

BALDOR® • **RELIANCE**

Product Information Packet

ZDNRPM21104C

10HP, 1750RPM,3PH,60HZ,2162C,TENV,FOOT

| Part Detail | | | | | | | |
|-------------|----|-------------|------------|-------------|------------|---------------|------------|
| Revision: | - | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | L3424B | CD Diagram: | 422927-001 | Mfg Plant: | |
| Mech. Spec: | | Layout: | 617516-013 | Poles: | 04 | Created Date: | 04-10-2015 |
| Base: | | Eff. Date: | 04-13-2015 | Leads: | | | |

| Specs | | | |
|--------------------------------|---------------------|--|--|
| Catalog Number: | ZDNRPM21104C | | |
| Enclosure: | TENV | | |
| Frame: | FL2162C | | |
| Frame Material: | Exposed Laminations | | |
| Output @ Frequency: | 10.000 HP @ 60 HZ | | |
| Synchronous Speed @ Frequency: | 1800 RPM @ 60 HZ | | |
| Voltage @ Frequency: | 460.0 V @ 60 HZ | | |
| Agency Approvals: | CCSA US | | |
| | UR | | |
| Auxillary Box: | No Auxillary Box | | |
| Base Indicator: | Rigid | | |
| Bearing Grease Type: | No Grease | | |
| Current @ Voltage: | 13.600 A @ 460.0 V | | |
| Duty Rating: | CONT | | |
| Feedback Device: | TACHOMETER | | |
| Frame Prefix: | FL | | |
| Heater Indicator: | No Heater | | |
| Insulation Class: | H | | |

| | | | |
|----------------------------------|----------------------------|--|--|
| Mounting Arrangement: | TP | | |
| Product Family: | General Industrial | | |
| Pulley End Bearing Type: | Ball | | |
| Pulley Face Code: | C-Face | | |
| Shaft Ground Indicator: | No Shaft Grounding | | |
| Shaft Rotation: | Reversible | | |
| Motor Standards: | NEMA | | |
| Thermal Device - Bearing: | None | | |
| Thermal Device - Winding: | Normally Closed Thermostat | | |

| Nameplate 000613006NN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|----------------|--------------|-----------|------|-------|----|------|----|------|------|-----|----|------|----|------|------|-----|-----|------|----|------|------|-----|----|------|----|------|------|-----|-----|
| | <table border="1"> <thead> <tr> <th>DUTY</th> <th>HP</th> <th>RPM</th> <th>AMPS</th> <th>VOLTS</th> <th>HZ</th> </tr> </thead> <tbody> <tr> <td>CONT</td> <td>10</td> <td>1780</td> <td>13.6</td> <td>460</td> <td>60</td> </tr> <tr> <td>CONT</td> <td>10</td> <td>3555</td> <td>12.4</td> <td>460</td> <td>120</td> </tr> <tr> <td>CONT</td> <td>10</td> <td>1780</td> <td>27.2</td> <td>230</td> <td>60</td> </tr> <tr> <td>CONT</td> <td>10</td> <td>3555</td> <td>24.8</td> <td>230</td> <td>120</td> </tr> </tbody> </table> | DUTY | HP | RPM | AMPS | VOLTS | HZ | CONT | 10 | 1780 | 13.6 | 460 | 60 | CONT | 10 | 3555 | 12.4 | 460 | 120 | CONT | 10 | 1780 | 27.2 | 230 | 60 | CONT | 10 | 3555 | 24.8 | 230 | 120 |
| DUTY | HP | RPM | AMPS | VOLTS | HZ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONT | 10 | 1780 | 13.6 | 460 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONT | 10 | 3555 | 12.4 | 460 | 120 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONT | 10 | 1780 | 27.2 | 230 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONT | 10 | 3555 | 24.8 | 230 | 120 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAT.NO. | ZDNRPM21104C | SPEC. NO. | P21T0399 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SER.NO. | | FR | FL 2162C | INSUL | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PH. | 3 | MAX SAFE SPEED | 5000 | AMB. | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DESIGN NO. | L3424B | TYPE | | ENCL. | TENV | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S.F. | 1.0 | D.E. BRG. | 50BC03JPP30A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ENCL MOD | | O.D.E. BRG. | 45BC02JPP30A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | MIN. AMB. | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | |
|-------------|--------|--------------|---------|---------------------------------------|-----------|-------------------------|---------|----------|-----------|
| REL S.O. | - | VOLTS | 230/460 | ENCLOSURE | TENV | WYE | CONN EQ | CKT OHMS | PER PHASE |
| FRAME | FL2162 | AMPS | 13.6 | MAX SAFE RPM | 5000 | (AT BASE RATING, 25 °C) | | | |
| HP | 10 | DUTY | CONT | IM (AMPS) | 7.5 | R1 | .305 | X1 | 1.40 |
| BASE SPEED | 1780 | S.F. | 1.0 | P.F. @NL/FL | .075/.770 | R2 | .199 | X2 | 2.17 |
| PHASE/HERTZ | 3/60 | AMB °C/INSUL | 40/H | WK ² (lb-ft ²) | 1.92 | | | XM | 34.9 |

RATED FULL LOAD DATA

| | RPM | HP | TORQUE LB-FT | FUND VOLTS | FREQ-HZ | AMPS |
|------------|------|------|-----------------|---------------|---------|------|
| BASE SPEED | 1779 | 10.0 | 30 | 460 | 60 | 13.6 |
| MAX SPEED | 3560 | 10.0 | 15 | 460 | 120.2 | 12.4 |
| MIN SPEED | 0 | 0 | 30 | 11.8 | .6996 | 13.6 |

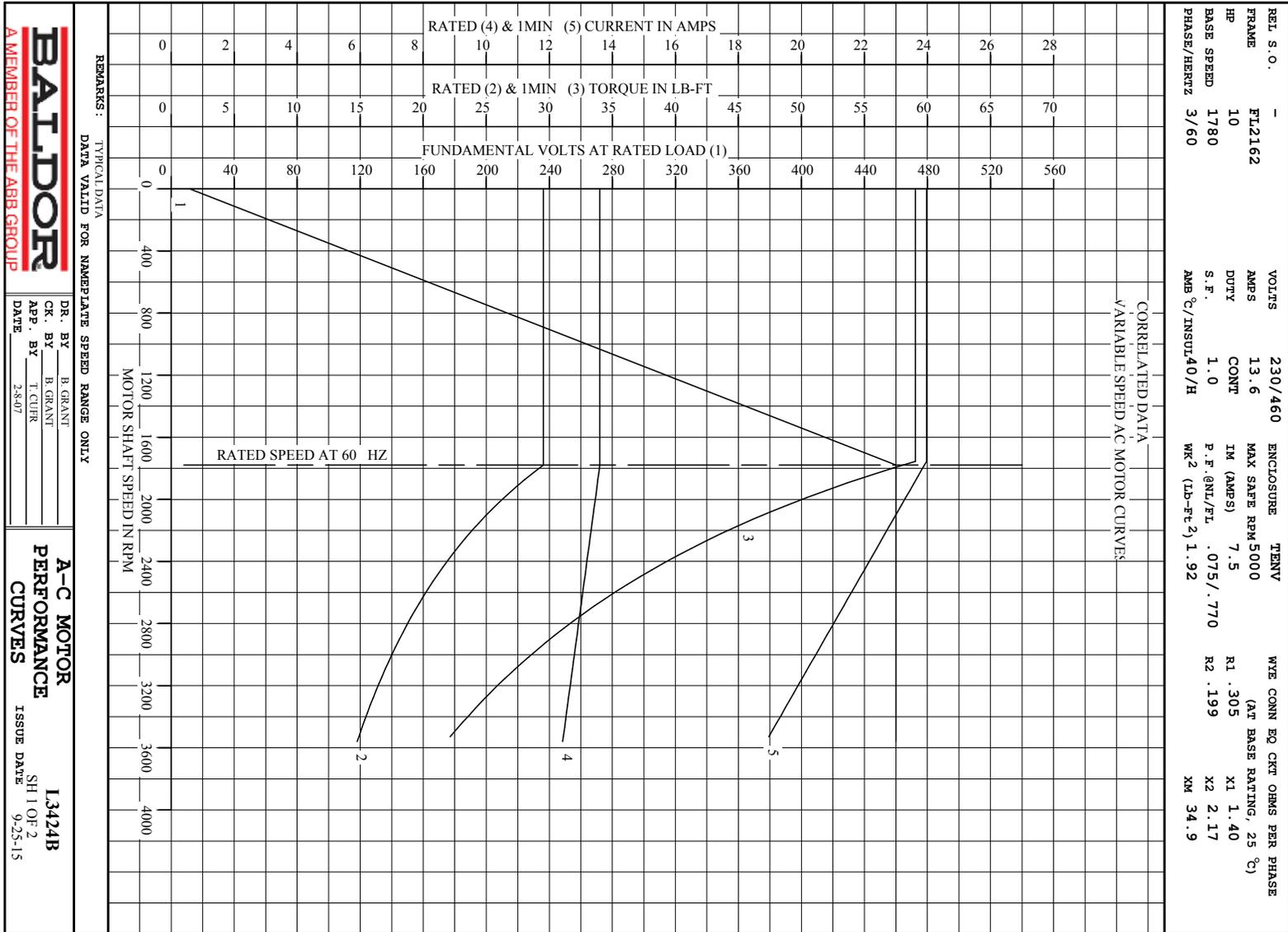
LOAD PERFORMANCE AT BASE SPEED

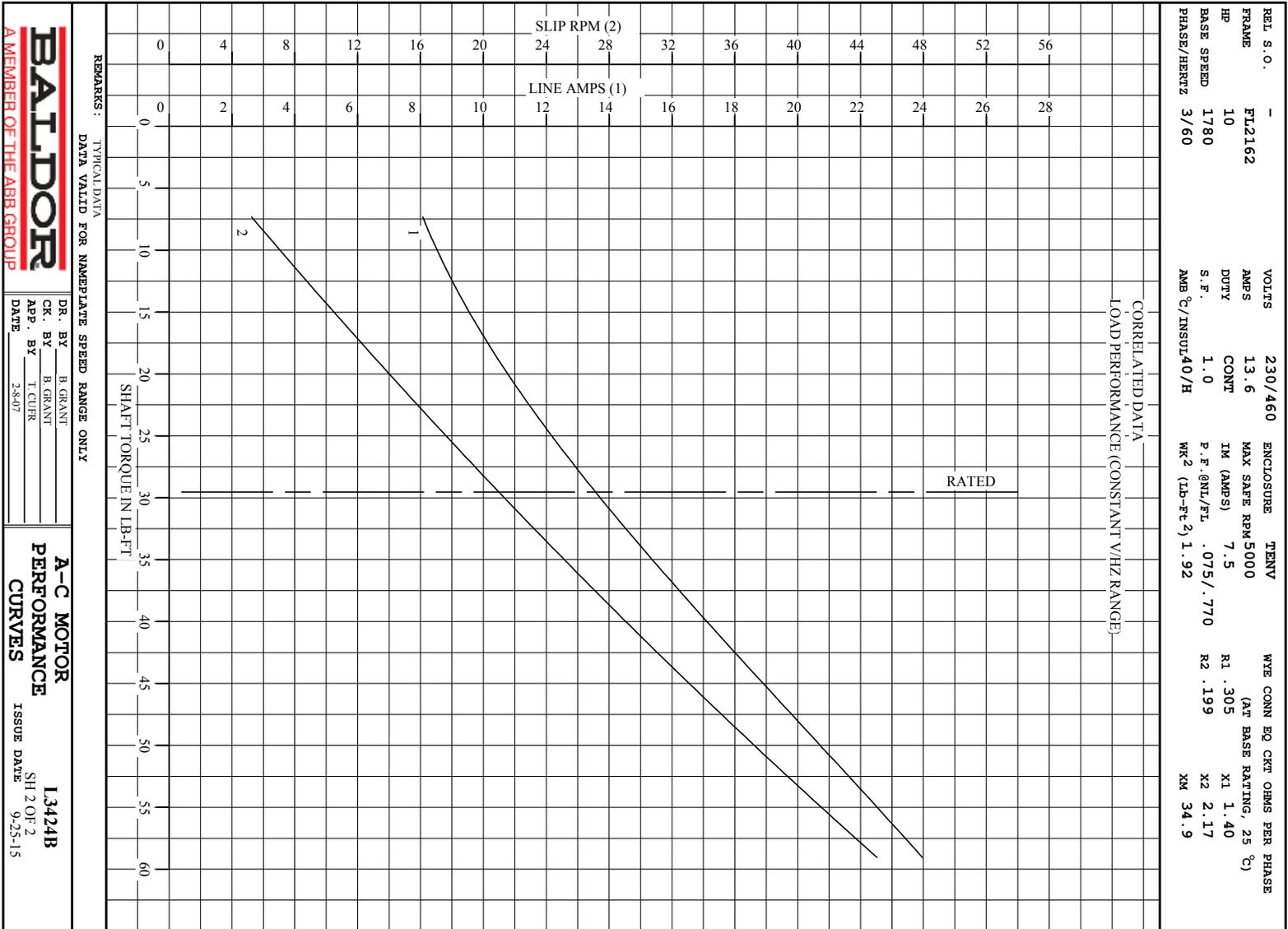
| | RPM | HP | TORQUE LB-FT | FUND VOLTS | FREQ-HZ | AMPS |
|-----------|------|------|-----------------|---------------|---------|------|
| NO LOAD | 1800 | 0 | 0 | 460 | 60 | 7.34 |
| 1/4 | 1795 | 2.50 | 7 | 460 | 60 | 8.09 |
| 1/2 | 1790 | 5.01 | 15 | 460 | 60 | 9.45 |
| 3/4 | 1785 | 7.50 | 22 | 460 | 60 | 11.3 |
| FULL LOAD | 1779 | 10.0 | 30 | 460 | 60 | 13.6 |
| O/L | 1755 | 19.7 | 59 | 460 | 60 | 24.0 |

REMARKS: TYPICAL DATA
CORRELATED DATA

| | | | |
|--|---------|----------|---|
|  A MEMBER OF THE ABB GROUP | DR. BY | B. GRANT | A-C MOTOR PERFORMANCE DATA |
| | CK. BY | B. GRANT | |
| | APP. BY | T. CUER | |
| | DATE | 2-8-07 | |

A-C MOTOR
PERFORMANCE
DATA
ISSUE DATE 9-25-15





BALDOR
A MEMBER OF THE ABB GROUP

DR. BY B. GRANT
CR. BY T. CURR
APP. BY 2-8-07
DATE

A-C MOTOR
PERFORMANCE
CURVES
13424B
SH 2 OF 2
ISSUE DATE 9-25-15

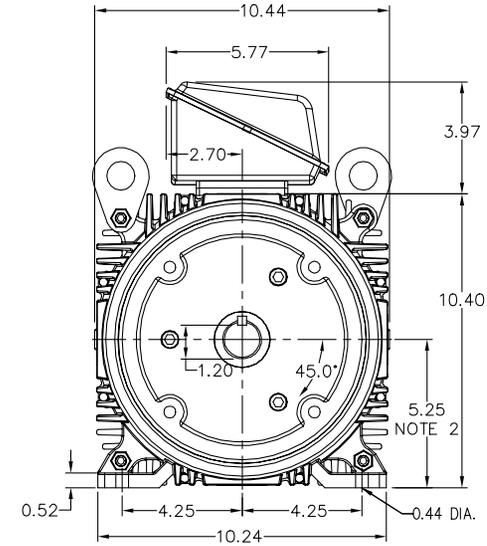
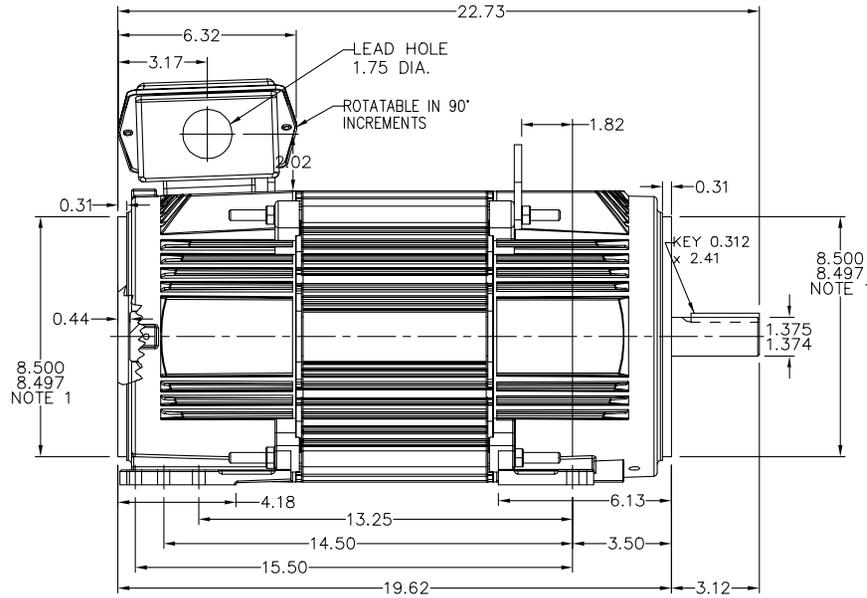
617516-013

RPM-AC FINNED FRAME VARIABLE SPEED ALTERNATING
CURRENT MOTOR
FL2162C

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT / NEMA 210TC C-FACE
DRIVE METHOD: COUPLED OR BELTED

COOLING: NON-VENTILATED

ACCESSORIES: PROVISIONS FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED



NOTE 1: C-FACE & TACHOMETER MOUNTING
1/2-13 TAP, 1.00 DEEP, ON A 7.25 DIA. BOLT CIRCLE
FACE RUNOUT AND ECCENTRICITY 0.004 MAX. T.I.R.

NOTE 2: SHAFT HEIGHT WILL NOT BE EXCEEDED
SHIMS UP TO 0.03 INCHES IN THICKNESS ARE USUALLY
REQUIRED FOR COUPLED OR GREARED MACHINES

TERMINAL BOX MAY BE LOCATED F1 OR F2 IF SPECIFIED
61 AMP STEEL TERMINAL BOX SHOWN
REFER TO 616779-50 FOR SPECIFIED TERMINAL BOX DIMENSIONS
REFER TO 616779-55 FOR SPECIFIED TACHOMETER DIMENSIONS

MOTOR WEIGHT: 280 LBS. (MAY VARY 15%)
DIMENSIONS ARE IN INCHES SCALE: 1.00

617516-013

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

| | | |
|---|-----------------------------|-------------------|
| REV. DESC: ADDED C-FACE DEPTH DIMENSION | VERSION: 01 | TDR: 000000493632 |
| REV. LTR: A | REVISD: 13:15:33 03/13/2009 | BY: CONDLM |
| FILE: \RGG\00003\180 | | |
| MTL: - | | |

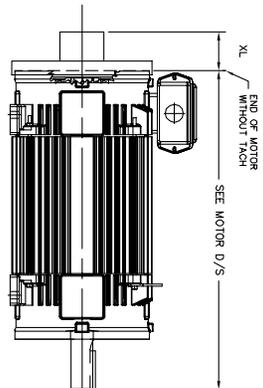
BALDOR • DODGE • RELIANCE
DIM SHT RPMAC TENV FL2162C FT MT PROV FOR TACH
SH 1 of 1

RPM AC TACHOMETER DIMENSIONS
 NEMA FRAMES FL180 thru FL440 and IEC FRAMES FDL112 thru FDL280
 DIMENSIONS ARE IN INCHES(mm)

DPTV, DPSV, TEPV, TESV, TENV & TEAO-PB
 IC06, IC17, IC37, IC410, & IC416-PB

616779-055

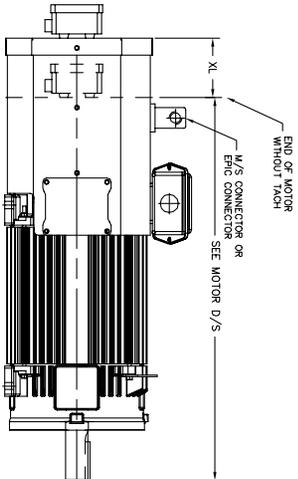
| TACH. MODEL | XL Inche(s)(mm) | LBS. |
|---------------------|-----------------|------|
| BEL PB DYNAPAR H335 | 2.88 (74) | 5 |
| DYNAPAR H20 * | 7.50(191)MAX | 10 |
| NORTHSTAR H335M | 3.31 (84) | 10 |
| NORTHSTAR ST67 | 2.88 (74) | 5 |
| DYNAPAR H36 | 10.56 (268) | 40 |
| AVTRON M3 BR M4 | 3.62 (.92) | 10 |
| TAMAGAWA TSS013(X1) | 6.00 (152) | 10 |
| NORTHSTAR ST65 | 2.88 (74) | 5 |
| NORTHSTAR ST85 | 2.00 (.51) | 5 |
| BEL H38B | 10.19 (259) | 15 |
| TAMAGAWA TS2151 | 2.64 (67) | 15 |
| BEL H35 | 7.50 (191) | 15 |
| DYNAPAR H320 | 2.00 (.50) | 5 |
| DYNAPAR X23 | 12.88 (327) | 10 |
| STIEGMANN SRK25 | 7.25 (184.4) | 10 |
| NORTHSTAR H3035 | 3.00 (.76) | 10 |
| HEIDENHAIN EGN425 | 2.5 (63.5) | 5 |
| AVTRON H335M | 4.19 (106.4) | 5 |
| HEIDENHAIN ERN480 | 5.00 (76.2) | 5 |
| DYNAPAR H025 | 7.00 (177.8) | 10 |
| DYNAPAR H025 | 3.62 (92.1) | 5 |
| AVTRON H025 | 2.54 (64.5) | 9 |
| AVTRON A1850 | 2.54 (64.5) | 9 |
| AVTRON A1556 | 4.50 (115) | 15 |
| HS1258 | 3.30 (84) | 5 |
| HS1258 | 3.30 (84) | 2 |
| NORTHSTAR P18 | 3.25 (83) | 15 |
| DYNAPAR H4625 | 5.88 (150) | 10 |
| AVTRON A1455 | 9.50 (241) | 18 |
| AVTRON A1532 | 1.93 (49) | .7 |



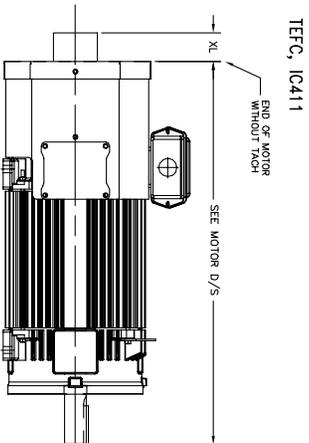
* THIS DIMENSION INCLUDES COVER FOR X/T MOTOR.

TEAO-BC, IC416-BC
 EXCLUDES NEMA FRAMES FL320 THRU FL440
 AND
 IEC FRAMES FDL200 THRU FDL280

| TACH. MODEL | XL Inche(s)(mm) | LBS. |
|-------------------------|-----------------|------|
| BEL PB DYNAPAR H335 | 4.50 (115) | 10 |
| DYNAPAR H20 | 4.50 (115) | 15 |
| AVTRON M3 BR M4 | 4.50 (115) | 10 |
| NORTHSTAR H335M | 4.50 (115) | 15 |
| NORTHSTAR ST65 | 4.50 (115) | 10 |
| NORTHSTAR ST67 | 4.50 (115) | 10 |
| NORTHSTAR ST85 | 4.50 (115) | 5 |
| TAMAGAWA TSS008, TSS013 | 4.50 (115) | 10 |
| DYNAPAR H320 | 4.50 (115) | 15 |
| STIEGMANN SRK25 | 4.50 (115) | 10 |
| STIEGMANN SRV/SR150 | 4.50 (115) | 3 |
| STIEGMANN SR350 | 4.50 (115) | 15 |
| H250 & H252 | 4.50 (115) | 15 |
| AVTRON H335M | 4.50 (115) | 10 |
| AVTRON A185 | 4.50 (115) | 10 |
| AVTRON H35 | 4.50 (115) | 5 |
| AVTRON H67 | 4.50 (115) | 10 |
| HS138 | 4.50 (115) | 5 |
| TS2014 | 4.50 (115) | 10 |
| AVTRON H345 | 4.50 (115) | 15 |
| DYNAPAR H3038M | 4.50 (115) | 15 |
| AVTRON A1532 | 4.50 (115) | .7 |



| TACH. MODEL | XL Inche(s)(mm) | LBS. |
|---------------------|-----------------|------|
| BEL H335 | 2.88 (74) | 7 |
| NORTHSTAR H335M | 3.31 (84) | 10 |
| DYNAPAR H20 | 3.75 (95) | 15 |
| DYNAPAR H335, H3038 | 2.88 (74) | 7 |
| H02XTD | 9.75 (248) | 35 |
| EM25 | 7.90 (201) | 35 |
| AVTRON H335M | 4.19 (106) | 2 |
| STIEGMANN SRK50 | 3.75 (95) | 1 |
| DYNAPAR H320 | 2.00 (.51) | 1 |
| NORTHSTAR H3035 | 2.81 (71) | 2 |
| NORTHSTAR H3038 | 3.30 (84) | 5 |
| AVTRON A1532 | 1.93 (49) | .7 |



950-671919

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

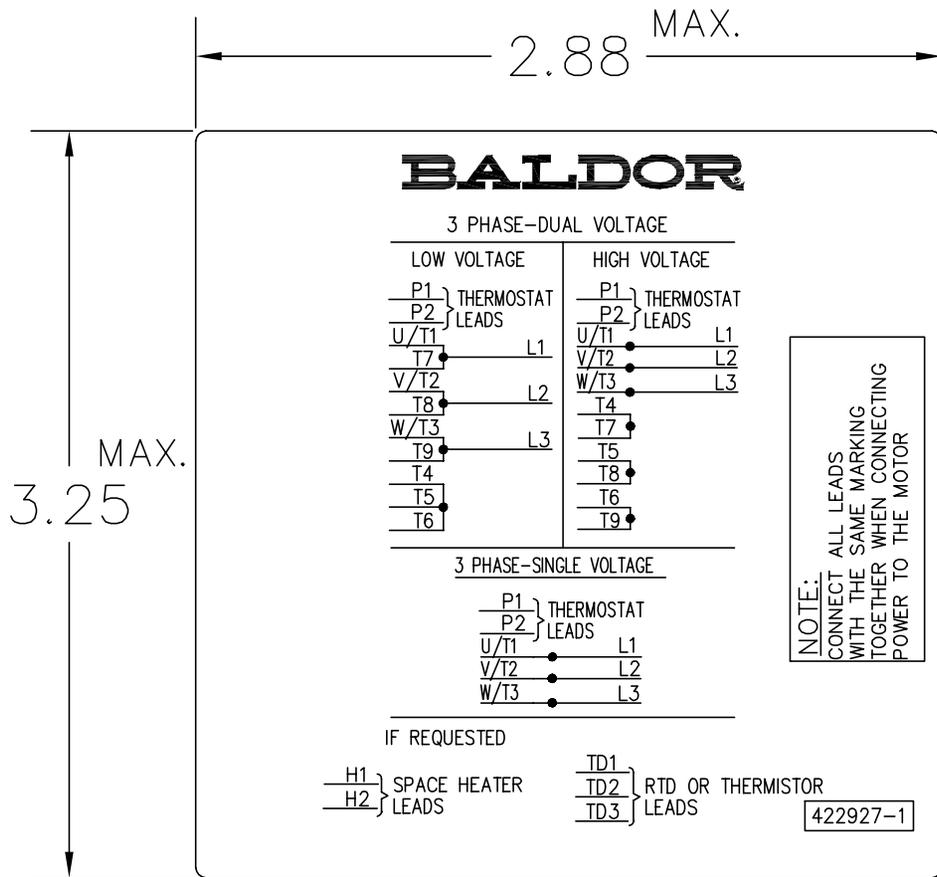
| | | |
|---|----------------------|-------------------|
| REV. DESC: REVISE "EXCLUDES" NOTE ON TEAO-BC MOTORS | VERSION: 22 | TDR: 000001040214 |
| REV. LTR: X | FILE: \RGG\00003\694 | BY: RGGWT |
| REVISED: 01:53:13 08/18/2017 | MTL: - | |

BALDOR

DIM SHT TACH DIM NEMA FL180 - FL440 IEC FDL112 - FDL280

SH 1 of 1

422927-001



NOTE:
DATA TO BE SIZED
SO THAT IT FITS INTO
MATERIAL DECAL
DIMENSIONS. MAKE
LETTERS & NUMBERS
AS LARGE AS POSSIBLE.

MATERIAL: CERAMATIC DGF-P4
PERMA GRIP ADHESIVE

ALL LETTERS, NUMBERS
AND LINES TO BE BLACK
ON WHITE BACKGROUND.

422927-001

| | | |
|---|------------------------------|-------------------|
| REV. DESC: CHANGE BACKGROUND COLOR FROM GOLD TO WHITE | | |
| REV. LTR: B | VERSION: 02 | TDR: 000000788708 |
| FILE: \RGG\00000\203 | REVISED: 08:09:29 03/04/2013 | |
| MTL: - | BY: RGGWT | |

BALDOR

EXTERNAL CONNECTION LABEL

SH 1 of 1