



2013 OWNER'S MANUAL



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Receiving, Handling, and Storage

ALL UNITS MUST BE INSPECTED FOR ANY SIGN OF TAMPERING OR DAMAGE PRIOR TO ACCEPTING DELIVERY OF YOUR TURFBREEZE FAN. ANY DAMAGES MUST BE NOTED ON THE BILL OF LADING ALONG WITH THE SIGNATURE OF THE DRIVER MAKING THE DELIVERY. ONCE THE DELIVERY HAS BEEN ACCEPTED, ANY AND ALL LIABILITY IS TRANSFERRED FROM TURFBREEZE TO THE RECEIVING PARTY.

TurfBreeze fans are carefully inspected before leaving the factory, but all nuts, bolts, and fasteners should be checked prior to installation to ensure vibration during shipping has not caused any of them to become loose.

Care must be taken when transporting the fans from the receiving location to the desired storage or installation site. It is recommended that equipment featuring lifting forks be used to transport the entire crate and or pallet as it was shipped from TurfBreeze. If lifting fork equipment is not available for transporting the assembly as shipped, the components must be removed from the packaging and moved individually. Always be sure to use caution and your best judgment when lifting heavy objects. A lifting lug on the top of the fan housing has been provided for hoisting the fan and oscillating assembly during installation or transporting the fan and oscillating assembly to the installation site. This lifting point is only designed to support the combined weight of the fan and oscillating assembly. The fan pole and any other items that may be contributing additional weight should be disconnected and or removed before lifting the fan and oscillating assembly by the provided lifting lug. When transporting always be sure to add additional support straps to prevent potential damage due to excessive spinning, swinging, or other instability while underway. Care must be taken, NEVER DROP THE FAN. This will almost always cause the housing to become out of round which will negatively affect the performance in addition to potentially resulting in damage due to interference between the housing and the blades. If a fan is accidentally dropped always check the impeller (fan blade) tip clearance prior to powering the fan to ensure that there is no contact with the housing.

If the fans are to be stored for an extended period of time, such as over the winter, it is recommended that they be cleaned and coated with a rust inhibiting aerosol lubricant such as WD-40 prior to storing. The fans should be stored in a dry area shielded from the weather. If a protected storage area is not available TurfBreeze fan covers, custom tailored for each model fan, are available upon request by calling (866) 641-6663.

Installation

1. Install ground pole per the instructions on installation drawing on page 20. Note that the use of the valve box is recommended, but not required. Once the ground pole has been placed in the concrete and angled and leveled properly, allow the concrete to cure at least two weeks before continuing on to step two.

- ***Ground pole concrete must cure for a minimum of two weeks prior to installing the fan pole and fan.***

2. Install the fan pole after the ground pole installation has been allowed to cure two weeks. It is recommended that fan pole be oriented such that the control package and wiring are facing away from the green for a cleaner appearance from the area of play.
3. Place the fan and oscillating assembly on top of the fan pole with the set bolts facing away from the green. Starting at the top, lightly tighten the (4) set bolts to square the oscillating assembly on the fan pole (see included Fan Component Diagram for general part locations and identification). Once each of the (4) set bolts are snug, finish tightening each bolt such that the fan doesn't spin when given a moderate push on side of the inlet bell. Be careful not to over tighten the bolts or they may strip or cause excessive deformation of the pole creating a weak area just below the oscillating assembly.

- ***Step 4) should be completed either prior to connecting to the power supply ,or with the power sufficiently locked out at the power source, and should only be performed by a qualified electrician.***

4. Disassemble the provided female power plug, route the power supply cable through the back shell of the plug, and terminate the individual stripped ends of the wires.

Start Up

1. Visually inspect inside the fan for any tools or foreign objects.
2. Bump the fan to check rotation by quickly switching power on and off.

- ***Steps 3 & 4 should only be performed by qualified electrical personnel.***

3. Start fan with amp meter attached (use inductive clamp on style meters). Fan should be at full speed and operating amps in 7 seconds. If it is not, shut down immediately or the motor will be damaged. If this situation occurs, record measured voltages and current (amps), fan motor nameplate voltage and phase, power supply voltage and phase, supply wire size, and length of supply wires. With a list of the above information call TurfBreeze for technical assistance. Toll-Free (866) 641-6663.
4. While operating, measure electrical voltage and amps at a safe location within 10 feet of the motor. The voltage should be within +/- 10% of nameplate rating on motor. If the operating voltage is out of this 10% range contact TurfBreeze for further instruction before continuing use as these voltages may cause irreparable damage to the motor and or electrical components.
5. Visually inspect oscillating system through a minimum of (2) two cycles to insure that it is operating correctly without interference to any of the linkage components.
6. Adjust rod end assembly position in the torque arm to fine tune green coverage. If more coverage is required, move the connection outward away from the gear motor's shaft. If coverage is still insufficient, move the rod end connection at the U-Bracket to the next hole closer to the center of the fan. Loosen the (4) set bolts and rotate entire assembly for overall coverage adjustment to the left or right. Re-tighten bolts per the instructions given in step 4 of the Installation section.

Service & Maintenance

General Fan Components

Electric Motors

All TurfBreeze motors are lubricated during assembly, and do not require any lubrication prior to initial use unless they are stored for an extended time prior to operation. Refer to the guidelines below for re-lubrication specifications.

Lubrication Intervals

- Seasonal Use*, All Motors
 - Re-lubricate annually just prior to operation
- Continuous Use, 1800 RPM Motor
 - Re-lubricate every 6,000 Hrs.
- Continuous Use, 1200 RPM Motors
 - Re-lubricate every 9,000 Hrs.

** Both used and new motors left idle for 6 months or more should be lubricated before use.*

Recommended Lubricants

- Exxon Mobil Polyrex EM
- Shell Dolium R
- Chevron SR1 2

Amount to add (all motors) - 0.16 fluid ounces

TIP - Measure the fluid ounces of grease discharged per stroke from your grease gun, and then determine exactly how many strokes are required to get 0.16 fluid ounces. For example, if you measure 0.0624 fl.-oz. out of one full stroke then it will require $(0.16/0.0624) = 2.6$ strokes.

Oscillating Assemblies

The linkage components should be inspected for looseness and corrosion monthly during operation. If evidence of corrosion is detected then a topical coating of a corrosion inhibiting spray is recommended. Sprays or chemicals that dry to a film or waxy finish are preferred as they collect less airborne dust and debris.

The main oscillating hub should be greased annually by removing the center cap, and simply topping off the inner bearing compartment with common wheel bearing grease. Note that it is not recommended that grease be injected under pressure, or through a grease fitting.

Wiring and Controls

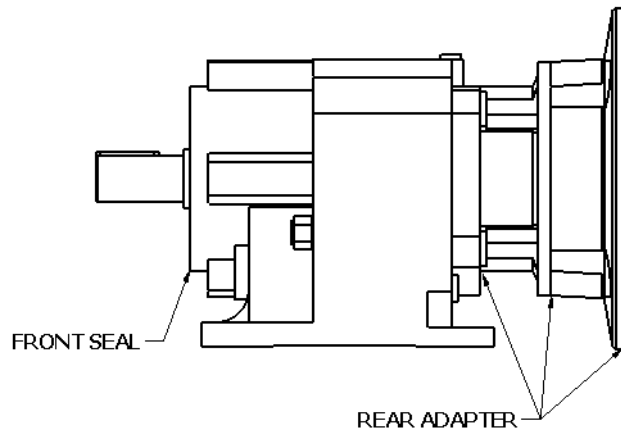
Operational vibration, and thermal cycling can cause wires to rub through in places, and terminal connection to become loose. Wire terminals, circuit components, and wire insulation should be inspected initially at startup, and then annually after that. During inspection check for any signs of wire or component discoloration due to heat, melting, arcing, smoke, etc.

TB-30 & TB-36 Direct Drive Fans

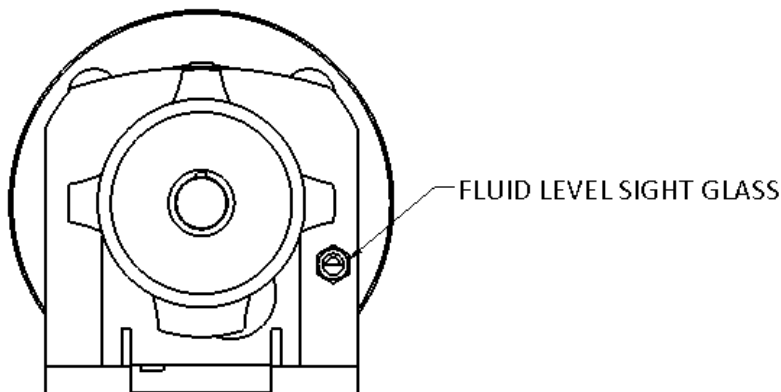
There are no special maintenance requirements for the TB-30, and TB-36 fans in addition to the items discussed in the General Fan Components section above.

TB-50 Gear Drive Fans

- 1) All fans are fully tested prior to shipping and will arrive filled with the correct amount of fully synthetic gear oil ready for operation. There is no initial, or post break-in servicing required. Mechanics will find this unusual, as post break-in fluid changes are the norm with most equipment, however due to the quality and precision of the gearbox components used it is recommended that the lubricant **NOT** be changed prior to 20,000 hours of operation. Premature servicing unnecessarily increases the risk of debris ingress and fluid contamination.
- 2) Periodically inspect the bottom of the front seal and rear adapter areas of the gearbox for signs of oil leakage.



- 3) Periodically inspect the fluid level using the sight glass on the front of the gearbox.



- 4) If the fluid must be added it is recommended to completely drain the gearbox, and refill using exactly 0.95 quarts (0.90 liters) of Mobil SHC Cibus 220 (or exact equivalent) to avoid overfilling. Both overfilling and under filling will result in gearbox failure.
- 5) With the exception of the case of low fluid replacement discussed above, it is recommended that the fluid **NOT** be changed prior to 20,000 hours of operation for optimum service life.

TB-50 Premium

Belt Tensioning

The proper tension for operating a V-belt drive is the lowest tension at which the belts will not slip at peak load conditions. Belts are adjusted by raising or lowering the motor pivot plate (see Figure 11 for details). For tensioning, the proper belt deflection half-way between sheave centers is 1/64 of the belt span. For TurfBreeze Premium fans the belt deflection should be between 1/4" and 1/2" using with 5 pounds pressure applied at the mid-point of the free belt span (deflection and mid-point depicted in Figure 10a, on page 16).

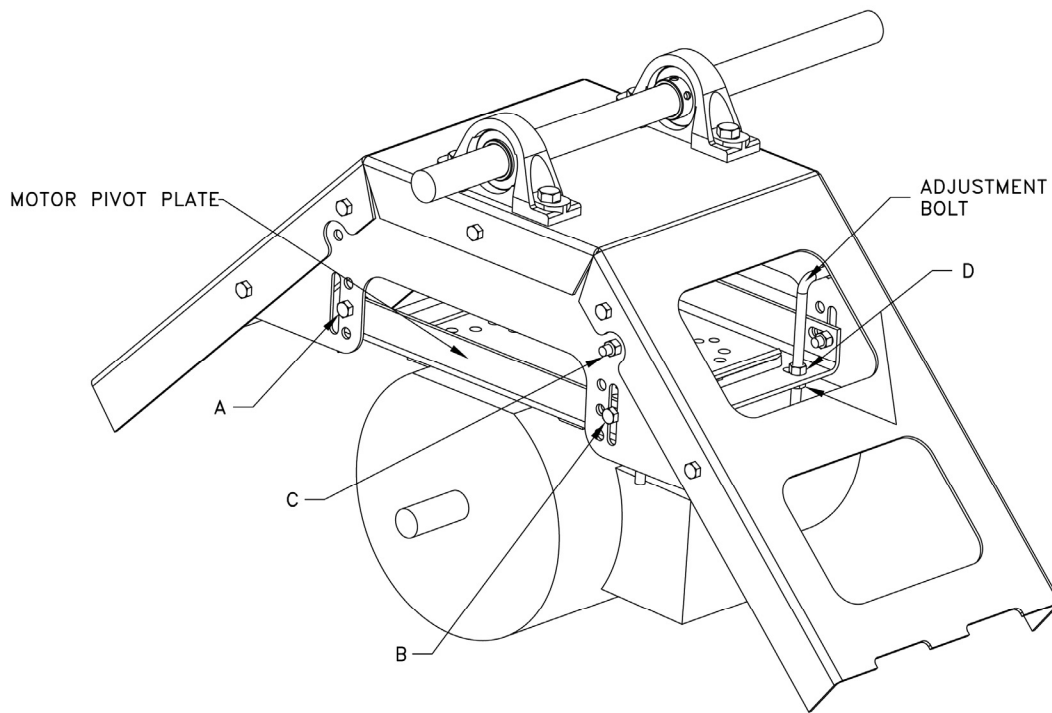


Figure 1: TurfBreeze Premium Fan V-Belt Tensioning adjustment points

Motor pivot plate adjustment (belt tensioning) procedure:

Follow the following steps:

1. Loosen fasteners A, B, & C on both sides of the drive frame.
2. Loosen and adjust jam nuts (D) on both adjustment bolts equally until proper belt tension has been obtained.
3. Tighten jam nuts (D).
4. Tighten fasteners A, B, & C on both sides of drive frame.

GROUND POLE VALVE BOX INSTALLATION DETAIL

SUPPLIED FAN POLE

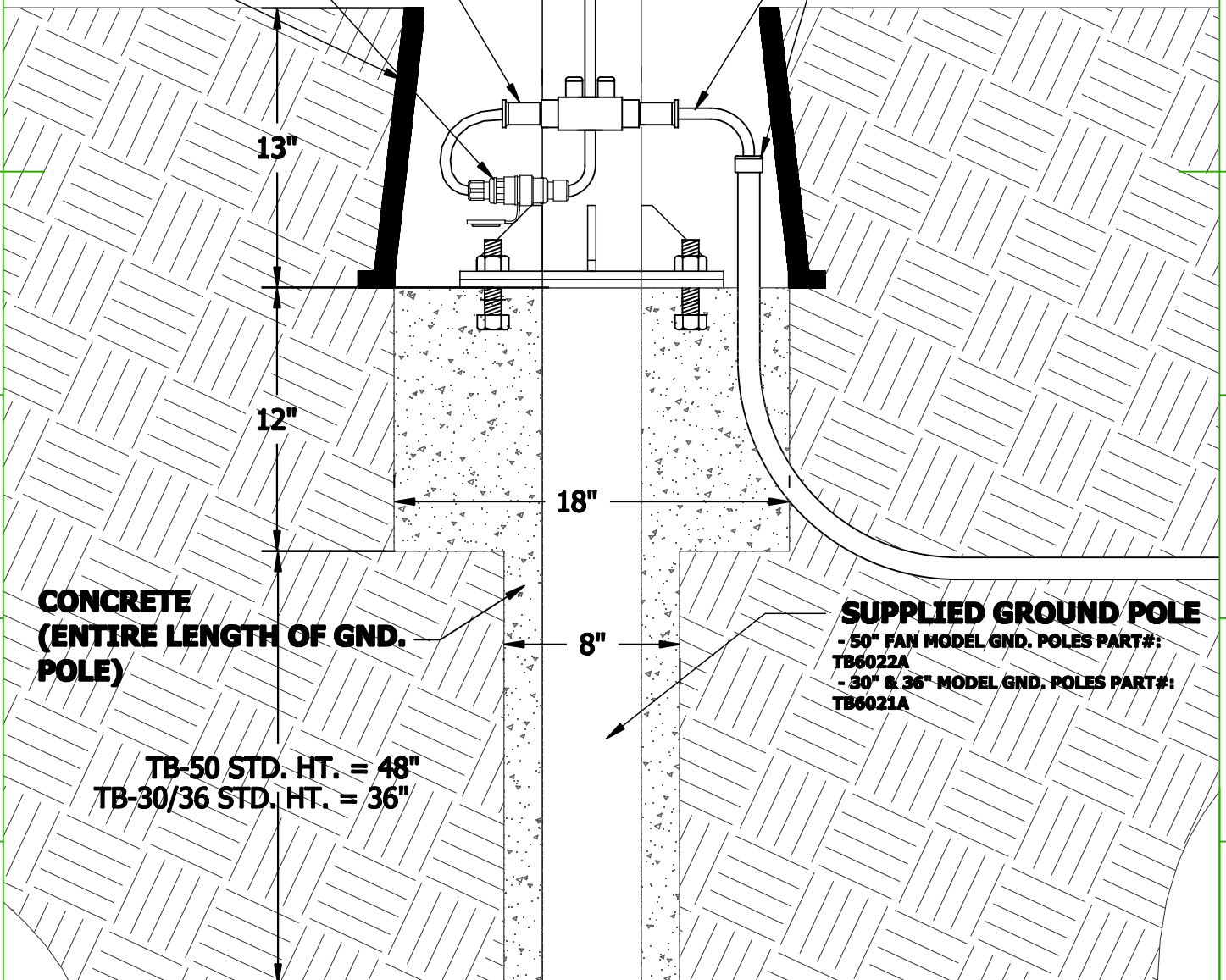
NOTE:
- ALL CONCRETE DIMENSIONS ARE MINIMAL

OPTIONAL REDUCER SPLICE
TB P/N: TB8830A
(QTY. 1 PER CONDUCTOR)

PROVIDED
POWER PLUG

CUSTOMER TO PROVIDE POWER SUPPLY
WIRING, CONDUIT W/ LIQUID TIGHT FITTING
(RECOMMENDED IF CONDUIT USED),
INSTALLATION/ASSEMBLY, & CONCRETE (MIN
422LB OF CONCRETE IF HOLE AS
DIMENSIONED, HERE)

VALVE BOX
(OPTIONAL)



13"

12"

18"

8"

**CONCRETE
(ENTIRE LENGTH OF GND.
POLE)**

SUPPLIED GROUND POLE

- 50" FAN MODEL GND. POLES PART#: TB6022A
- 30" & 36" MODEL GND. POLES PART#: TB6021A

TB-50 STD. HT. = 48"
TB-30/36 STD. HT. = 36"

PLATE FLUSH OR JUST BELOW SURFACE OF CONCRETE
(CAUTION: DO NOT LEAVE ANY CONCRETE ON MATING SURFACE!!)

3 MIN.

**RECOMMENDED
REINFORCED GROUND
POLE INSTALLATION FOR
FAN POLES ABOVE 7'.**

13

18" DIAMETER
HOLE 72" DEEP

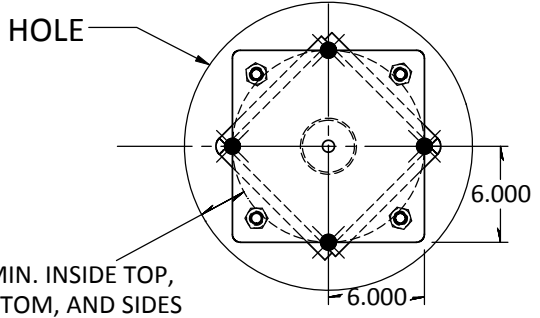
72

3000 PSI
CONCRETE

REBAR REINFORCEMENT
RECOMMENDED. SEE REBAR
FRAME DRAWING FOR CAGE
DETAIL.

REBAR FRAME ORIENTATION

TOP VIEW:



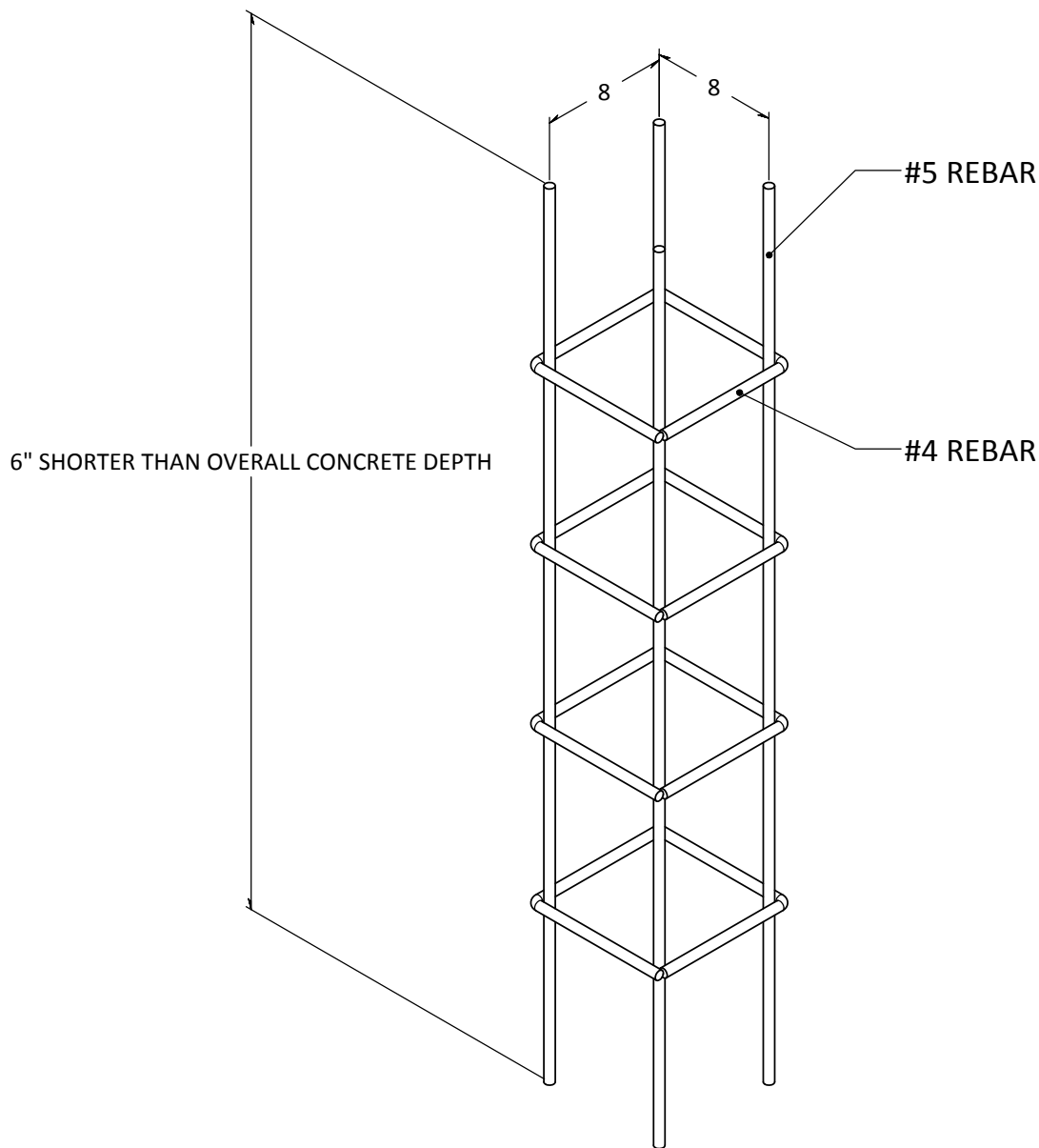
3" MIN. INSIDE TOP,
BOTTOM, AND SIDES


18

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DATE: 3/4/2009	
REVISED BY: hmurphy	FRACTIONAL
DATE: 8/10/2009	± 1/16
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SCALE: 1:12	.XX ± .01
QTY REQ: (X)	.XXX ± .005
MAT'L: --	
FINISH: --	

750 Bettis Academy Rd Graniteville, SC 29829 (803) 641-6663	
Title:	Ground Pole Assembly GND POLE INSTALL (TALL FAN)
Dwg No.	SHEET 1 OF 1

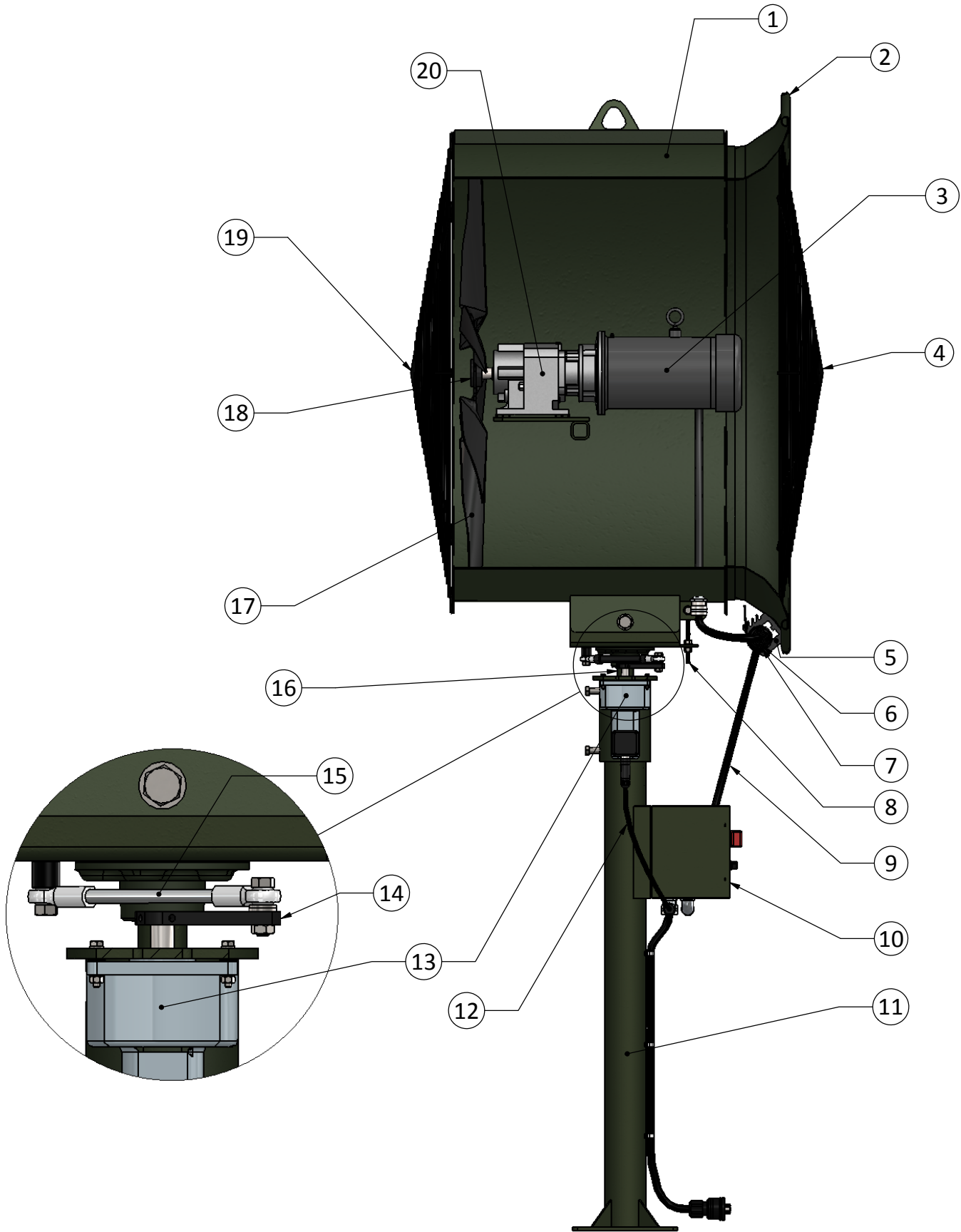
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DATE: 3/5/2009	DECIMAL	Rebar FRAME DRAWING
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Gear Drive TB-50 Component Diagram



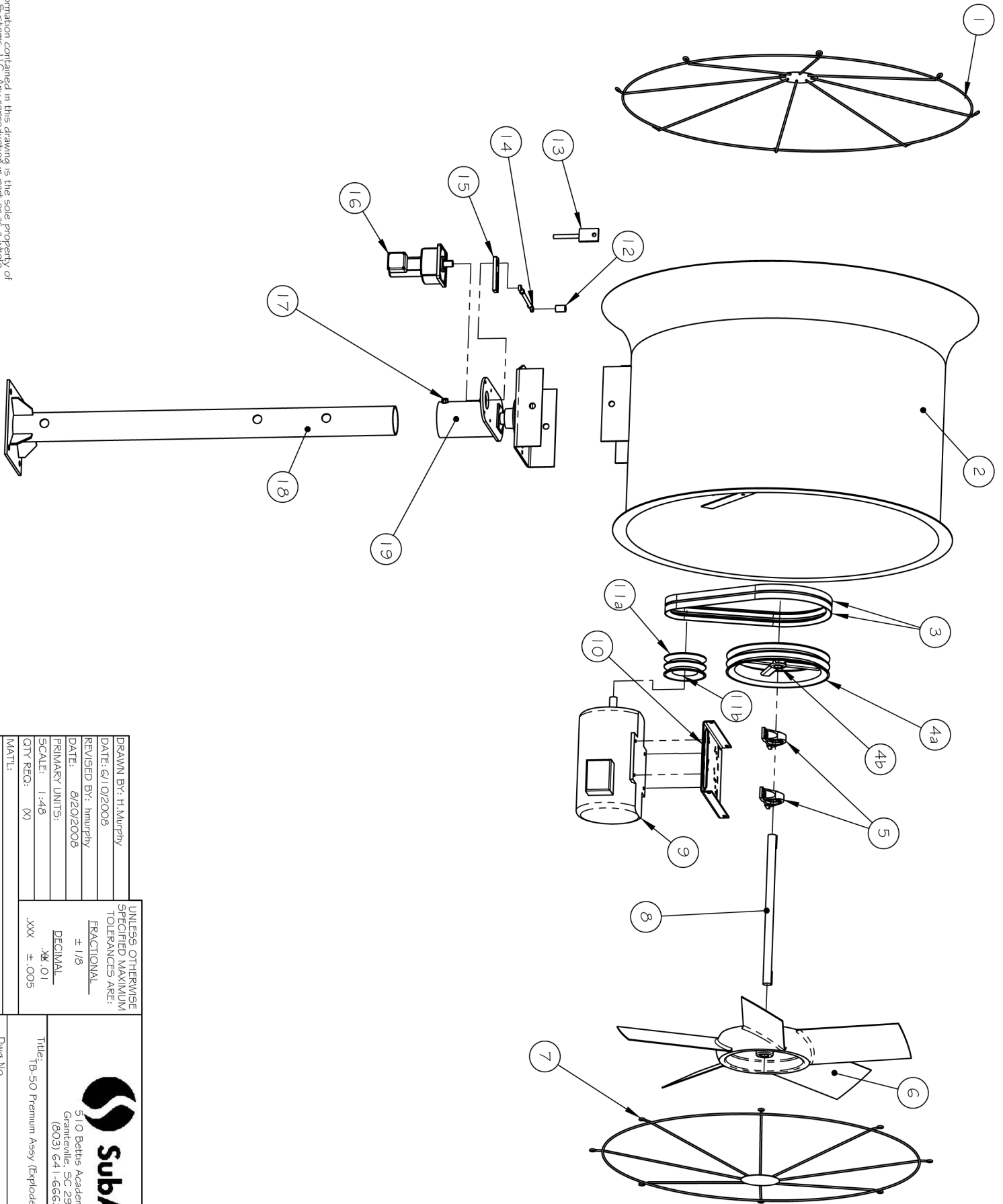
Turf Breeze, LLC
Parts List for TB-50-5 Gear Drive Fans
(Prewired Preassembled)


Item #	Part #	Description	Qty Required
1	TB7150C	Fan Housing (Includes Inlet Bell, Guards, & Adj./Tilt Rods)	1.00
2	TB8011B	Inlet Bell	1.00 *
3	Fan Motor		1.00
	TB8606D	5 HP 230/460 Volt 3Ø	
	TB8604D	5 HP 208/230 Volt 1Ø	
4	TB8015B	Inlet Guard	1.00 *
5	TB8835A	Power Plug Holder	1.00
6	Main Power Cable Male Plug		2.00
	TB8805	Main Power Cable Male Plug, 5 Hp 1Ø	
	TB8803	Main Power Cable Male Plug, 5 Hp 230/3Ø	
	TB8801	Main Power Cable Male Plug, 5 Hp 460/3Ø	
7	Main Power Cable Female Plug		2.00
	TB8806	Main Power Cable Female Plug, 5 Hp 1Ø	
	TB8804	Main Power Cable Female Plug, 5 Hp 230/3Ø	
	TB8802	Main Power Cable Female Plug, 5 Hp 460/3Ø	
8	TB8121B	Tilt Rod	1.00 *
9	Main Power Cable		Qty. Based On Fan Pole Height
	TB8815	Main Power Cable, 5 Hp 1Ø	
	TB8819	Main Power Cable, 5 Hp 3Ø	
10	Control Package		1.00
	TB9235C	5 Hp, 1Ø	
	TB9255C	5 Hp, 3Ø, 208-230v	
	TB9265B	5 Hp, 3Ø, 460v	
11	Fan Pole		1.00
	TB6003C	3 Foot	
	TB6004C	4 Foot	
	TB6005C	5 Foot	
	TB6006C	6 Foot	
	TB6007C	7 Foot	
	TB6008C	8 Foot	
12	Oscillator Power Wire		Qty. Based On Fan Pole Height
	TB8817	208-230, 1Ø/3Ø	
	TB8822	460, 3Ø	
13	Oscillator Motor		1.00
	TB8631C	1Ø, 208-230v	
	TB8631C	3Ø, 208-230v	
	TB8632C	3Ø, 460v	
14	TB8580B	Crank Arm	1.00
15	TB7550B	Rod End Assembly	1.00
16	TB8524B	Oscillator Hub/Spindle	1.00
17	TB8203B	TB-50 Impellar (Fan Wheel)	1.00
18	TB8511B	TB-50 Impellar Bushing	1.00
19	TB8019B	Outlet Guard	1.00 *
20	TB8570A	Gear Box Assembly	1.00
	TB6030C	Ground Pole Assembly (Not Shown)	1.00

* Quantities are included in item #1, and are shown again or reference only.

TurfBreeze TB-50 Premium Component Diagram

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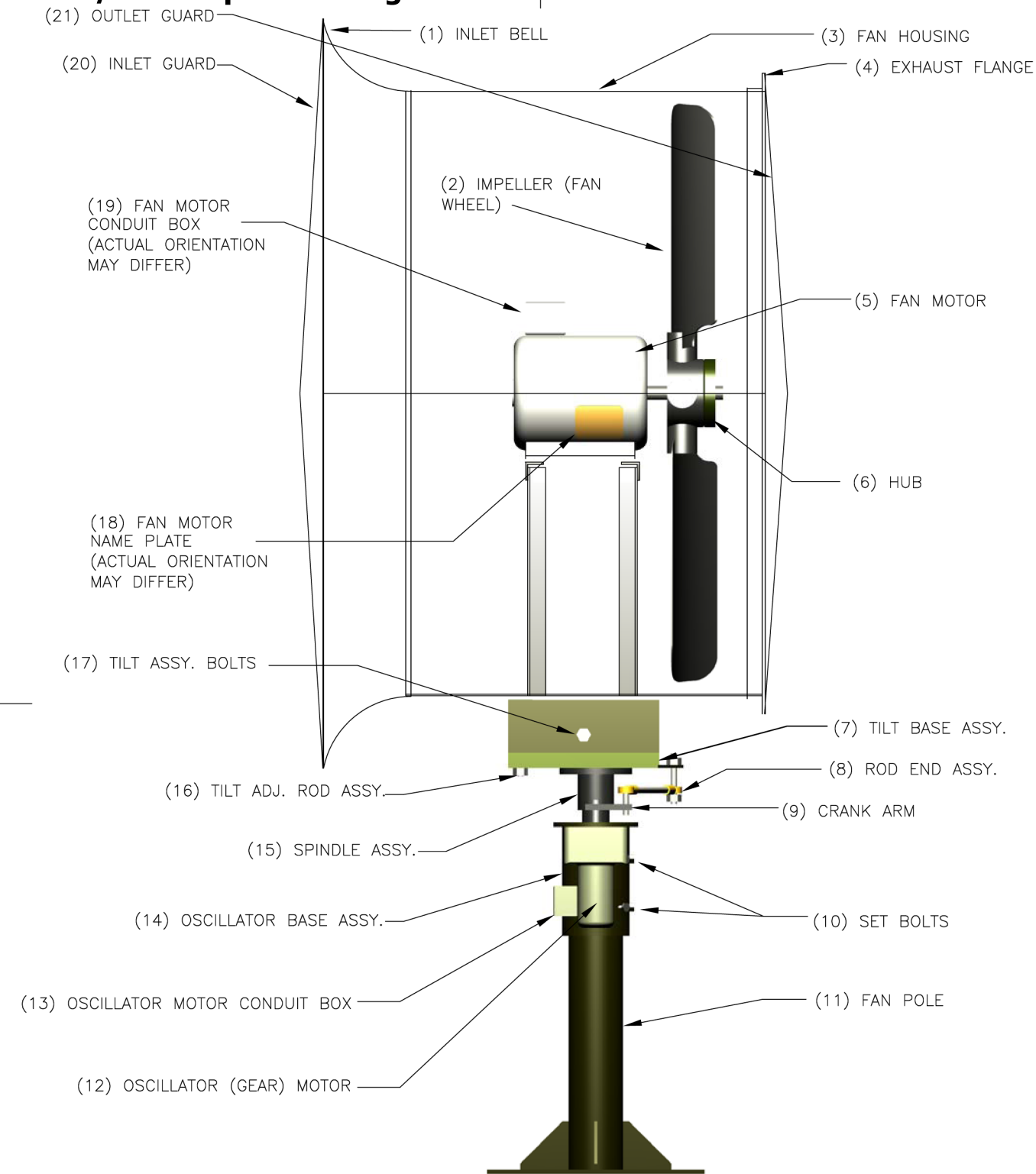


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Dwg No.		SHEET 1 OF 1	
 <p>510 Bettis Academy Rd Graniteville, SC 29829 (803) 641-6663</p>		Title: TB-50 Premium Assy (Exploded)	

Turf Breeze, LLC
Parts List for TB50 Premium Electric Fan

Item #	Part #	Description	Qty Required
1	TB8015P	Inlet Guard	1
2	TB8003P	Fan Housing	1
3		Belts	2
	TB8501P	Belt; 3 Hp Models	
	TB8499P	Belt; 5 Hp Models	
	TB8507P	Belt; 7.5 Hp Models	
4a		Shaft Pulley	1
	TB8540P	Shaft Pulley; 3 Hp Models	
	TB8516P	Shaft Pulley; 5 Hp Models	
	TB8516P	Shaft Pulley; 7.5 Hp Models	
4b		Shaft Pulley Bushing	1
	TB8508P	Shaft Pulley Bushing; 3 Hp Models	
	TB8508P	Shaft Pulley Bushing; 5 Hp Models	
	TB8508P	Shaft Pulley Bushing; 7.5 Hp Models	
5	TB8526P	Pillow Block Bearing	2
6	TB8022P	Impeller (Fan Wheel) Hub Bushing	1
7	TB8019P	Outlet Guard	1
8	TB8522P	Impeller Shaft	1
9		Fan Motor	1
	TB8618P	3 HP 208-2301Ø	
	TB8613P	3 HP 208-230/460 Volt 3Ø	
	TB8604P	5 HP 208-2301Ø	
	TB8606P	5 HP 208-230/460 Volt 3Ø	
	TB8611P	7.5 HP 208-2301Ø	
	TB8609P	7.5 HP 208-230/460 Volt 3Ø	
10	TB8024P	Motor Plate	1
11a		Fan Motor Pulley	1
	TB8517P	Motor Pulley, 3 Hp Models	
	TB8520P	Motor Pulley, 5 Hp Models	
	TB8521P	Motor Pulley, 7.5 Hp Models	
11b		Fan Motor Pulley Bushing	1
	TB8506P	Motor Pulley Bushing, 3 Hp Models	
	TB8506P	Motor Pulley Bushing, 5 Hp Models	
	TB8507P	Motor Pulley Bushing, 7.5 Hp Models	
12	-	Rod End Assy Spacer Bushing (Part of Osc Assy)	1
13	TB8124A	Tilt Adjustment Rod Assy (Part of Osc Assy)	1
14	TB7550A	Rod End Assy (Part of Osc Assy)	1
15	TB8580A	Crank Arm (Part of Osc Assy)	1
16	TB8631A	Oscillating (Gear) Motor (Part of Osc Assy)	1
17	TB8123A	Set Bolts (Part of Osc Assy)	4
18	TB6001A	Fan Pole	1
19	TB8523A	Oscillator Assy	1
	TB6022A	Ground Pole (Not Shown)	1

TB-30/36 Component Diagram



DRAWN BY:	H.MURPHY
DATE:	5/10/07
REVISED BY:	H.MURPHY
DATE:	6/4/07
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

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FRACTIONAL
± 1/8

DECIMAL
.XX ± .01
.XXX ± .005



510 Bettis Academy Rd
Graniteville, SC 29829
(803) 641-6663

Title: T.B. FAN COMPONENT DIAG.
36" AND SMALLER FANS

Dwg No. ###

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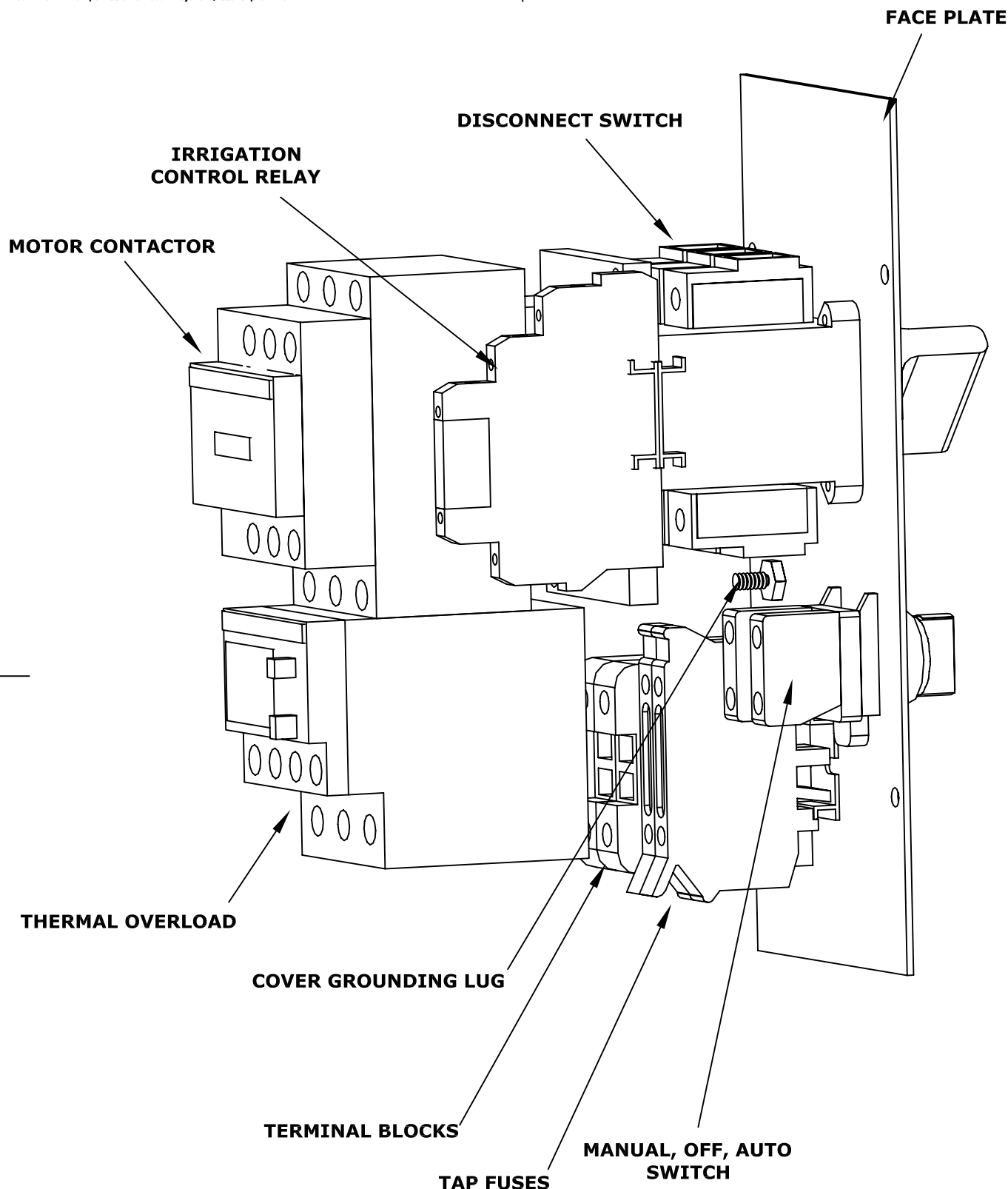
Turf Breeze, LLC
Parts List for TB36 Electric Fan

Item #	Part #	Description	Qty Required
1	TB8010A	Inlet Bell	1.00
2	TB8212A	Impeller (Fan Wheel)	1.00
3	TB8002A	Fan Housings	1.00
4	TB8006A	Exhaust Flange	1.00
5		Fan Motor	1.00
	TB8605A	2 HP 230 Volt 1Ø	
	TB8607A	3 HP 230 Volt 1Ø	
	TB8612A	2 HP 230/460V 3Ø	
	TB8613A	3 HP 230/460v 3Ø	
6		Hub (Part of Wheel Assy)	-
7		Tilt Base Assy	1.00
8	TB7560A	Rod End Assembly	1.00
9	TB8582A	Crank Arm (Part of Osc Assy)	1.00
10		Set Bolts (Part of Osc Assy)	2.00
11	TB6000A	Fan Pole	1.00
12	TB8602A	Oscillator (Gear) Motor	1.00
13		Oscillator Motor Conduit Box (Part of Motor)	-
14	TB8523A	Oscillator Base Assy	1.00
15		Spindle Assy (Part of Osc Assy)	1.00
16		Tilt Adjustment Rod Assy (Part of Osc Assy)	1.00
17		Tilt Assy Bolts (Part of Osc Assy)	2.00
18		Fan Motor Name Plate (Part of Motor)	-
19		Fan Motor Conduit Box (Part of Motor)	-
20	TB8014A	Inlet Guard	1.00
21	TB8018A	Outlet Guard	1.00
	TB6021A	Ground Pole (Not Shown)	1.00

Turf Breeze, LLC
Parts List for TB30 Electric Fan

Item #	Part #	Description	Qty Required
1	TB8009A	Inlet Bell	1.00
2		Impeller (Fan Wheel)	1.00
	TB8210A	2 Hp Wheel	
	TB8211A	3 Hp Wheel	
3		Fan Housing	1.00
	TB8001A	Fan Housings, 30"- 2hp	
	TB8004A	Fan Housings, 30"-3hp	
4	TB8005A	Exhaust Flange	1.00
5		Fan Motor	1.00
	TB8605A	2 HP 230 Volt 1Ø	
	TB8607A	3 HP 230 Volt 1Ø	
	TB8612A	2 HP 230/460V 3Ø	
	TB8613A	3 HP 230/460v 3Ø	
6		Hub (Part of Wheel Assy)	-
7		Tilt Base Assy	1.00
8	TB7560A	Rod End Assembly	1.00
9		Crank Arm (Part of Osc Assy)	1.00
10		Set Bolts (Part of Osc Assy)	2.00
11	TB6000A	Fan Pole	1.00
12	TB8602A	Oscillator (Gear) Motor (Baldor Model)	1.00
13		Oscillator Motor Conduit Box (Part of Motor)	-
14	TB7438A	Oscillator Base Assy	1.00
15		Spindle Assy (Part of Osc Assy)	1.00
16		Tilt Adjustment Rod Assy (Part of Osc Assy)	1.00
17		Tilt Assy Bolts (Part of Osc Assy)	2.00
18		Fan Motor Name Plate (Part of Motor)	-
19		Fan Motor Conduit Box (Part of Motor)	-
20	TB8013A	Inlet Guard	1.00
21	TB8017A	Outlet Guard	1.00
	TB6021A	Fixed Ground Pole (Not Shown)	1.00

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**1 PHASE CONTROL
PACKAGE COMPONENT
DIAGRAM**

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REVISED BY:	Name
DATE:	4/13/10
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:
FRACTIONAL ± 1/8
DECIMAL .XX ± .01 .XXX ± .005

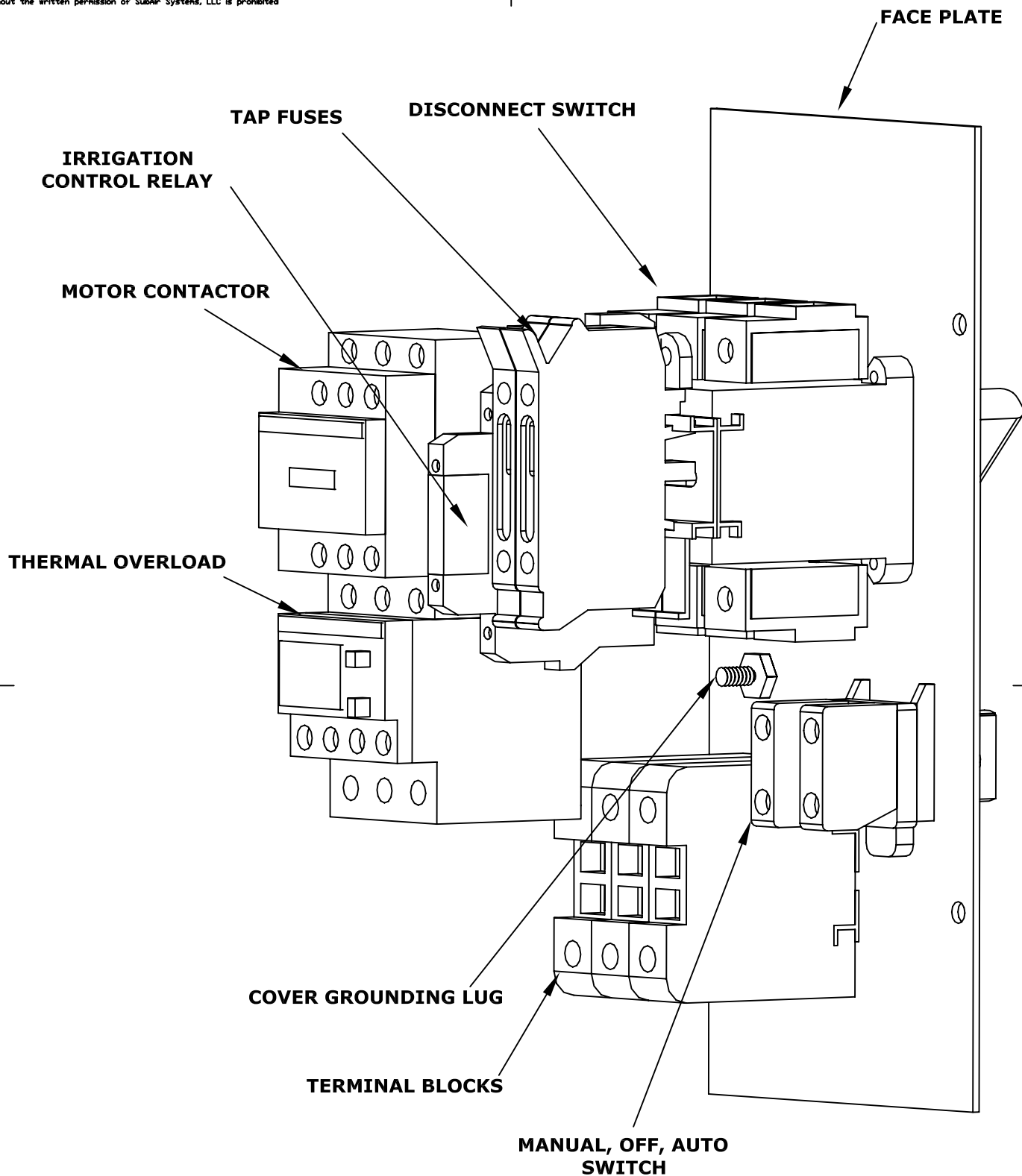


SubAir.

510 Bettis Academy Rd
Graniteville, SC 29829
(803) 641-6663

Title:	1PH FAN CONTROL COMPONENT DIAG
Dwg No.:	###

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**208-230VAC, 3 PHASE
CONTROL PACKAGE
COMPONENT DIAGRAM**

DRAWN BY:	H.MURPHY
DATE:	4/20/07
REVISED BY:	Name
DATE:	4/13/10
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:
FRACTIONAL ± 1/8
DECIMAL .XX ± .01 .XXX ± .005



510 Bettis Academy Rd
Graniteville, SC 29829
(803) 641-6663

Title:	FAN CONTROL COMPONENT DIAG
----	----
Dwg No.:	###

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FACE PLATE

TAP FUSES

DISCONNECT SWITCH

IRRIGATION CONTROL RELAY

MOTOR CONTACTOR

THERMAL OVERLOAD

COVER GROUNDING LUG

TERMINAL BLOCKS

MANUAL, OFF, AUTO SWITCH

**460VAC, 3 PHASE
CONTROL PACKAGE
COMPONENT DIAGRAM**

DRAWN BY:	H.MURPHY
DATE:	4/20/07
REVISED BY:	Name
DATE:	4/13/10
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:
FRACTIONAL ± 1/8
DECIMAL .XX ± .01 .XXX ± .005

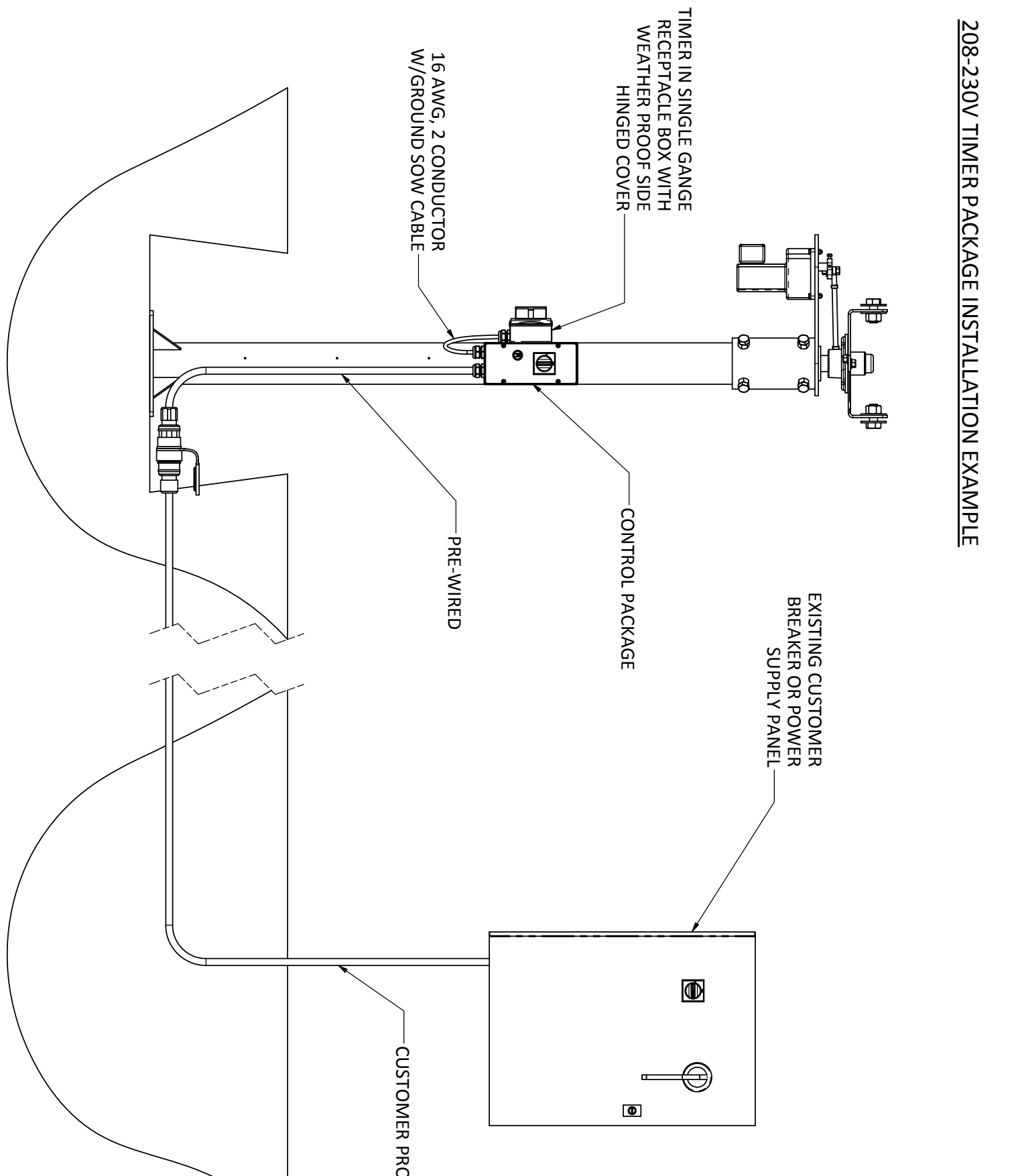


510 Bettis Academy Rd
Graniteville, SC 29829
(803) 641-6663

Title: FAN CONTROL COMPONENT DIAG

Dwg No. ###

208-230V TIMER PACKAGE INSTALLATION EXAMPLE



DRAWN BY: H.MURPHY	UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE: <u>FRACTIONAL</u> ± 1/16 <u>DECIMAL</u> .XX ± .01 .XXX ± .005
DATE: 8/6/2009	
REVISED BY: hmurphy	
DATE: 3/4/2010	
PRIMARY UNITS:	
SCALE: 1:14	
QTY REQ: (X)	
MAT'L: --	Dwg No. -- Part No. --
FINISH: DEBUR, GRIND SHARP EDGES	

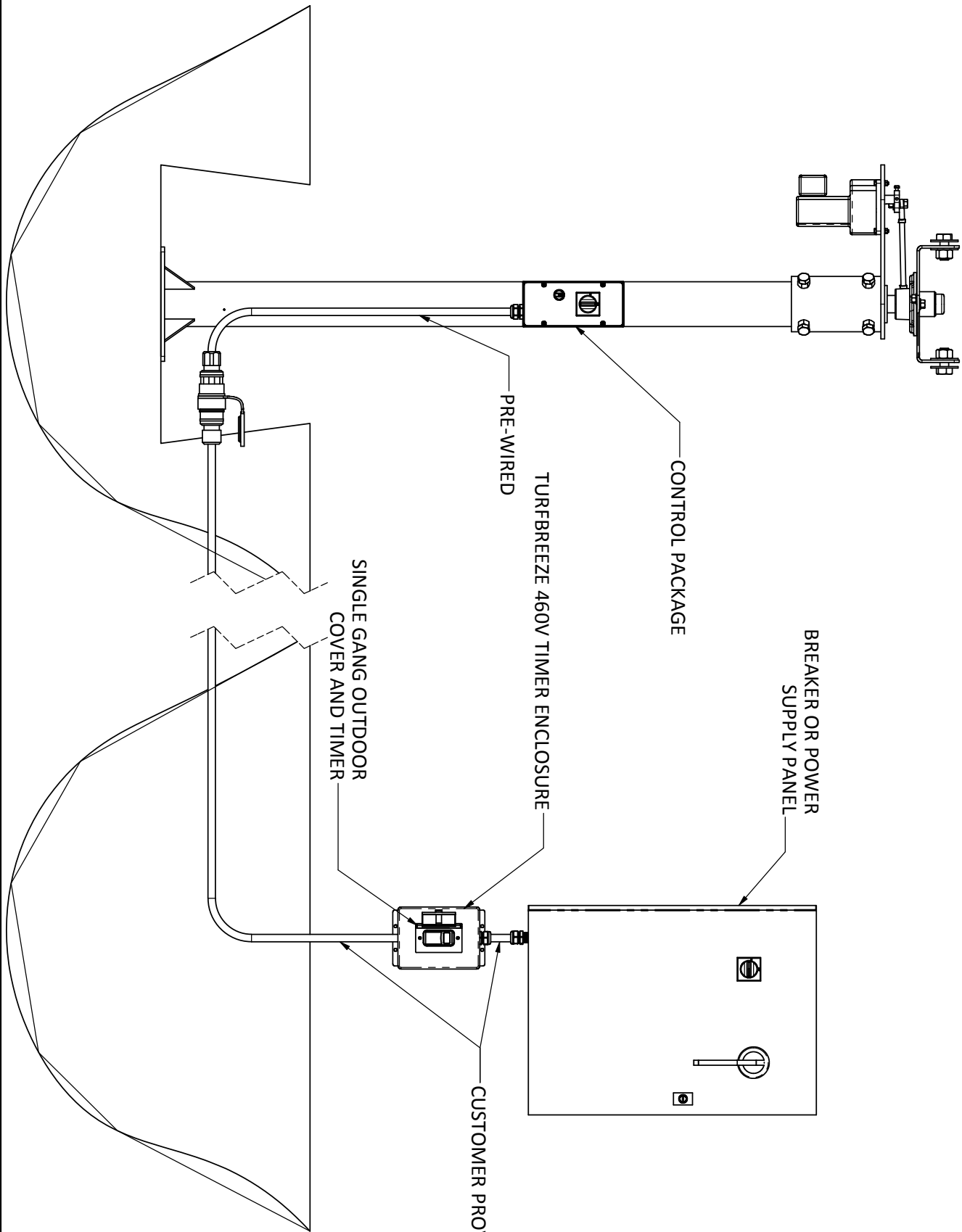


510 Bettis Academy Rd
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 (803) 641-6663

Title: INSTALLATION DIAGRAMS
SHEET 1 OF 6

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460V TIMER PACKAGE INSTALLATION EXAMPLE



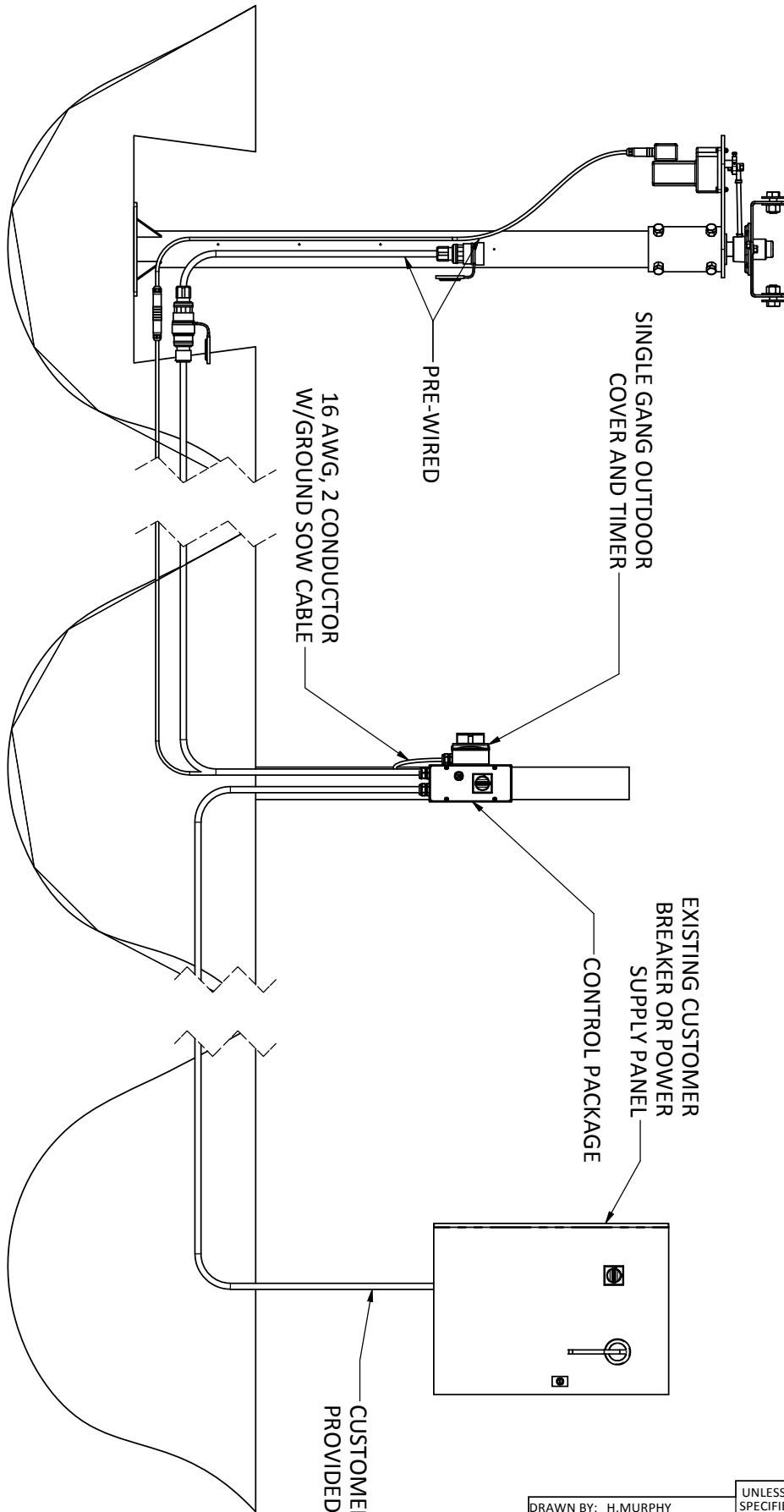
DRAWN BY: H.MURPHY	UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE: <u>FRACTIONAL</u> ± 1/16 <u>DECIMAL</u> .XX ± .01 .XXX ± .005
DATE: 8/6/2009	
REVISED BY: hmurphy	
DATE: 2/25/2010	
PRIMARY UNITS:	
SCALE: 1:14	
QTY REQ: (X)	
MAT'L: --	
FINISH: DEBUR, GRIND SHARP EDGES	



Title: INSTALLATION DIAGRAMS	
Dwg No. --	Part No. --
SHEET 2 OF 5	

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REMOTE MOUNT CONTROLS WITH TIMER OPTION INSTALLATION EXAMPLE:



DRAWN BY: H.MURPHY	UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE: <u>FRACTIONAL</u> ± 1/16 <u>DECIMAL</u> .XX ± .01 .XXX ± .005
DATE: 8/6/2009	
REVISED BY: hmurphy	
DATE: 3/4/2010	
PRIMARY UNITS:	
SCALE: 1:20	
QTY REQ: (X)	
MAT'L: --	
FINISH: DEBUR, GRIND SHARP EDGES	



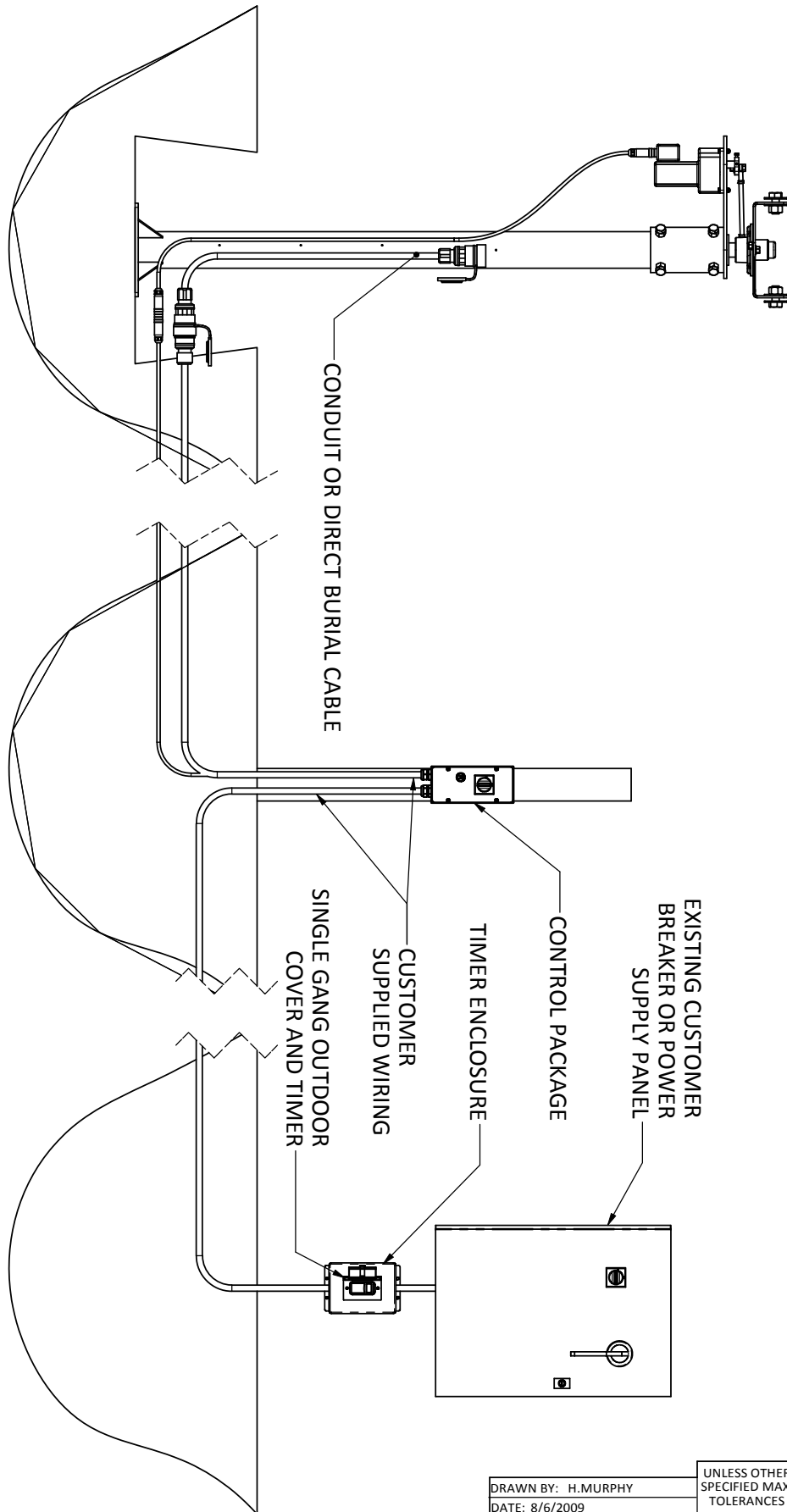
510 Bettis Academy Rd
 Graniteville, SC 29829
 (803) 641-6663

Title: TurfBreeze Control Package Installation Diagram

Dwg No. Part No. SHEET 3 OF 5

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460V REMOTE MOUNT CONTROLS WITH TIMER OPTION INSTALLATION EXAMPLE:



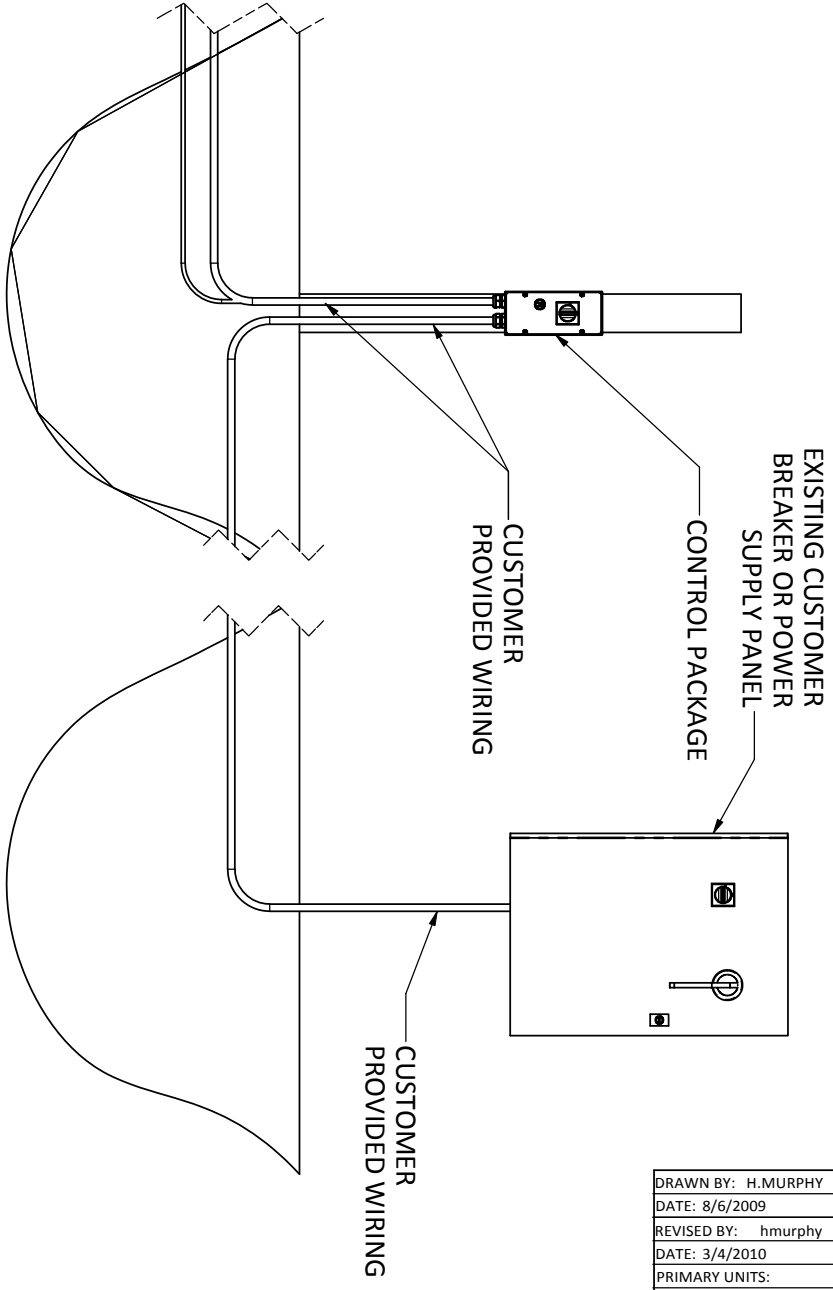
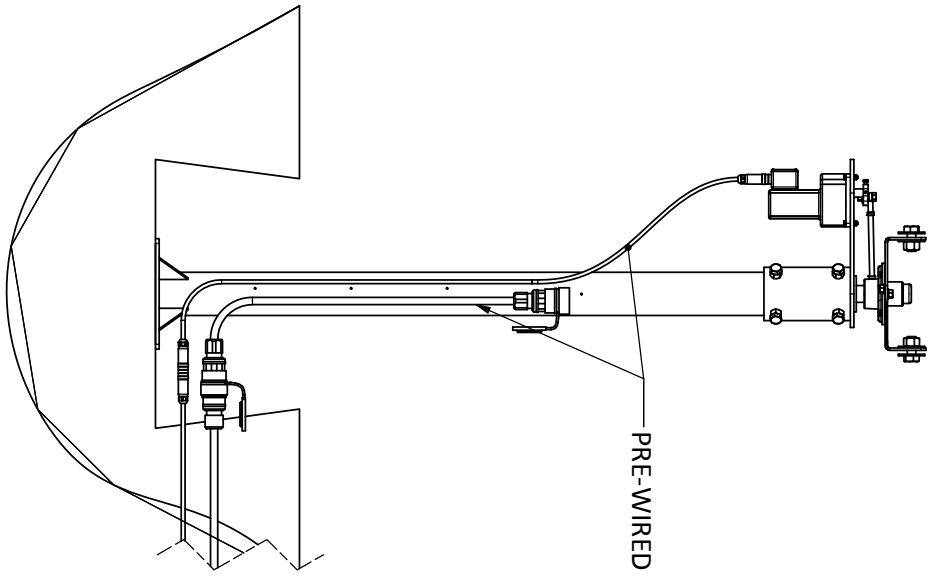
DRAWN BY: H.MURPHY	UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:
DATE: 8/6/2009	
REVISED BY: hmurphy	<u>FRACTIONAL</u>
DATE: 3/4/2010	± 1/16
PRIMARY UNITS:	<u>DECIMAL</u>
SCALE: 1:20	.XX ± .01
QTY REQ: (X)	.XXX ± .005
MAT'L: --	
FINISH: DEBUR, GRIND SHARP EDGES	



Title: TurfBreeze Installation Diagram	
Dwg No. --	Part No. --
SHEET 5 OF 5	

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STD. PACKAGE, ALL VOLTAGES, REMOTE MOUNT CONTROLS INSTALLATION EXAMPLE:



DRAWN BY: H.MURPHY	UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE: <u>FRACTIONAL</u> ± 1/16 <u>DECIMAL</u> .XX ± .01 .XXX ± .005
DATE: 8/6/2009	
REVISED BY: hmurphy	
DATE: 3/4/2010	
PRIMARY UNITS:	
SCALE: 1:20	
QTY REQ: (X)	
MAT'L: --	
FINISH: DEBUR, GRIND SHARP EDGES	



510 Bettis Academy Rd
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Title: TurfBreeze Installation Diagram	
Dwg No. --	Part No. --
SHEET 4 OF 5	

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The Most Respected Name in Surface Aeration

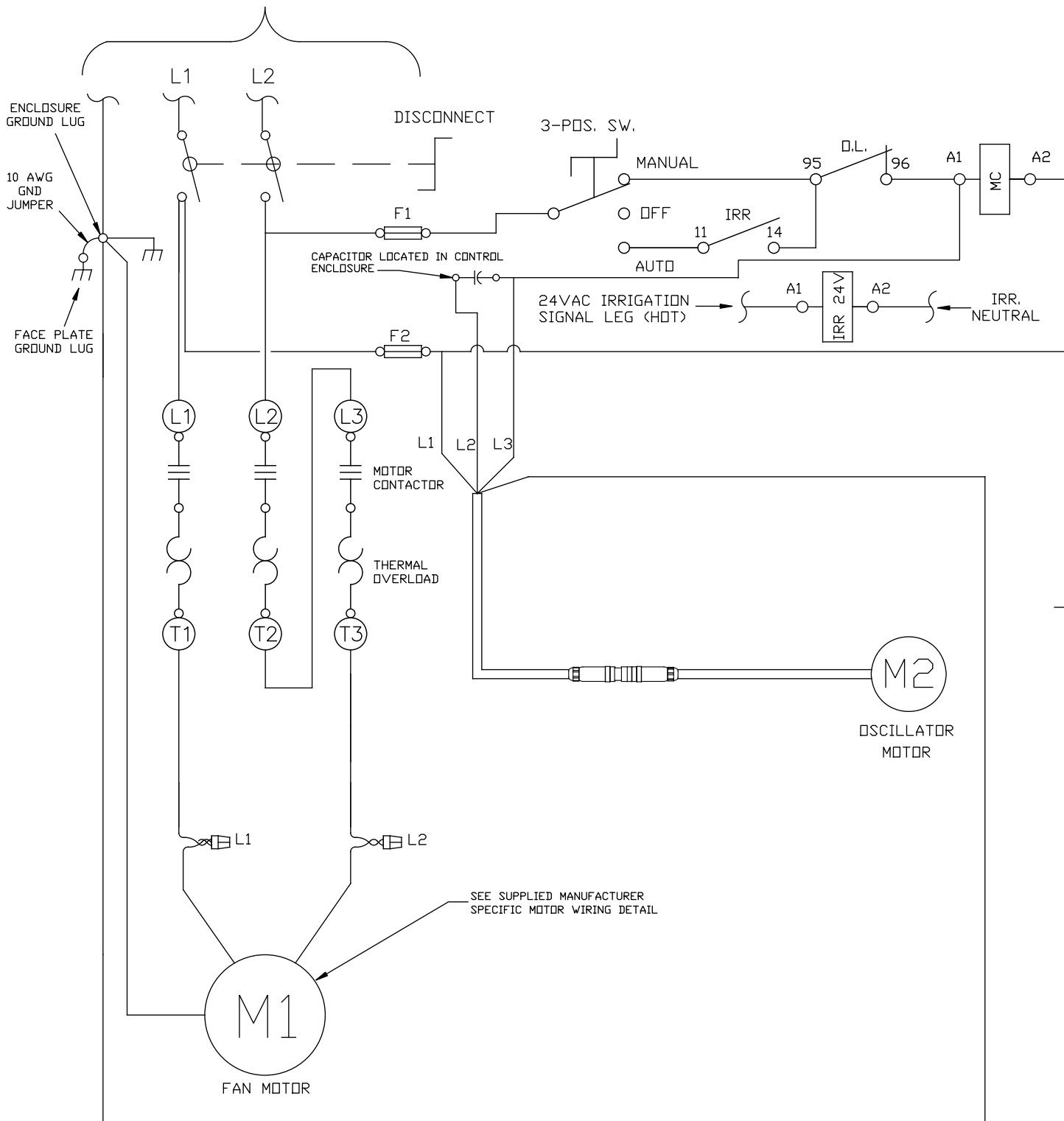


A Division of SubAir Systems 510 Bettis Academy Road Graniteville, SC 29829 866.641.6663 info@turbreeze.com

Electrical Schematics Bundle

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208-230 VAC 1 ϕ , 3-WIRE POWER SUPPLY



DRAWN BY:	H.MURPHY
DATE:	12/08/06
REVISED BY:	H.MURPHY
DATE:	4/13/10
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:

FRACTIONAL
±1/8

DECIMAL
.XX ±.01
.XXX ±.005

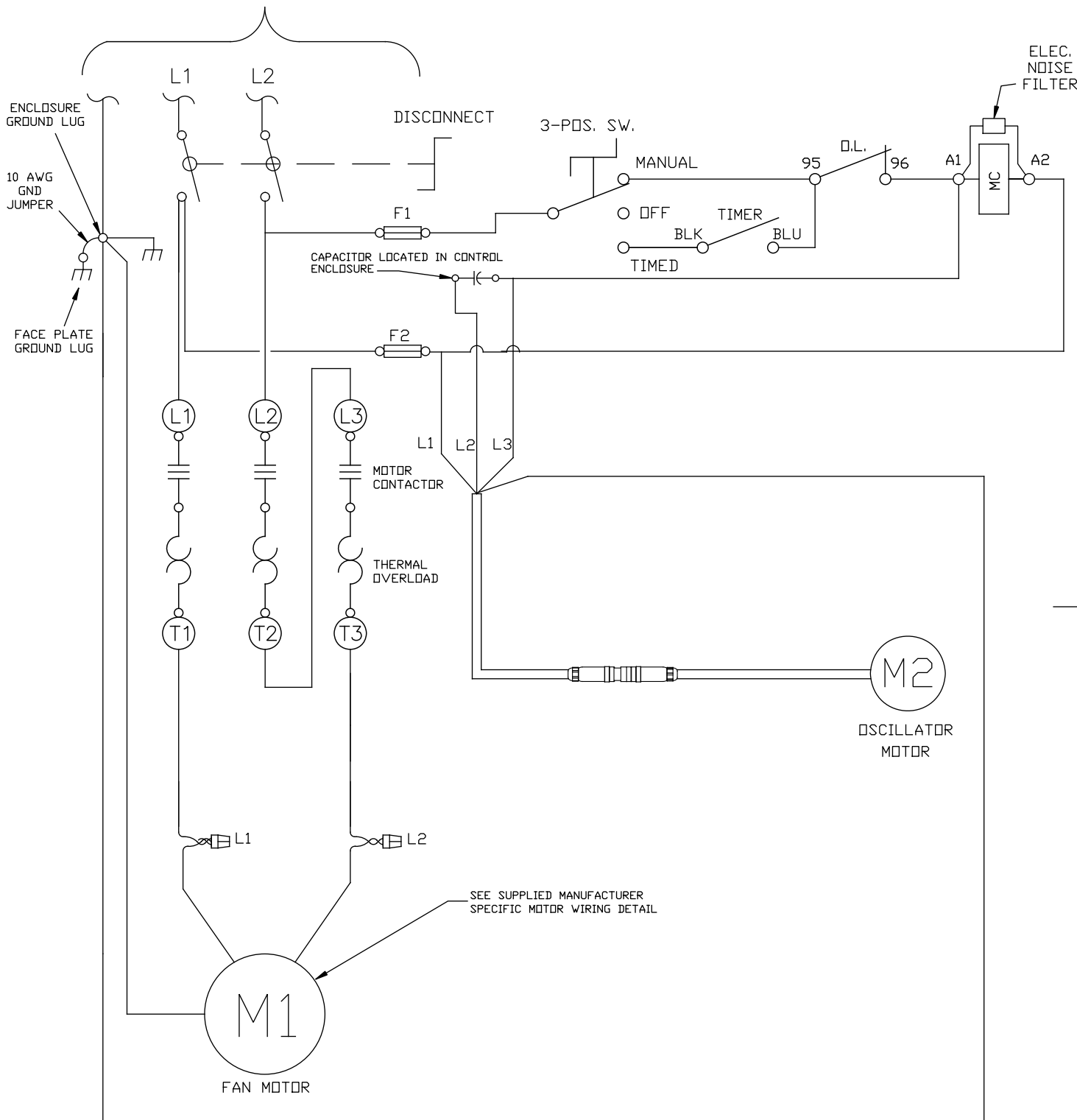


510 Bettis Academy Rd
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(803) 641-6663

Title: 1 ϕ FAN CONTROL WIRING, STD.
Dwg No. ----

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208-230 VAC 1Ø, 3-WIRE
POWER SUPPLY



DRAWN BY:	H.MURPHY
DATE:	12/08/06
REVISED BY:	H.MURPHY
DATE:	4/13/10
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:

FRACTIONAL
±1/8

DECIMAL
.XX ±.01
.XXX ±.005

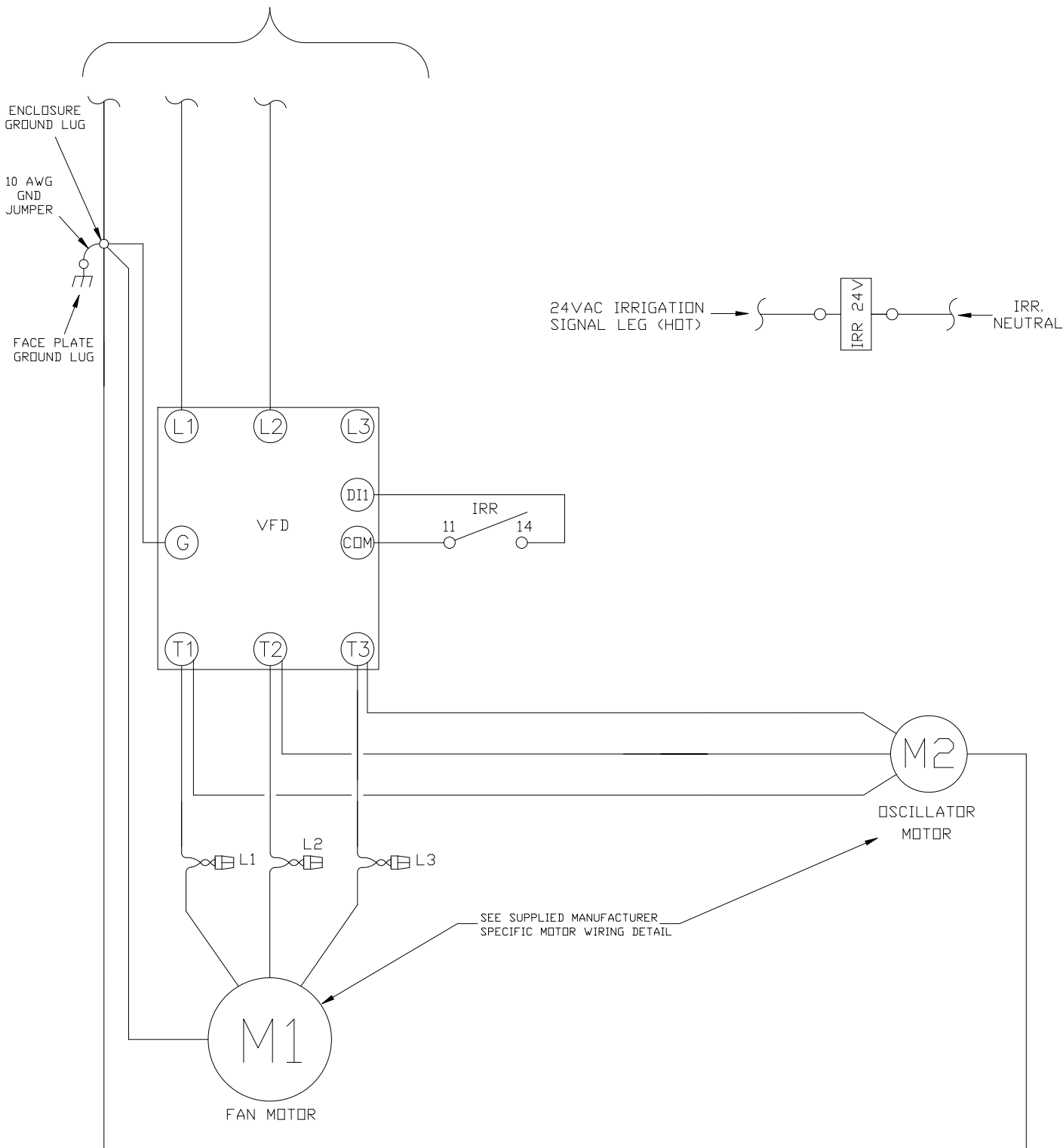


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Title:	1Ø FAN CONTROL WIRING, TMR
Dwg No.	----

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200-240VAC 1 ϕ , 3-WIRE
POWER SUPPLY



SEE SUPPLIED MANUFACTURER
SPECIFIC MOTOR WIRING DETAIL

DRAWN BY:	H.MURPHY
DATE:	12/08/06
REVISED BY:	H.MURPHY
DATE:	4/13/10
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:
FRACTIONAL
± 1/8
DECIMAL
.XX ± .01
.XXX ± .005

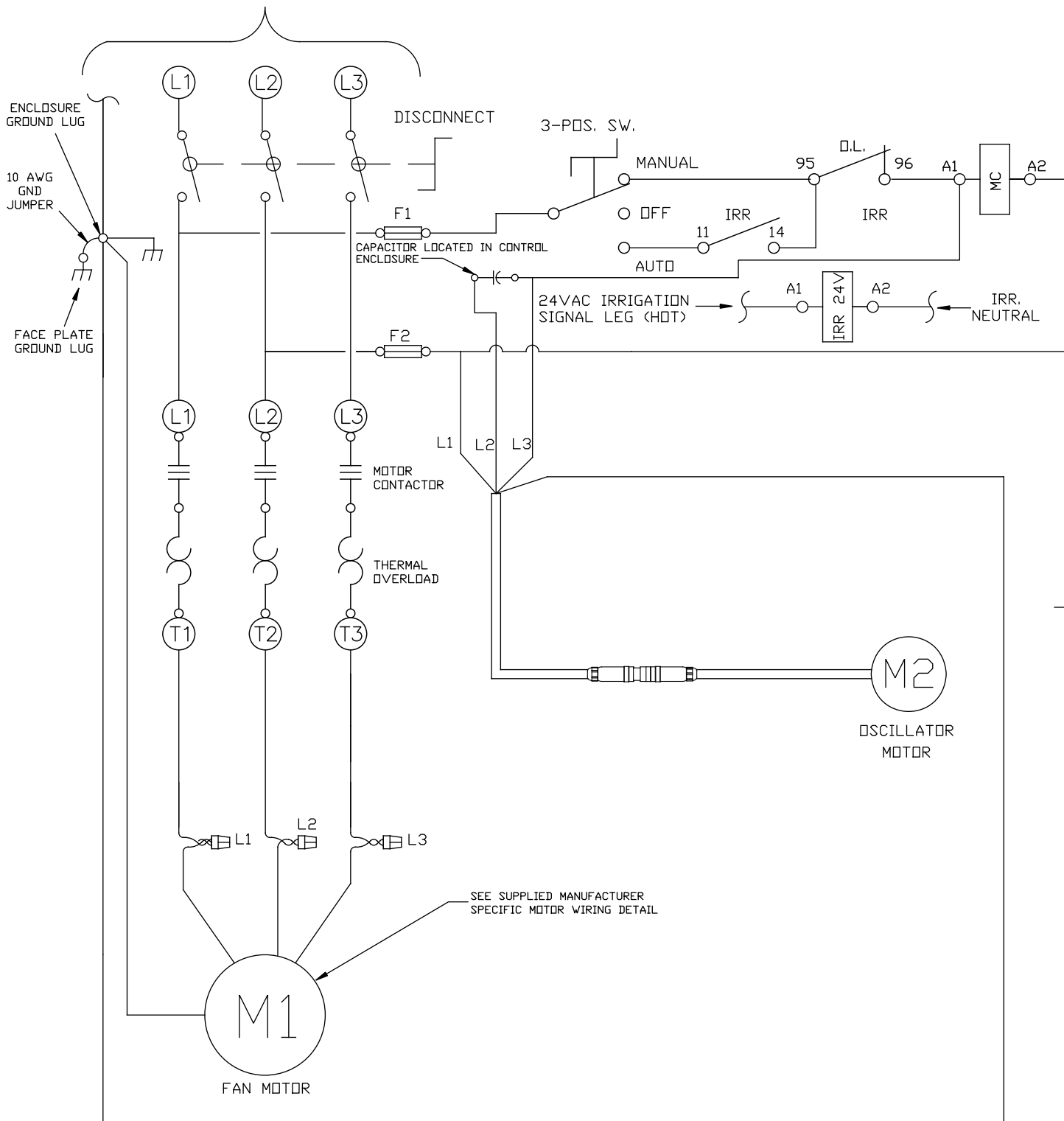


510 Bettis Academy Rd
Graniteville, SC 29829
(803) 641-6663

Title:	200-240V, 3 ϕ VFD FAN CONTROL WIRING STD.
Dwg No.	----

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208-230VAC, 3 ϕ , 4-WIRE
POWER SUPPLY



DRAWN BY:	H.MURPHY
DATE:	1/08/13
REVISED BY:	----
DATE:	----
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

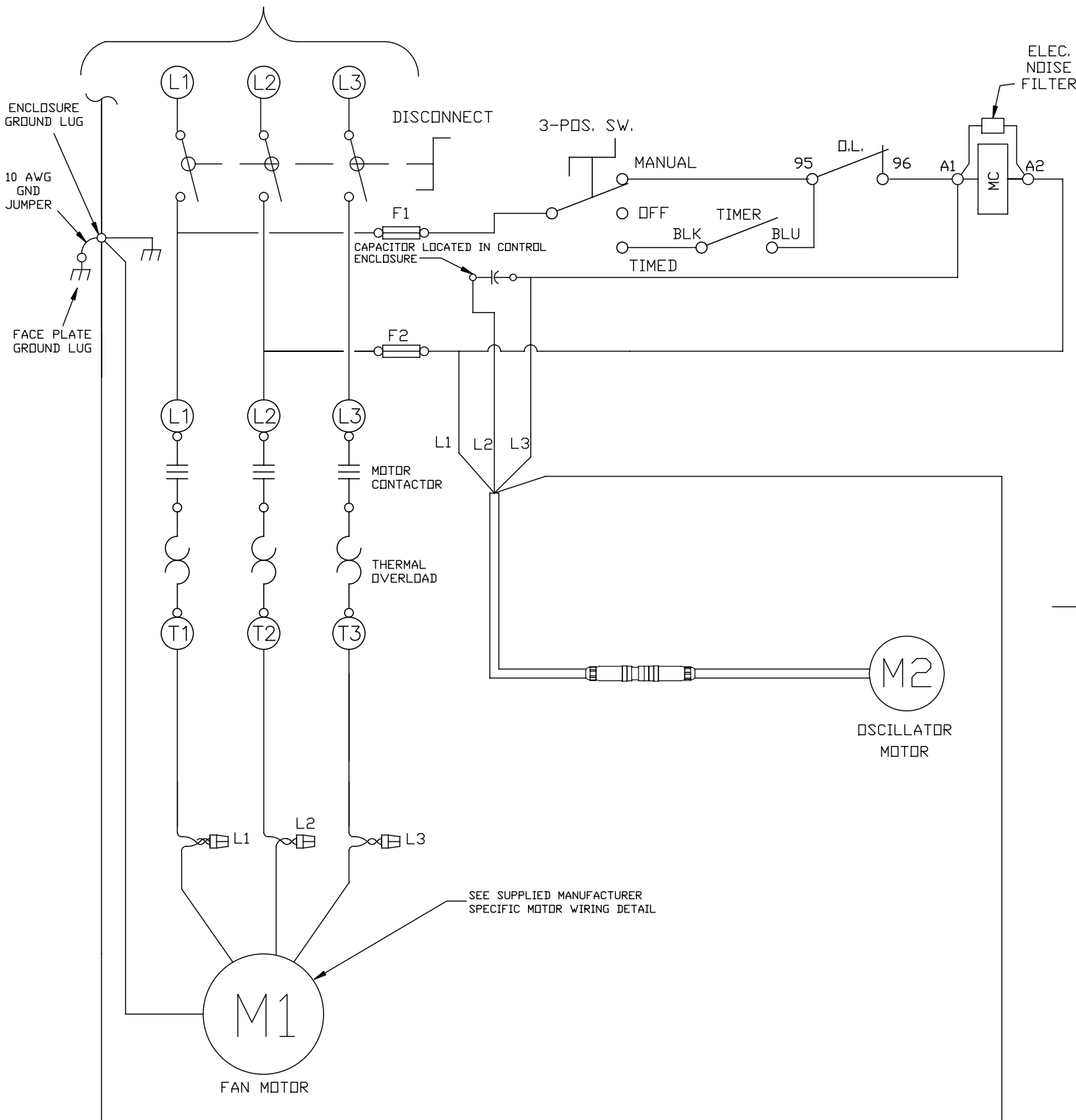
UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:
FRACTIONAL
 ±1/8
DECIMAL
 .XX ±.01
 .XXX ±.005



Title: **3 ϕ FAN CONTROL WIRING, STD.**
 Dwg No. -----

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208-230VAC, 3 ϕ , 4-WIRE
POWER SUPPLY



DRAWN BY:	H.MURPHY
DATE:	12/08/06
REVISED BY:	H.MURPHY
DATE:	4/13/10
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:
FRACTIONAL
 ±1/8
DECIMAL
 .XX ±.01
 .XXX ±.005

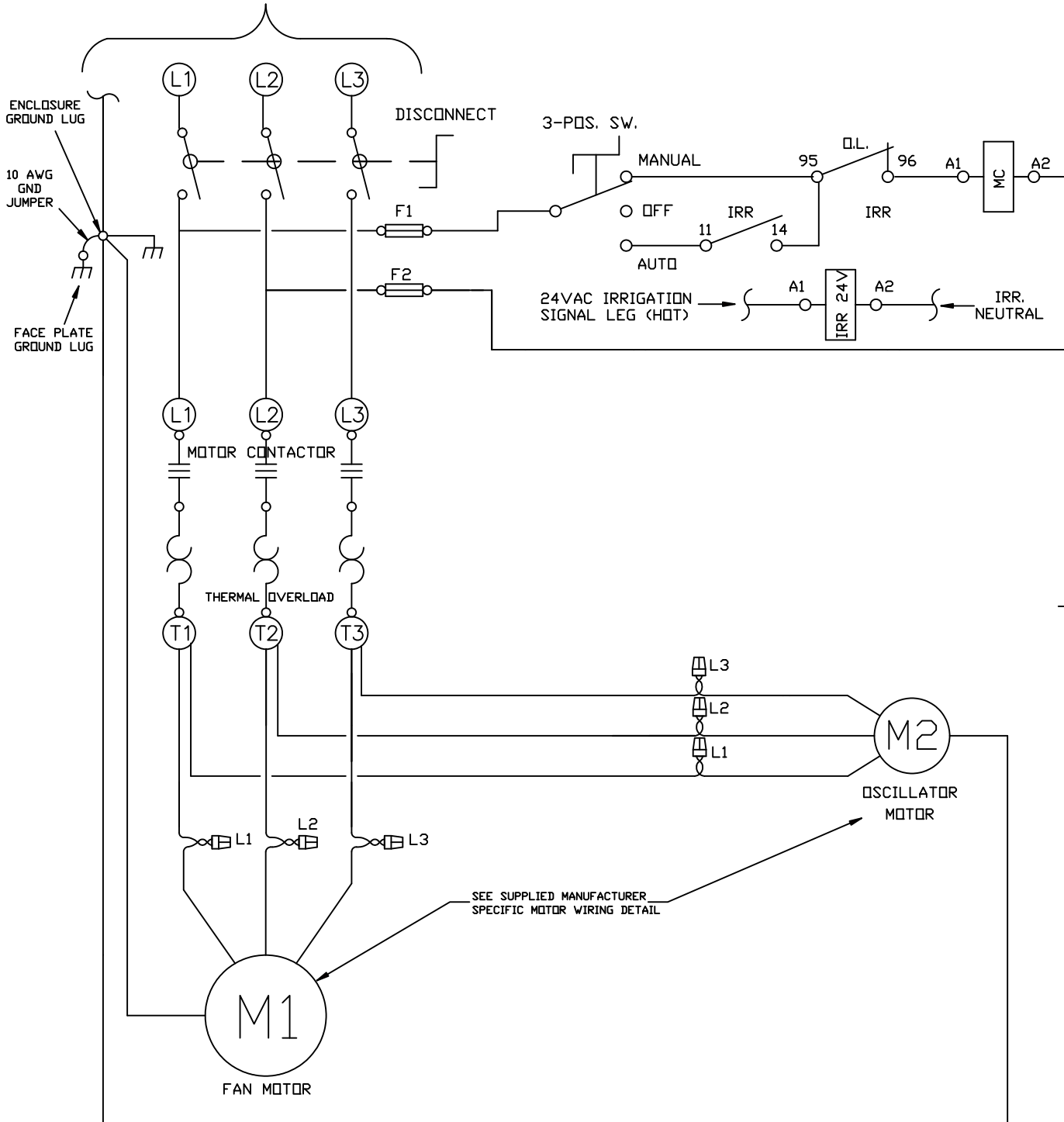


510 Bettis Academy Rd
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Title: **3 ϕ FAN CONTROL WIRING, TMR.**
 Dwg No. -----

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415VAC
460VAC 3 ϕ , 4-WIRE
POWER SUPPLY



DRAWN BY:	H.MURPHY
DATE:	12/08/06
REVISED BY:	H.MURPHY
DATE:	4/21/10
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:
 FRACTIONAL
 ± 1/8
 DECIMAL
 .XX ± .01
 .XXX ± .005

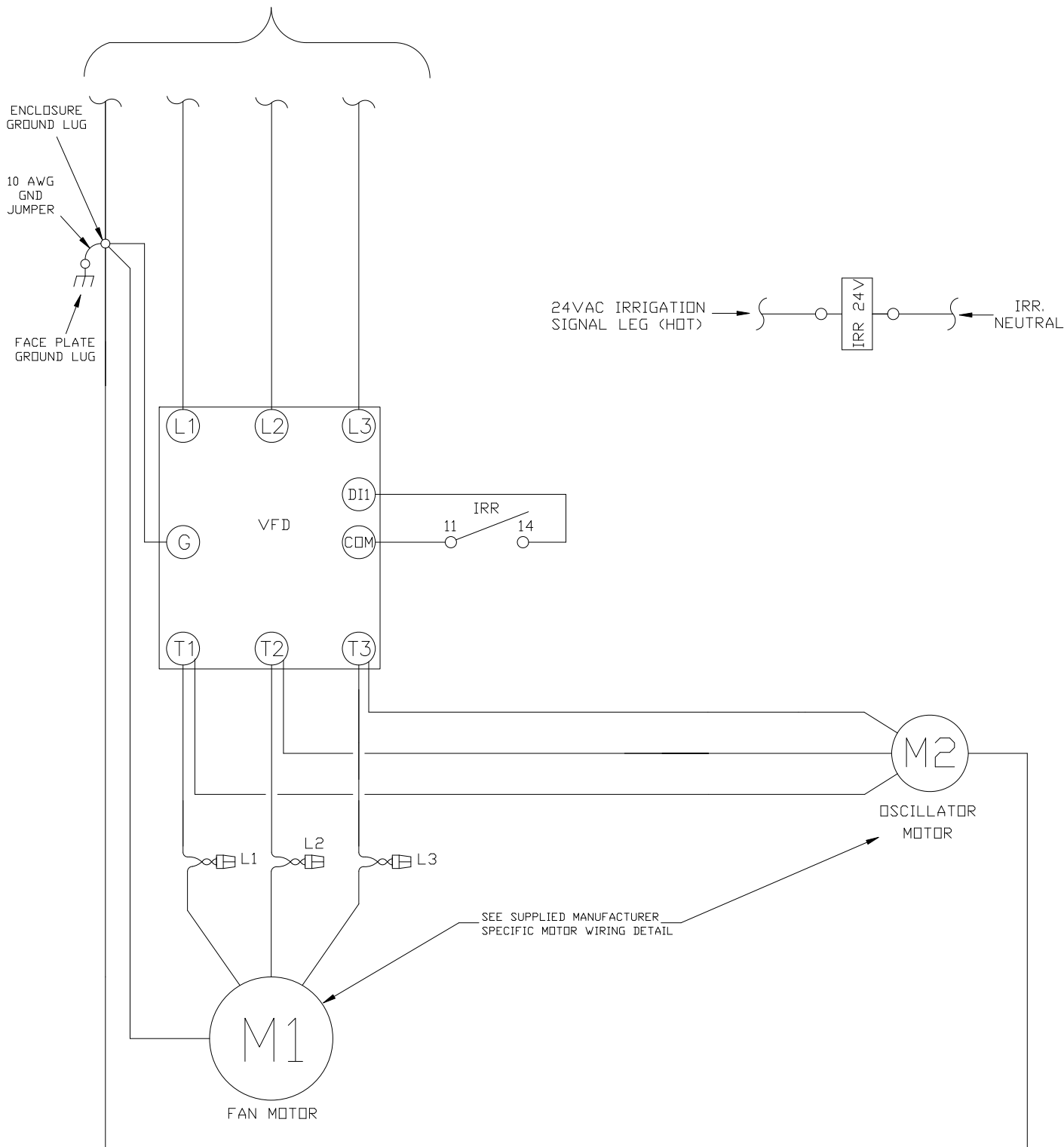


510 Bettis Academy Rd
Graniteville, SC 29829
(803) 641-6663

460V, 3 ϕ FAN CONTROL WIRING STD.
 Title: -----
 Des. No. -----

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200-600VAC 3 ϕ , 4-WIRE
POWER SUPPLY



DRAWN BY:	H.MURPHY
DATE:	12/08/06
REVISED BY:	H.MURPHY
DATE:	4/13/10
PRIMARY UNITS:	----
SCALE:	N/A
QTY REQ:	(X)
MAT'L:	----
FINISH:	----

UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:

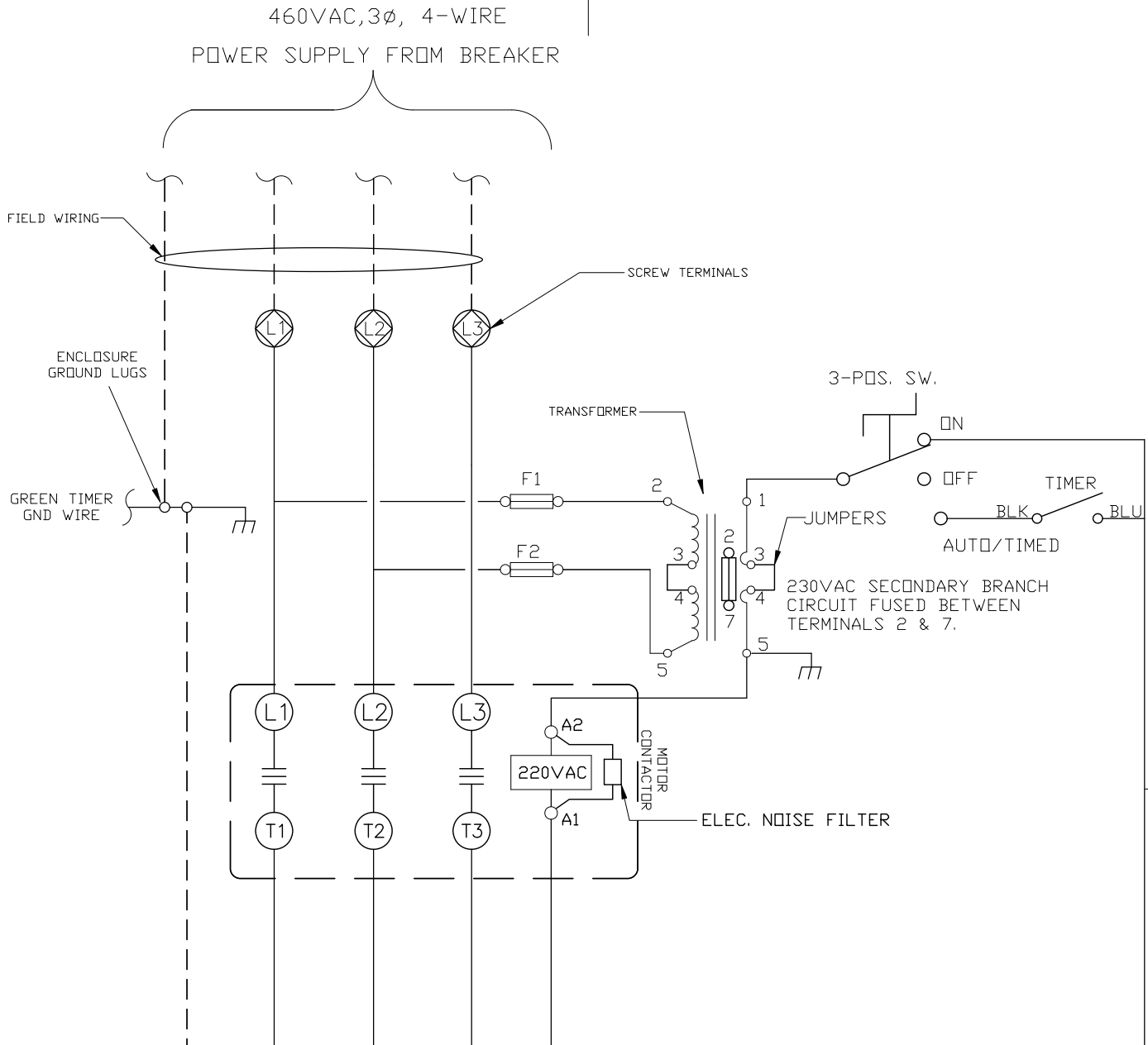
FRACTIONAL
± 1/8

DECIMAL
.XX ± .01
.XXX ± .005



510 Bettis Academy Rd
Graniteville, SC 29829
(803) 641-6663

Title: 200-600V, 3 ϕ VFD FAN CONTROL WIRING STD.
Dwg No. -----

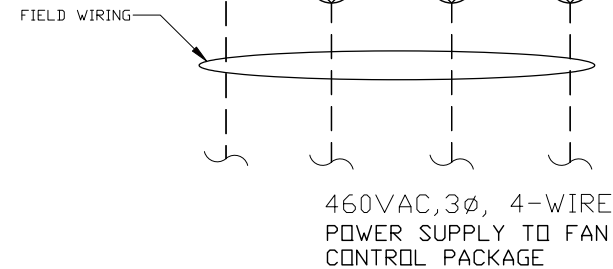


INSTRUCTIONS
TIMER PACKAGE SWITCH POSITIONS-

OFF - FAN WILL NOT OPERATE (DO NOT USE AS SAFETY DISCONNECT)

MANUAL - NORMAL OPERATION FROM FAN CONTROL PACKAGE

TIMED - POWER WILL BE SENT TO THE FAN CONTROL PACKAGE ON THE INTERVALS SET IN THE TIMER. MODE SWITCH AT FAN CONTROL PACKAGE TO BE LEFT IN THE "ON" POSITION.



460VAC, 3 ϕ , 4-WIRE
 POWER SUPPLY TO FAN
 CONTROL PACKAGE

DRAWN BY: H.MURPHY	UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:
DATE: 12/08/06	
REVISED BY: H.MURPHY	FRACTIONAL
DATE: 2/25/10	± 1/8
PRIMARY UNITS: ----	DECIMAL
SCALE: N/A	.XX ± .01
QTY REQ: (X)	.XXX ± .005
MAT'L: ----	
FINISH: ----	



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 (803) 641-6663

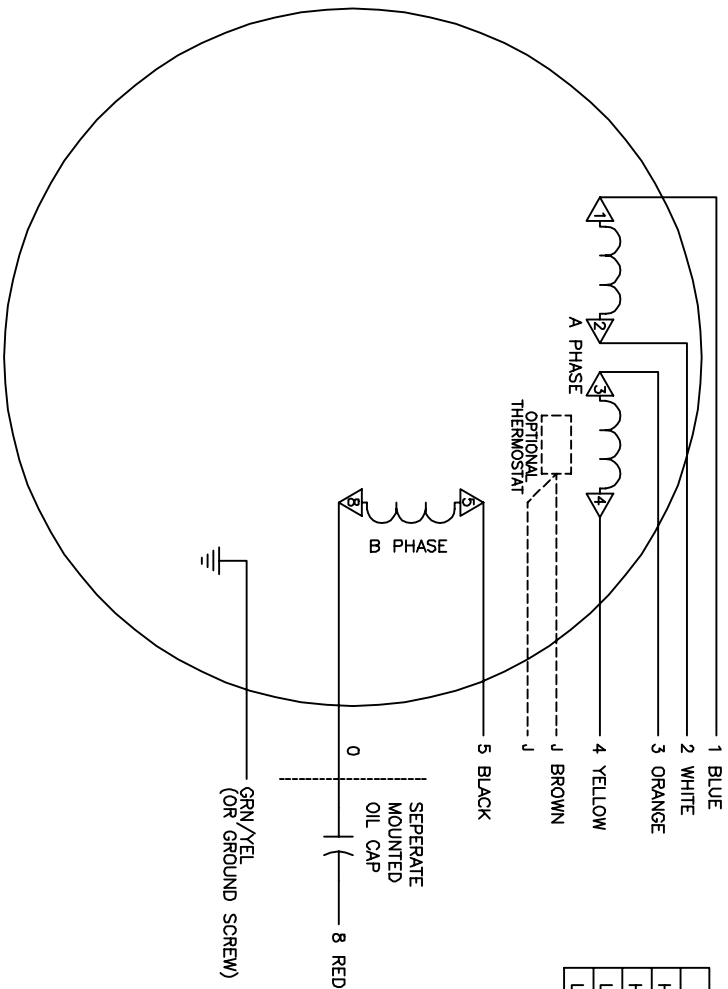
Title: 460V, 3 ϕ
 FAN TIMER PACKAGE

Draw No. ----

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CD0491A01

	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	-
LOW OPP	1,3,5	2,4,8	-



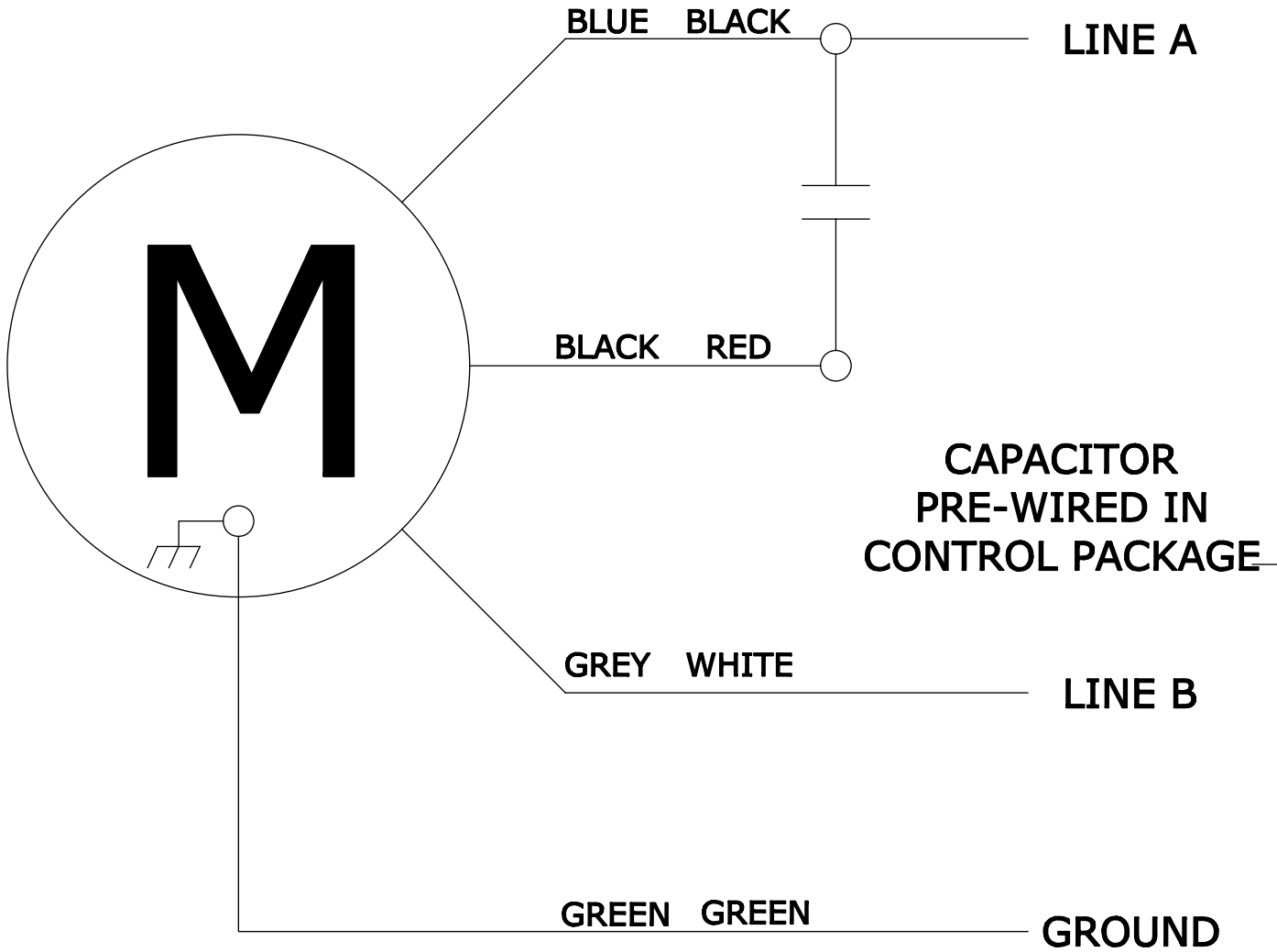
- NOTES:
1. STANDARD ROTATION IS CCW VIEWING LEAD END.
 2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
 3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.
 5. = MAGNET WIRE COIL END WITH I.D. NUMBER.

REV. DESC: CHANGE TO CLARKSVILLE STANDARD		TDR: 000000384488		BALDOR ELECTRIC Co.	
REV. LTR: D	VERSION: 03	REVISED: 13:48:58 04/20/2006	BY: CKANTTO		
10V16P00D	FILE: \CKA\00005\827	MTL: -		TYPE C, DV, REV, 6 LD, SEP CAP, CK	
				CD0491A01	

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BROTHER GEAR MOTOR

115VAC, 1 ϕ



DRAWN BY: H.MURPHY
DATE: 6/05/07
REVISED BY: H.MURPHY
DATE: 6/28/07
PRIMARY UNITS:----
SCALE: N/A
QTY REQ: (X)
MAT'L: ----
FINISH:----

UNLESS OTHERWISE
 SPECIFIED MAXIMUM
 TOLERANCES ARE:
FRACTIONAL
 ± 1/8
DECIMAL
 .XX ± .01
 .XXX ± .005

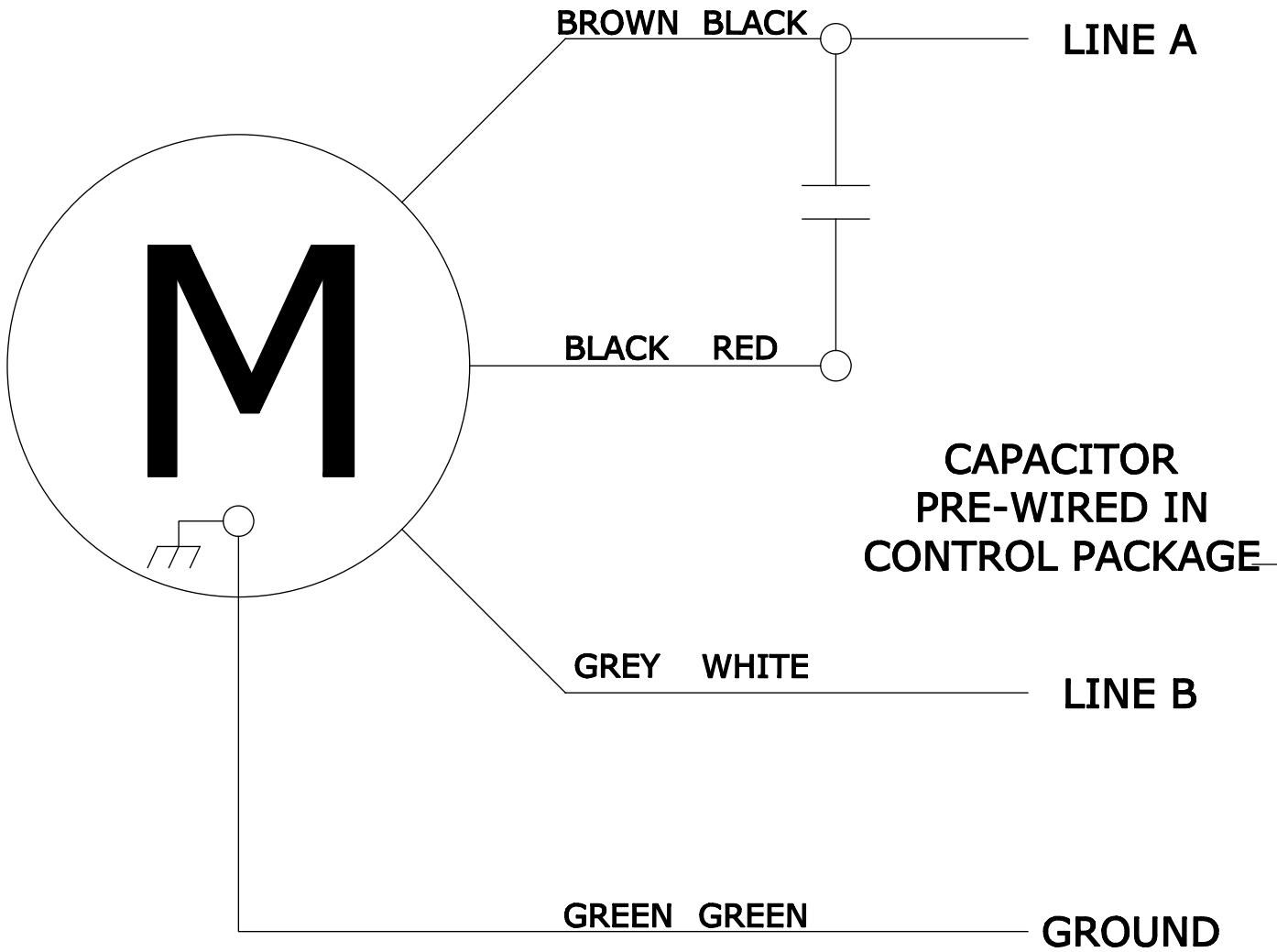


510 Bettis Academy Rd
 Graniteville, SC 29829
 (803) 641-6663

Title: **BROTHER GEAR MOTOR WIRING**
 --
 Dwg No. **###**

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BROTHER GEAR MOTOR 208-230VAC, 1Ø & 3Ø



DRAWN BY: H.MURPHY
DATE: 6/05/07
REVISED BY: H.MURPHY
DATE: 6/28/07
PRIMARY UNITS:----
SCALE: N/A
QTY REQ: (X)
MAT'L: ----
FINISH:----

**UNLESS OTHERWISE
 SPECIFIED MAXIMUM
 TOLERANCES ARE:**

FRACTIONAL
± 1/8

DECIMAL
 .XX ± .01
 .XXX ± .005



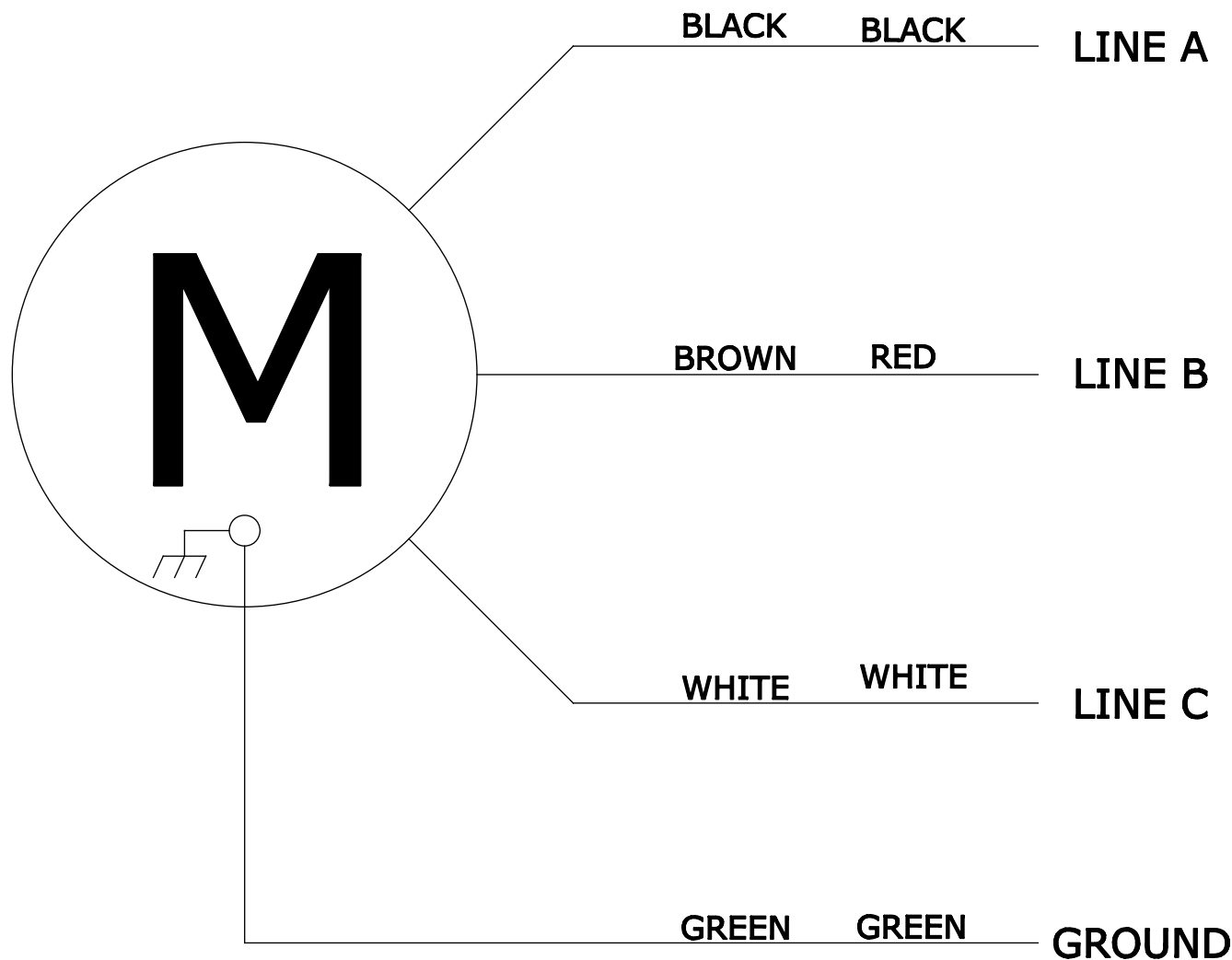
510 Bettis Academy Rd
 Graniteville, SC 29829
 (803) 641-6663

Title: BROTHER GEAR MOTOR WIRING
 --
 Dwg No. ###

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BROTHER GEAR MOTOR

460VAC, 3 ϕ



DRAWN BY: H.MURPHY
DATE: 6/05/07
REVISED BY: H.MURPHY
DATE: 6/28/07
PRIMARY UNITS:----
SCALE: N/A
QTY REQ: (X)
MAT'L: ----
FINISH:----

UNLESS OTHERWISE SPECIFIED MAXIMUM TOLERANCES ARE:

FRACTIONAL
± 1/8

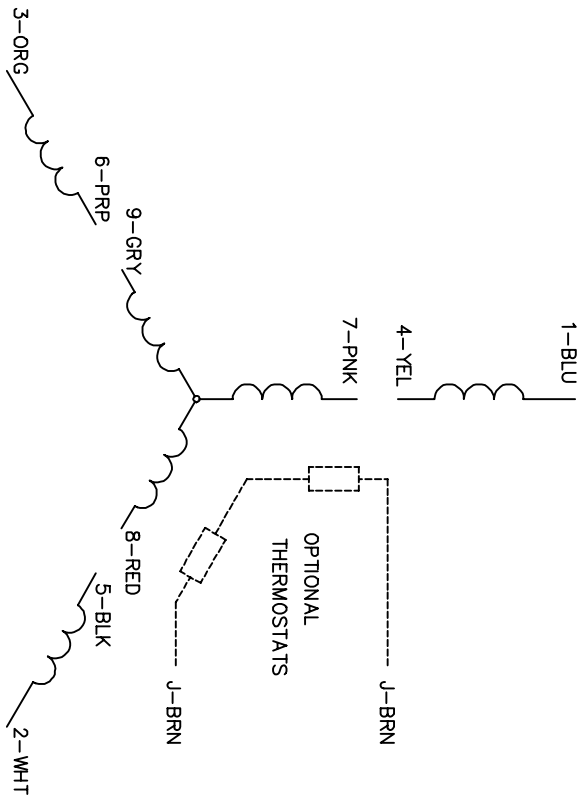
DECIMAL
.XX ± .01
.XXX ± .005



510 Bettis Academy Rd
 Graniteville, SC 29829
 (803) 641-6663

Title: BROTHER GEAR MOTOR WIRING
 --
 Dwg No. ###

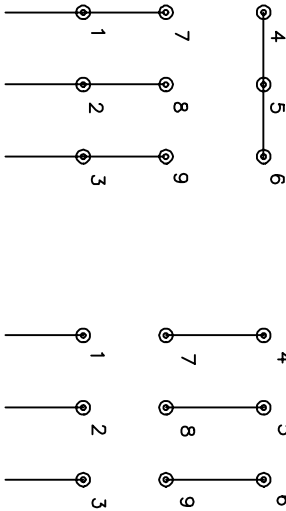
CD0005



LOW VOLTAGE
(2Y)



HIGH VOLTAGE
(1Y)



LINE

LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

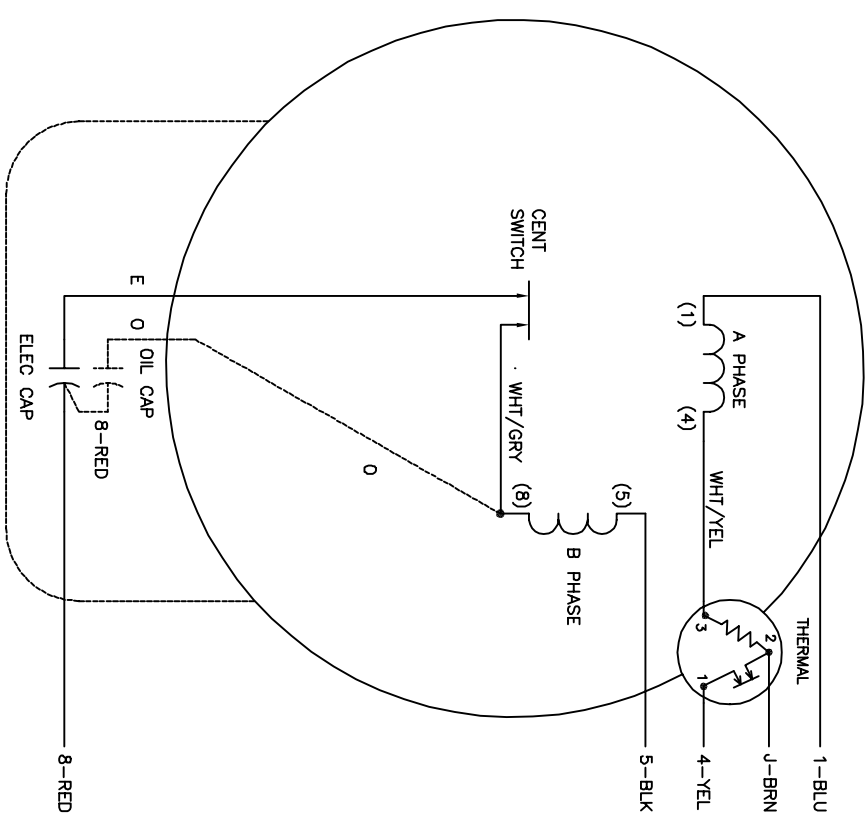
REV. DESC: REVISE TO SHOW OPTIONAL COLORS		TDR: 0171435	
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	MDL: -
500000		FILE: AAA00005140	MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005

CD0152



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	J,8

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 3. OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
 4. CAPACITORS MAY BE SEPERATELY MOUNTED.
 5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

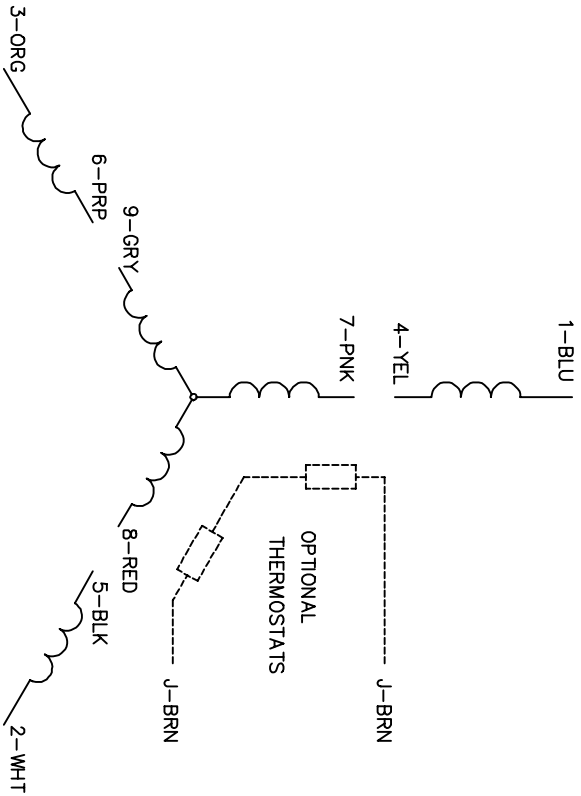
REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			
REV. LTR: D	VERSION: 01	TDR: 000000373039	
FILE: \AAA\00026\903	REVISED: 11:23:45 08/11/2005		
MTL: -		BY: ENJDEPO	
251003			

BALDOR ELECTRIC CO.

TYPE L OR LC, SV, REV, 5 LDS, THERM, CAPS MAY BE SEP MTD

CD0152

CD0005



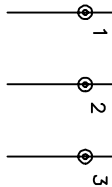
LOW VOLTAGE
(2Y)



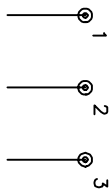
HIGH VOLTAGE
(1Y)



LINE



LINE



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

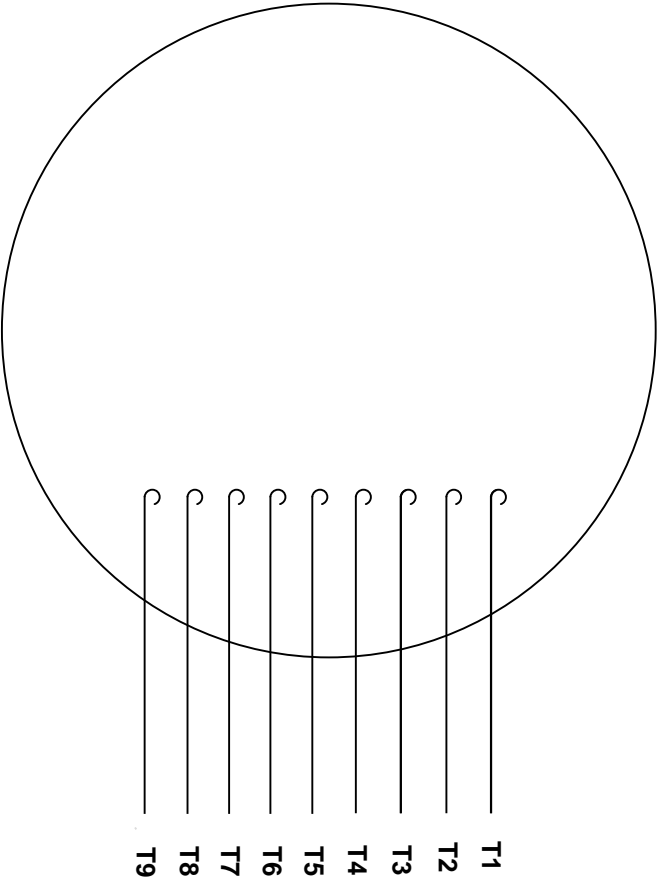
REV. DESC: REVISE TO SHOW OPTIONAL COLORS		TDR: 0171435	
REV. LTR: E	BY: JLP	REVISED: 01/19/99	10:15
50000C		FILE: AAA00005140	MDL: -
MTL: -			

BALDOR ELECTRIC Co.

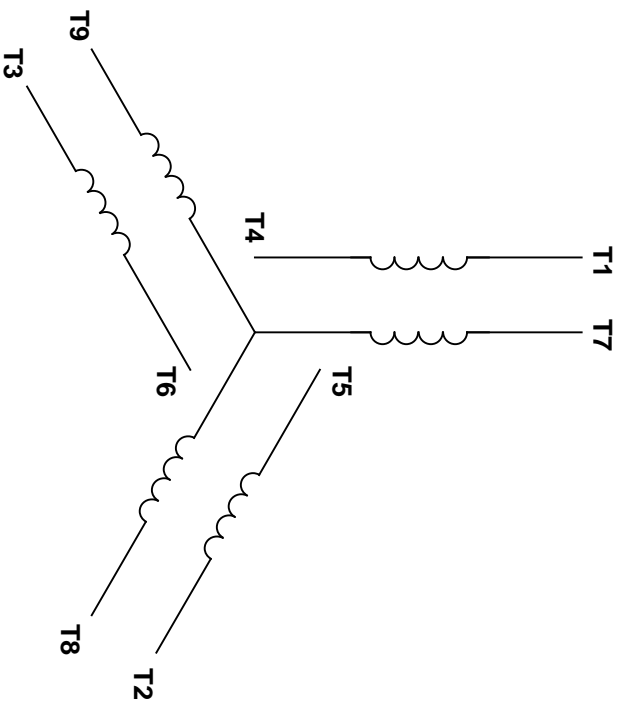
3PH, DV, 9 LEADS

CD0005

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

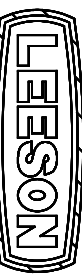


LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4, T7) (T5, T8) (T6, T9)
LOW	T1, T7	T2, T8	T3, T9	T4, T5, T6

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ELECTRIC MOTORS
 GEARMOTORS
 AND DRIVES

TITLE EXTERNAL WIRING DIAGRAM
 3 PHASE W/O PROTECTOR
 MAT'L DECAL - 004014

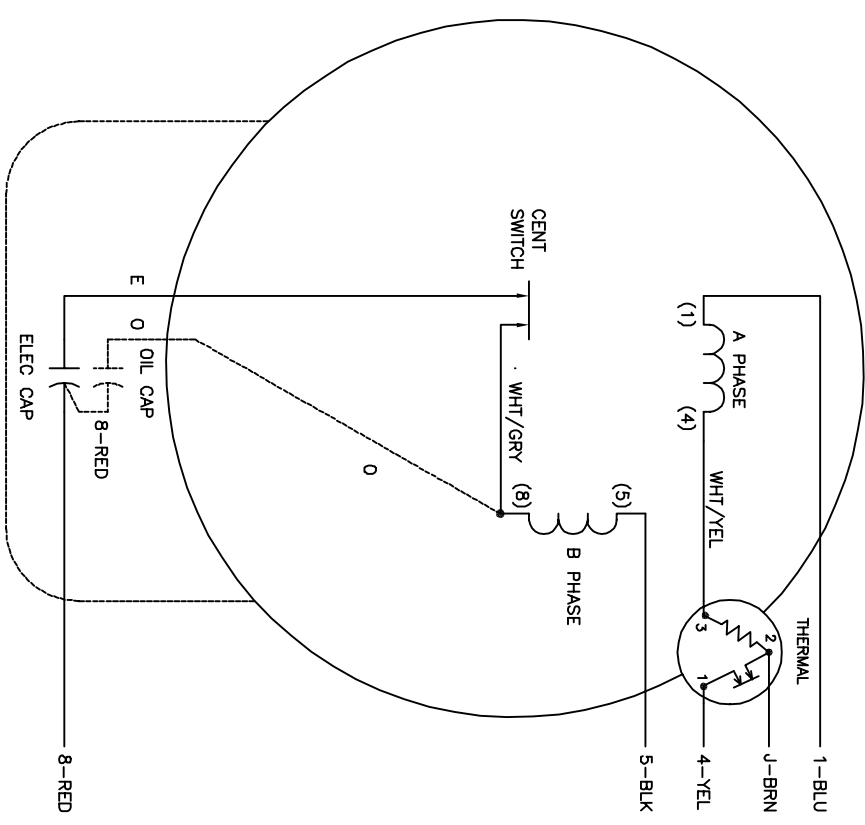
NO	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED DEC INCHES
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11			XX ±.01 X ±.1
11	ADD REV TO MATCH ORACLE	KJH 06/08/09	MDN	XXXX	±.005 ±.0005



THIRD ANGLE PROJECTION
 RFP 04/12/02
 NETWORK FILE NAME 00501001

FINISH	PREV	SIZE	DRAWING NO	REV
		A	005010-01	--
ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN RDW 04/12/02		
SCALE 1:1		CHK		
REF FIG. 2-51		APPR		
PAGE OF		FME		

CD0152



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	J,8

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 3. OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
 4. CAPACITORS MAY BE SEPERATELY MOUNTED.
 5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

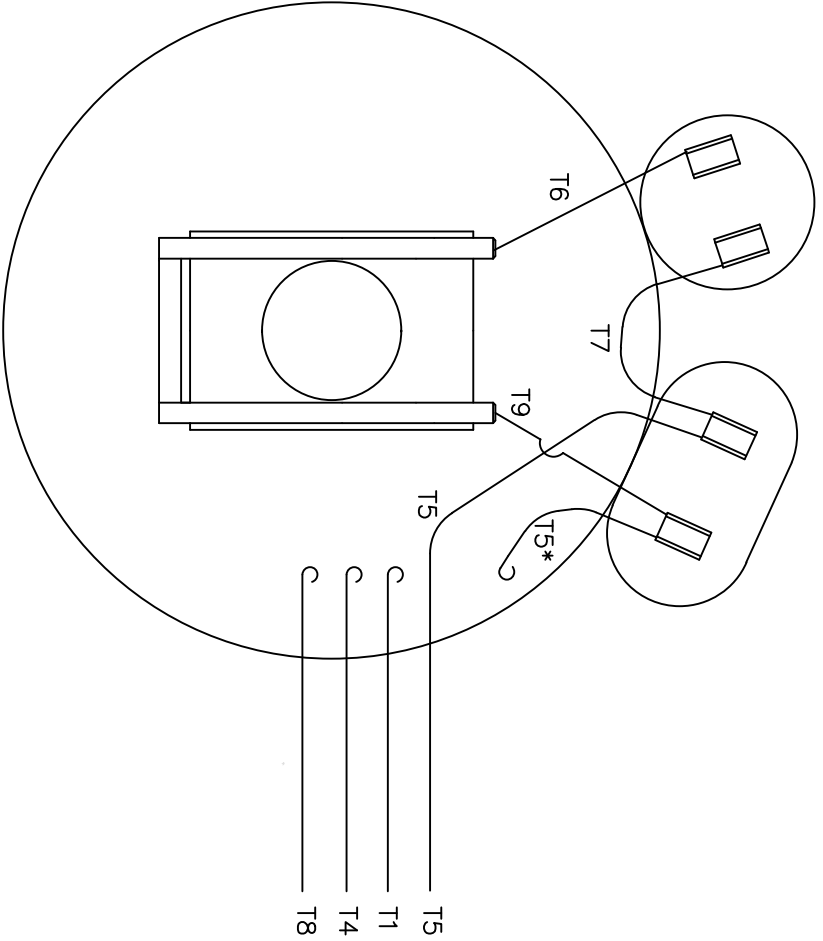
REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			
REV. LTR: D	VERSION: 01	TDR: 000000373039	
FILE: \AAA\00026\903	REVISED: 11:23:45 08/11/2005		
MTL: -		BY: ENJOEPO	
251003			

BALDOR ELECTRIC CO.

TYPE L OR LC, SV, REV, 5 LDS, THERM, CAPS MAY BE SEP MTD

CD0152

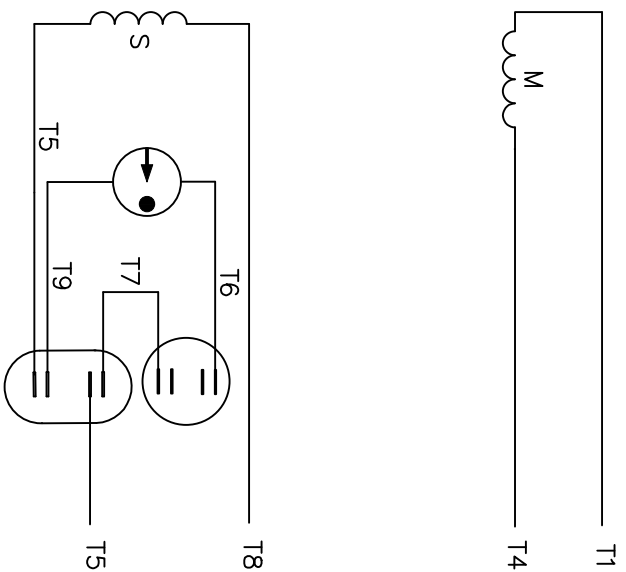
VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



* THIS LEAD MAY BE WHITE

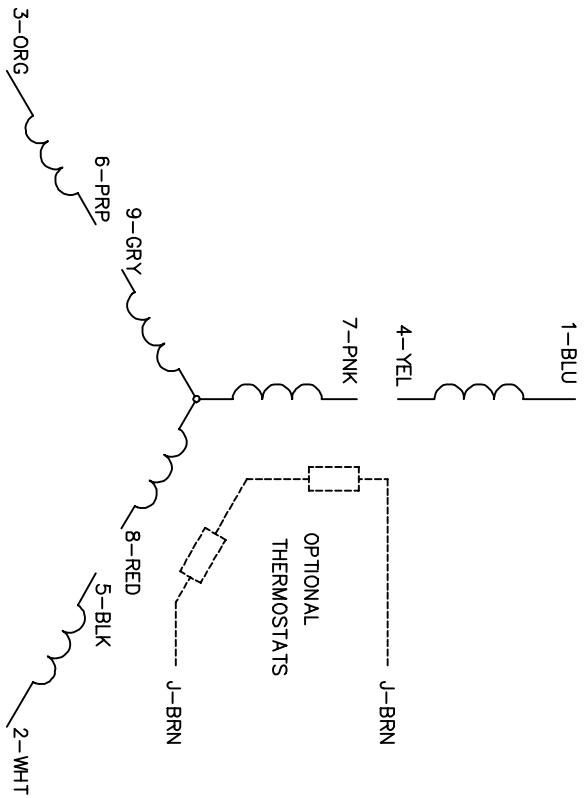
LINE LEADS

005018-01



NO.		REVISION		BY & DATE		TOLERANCES UNLESS SPECIFIED		TITLE		DRAWN	
						DEC. INCHES		EXTERNAL WIRING DIAGRAM		ADH 02/19/74	
						.X ±.1		TYPE "K" W/O PROTECTOR		CHK WRK 02/20/74	
						.XX ±.01		DECAL - 004018		APPD JCW 02/20/74	
20		ALTERNATE T5 LEAD MARKING WAS RED		RLW 7/22/02		KH .XX ±.01		FINISH		SCALE 1=1	
19		ADDED ALTERNATE T5 LEAD MARKING		RLW 5/31/02		KH .XXX ±.005		MATERIAL		REF	
18		REDRAWN ON CAD		DBT 06/24/97		.XXXX ±.0005		CAD FILE		FME	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT		RFP		CHK		ANG ±1/2"		00501801		PREV	
6/28/2007 4:39:03 PM -		DIST		BRF-NLV		CAD FILE		SIZE		DRAWING NO.	
								A		005018-01	
										REV.	
										20	

CD0005



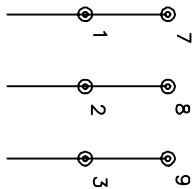
LOW VOLTAGE
(2Y)



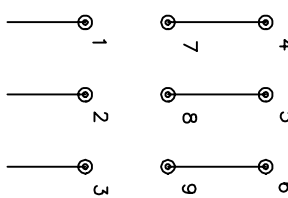
HIGH VOLTAGE
(1Y)



LINE



LINE



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

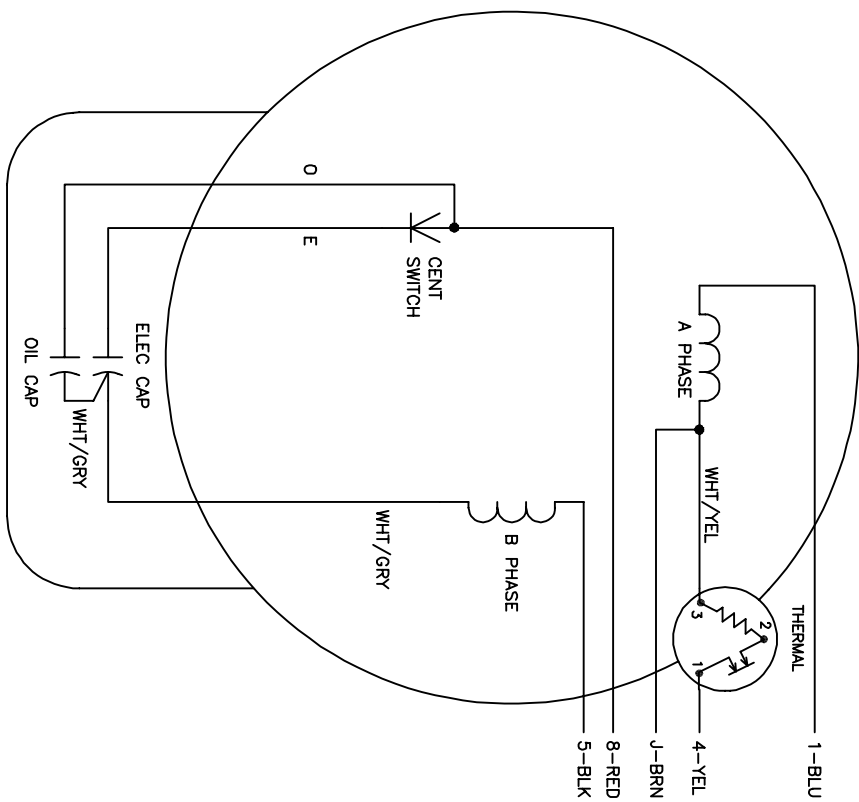
BALDOR ELECTRIC Co.

3PH, DY, 9 LEADS

REV. DESC: REVISE TO SHOW OPTIONAL COLORS		TDR: 0171435	
REV. LTR: E	BY: JLP	REVISED: 01/19/99	10:15
50000C		FILE: AAA00005140	MDL: -
MTL: -			

CD0005

CD0774



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	J,8

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

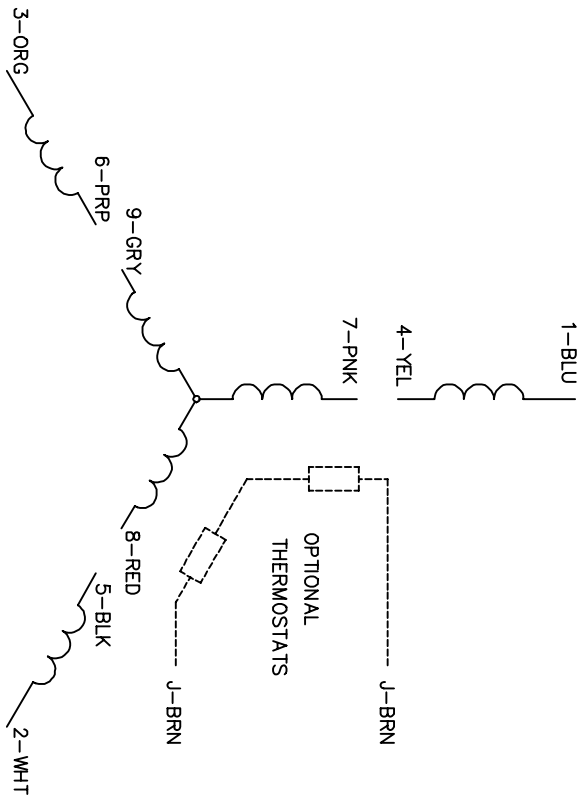
REV. DESC:	REVISE TO SHOW OPTIONAL COLORS		
REV. LTR:	B	BY:	EAH
FILE:	AAAA00007538	TDR:	0179909
MTL:	-		

BALDOR ELECTRIC Co.

TYPE LC, SV, REV, THERMAL, LINE AMPS THRU HEATER, 5 LEADS

CD0774

CD0005



LOW VOLTAGE
(2Y)



HIGH VOLTAGE
(1Y)



LINE

LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

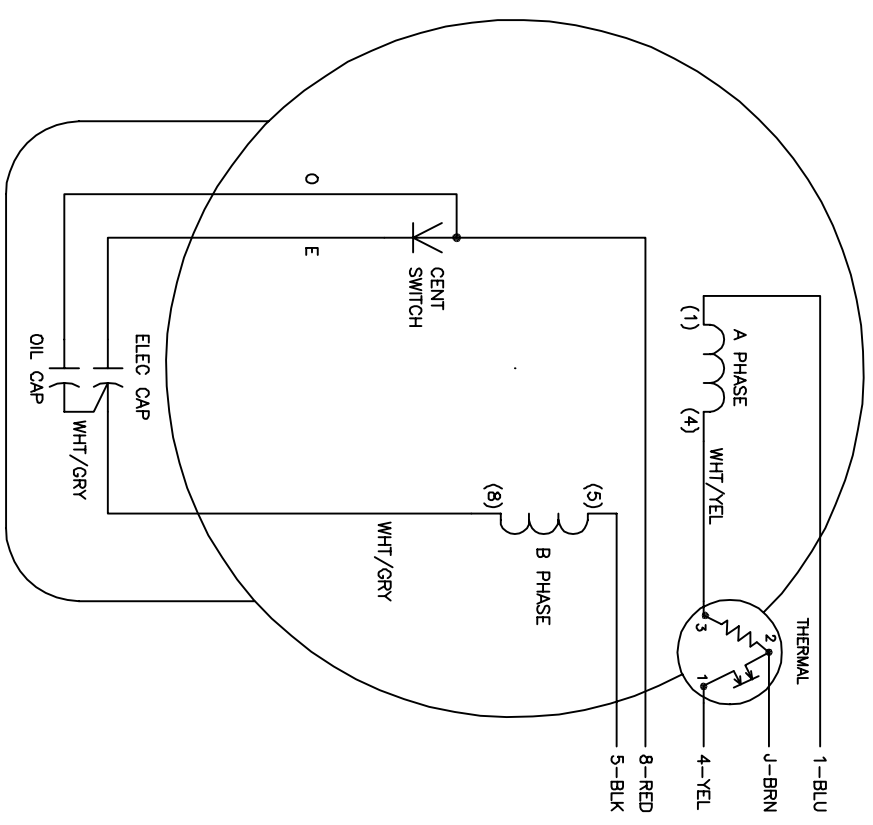
BALDOR ELECTRIC Co.

3PH, DY, 9 LEADS

REV. DESC: REVISE TO SHOW OPTIONAL COLORS		TDR: 0171435	
REV. LTR: E	BY: JLP	REVISED: 01/19/99	10:15
500000		FILE: AAA00005140	MDL: -
MTL: -			

CD0005

CD0002A02



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	J,8

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0002A04	VERSION: 01	TDR: 000000360649	BALDOR ELECTRIC Co.	
REV. LTR: D	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005		
20V2000C0	MTL: -	BY: ENJOEPO	TYPE LC, SV, REV, THERMAL, 5 LEADS	

CD0002A02