVE:  
**04-JUN-14**

# HORIZONTAL MOTORS

## UNIMOUNT VECTOR DUTY

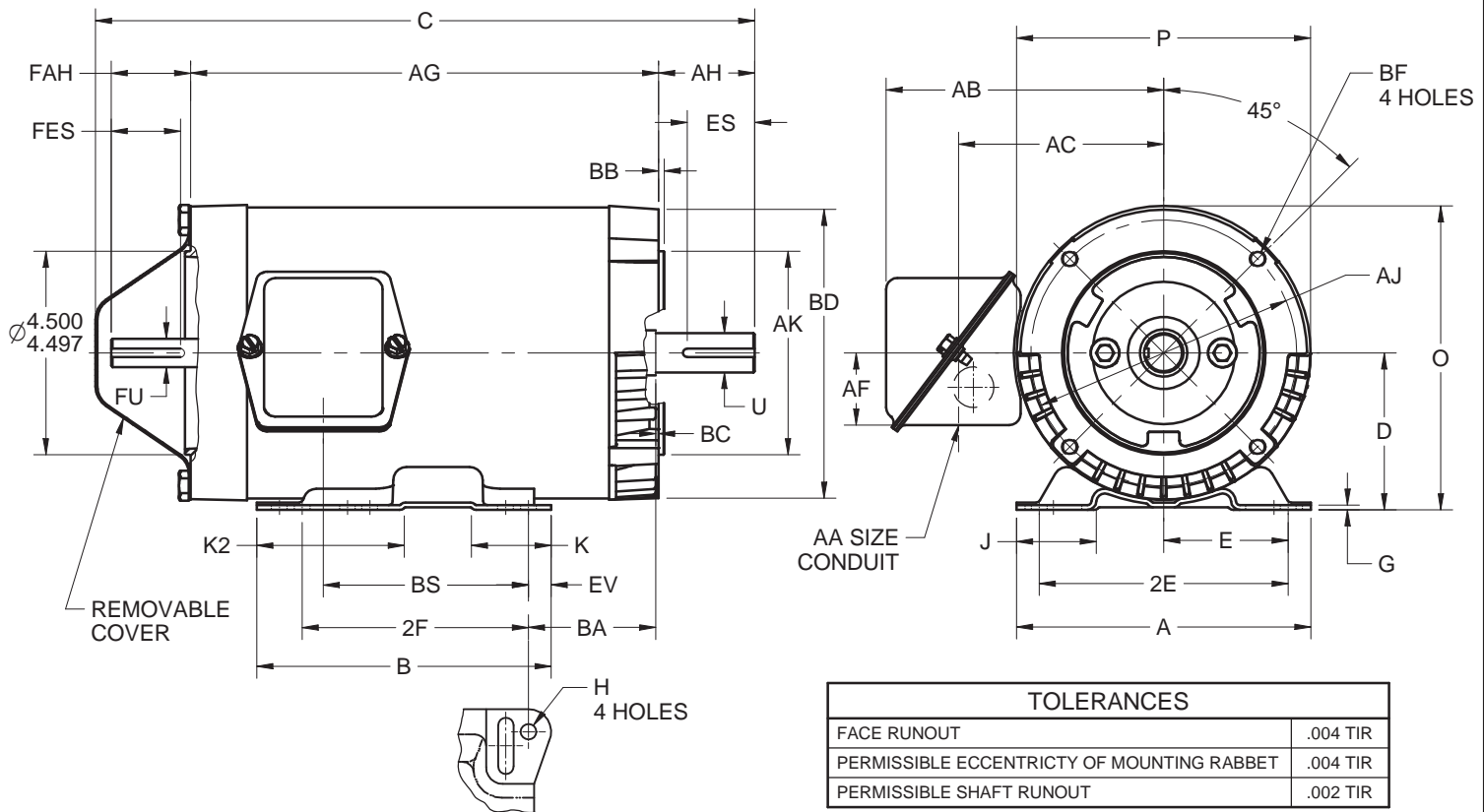
PRINT:  
**07-3118**

SUPERSEDES:  
**04-APR-14**

FRAME: 143, 145TC  
BASIC TYPE: UTX

SHEET:  
**1 OF 2**

FOR ENCODER AND BRAKE CONFIGURATIONS SEE SHEET 2



TOLERANCES	
FACE RUNOUT	.004 TIR
PERMISSIBLE ECCENTRICITY OF MOUNTING RABBET	.004 TIR
PERMISSIBLE SHAFT RUNOUT	.002 TIR

ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS

UNITS	A	B	D -.06	E	2E ±.03	G	H +.05	J	K	K2	O	P <sup>2</sup>	U -.0005
IN	6.50	6.50	3.50	2.75	5.50	.13	.34	1.75	1.75	3.25	6.75	6.50	.8750
MM	165	165	89	70	140	3	9	44	44	83	171	165	22.225

UNITS	AA <sup>5</sup>	AB	AC	AF	AH	AJ	AK -.003	BA	BB MIN	BC	BD MAX	BF <sup>3,4</sup>
IN	.75	6.13	4.53	1.59	2.13	5.875	4.500	2.75	.13	.13	6.50	3/8-16 X .75
MM		156	115	40	54	149.23	114.30	70	3	3	165	

UNITS	ES MIN	EV	FAH	FES MIN	FU -.0005	ODE SQ KEY	DE SQ KEY
IN	1.41	.50	1.75	1.41	.6250	.188	.188
MM	36	13	44	36	15.875	4.78	4.78

UNITS	FRAME	HP	POLES	C	2F ±.03	AG	BS
IN	143TC	1	4	14.57	4.00	10.34	4.53
				370	102	263	115
MM	145TC	1	6	14.57	5.00	10.34	4.53
				370	127	263	115
IN	145TC	1.5	4	14.57	5.00	10.34	4.53
				370	127	263	115
MM	145TC	2	4	15.57	5.00	11.34	5.53
				395	127	288	140

1. DIMENSIONS MAY VARY .25" DUE TO CASTING AND/OR FABRICATION VARIATIONS
2. LARGEST MOTOR WIDTH
3. ALL TAP HOLES ARE UNIFIED NATIONAL COARSE, RIGHT HAND THREAD
4. TAP SIZE AND BOLT PENETRATION ALLOWANCE
5. BASIC CONDUIT FITTING SIZE. HOLE OPENING ON THE SIDE OF THE CONDUIT BOX (REPRESENTED BY A DASHED CIRCLE) WILL ACCEPT A .50 BASIC CONDUIT FITTING
6. THE CONDUIT BOX MAY BE LOCATED ON EITHER SIDE OF THE MOTOR. THE CONDUIT OPENING(S) MAY BE LOCATED IN STEPS OF 180° REGARDLESS OF LOCATION. STANDARD LOCATION IS SHOWN WITH THE CONDUIT OPENING DOWN
7. TOLERANCES ARE SHOWN IN INCHES ONLY
8. FRAME REFERENCE; 8.00/1 AND 1.5 HP AND 9.00/2 HP

07-3118/A

**Nidec Motor Corporation**  
St. Louis, Missouri

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ISSUED BY  
**R. TIMMERMANN**  
APPROVED BY  
**M. CULLEN**

IHP\_DP\_NMCA (MAR-2011) SOLIDEDGE

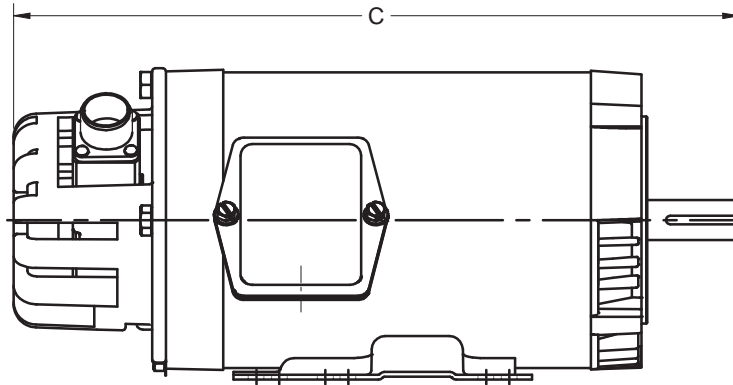
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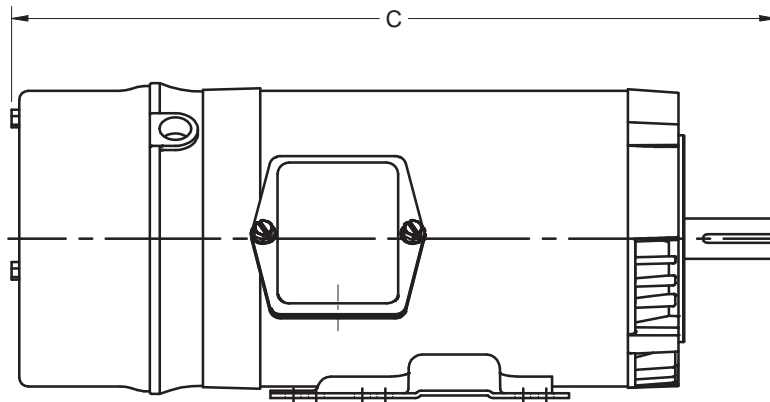
**HORIZONTAL MOTORS**  
UNIMOUNT VECTOR DUTY  
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BASIC TYPE: UTX

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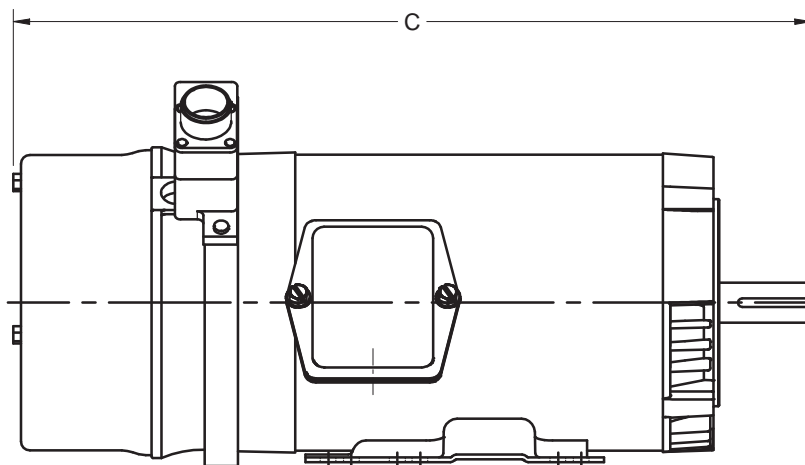
SHEET:  
**2 OF 2**



**ACCOMMODATE SHAFT MOUNTED ENCODER**  
FOR DYNAPAR ENCODER KIT ADD 1.20" TO THE "C" DIMENSION  
FOR EPC ENCODER KIT ADD .76" TO THE "C" DIMENSION



**ACCOMMODATE BRAKE**  
FOR BRAKE ADD 2.13" TO THE "C" DIMENSION



**ACCOMMODATE FLANGE MOUNT ENCODER AND BRAKE**  
FOR BRAKE WITH SL56 ENCODER ADD 2.87" TO THE "C" DIMENSION  
FOR BRAKE WITH 770 ENCODER ADD 3.11" TO THE "C" DIMENSION