

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 6/8/2015

P.O. NO.:
Order/Line NO.:

FD08
23169 MN 100

TO:

Model Number: FD08
Catalog Number:
Unimount Pre. Eff. Config.
CONF,MOTOR,UNIMOUNT 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 00001.00 ~ KW: .746
Enclosure TEFC
Poles 04 ~ RPM: 1800
Frame Size 143~TC
Phase/Frequency/Voltage.. 3~060~230/460 ~ Random Wound
Service Factor 1.25
Insulation Class Class "F" ~ Insulife 1000
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).. 4.500
Temperature Rise (Sine Wave): "B" Rise @ 1.0 SF (Resist)
Starting Method Direct-On-Line Start
Duty Cycle Continuous Duty
Efficiency Value 85.5 % ~ Typical
Load Inertia (lb-ft²): NEMA ~ NEMA Inertia: 5.80 ~ 1.00
Number Of Starts Per Hour: NEMA
Motor Type Code UTE
Rotor Inertia (LB-FT²)108 LB-FT²
Qty. of Bearings PE (Shaft) 1
Qty. of Bearings SE (OPP) 1
Bearing Number PE (Shaft) 6205-2Z-J/C3
Bearing Number SE (OPP) 6203-2Z-J/C3

Nidec trademarks followed by the ® symbol are registered with the U.S. Patent and Trademark Office.

NIDEC MOTOR CORPORATION

8050 WEST FLORISSANT AVE.
ST. LOUIS, MO 63136



DATE: 6/8/2015

P.O. NO.:
Order/Line NO.:

FD08
23169 MN 100

TO:

Model Number: FD08
Catalog Number:
Unimount Pre. Eff. Config.
CONF,MOTOR,UNIMOUNT 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.

Accessories:

Standard Leadtime: 7-8 WEEKS
Est. Weight (lbs ea): 30 ~ F.O.B.: Monterrey, Mexico

USE THE DATA PROVIDED BELOW TO SELECT THE APPROPRIATE DIMENSION PRINT

Horsepower	1
Pole(s)	04
Voltage(s)	460-230
Frame Size	143TC
Shaft U Diameter	0.875
Outlet Box AF	1.59
Outlet Box AA	0.75

Nidec trademarks followed by the ® symbol are registered with the U.S. Patent and Trademark Office.

EFFECTIVE:
24-MAR-14

SUPERSEDES:
NEW

HORIZONTAL MOTORS

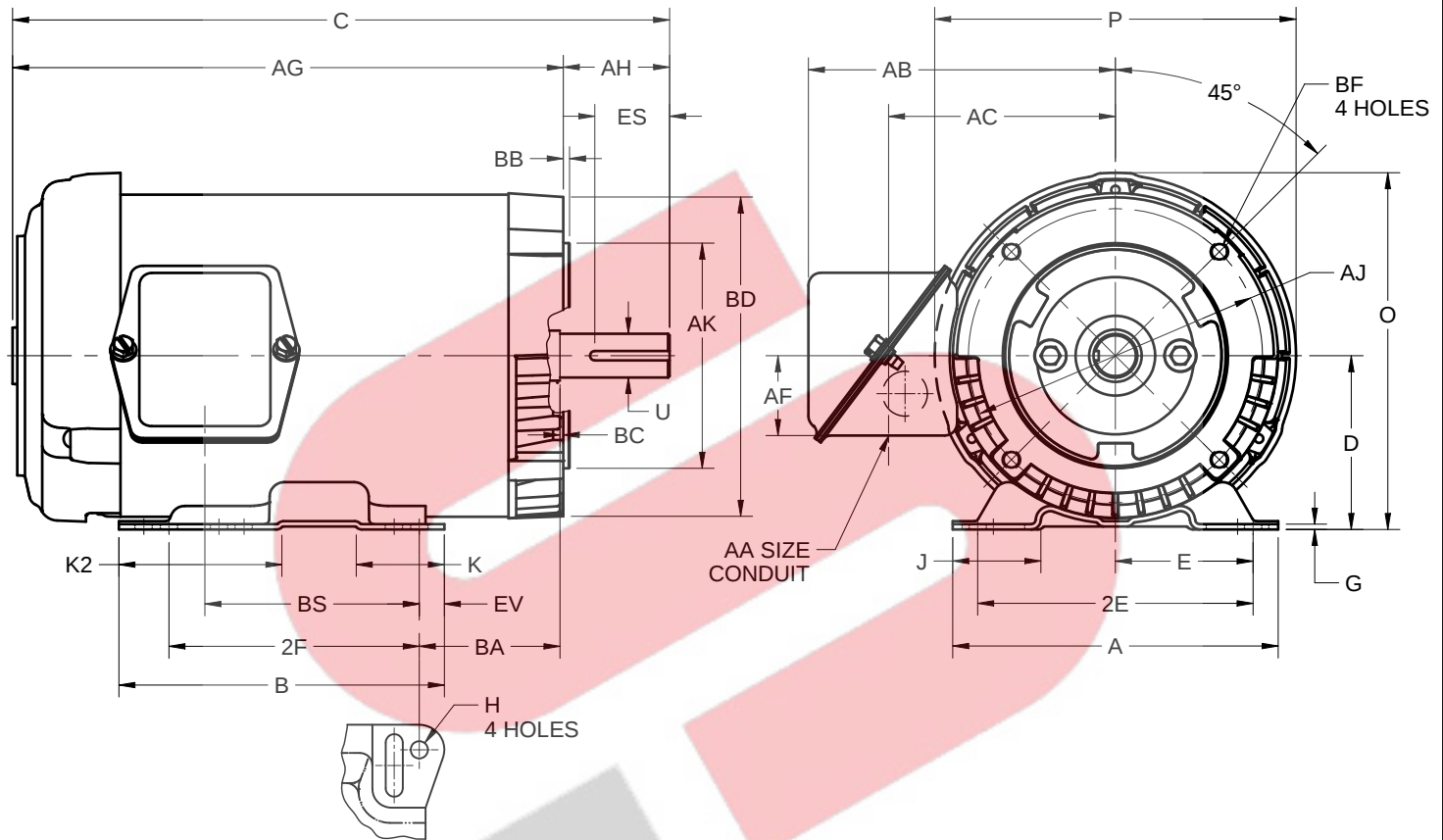
TEFC

FRAME: 143, 145TC

BASIC TYPE: UT

PRINT:
07-3109

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	K2	O	P ²
IN	6.50	6.50	13.13	3.50	2.75	5.50	.13	.34	1.75	1.75	3.25	7.16	7.31
MM	165	165	334	89	70	140	3	9	44	44	83	182	186

UNITS	U -.0005	AA ⁵	AB	AC	AF	AG	AH	AJ	AK -.003
IN	.8750	.75	6.13	4.53	1.59	11.00	2.13	5.875	4.500
MM	22.225		156	115	40	279	54	149.23	114.30

UNITS	BA	BB MIN	BC	BD MAX	BF ^{3,4}	BS	ES MIN	EV	SQ KEY
IN	2.75	.13	.13	6.50	3/8-16 X .75	4.28	1.41	.50	.188
MM	70	3	3	165		109	36	13	4.78

UNITS	FRAME	2F ±.03
IN	143TC	4.00
MM		102
IN	145TC	5.00
MM		127

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

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; 7.75/143/145

07-3109/-

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. TIMMERMANN
APPROVED BY
M. CULLEN

IHP_DP_NMCA (MAR-2011) SOLIDEDGE