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# Customer information packet

## ZDBRPM25754

75HP, 1750, 460V, FL2586, TEBC, F3

## Specifications

|                               |                         |
|-------------------------------|-------------------------|
| Enclosure                     | TEBC                    |
| Frame                         | FL2586Z                 |
| Frame Material                | Exposed Laminations     |
| Frequency                     | 60.00 Hz                |
| Output @ Frequency            | 75.000 HP @ 60 HZ       |
| Phase                         | 3                       |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ        |
| Voltage @ Frequency           | 460.0 V @ 60 HZ         |
| Agency Approvals              | CCSA US                 |
| Auxiliary Box                 | NO AUXILLARY BOX        |
| Base Indicator                | Rigid                   |
| Bearing Grease Type           | Polyrex EM (-20F +300F) |
| Current @ Voltage             | 95.000 A @ 460.0 V      |
| Duty Rating                   | CONT                    |
| Feedback Device               | ENCODER                 |
| Frame Prefix                  | FL                      |
| Heater Indicator              | No Heater               |
| High Voltage Full Load Amps   | 95.0 a                  |
| Insulation Class              | H                       |
| IP Rating                     | NONE                    |
| Motor Standards               | NEMA                    |
| Mounting Arrangement          | F3                      |
| Overall Length                | 40.33 IN                |
| Product Family                | General Industrial      |
| Pulley End Bearing Type       | Ball                    |
| Pulley Face Code              | Standard                |
| Service Factor                | 1.00                    |
| Shaft Diameter                | 2.124 IN                |
| Shaft Ground Indicator        | Shaft Grounding         |
| Shaft Rotation                | Reversible              |
| Speed                         | 1775 rpm                |
| Starting Method               | Full Voltage            |

## Part detail

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | L3272A     |
| Layout       | 617581-410 |
| Eff. date    | 01-19-2022 |
| CD Diagram   | 422927-001 |
| Poles        | 04         |
| Leads        |            |
| Proprietary  | False      |
| Created date | 11-09-2021 |

|                          |                            |
|--------------------------|----------------------------|
| Thermal Device - Bearing | None                       |
| Thermal Device - Winding | Normally Closed Thermostat |

## Nameplate

000613006MY

|            | DUTY        | HP             | RPM         | AMPS         | VOLTS         | HZ      |           |
|------------|-------------|----------------|-------------|--------------|---------------|---------|-----------|
|            | CONT        | 75             | 1775        |              | 95            | 460     | 60        |
|            | CONT        | 75             | 3545        |              | 88            | 460     | 120       |
|            |             |                |             |              |               |         |           |
|            |             |                |             |              |               |         |           |
| CAT.NO.    | ZDBRPM25754 |                | SPEC. NO.   |              | F25-A000-0411 |         |           |
| SER.NO     |             |                | FR          | FL2586Z      | INSUL         | H       |           |
| PH.        | 3           | MAX SAFE SPEED |             | 5000         | AMB.          | 40      | MIN. AMB. |
| DESIGN NO. | L3272A      |                | TYPE        |              | ENCL.         | TEAO-BC |           |
| S.F.       | 1.00        |                | D.E. BRG.   | 65BC03JPP30A |               |         |           |
| ENCL MOD   |             |                | O.D.E. BRG. | 50BC03JPP30A |               |         |           |
|            | IP44        |                |             |              |               |         |           |
|            |             |                |             |              |               |         |           |

|             |        |              |      |                           |           |      |       |    |      |      |     |                         |
|-------------|--------|--------------|------|---------------------------|-----------|------|-------|----|------|------|-----|-------------------------|
| REL S.O.    | -      | VOLTS        | 460  | ENCLOSURE                 | TEBC      | WYE  | CONN  | EQ | CKT  | OHMS | PER | PHASE                   |
| FRAME       | FL2586 | AMPS         | 96   | MAX SAFE                  | RPM       | 5000 |       |    |      |      |     | (AT BASE RATING, 25 °C) |
| HP          | 75     | DUTY         | CONT | IM (AMPS)                 | 48        | R1   | .0443 | X1 | .229 |      |     |                         |
| BASE SPEED  | 1775   | S.F.         | 1.0  | P.F. @WL/FL               | .045/.804 | R2   | .0311 | X2 | .333 |      |     |                         |
| PHASE/HERTZ | 3/60   | AMB °C/INSUL | 40/H | WK2 (lb-ft <sup>2</sup> ) | 4.9       |      |       | XM | 5.73 |      |     |                         |

RATED FULL LOAD DATA

|            | RPM  | HP   | TORQUE<br>LB-FT | FUND<br>VOLTS | FREQ-HZ | AMPS |
|------------|------|------|-----------------|---------------|---------|------|
| BASE SPEED | 1776 | 75.0 | 222             | 460           | 60      | 95.3 |
| MAX SPEED  | 3547 | 75.1 | 111             | 460           | 120     | 87.6 |
| MIN SPEED  | 0    | 0    | 222             | 12.2          | .814    | 95.3 |

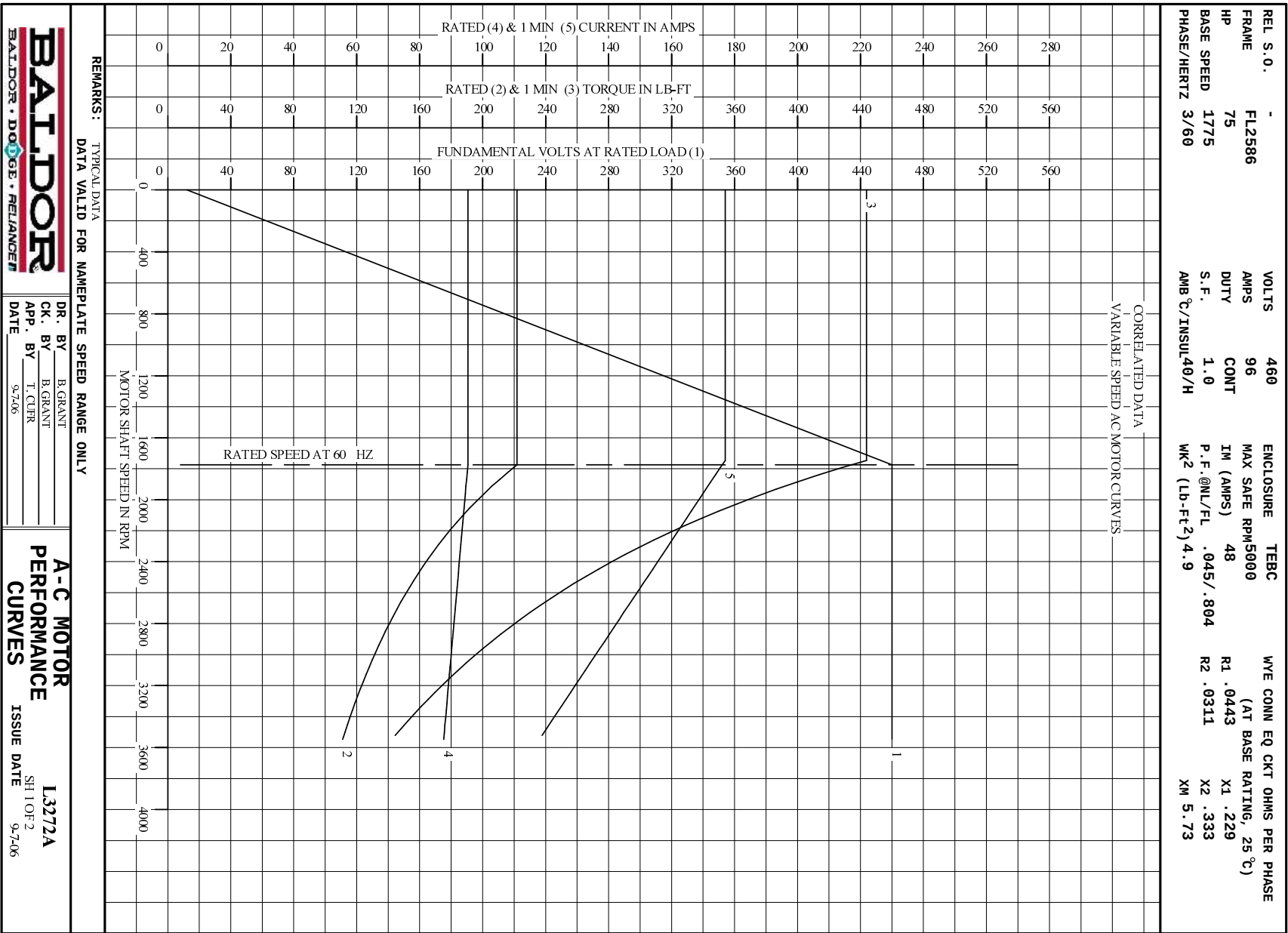
LOAD PERFORMANCE AT BASE SPEED

|           | RPM  | HP   | TORQUE<br>LB-FT | FUND<br>VOLTS | FREQ-HZ | AMPS |
|-----------|------|------|-----------------|---------------|---------|------|
| NO LOAD   | 1800 | 0    | 0               | 460           | 60      | 46.6 |
| 1/4       | 1794 | 18.8 | 55              | 460           | 60      | 52.1 |
| 1/2       | 1788 | 37.5 | 110             | 460           | 60      | 62.9 |
| 3/4       | 1782 | 56.2 | 166             | 460           | 60      | 77.9 |
| FULL LOAD | 1776 | 75.0 | 222             | 460           | 60      | 95.3 |
| 0/L       | 1746 | 148  | 444             | 460           | 60      | 177  |

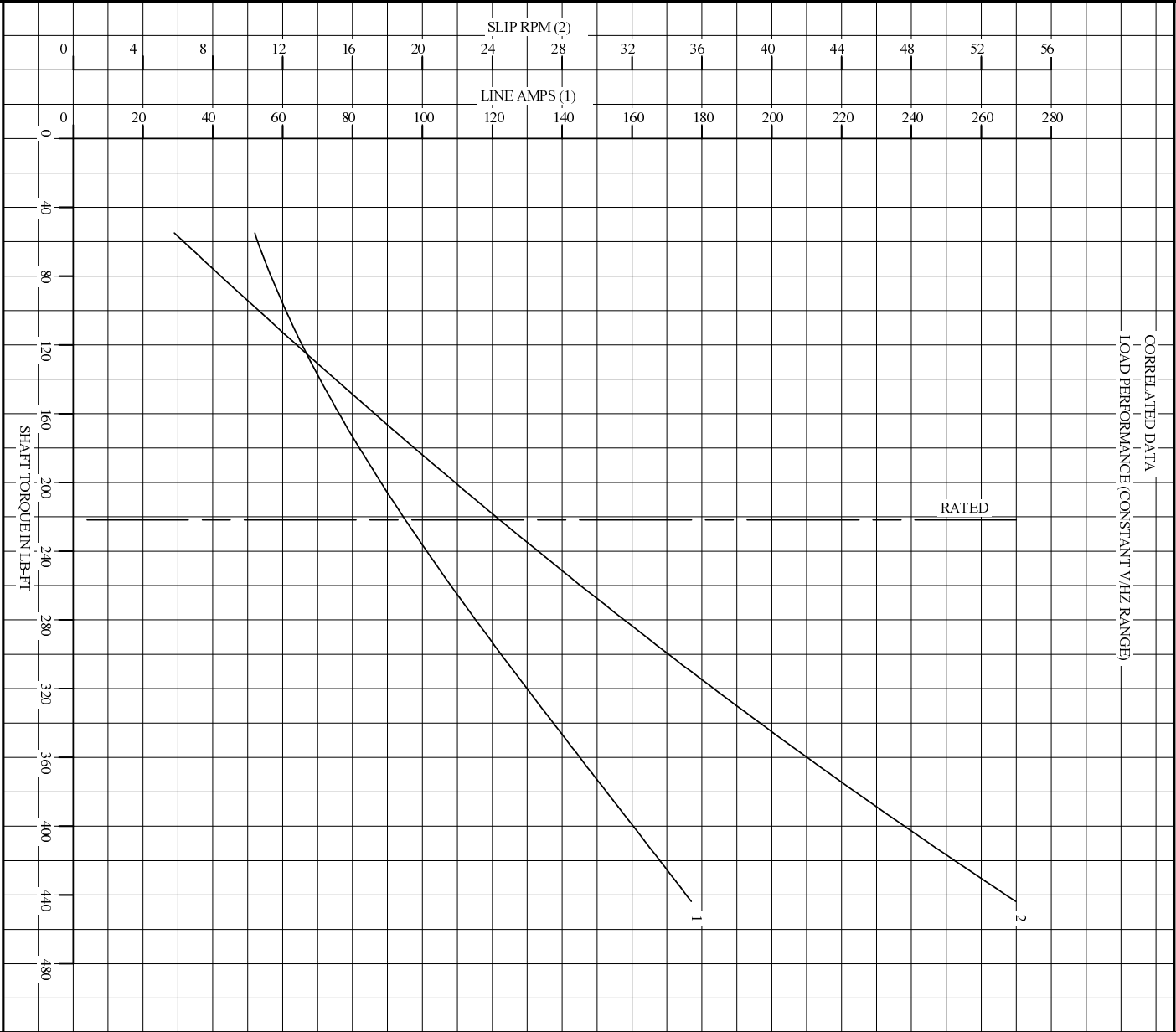
| BLOWER<br>DATA | VOLTS | PH/HZ | FL AMPS | LR AMPS | FRAME | CFM |
|----------------|-------|-------|---------|---------|-------|-----|
|                |       |       |         |         |       |     |

REMARKS: TYPICAL DATA  
CORRELATED DATA

|                                                                                   |          |  |                                  |          |  |
|-----------------------------------------------------------------------------------|----------|--|----------------------------------|----------|--|
|  |          |  | A-C MOTOR<br>PERFORMANCE<br>DATA |          |  |
| DR. BY                                                                            | B. GRANT |  | CK. BY                           | B. GRANT |  |
| APP. BY                                                                           | T. CUEP  |  | DATE                             | 9-7-06   |  |
|                                                                                   |          |  | L3272A<br>ISSUE DATE 9-7-06      |          |  |



|             |        |              |      |                           |           |                         |         |                |
|-------------|--------|--------------|------|---------------------------|-----------|-------------------------|---------|----------------|
| REL S.O.    | -      | VOLTS        | 460  | ENCLOSURE                 | TEBC      | WYE CONN                | EQ CKT  | OHMS PER PHASE |
| FRAME       | FL2586 | AMPS         | 96   | MAX SAFE RPM              | 5000      | (AT BASE RATING, 25 °C) |         |                |
| HP          | 75     | DUTY         | CONT | IM (AMPS)                 | 48        | R1 .0443                | X1 .229 |                |
| BASE SPEED  | 1775   | S.F.         | 1.0  | P.F. @NL/FL               | .045/.804 | R2 .0311                | X2 .333 |                |
| PHASE/HERTZ | 3/60   | AMB °C/INSUL | 40/H | WK2 (Lb-Ft <sup>2</sup> ) | 4.9       |                         | XW 5.73 |                |

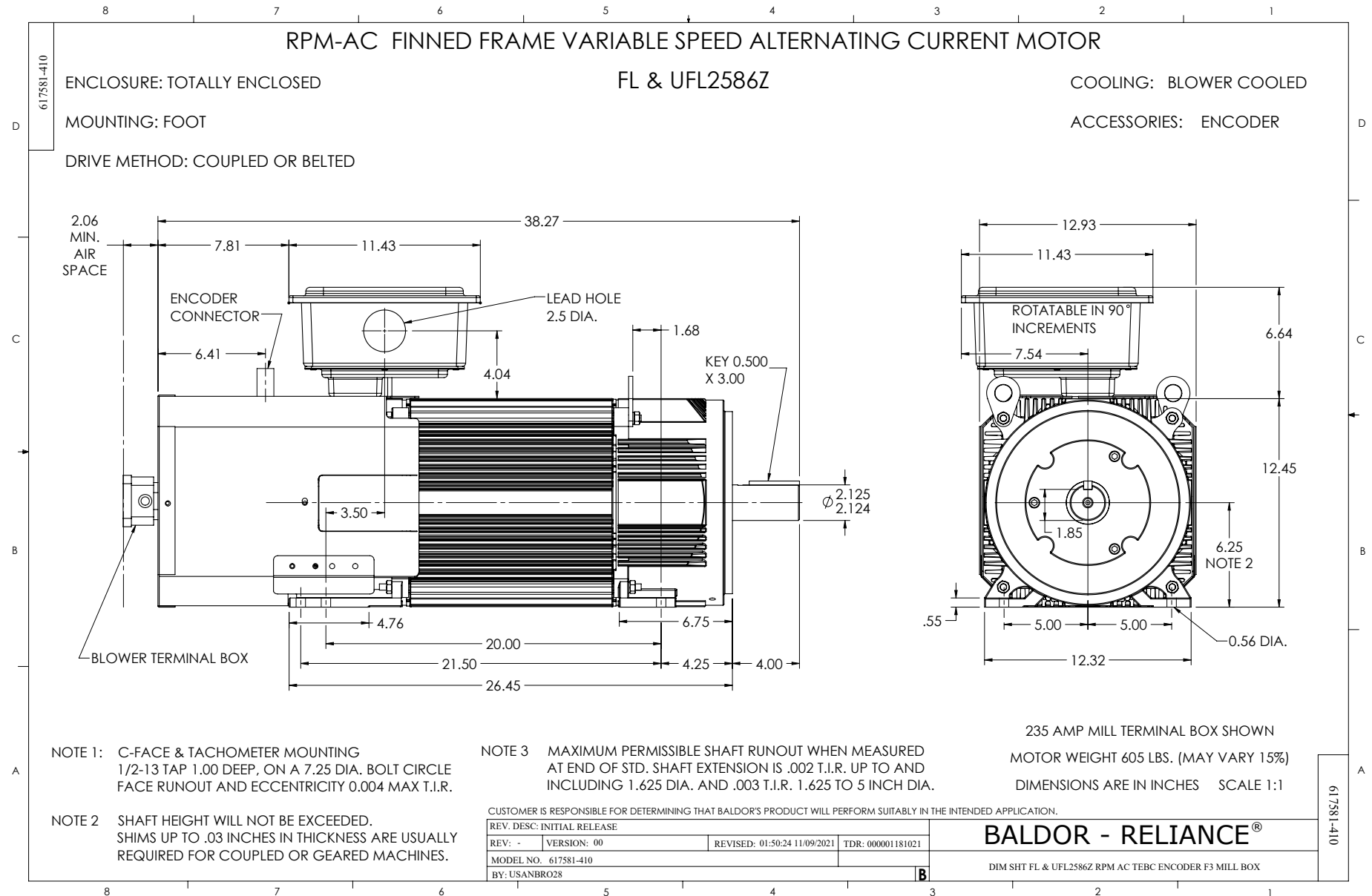


REMARKS: TYPICAL DATA  
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



DR. BY B. GRANT  
CK. BY B. GRANT  
APP. BY T. CURR  
DATE 9-7-06

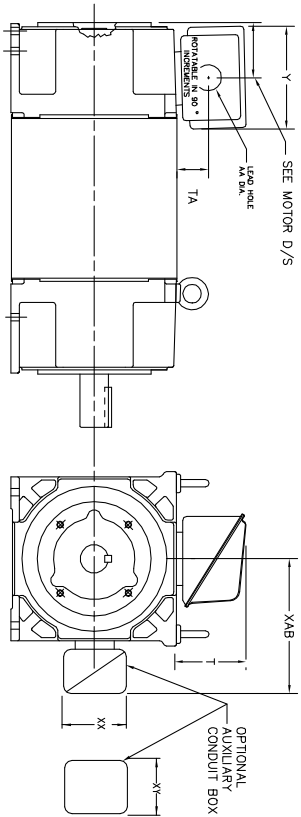
A-C MOTOR  
PERFORMANCE  
CURVES  
L3272A  
SH 2 OF 2  
ISSUE DATE 9-7-06





INDUSTRIAL ALTERNATING CURRENT MOTORS  
RPM AC

STEEL, CAST IRON, MILL AND TERMINAL BOARD CONDUIT BOX DIMENSIONS  
NEMA FRAMES RL210 thru RL280 and IEC FRAMES RDL132 thru RDL180  
NEMA FRAMES FL180 thru FL280 and IEC FRAMES FDL112 thru FDL180



| FRAME         | TYPE      | TERMINAL STRIP | AMPS | C/BOX      | Y    | TA   | T    | AA        |
|---------------|-----------|----------------|------|------------|------|------|------|-----------|
| FL180         | STEEL     | N              | 40   | 706320003A | 5.00 | 1.62 | 3.00 | 1.12      |
| FL180         | STEEL     | Y/N            | 75   | 706320003A | 6.12 | 2.36 | 4.38 | 1.75/2.00 |
| FL180         | STEEL     | N              | 208  | 706320007A | 6.62 | 2.00 | 7.00 | 2.50/2.00 |
| FL180         | CAST IRON | Y/N            | 100  | 706320004C | 6.75 | 2.50 | 4.38 | 1.0/1.75  |
| FL180 & FDL11 | MILL      | Y              | 100  | 706310056A | 7.75 | 2.30 | 4.40 | PG29/PG16 |

|               |           |     |     |            |       |      |      |           |
|---------------|-----------|-----|-----|------------|-------|------|------|-----------|
| FL210 & RL210 | STEEL     | N   | 61  | 075452000B | 6.34  | 2.00 | 4.12 | 1.75      |
| FL210 & RL210 | STEEL     | N   | 121 | 075452001A | 7.69  | 2.38 | 5.25 | 1.94      |
| FL210 & RL210 | STEEL     | N   | 306 | 706320016A | 9.00  | 4.12 | 8.44 | 4.59      |
| FL210 & RL210 | CAST IRON | N   | 110 | 075460062B | 7.25  | 2.50 | 5.25 | 1.5 TAP   |
| FL210 & RL210 | MILL      | Y   | 100 | 706310229A | 7.75  | 2.30 | 4.40 | PG29/PG16 |
| FL210 & RL210 | MILL      | Y   | 160 | 706310056A | 9.00  | 3.06 | 5.40 | PG36/PG16 |
| FL210 & RL210 | MILL      | Y/N | 235 | 706310056B | 11.42 | 4.00 | 6.72 | 2.50      |

|               |           |     |     |            |       |      |       |           |
|---------------|-----------|-----|-----|------------|-------|------|-------|-----------|
| FL250 & RL250 | STEEL     | N   | 61  | 075452000B | 6.34  | 2.00 | 4.12  | 1.75      |
| FL250 & RL250 | STEEL     | N   | 121 | 075452001A | 7.69  | 2.38 | 5.25  | 1.94      |
| FL250 & RL250 | STEEL     | N   | 306 | 706320016A | 9.00  | 4.12 | 8.44  | 4.59      |
| FL250 & RL250 | CAST IRON | N   | 110 | 075460062B | 7.25  | 2.50 | 5.25  | 1.5 TAP   |
| FL250 & RL250 | CAST IRON | N   | 210 | 706320013A | 10.50 | 4.88 | 9.00  | 4.0 TAP   |
| FL250 & RL250 | MILL      | Y   | 100 | 706310229A | 7.75  | 2.30 | 4.40  | PG29/PG16 |
| FL250 & RL250 | MILL      | Y   | 160 | 706310056B | 9.00  | 3.06 | 5.40  | PG36/PG16 |
| FL250 & RL250 | MILL      | Y/N | 235 | 706310057A | 11.42 | 4.00 | 6.72  | 2.50      |
| FL250 & RL250 | MILL      | Y   | 235 | 706310063B | 14.39 | 7.43 | 12.15 | BLANK     |

|               |           |     |     |            |       |      |       |           |
|---------------|-----------|-----|-----|------------|-------|------|-------|-----------|
| FL280 & RL280 | STEEL     | N   | 160 | 706320029A | 7.25  | 3.50 | 7.06  | 2.50      |
| FL280 & RL280 | STEEL     | N   | 306 | 706320016A | 9.00  | 4.12 | 8.44  | 4.59      |
| FL280 & RL280 | STEEL     | N   | 500 | 702658001C | 14.62 | 7.56 | 12.70 | 5.00      |
| FL280 & RL280 | CAST IRON | N   | 140 | 706320012B | 9.25  | 4.81 | 8.56  | 3.0 TAP   |
| FL280 & RL280 | CAST IRON | N   | 210 | 706320013A | 10.50 | 4.88 | 9.00  | 4.0 TAP   |
| FL280 & RL280 | CAST IRON | N   | 510 | 706320014D | 15.00 | 7.56 | 12.81 | 5.0 TAP   |
| FL280 & RL280 | MILL      | Y   | 100 | 706310056A | 7.75  | 2.30 | 4.40  | PG29/PG16 |
| FL280 & RL280 | MILL      | Y   | 160 | 706310056B | 9.00  | 3.06 | 5.40  | PG36/PG16 |
| FL280 & RL280 | MILL      | Y/N | 235 | 706310057A | 11.42 | 4.00 | 6.72  | 2.50      |
| FL280 & RL280 | MILL      | Y   | 400 | 706310063B | 14.39 | 7.43 | 12.15 | BLANK     |

| FRAME SIZE              | YAB  | XA   | XY   | PART NUMBER | FRAME SIZE              | YAB   | XA   | XY   | PART NUMBER |
|-------------------------|------|------|------|-------------|-------------------------|-------|------|------|-------------|
| FL210/FL180/RL210/RL182 | 7.38 | 4.25 | 4.25 | 602007-26-A | FL210/FL180/RL210/RL132 | 10.88 | 8.00 | 8.00 | 706310-3-B  |
| FL250/FL160/RL250/RL160 | 8.44 | 4.25 | 4.25 | 602007-26-A | FL250/FL160/RL250/RL132 | 11.88 | 8.00 | 8.00 | 706310-3-B  |
| FL280/FL180/RL280/RL180 | 9.12 | 4.25 | 4.25 | 602007-26-A | FL280/FL180/RL280/RL180 | 12.62 | 8.00 | 8.00 | 706310-3-B  |

- (1) 1/4" CONDUIT.
- (2) 1/4" PIPE TAP.
- (3) CUSTOMER TO PROVIDE HOLE PER CONDUIT.
- (4) 1/2" DIA. OR 1" DIA. DIA. OR 1" DIA. DIA.

TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM  
TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, V-1, V-4, V-5, V-7,  
OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.

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

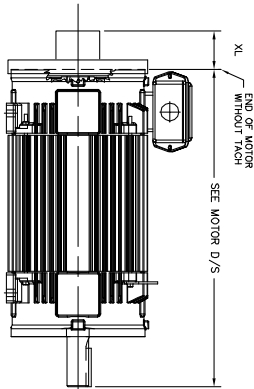
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| REV. LTR: F                         | VERSION: 06                  |
| FILE: \\RGG\00003\692               | REVISED: 11:08:56 10/26/2021 |
| MTL: -                              | BY: RCGRWM                   |

BALDOR - RELIANCE®

DIM SHT NEMA RL210-RL280 FL180-FL280 IEC RDL132-RDL180

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

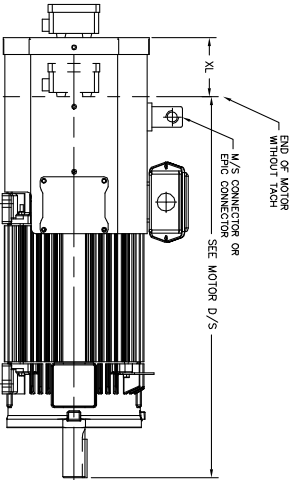
DPV, DPSV, TEPV, TESV, TENV & TEO-PB  
IC06, IC17, IC37, IC410, & IC416-PB



\* THIS DIMENSION INCLUDES COVER FOR X/Y MOTOR.

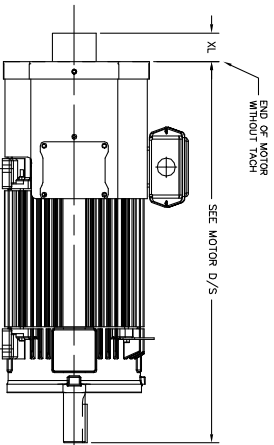
| TACH MODEL          | XL Inches(mm)  | LBS. |
|---------------------|----------------|------|
| BEL DR DYNAPAR HS35 | 2.88 (74)      | 5    |
| DYNAPAR H20         | 7.50 (191) MAX | 10   |
| NORHSTAR HS35M      | 3.31 (84)      | 10   |
| NORHSTAR ST67       | 2.88 (74)      | 5    |
| DYNAPAR HS6         | 10.56 (268)    | 40   |
| AVTRON M3 DR M4     | 3.62 (92)      | 10   |
| TAMAGAMA TS5013(XT) | 6.00 (152)     | 10   |
| NORHSTAR ST56       | 2.88 (74)      | 5    |
| NORHSTAR ST85       | 2.00 (51)      | 5    |
| BEL T820            | 10.19 (259)    | 15   |
| TAMAGAMA TS2151     | 6.61 (167)     | 15   |
| BEL T825            | 7.50 (191)     | 15   |
| DYNAPAR HS20        | 2.00 (50.8)    | 5    |
| DYNAPAR X25         | 12.88 (327)    | 10   |
| STEGMANN SRM25      | 7.25 (184.4)   | 10   |
| NORHSTAR HS025      | 3.00 (76.2)    | 10   |
| HEIDENHAIN EDW425   | 2.5 (63.5)     | 5    |
| AVTRON HS35M        | 4.19 (106.4)   | 5    |
| HEIDENHAIN ERN480   | 5.00 (76.2)    | 5    |
| DYNAPAR H025        | 7.00 (177.8)   | 10   |
| DYNAPAR H02         | 3.62 (92.1)    | 5    |
| AVTRON M285         | 2.54 (64.5)    | 9    |
| AVTRON M850         | 2.54 (64.5)    | 9    |
| AVTRON AV56         | 4.50 (115)     | 15   |
| HS028               | 3.30 (84)      | 5    |
| HS025               | 3.30 (84)      | 2    |
| NORHSTAR R18        | 3.25 (83)      | 15   |
| DYNAPAR H0625       | 5.88 (150)     | 10   |
| AVTRON AA485        | 9.50 (241)     | 18   |
| AVTRON AV32         | 1.93 (49)      | 7    |
| DYNAPAR RH25        | 3.80 (97)      | 1.6  |
| AVTRON AV85         | 2.40 (61.5)    | 3    |

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



| TACH MODEL          | XL Inches(mm) | LBS. |
|---------------------|---------------|------|
| BEL DR DYNAPAR HS35 | 4.50 (115)    | 10   |
| DYNAPAR H20         | 4.50 (115)    | 15   |
| AVTRON M3 DR M4     | 4.50 (115)    | 10   |
| NORHSTAR HS35M      | 4.50 (115)    | 15   |
| NORHSTAR ST56       | 4.50 (115)    | 10   |
| NORHSTAR ST67       | 4.50 (115)    | 10   |
| NORHSTAR S185       | 4.50 (115)    | 5    |
| NORHSTAR TS5013     | 4.50 (115)    | 10   |
| DYNAPAR HS20        | 4.50 (115)    | 15   |
| STEGMANN SRM25      | 4.50 (115)    | 10   |
| STEGMANN SRM50      | 4.50 (115)    | 3    |
| HE20 & HE56         | 4.50 (115)    | 15   |
| AVTRON HS35M        | 4.50 (115)    | 10   |
| AVTRON AV85         | 4.50 (115)    | 10   |
| AVTRON M56          | 4.50 (115)    | 5    |
| AVTRON AV67         | 4.50 (115)    | 10   |
| HS038               | 4.50 (115)    | 5    |
| TS2014              | 4.50 (115)    | 10   |
| AVTRON HS45         | 4.50 (115)    | 15   |
| DYNAPAR HST38M      | 4.50 (115)    | 15   |
| AVTRON AV32         | 4.50 (115)    | 7    |
| AVTRON AV850        | 4.50 (115)    | 9    |

TEFC, IC411



| TACH MODEL          | XL Inches(mm) | LBS. |
|---------------------|---------------|------|
| BEL HS35            | 2.88 (74)     | 7    |
| NORHSTAR HS35M      | 3.31 (84)     | 10   |
| DYNAPAR H20         | 3.75 (95)     | 15   |
| DYNAPAR HS35, HS028 | 2.88 (74)     | 7    |
| H00(XT)             | 9.75 (248)    | 35   |
| EDW425              | 7.90 (201)    | 35   |
| AVTRON HS35M        | 4.19 (106)    | 2    |
| STEGMANN SRM50      | 3.75 (95)     | 1    |
| DYNAPAR HS20        | 2.00 (51)     | 1    |
| NORHSTAR HS05       | 2.81 (71)     | 2    |
| NORHSTAR HS08       | 3.30 (84)     | 5    |
| AVTRON AV32         | 1.93 (49)     | 7    |

550-6677919

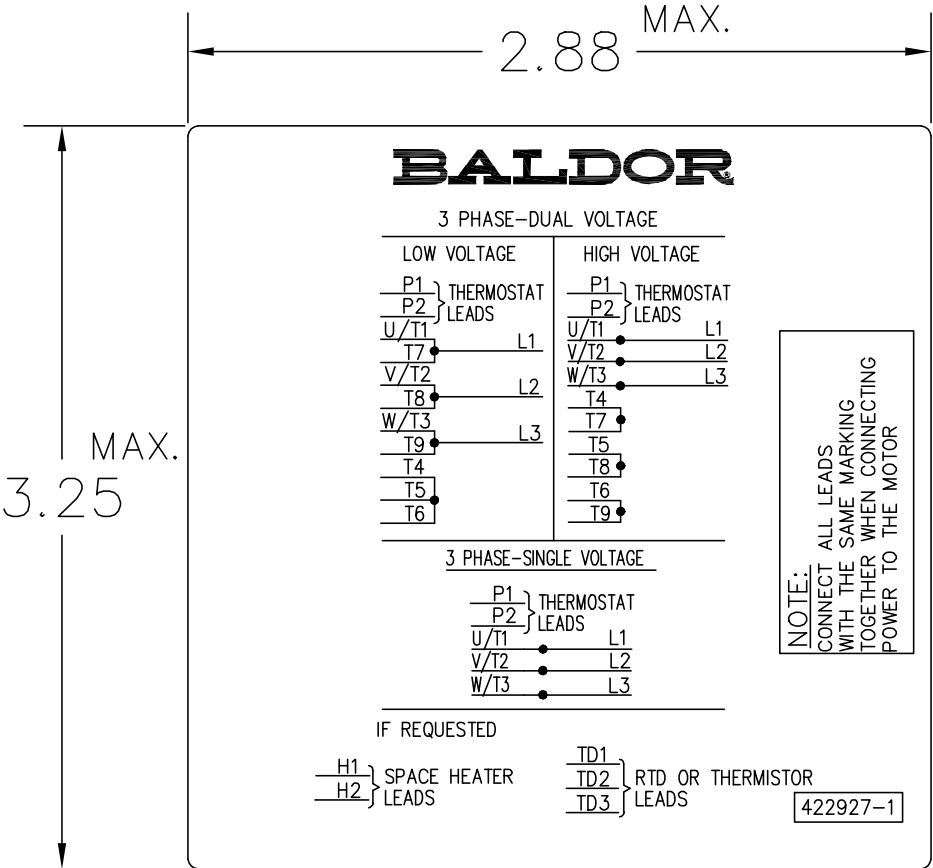
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

|                      |                              |                   |
|----------------------|------------------------------|-------------------|
| REV. DESC: ADD AV85  | VERSION: 25                  | TDR: 000001111552 |
| REV. LTR: AA         | REVISED: 03:54:15 06/26/2019 | BY: RGRWM         |
| FILE: \RGG\00003\694 |                              |                   |
| MTL: -               |                              |                   |

BALDOR - RELIANCE®

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.

NOTE:  
CONNECT ALL LEADS  
WITH THE SAME MARKING  
TOGETHER WHEN CONNECTING  
POWER TO THE MOTOR

422927-1

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