

# PRODUCT INFORMATION PACKET



Model No: 182A  
Catalog No: 182A

Condenser Fan Motor, 1/10 HP, 1 Ph, 60 Hz, 208-230 V, 1075 RPM, 1 Speed, 48 Frame, TEAO



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### Nameplate Specifications

|                    |            |                     |                           |
|--------------------|------------|---------------------|---------------------------|
| Output HP          | 1/10 Hp    | Output KW           | 0.07 kW                   |
| Frequency          | 60 Hz      | Voltage             | 208-230 V                 |
| Current            | 0.7 A      | Speed               | 1075 rpm                  |
| Service Factor     | 1          | Phase               | 1                         |
| Duty               | Air Over   | Insulation Class    | B                         |
| Frame              | F48Y       | Enclosure           | Totally Enclosed Air Over |
| Thermal Protection | Automatic  | Ambient Temperature | 60 °C                     |
| UL                 | Recognized | CSA                 | Y                         |
| CE                 | N          | Number of Speeds    | 1                         |

### Technical Specifications

|                   |                           |                       |                 |
|-------------------|---------------------------|-----------------------|-----------------|
| Electrical Type   | Permanent Split Capacitor | Starting Method       | Across The Line |
| Poles             | 6                         | Rotation              | Reversible      |
| Mounting          | Extended Studs            | Motor Orientation     | Any             |
| Drive End Bearing | Ball                      | Opp Drive End Bearing | Ball            |
| Frame Material    | Rolled Steel              | Shaft Type            | Flat            |
| Overall Length    | 10.62 in                  | Frame Length          | 3.13 in         |
| Shaft Diameter    | 0.500 in                  | Shaft Extension       | 6.0 in          |
| Outline Drawing   | 182A-S01                  | Connection Drawing    | 614131-242      |

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GENERAL INFORMATION:

SHAFT RUNOUT: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION

BEARINGS: BALL

MOUNTING POSITION: ALL ANGLE

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 036)

LEADS: NO. 18 GA., .06 [1.5] THK. PVC 105°C INSUL.

REVERSING PLUGS: NO. 18 GA., .03 [.8] THK. XLP 125°C INSUL.

GROUND LEAD: NO. 18 GA., .03 [.8] THK. (GREEN/YELLOW) INSUL.

GROUND LEAD (TERMINAL AT MOTOR MUST NOT PROTRUDE BEYOND MOTOR O.D.)

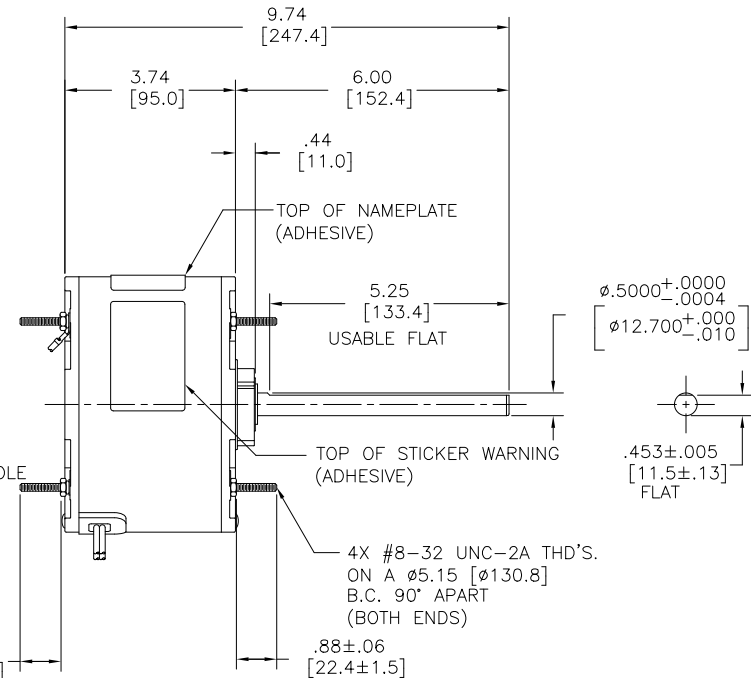
REV.  
ROT. $\phi 5.70$   
[ $\phi 144.8$ ]  
MAX.

LEAD LENGTH

LEAD LENGTH

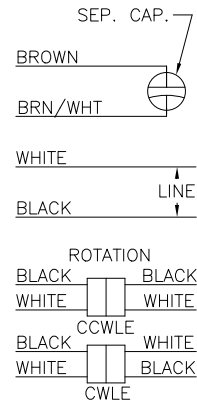
(.90)  
[(22.8)]

4X 45°

(2X) DRAIN HOLE  
PLUGGEDREVERSING PLUG (MOTOR TO  
BE SHIPPED CONNECTED FOR  
CCWLE ROTATION.)

## NAMEPLATE DATA:

MODEL NO.: F48Z26A01  
CUST. P/N: 182A  
HP: 1/10  
ROT.: REVERSIBLE  
RPM: 1075  
TYPE: UF  
FRAME: 48Y  
VOLTS: 208-230  
PH: 1  
AMPS: 0.7  
HZ: 60  
INS.: B  
AMB.: 60° C  
DUTY: AIR OVER  
CAP.: 5 MFD/370 V  
ENCL: ENCLOSED  
UL LOGO  
CSA LOGO  
THERMALLY PROTECTED

EXTERNAL CONNECTION  
DIAGRAM

614131-242

| PERFORMANCE<br>CURVE NO. | TORQUE @ 1075<br>RPM (25°C) | APPROVED<br>SAMPLE | UL COMPONENT<br>FILE # | CCN # | CSA<br>FILE # | CLASS # |
|--------------------------|-----------------------------|--------------------|------------------------|-------|---------------|---------|
| C32700                   | 9.5 OZ. FT.                 | 0604341A           | E46412                 | PRGY2 | LR43341       | 4211-01 |

|                          |                        |                             |
|--------------------------|------------------------|-----------------------------|
| GREEN/YELLOW<br>(GROUND) | 11.0/13.0<br>[279/330] | #10 EYELET                  |
| BLACK/WHITE              | 3.0/5.0<br>[76/127]    | REVERSING PLUG              |
| BROWN                    | 25.0/27.0<br>[635/686] | .25 [6.4] FEMALE<br>SPADE   |
| BROWN/WHITE              | 25.0/27.0<br>[635/686] | .25 [6.4] FEMALE<br>SPADE   |
| WHITE                    | 25.0/27.0<br>[635/686] | .25 [6.4] FEMALE<br>SPADE   |
| BLACK                    | 25.0/27.0<br>[635/686] | .25 [6.4] FEMALE<br>SPADE   |
| COLOR                    | LENGTH                 | TERMINAL OR<br>STRIP LENGTH |

## LEAD DATA

|                      |             |            |
|----------------------|-------------|------------|
| DRAWING REVISION     | REVISION BY | DATE       |
| ECO                  | J. RUPERT   | 08-24-2022 |
| ECR-0220389          | J. RUPERT   | 08-24-2022 |
| ECO DESCRIPTION      |             |            |
| REVISED FOR UP ISSUE |             |            |

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|                  |          |
|------------------|----------|
| MAIN FRAME - OLE | ENCLOSED |
| END FRAME - OLE  | ENCLOSED |
| MAIN FRAME - LE  | ENCLOSED |
| END FRAME - LE   | ENCLOSED |

## ENCLOSURE

|                           |            |
|---------------------------|------------|
| DRAWN BY:                 | J. RUPERT  |
| DATE:                     | 04-26-2011 |
| APPROVED BY:              | J. RUPERT  |
| DATE:                     | 04-26-2011 |
| REFERENCE                 |            |
| THIRD ANGLE<br>PROJECTION |            |



Regal Beloit America, Inc.

## DESCRIPTION

MODEL-RFHP-48FR  
OUTLINE

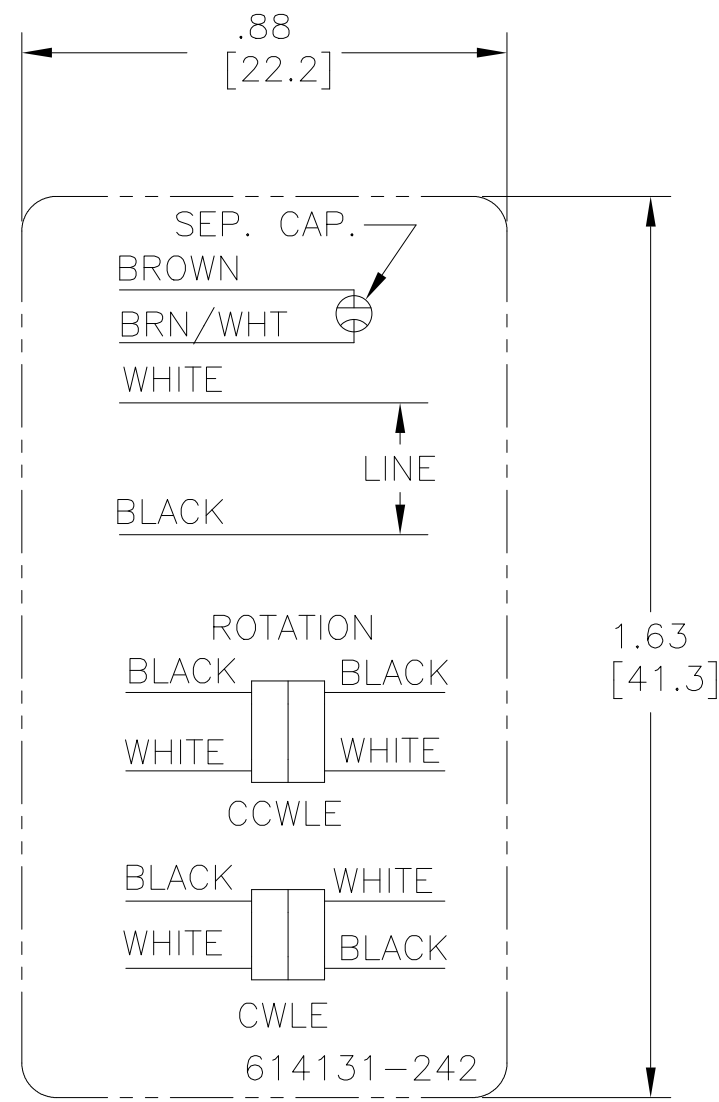
## MATERIAL

SIZE DWG NO

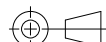
182A

## PROCESS/FINISH

SHEET  
1



- NOTES:
- 1. FOR USE WITH 614129 NAMEPLATE BLANK
  - 2. — — — — — INDICATES DIMENSION LIMITS
  - 3. DIE TO BE MADE FROM MASTER SUPPLIED BY REGAL REXNORD CORPORATION
  - 4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                    |                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                   |                   |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------|------------|
| DRAWING REVISION<br>H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | REVISION BY<br>J. RUPERT | DATE<br>03-16-2022 | TOLERANCES UNLESS OTHERWISE SPECIFIED<br>DEC. INCH mm ANGLE<br>.X ±0.1 [±2.5] ±0.5°<br>.XX ±0.02 [±0.51]<br>.XXX ±0.005 [±0.127]<br>.XXXX ±0.0005 [±0.0127]<br>REMOVE BURRS & BREAK SHARP EDGES .003/.015 [.076/.381] X 45°<br>CORNER FILLETS R.02 [.51]<br>MACHINED SURFACES 125/INCH mm 3.2/<br>mm SHOWN IN [BRACKETS] | DRAWN BY:<br>YL                                                                       | <div><div>REGAL™</div><div>Regal Beloit America, Inc.</div></div> |                   |            |
| ECO<br>NMR-0213140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | APPROVED BY<br>J. RUPERT | DATE<br>03-16-2022 |                                                                                                                                                                                                                                                                                                                          | DATE:<br>04-15-2011                                                                   | DESCRIPTION<br><div>CONNECTION DIAGRAM</div> <div>EXTERNAL</div>  |                   |            |
| ECO DESCRIPTION<br>REVISED FOR UP ISSUED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                    |                                                                                                                                                                                                                                                                                                                          | APPROVED BY:<br>HZ                                                                    |                                                                   |                   |            |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                    |                                                                                                                                                                                                                                                                                                                          | REFERENCE                                                                             |                                                                   |                   |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                    | THIRD ANGLE PROJECTION                                                                                                                                                                                                                                                                                                   |  | SIZE<br>A                                                         | DWG NO<br>4 of 11 | SHEET<br>1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                    |                                                                                                                                                                                                                                                                                                                          |                                                                                       | 614131-242                                                        |                   |            |

|                         |  |  |                                 |  |  |                     |  |  |
|-------------------------|--|--|---------------------------------|--|--|---------------------|--|--|
| TRACKING #: 10056933    |  |  | CUSTOMER: DISTRIBUTION SERVICES |  |  | DESCRIPTION: SYNC-0 |  |  |
| SBU: Heating & Air Cond |  |  | MODEL: 0604341A                 |  |  | TYPE: PSC           |  |  |
| ENGINEER: FRANK JIN     |  |  | FRAME: 48                       |  |  | BENCH: 1            |  |  |
| TECHNICIAN: TODD        |  |  | PHASES: 1                       |  |  | HP: 0.10            |  |  |
| TORQUE CELL: 50 inlb    |  |  | VOLTS: 230.0                    |  |  | ROTATION: CW        |  |  |
| NP RPM: 1075            |  |  | HERTZ: 60                       |  |  | BDT: 12.34          |  |  |
| # SPEEDS: 1             |  |  | RUN CAP: 5.00                   |  |  | LRA: 1.23           |  |  |
| MOTOR #: 1              |  |  | COMMENT1:                       |  |  | LRT: 4.41           |  |  |
| COMMENT 2:              |  |  | COMMENT 3:                      |  |  | COMMENT 4:          |  |  |

|             |       |       |                                          |  |  |  |  |  |
|-------------|-------|-------|------------------------------------------|--|--|--|--|--|
| Resistance: | Start | Main1 | Friction: -0.7407 ozft @ 200 RPM         |  |  |  |  |  |
|             | 03-02 | 01-02 | Friction + Wind: -1.1441 ozft @ 1080 RPM |  |  |  |  |  |
|             |       |       | Inertia: 0.0096 ozft                     |  |  |  |  |  |

|        |         |        |          |  |  |  |  |  |
|--------|---------|--------|----------|--|--|--|--|--|
| Spec   |         |        |          |  |  |  |  |  |
| Before | 116.722 | 65.509 | @23.3 °C |  |  |  |  |  |
| After  | 118.336 | 66.726 | @23.2 °C |  |  |  |  |  |

Down Results (Torque In ozft):

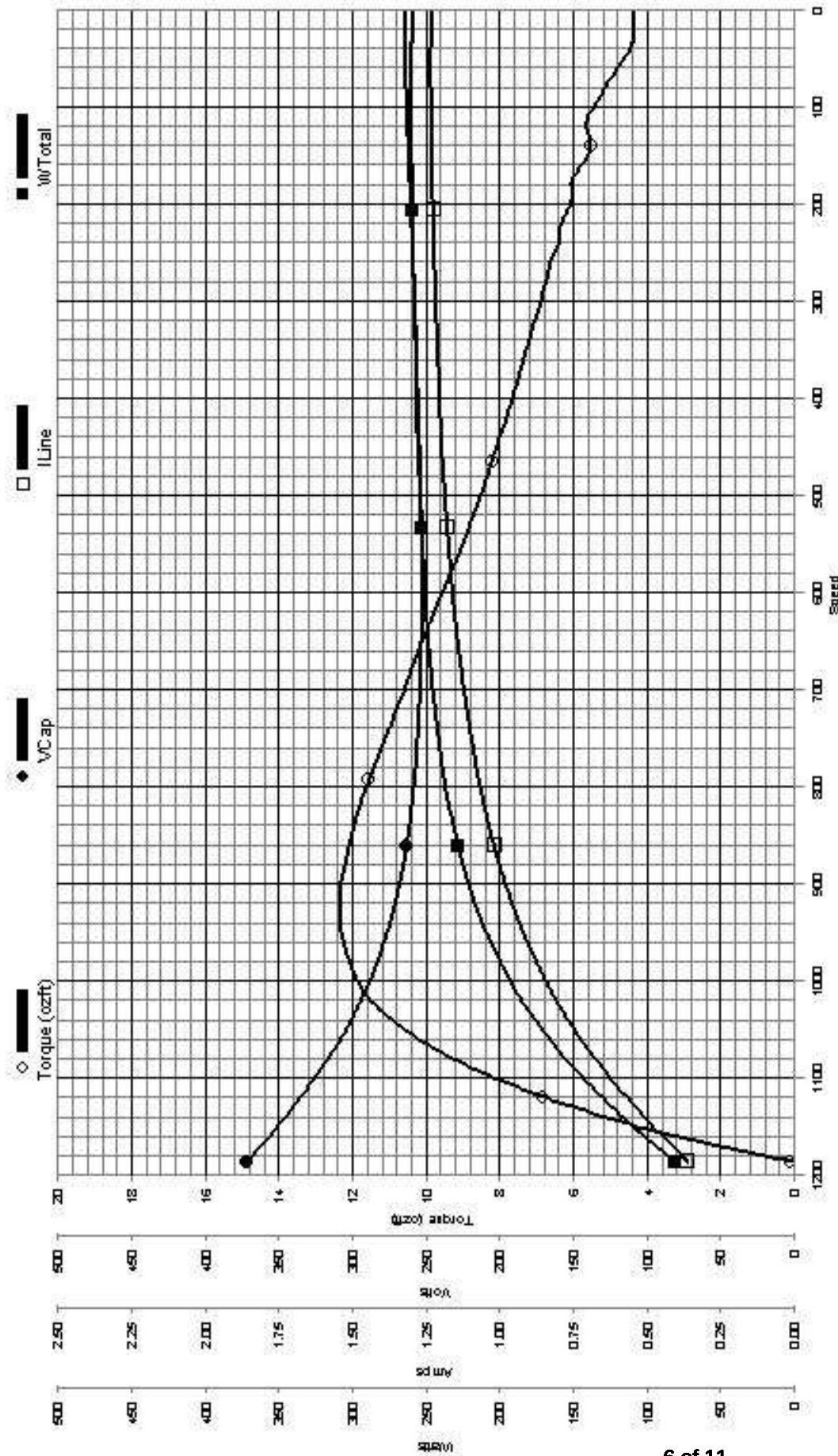
| % Load | Torque | RPM    | VLine | VCap  | VStart | ILine | IMain | IStart | WLine | WOut  | % Eff | % PF  | HP   |
|--------|--------|--------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|------|
| NL     | 0.00   | 1185.7 | 230.2 | 371.9 | 235.2  | 0.36  | 0.63  | 0.71   | 81.0  | 0.0   | 0.0   | 97.7  | 0.00 |
| NP+100 | 1.47   | 1175.0 | 230.0 | 365.5 | 231.6  | 0.40  | 0.60  | 0.70   | 89.6  | 15.3  | 17.1  | 97.4  | 0.02 |
| NP+80  | 3.68   | 1155.0 | 230.0 | 354.4 | 224.6  | 0.46  | 0.56  | 0.68   | 105.1 | 37.7  | 35.9  | 99.3  | 0.05 |
| NP+60  | 5.52   | 1135.0 | 229.9 | 343.7 | 217.3  | 0.52  | 0.54  | 0.65   | 119.4 | 55.6  | 46.6  | 99.9  | 0.07 |
| NP-50* | 6.34   | 1125.0 | 229.9 | 338.6 | 213.6  | 0.55  | 0.54  | 0.64   | 126.4 | 63.3  | 50.1  | 100.0 | 0.08 |
| NP+40  | 7.10   | 1115.0 | 229.9 | 333.5 | 209.8  | 0.58  | 0.54  | 0.63   | 133.2 | 70.3  | 52.7  | 99.9  | 0.09 |
| NP-25* | 8.11   | 1100.0 | 230.0 | 326.4 | 204.1  | 0.62  | 0.56  | 0.62   | 142.9 | 79.2  | 55.4  | 100.0 | 0.11 |
| FL     | 8.25   | 1097.8 | 230.0 | 325.4 | 203.3  | 0.63  | 0.56  | 0.62   | 144.3 | 80.4  | 55.7  | 99.6  | 0.11 |
| NP+20  | 8.42   | 1095.0 | 230.0 | 324.1 | 202.2  | 0.64  | 0.56  | 0.62   | 146.0 | 81.8  | 56.0  | 99.2  | 0.11 |
| NP     | 9.50   | 1075.0 | 229.9 | 314.8 | 194.1  | 0.69  | 0.59  | 0.60   | 157.8 | 90.6  | 57.4  | 99.5  | 0.12 |
| NP-20  | 10.37  | 1055.0 | 229.8 | 306.3 | 186.3  | 0.73  | 0.63  | 0.58   | 168.4 | 97.1  | 57.7  | 100.0 | 0.13 |
| NP+25* | 10.55  | 1050.0 | 229.8 | 304.4 | 184.5  | 0.74  | 0.64  | 0.58   | 170.8 | 98.3  | 57.6  | 100.0 | 0.13 |
| NP-40  | 11.06  | 1035.0 | 230.0 | 299.4 | 179.3  | 0.78  | 0.68  | 0.57   | 178.0 | 101.6 | 57.1  | 99.2  | 0.14 |
| NP+50* | 11.36  | 1025.0 | 230.2 | 296.2 | 175.9  | 0.80  | 0.70  | 0.56   | 182.7 | 103.3 | 56.6  | 99.2  | 0.14 |
| NP-60  | 11.60  | 1015.0 | 230.2 | 293.1 | 172.5  | 0.82  | 0.72  | 0.56   | 186.9 | 104.5 | 55.9  | 99.0  | 0.14 |
| NP-80  | 11.91  | 995.0  | 230.1 | 287.1 | 165.7  | 0.85  | 0.76  | 0.55   | 194.2 | 105.2 | 54.2  | 99.3  | 0.14 |
| NP-100 | 12.11  | 975.0  | 230.0 | 282.0 | 159.4  | 0.88  | 0.80  | 0.54   | 200.8 | 104.8 | 52.2  | 99.2  | 0.14 |
| BDT    | 12.34  | 933.8  | 230.2 | 273.4 | 147.4  | 0.94  | 0.88  | 0.52   | 213.2 | 102.3 | 48.0  | 98.5  | 0.14 |
| MT     | 12.34  | 933.8  | 230.2 | 273.4 | 147.4  | 0.94  | 0.88  | 0.52   | 213.2 | 102.3 | 48.0  | 98.5  | 0.14 |
| NP-200 | 12.17  | 875.0  | 230.1 | 264.7 | 132.9  | 1.00  | 0.98  | 0.50   | 225.5 | 94.5  | 41.9  | 98.0  | 0.13 |
| NP-300 | 11.37  | 775.0  | 230.2 | 256.6 | 113.5  | 1.08  | 1.11  | 0.49   | 238.9 | 78.2  | 32.7  | 96.1  | 0.10 |
| NP-400 | 10.36  | 675.0  | 230.0 | 253.2 | 98.8   | 1.13  | 1.20  | 0.48   | 246.6 | 62.1  | 25.2  | 94.9  | 0.08 |
| HS     | 9.56   | 600.0  | 230.0 | 252.5 | 90.4   | 1.16  | 1.25  | 0.48   | 250.2 | 50.9  | 20.3  | 93.8  | 0.07 |
| PUT    | 4.37   | 30.9   | 230.0 | 264.4 | 61.7   | 1.23  | 1.43  | 0.50   | 259.3 | 1.2   | 0.5   | 91.7  | 0.00 |
| LR     | 4.41   | 0.0    | 229.9 | 264.4 | 61.7   | 1.23  | 1.43  | 0.50   | 259.0 | 0.0   | 0.0   | 91.6  | 0.00 |

|                         |                      |                   |
|-------------------------|----------------------|-------------------|
| LRA=LOCKED ROTOR AMPS   | BDT                  | =BREAKDOWN TORQUE |
| LRT=LOCKED ROTOR TORQUE | NP RPM=NAMEPLATE RPM | MT=MAX TORQUE     |

Monday, March 12, 2007 10:36 AM

Performance Test Project: 060434L (High Speed)

C32700



TRACKING #: 10056932  
SEU: Heating & Air Cond  
ENGINEER: FRANK JIN  
TECHNICIAN: TODD  
TORQUE CELL: 50 inlb  
MP RPM: 1075  
# SPEEDS: 1  
MOTOR #: 1  
COMMENT 2:  
CUSTOMER: DISTRIBUTION SERVICES  
MODEL: 060434LA  
FRAME: 48  
PHASES: 1  
VOLTS: 230.0  
HERTZ: 60  
RUN CAP: 5.00  
COMMENT 3:  
DESCRIPTION: SYNC-0  
TYPE: PSC  
BENCH: 1  
HP: 0.10  
ROTATION: CW  
EOT: 12.34  
LEA: 1.23  
LFT: 4.41  
COMMENT 4:

TRACKING #: 10056933

SBU: Heating & Air Cond

ENGINEER: FRANK JIN

TECHNICIAN: TODD

TORQUE CELL: 50 inlb

NP RPM: 1075

# SPEEDS: 1

MOTOR #: 1

COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES

MODEL: 0604341A

FRAME: 48

PHASES: 1

VOLTS: 230.0

HERTZ: 60

RUN CAP: 5.00

COMMENT1:

COMMENT 3:

DESCRIPTION: IDLE

TYPE: PSC

BENCH: 1

HP: 0.10

ROTATION: CW

BDT: 0.00

LRA: 0.00

LRT: 0.00

COMMENT 4:

Resistance:

|         |         |                 |
|---------|---------|-----------------|
|         | Start   | Main1           |
| 03-02   | 01-02   |                 |
| Spec    | 10.00   | 0.00            |
| Results | 115.955 | 65.078 @23.3 °C |

| VLine | VStart | VCap  | Iline | IMain | IStart | WLine | TC01 | TC02 | TC03 | TC04 | Time        |
|-------|--------|-------|-------|-------|--------|-------|------|------|------|------|-------------|
| 230.3 | 235.9  | 371.4 | 0.36  | 0.64  | 0.71   | 79.0  | OPEN | OPEN | OPEN | OPEN | 10:30:54 am |
| 208.1 | 217.8  | 338.9 | 0.31  | 0.55  | 0.64   | 63.8  | OPEN | OPEN | OPEN | OPEN | 10:31:09 am |



## Specification & Rating Report

Item Number: **182A**

Specification Number: **1**

Model Number: **F48Z26A01**

Carton Label Model  
Number:

Customer Model  
Number:

Sample Number:

Customer Specification  
Number:

Catalog Number: **182A**

Agency Type:

CE: **N**

CSA: **Y**

UL: **Y**

CE Number:

CSA Number: **NO**

UL Number: **NO**

UL Explosion Proof Rating:

Cubic Feet Per Minute:

F2 Assembly:

UPC Model Number:

UPC Catalog Number: **786674009999**

Nameplate Drive  
Bearing Type:

Nameplate Opposite  
Drive Bearing Type:

Label Drive Bearing **BALL**  
Type:

Label Opposite Drive **BALL**  
Bearing Type:

Capacitor:

Capacitor Rating MFD: **5**

Capacitor Included: **N**

Capacitor Rating VAC: **370**

Control Code:

DC Design Number:

Form Factor:

Design Status:

Features:

Connection Diagram:

Lubrication Label  
Diagram:

Outline Diagram: **182A-S01**

Installation Diagram:

Warning Label  
Diagram:

Outline Graphic: **117A**

Ambient Temperature: **60**

Insulation Class: **B**



## Specification & Rating Report

|                                        |                                  |
|----------------------------------------|----------------------------------|
| Protector: <b>AUTOMATIC</b>            | Thermal Protection:              |
| Nameplate Overload:                    | Label Overload:                  |
| IP Code:                               |                                  |
| Nameplate Enclosure: <b>ENCLOSED</b>   | Label Enclosure: <b>ENCLOSED</b> |
| Frame Length: <b>3.13</b>              | Frame Length UOM:                |
| Frame Diameter:                        | Frame Diameter UOM:              |
| Frame Size: <b>F48Y</b>                |                                  |
| Frame Material: <b>ROLLED STEEL</b>    | End Frame Material:              |
| Operator Instruction Manual:           |                                  |
| Nameplate Mounting:                    | Label Mounting: <b>EXT STUDS</b> |
| Base Height:                           | Base Height UOM:                 |
| Ring Diameter:                         | RingDiameterUOM:                 |
| Nameplate:                             | Carton Label:                    |
| Nameplate Location <b>L</b><br>Format: |                                  |
| Brake:                                 | Tachometer:                      |
| Layer Quantity:                        | Pallet Quantity:                 |
| Phase: <b>1</b>                        | CurrentType:                     |
| DC Pole:                               |                                  |
| Poles: <b>6</b>                        |                                  |
| Speeds: <b>1</b>                       |                                  |
| Duty: <b>AIR OVER</b>                  |                                  |
| Shaft Diameter: <b>.5</b>              | Shaft Diameter UOM: <b>IN</b>    |
| Shaft Extension: <b>6.0</b>            | Shaft Extension UOM: <b>IN</b>   |
| Shaft Material:                        | Rotation: <b>REV</b>             |
| Shaft Type: <b>FLAT</b>                |                                  |
| Motor Type: <b>UF</b>                  |                                  |
| Motor Use:                             |                                  |
| Nameplate 1:                           |                                  |
| Nameplate 2:                           |                                  |
| Nameplate Text 1:                      |                                  |



## Specification & Rating Report

---

Nameplate Text 2:

Nameplate Text 3:

Nameplate Text 4:

Label Text 1: **PERMANENT**  
**SPLIT**  
**CAPACITOR**

Label Text 2:

Label Text 3: **CONDENSER**

Label Text 4:

Brand Line:

Vendor Line:

Motor Weight:

Motor Weight UOM:

Shipping Weight:

Shipping Weight UOM:

Armature Field  
Winding:

Core Length:

Core Length UOM:

Winding Code:

Winding Specification:

Nameplate Only  
Instructions:

Nameplate & Label  
Instructions:

Label Only  
Instructions:



## Specification & Rating Report

---

Rating Number: **1**

Horsepower: **1/10**

Volts: **208-230**

Hertz: **60**

Field Current:

Revolutions Per **1075**  
Minute:

Service Factor: **1.0**

Service Factor Amps:

NEMA Code:

NEMA Design:

Customer Nameplate Number:

Kilowatts:

Amps: **0.7**

Maximum Amps:

Armature Current:

Power Factor:

Service Factor Volts:

NEMA Nominal Efficiency:

NEMA Guaranteed Efficiency: