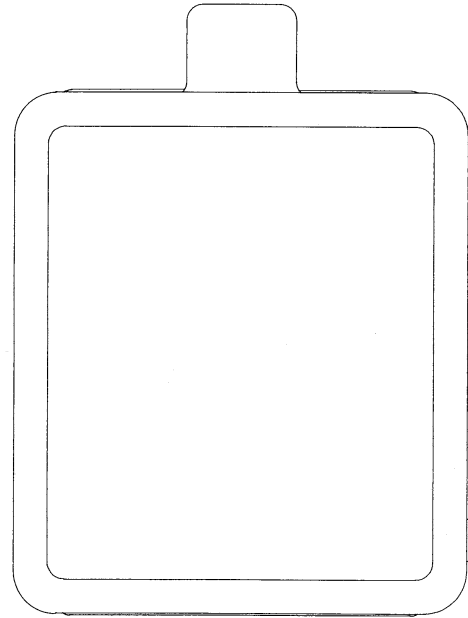




MYERS®



(NOTE: Call Myers factory for 208V applications)

MODELS CWHV3-20-23SW, CWHV3-20-23DW (1-2 HP, 208/230V, 3 PH) (3WHV PUMPS)
CWHV3-30-23SW, CWHV3-30-23DW (3 HP, 208/230V, 3 PH) (3WHV PUMPS)
CWHV3-50-23SW, CWHV3-50-23DW (5 HP, 208/230V, 3 PH) (3WHV PUMPS)
CWHV3-50-43SW, CWHV3-50-43DW (1-5 HP, 460V, 3 PH) (3WHV PUMPS)
CWHV4-30-23SW, CWHV4-30-23DW (3 HP, 208/230V, 3 PH) (4WHV PUMPS)
CWHV4-50-23SW, CWHV4-50-23DW (5 HP, 208/230V, 3 PH) (4WHV PUMPS)
CWHV4-50-43SW, CWHV4-50-43DW (1-5 HP, 460V, 3 PH) (4WHV PUMPS)
CWHV4-75-23SW, CWHV4-75-23DW (7½ HP, 208/230V, 3 PH) (4WHV PUMPS)
CWHV4-100-23SW, CWHV4-100-23DW (10 HP, 208/230V, 3 PH) (4WHV PUMPS)
CWHV4-100-43SW, CWHV4-100-43DW (7½ HP, 460V, 3 PH) (4WHV PUMPS)

CWHV3 AND CWHV4 CONTROL PANELS

INSTALLATION AND SERVICE INSTRUCTIONS FOR SIMPLEX AND DUPLEX 208/230/460 VOLT, 3 PHASE

NOTE! To the installer: Please make sure you provide this manual to the owner of the equipment or to the responsible party who maintains the system.

LOCATION AND MOUNTING

INDOOR USE

Locate the control box in a convenient location, preferably close to the pump installation. The box may be secured to a wall or other stable vertical support by use of the four mounting holes located in the mounting feet on the top and bottom of the box.

The box should be mounted approximately 5 feet from the floor to the circuit breaker handle. Care should be taken to avoid mounting the control box under sweating pipes, faucets or other damp locations.

OUTDOOR USE

The control box may be mounted at the location of the pump and basin or may be mounted in a remote location. The box should be secured to a stable vertical support which in turn should be secured to a concrete basin or footer. The box could also be mounted to the side of the house or other stationary support if available within a reasonable distance. When selecting a location, you should consider the visibility of the alarm light.

The box may be secured by the use of four mounting holes located in the mounting feet on the top and bottom of the box. The box should be mounted approximately 5 feet from the ground to the circuit breaker handle.

POWER SUPPLY

WARNING

Do not attempt to wire this control box unless you have a good working knowledge of electricity and are familiar with state and local codes. If you are in doubt about anything, contact an electrician.

Do not attempt to operate this unit on any other voltage or power distribution other than for which it was originally designed (check nameplate).

Failure to comply with this will result in the immediate cancellation of all warranties and claims.

It is advisable to put the panel on its own circuit using a circuit breaker adequately sized to protect the pump(s). Check state and local codes for the correct wire size and circuit protection to use. The wire should be sized large enough to handle the full load current of the pump(s) you are operating, and any voltage drop that might occur due to long service runs.

Run power supply lines to the control box and secure (knockouts are not supplied in this box). Select a convenient location on the bottom to enter the box with the power supply. Cut a hole with a chassis punch, caution should be taken not to get metal chips in the components while cutting hole. After the hole is cut, any metal particles **must** be removed from box. Failure to do so may result in premature component failure.

Connect incoming power to the terminal blocks labeled L1, L2, L3, and all necessary ground wires to the ground lug at the bottom of the box. The ground lug should be fastened to a good driven earth ground by one of the methods described in the National Electric Code.

CALIFORNIA PROPOSITION 65 WARNING:

▲ WARNING This product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

CONNECTING PUMP(S) AND FLOATS TO CONTROL BOX

Run the cords from the pump(s) to the bottom of the control box by means of one of the methods described in your pump or basin installation instructions. A hole must be cut into the control box (use the same procedure as that described for incoming power supply lines).

POWER CORD

Connect red, white and black wires to terminals marked M1, M2 and M3. Fasten green wire to ground lug.

CONTROL CORD (4WHV PUMPS ONLY)

Connect the black and white wires (motor heat

sensor), and the red wire (seal leak probe) to the appropriate terminal blocks. (See wiring diagram for correct terminal numbers.) Fasten green wire to ground lug.

FLOAT CORDS

See basin instructions for the proper depth at which to set the floats. Strip the float cord wires $\frac{3}{8}$ ", twist strands together, and connect black and white wires to terminal strip in the control box. (See wiring diagram for proper terminal connections.)

OPERATING PUMPS

1. Make sure that all wires are inside the control box and not in a position to be pinched or shorted when the door is closed.
 2. Turn on power to the control box.
 3. Turn hand-off-auto switches to the HAND position. The pumps should start and the pump run lights should come on. (On duplex panels, this should be done for both pumps.)
 4. The alarm light should activate when the alarm test switch is used.
 5. To put into service, put the hand-off-auto switch in the AUTO position. (On duplex panels, this should be done for both pumps.) See basin instructions.
 6. If unit does not operate as described, see troubleshooting chart.
- NOTE:** Addition of electrical components and circuitry to this unit is expressly forbidden unless written factory authorization is obtained. Failure to do so will result in warranty cancellation.

ROTATION OF THREE PHASE PUMPS

IMPORTANT

Rotation of three phase pumps must be established by one of the two methods described below.

CAUTION

Keep hands and feet clear of impeller when checking rotation. Be sure to disconnect power to the control box while handling pumps. Make sure pump is wired and readied for rotation test before the control box is energized.

1. Before positioning pump in basin, run wires to control box. Lay the pump unit on its side and secure so that the starting torque of the motor will not cause the pump to roll. Energize the pump by turning the circuit breaker on and the hand-off-auto to HAND. The rotation should be counterclockwise as observed facing the bottom of the pump.

If you do not get the proper rotation, disconnect the power to the control box and change the position of any two of the black motor leads in the terminal blocks.

2. Install the pump in the basin and run in some water so the pump can operate. Energize the pump by turning the circuit breaker on and the hand-off-auto switch to HAND. Let the pump pull the water down in the basin, and when the water reaches the bottom of the pump the rotation of the water can be observed. The water should rotate in a clockwise direction if the pump rotation is correct.

If you do not get the proper rotation, disconnect the power to the control box and change the position of any two of the black motor leads in the terminal blocks.

CHECKING PUMP CURRENT DRAW

1. Use an amprobe to check the amperage of the pump.
2. Turn the hand-off-auto switch to the HAND position and compare the amperage reading to the values shown on the chart. (See page 8.)
3. If you get a reading of 0, make sure there is voltage to the motor leads. Push the overload reset button on the overload relay in the control panel. If you still do not get a reading, either the motor has failed or there might be a wiring problem between the control panel and pump (improper connection in the junction box).

CHECKING PUMP AND FLOAT RESISTANCE

TO CHECK PUMP OR FLOAT, DISCONNECT INCOMING POWER AND REMOVE WIRES FROM THE TERMINAL BLOCK AND WITH AN OHMMETER CHECK THE MEASUREMENTS PER CHART. (pg. 8)

CORD MEASURED	ITEM MEASURED	CORRECT READING	OHMMETER SETTING	IF YOU GET ANY OTHER READING CHECK FOR THE FOLLOWING
Power Cord	Motor Winding (Any Leg)	(See Chart)	R × 1	Damaged winding or cord
Power Cord	Ground to Motor Windings (Green to Red, Black or White)	Infinity to 200	R × 100K	Damaged winding or cord moisture in motor
Control Cord	Overload Contacts (Black to White)	0	R × 1	Overload tripped, failed, or damaged
Control Cord	Ground to Seal Probe (Green to Red)	Infinity to 200	R × 100K	Water in seal chamber or damaged cord
Control Cord	Ground to Overload Contacts (Green to Black or White)	Infinity to 200	R × 100K	Overload has failed or is wet
Float Cord	Ground to Float Contacts (Green to Black or White)	Infinity to 200	R × 100K	Water in float or damaged cord
Float Cord	Float Contacts (Black to White)	0 - Float On Infinity-Float Off	R × 1	Switch has failed or damaged cord

NOTE: Readings may vary slightly depending on length of wire running to the motor and the accuracy of the measuring instrument.

TESTING COMPONENTS IN CONTROL BOX

WARNING

To prevent electrical shock, disconnect power entering the control box and turn the circuit breaker in the control box to the OFF position.

CONTACTOR

1. Physically examine the contactor for badly burnt or sticking contacts. The contactor arm should move in and out freely.
2. Remove the wires on the coil to the contactor and measure the resistance. Zero the ohmmeter, and on the $R \times 1$ scale you should read approximately 138 ohms (1-3 H.P. pumps), approximately 75 ohms (5-7½ H.P. pumps), approximately 75 ohms (10-15 H.P. pumps - 460 VAC), approximately 23 ohms (10-15 H.P. pumps - 208/230 VAC).
3. Often a burnt coil can be spotted by merely looking to see if it is badly discolored or has a dark burnt spot on it.

OVERLOAD BLOCK

1. Remove the wires from the terminals on the side of the overload block.
2. With an ohmmeter on the $R \times 1$ scale touch the two terminals, you should get a reading of 0. If you do not get this reading, push the large black reset button on the front of the overload block.

OVERLOAD HEATER

1. Remove the heater from the overload block and examine it for physical damage. A slight discoloration is normal, but if it is melted or warped it should be replaced.

FUSES

1. Pull the fuse out of the fuse block and check for continuity with an ohmmeter.
2. With the ohmmeter on the $R \times 1$ scale, you should get a reading of 0. If you do not, replace it with the same type and rating that is shown on the decal located next to the fuse block.

OVERRIDE RELAY (DUPLEX PANELS ONLY)

1. Physically examine the relay for burnt or stuck contacts and for a burnt or discolored coil.
2. Remove the relay from the socket and with an ohmmeter or $R \times 1000$ scale, you should read approximately 7.68 ohms on pins 13 and 14.
Often a burnt coil can be spotted by merely looking to see if it is badly discolored or has a dark burnt spot on it.

ALARM LIGHT

1. The light should activate when the alarm test switch is used, if not replace the light bulb.
2. If light still does not work, replace flasher unit.

ALTERNATOR RELAY (DUPLEX PANELS ONLY)

1. When power is on and the relay is functioning properly, one of the two lights on top of the relay should be on.
2. With circuit breaker turned off, remove relay from socket. With an ohmmeter on the $R \times 1000$

scale, touch the alternator coil terminals. The black lead should be on pin 3, and the red lead should be on pin 5. You should have a reading of approximately 920-1020 ohms.

3. If alternator shows physical damage or does not test properly, replace it.

TRANSFORMER

208 VOLT

1. Remove the wires from the primary side (H3-H4) and also from the secondary side (X2-XF-X1).
2. With an ohmmeter on the $R \times 1$ scale touch terminals H3 and H4 (primary), you should get a reading of approximately 12-16 ohms for 100 VA, 4.0-7.0 ohms for 150 VA and 3.5-6.0 ohms for 200 VA transformers.
3. With an ohmmeter on the $R \times 1$ scale touch terminals X1 and X1 (secondary), you should get a reading of approximately 2.5-4.0 ohms for 100 VA transformers, .9-1.6 ohms for 150 VA transformers, and less than 1 ohm for 200 VA transformers.
4. With an ohmmeter on the $R \times 1$ scale touch terminals XF and X1, you should get a reading of 0. If you do not, replace the fuse.

230 VOLT

1. Remove the wires from the primary side (H2-H4) and also from the secondary side (X2-XF-X1).
2. With an ohmmeter on the $R \times 1$ scale touch terminals H2 and H4 (primary), you should get a reading of approximately 11-16 for 100 VA transformers, 4.5-7.0 ohms for 150 VA transformers, and 4.0-6.0 ohms for 200 VA transformers.
3. With an ohmmeter on the $R \times 1$ scale touch terminals X2 and X1 (secondary), you should get a reading of approximately 2.5-4.0 ohms for 100 VA transformers, .9-1.6 ohms for 150 VA transformers, and less than 1 ohm for 200 VA transformers.
4. With an ohmmeter on the $R \times 1$ scale touch terminals XF and X1, you should get a reading of 0. If you do not, replace the fuse.

460 VOLT

1. Remove the wires from the primary side (H1-H4) and also from the secondary side (X2-XF-X1).
2. With an ohmmeter on the $R \times 1$ scale touch terminals H1 and H4 (primary), you should get a reading of approximately 39-53 ohms for 100 VA transformers, 16-23 ohms for 150 VA transformers, and 14-20 ohms for 200 VA transformers.
3. With an ohmmeter on the $R \times 1$ scale touch terminals X2 and X1 (secondary), you should get a reading of approximately 2.5-4.0 ohms for 100 VA transformers, .9-1.6 ohms for 150 VA transformers, and less than 1 ohm for 200 VA transformers.
4. With an ohmmeter on the $R \times 1$ scale touch terminals XF and X1, you should get a reading of 0. If you do not, replace the fuse.

NOTE: Ohm readings will vary with ambient temperatures.

TROUBLESHOOTING CHART (SIMPLEX PANELS)

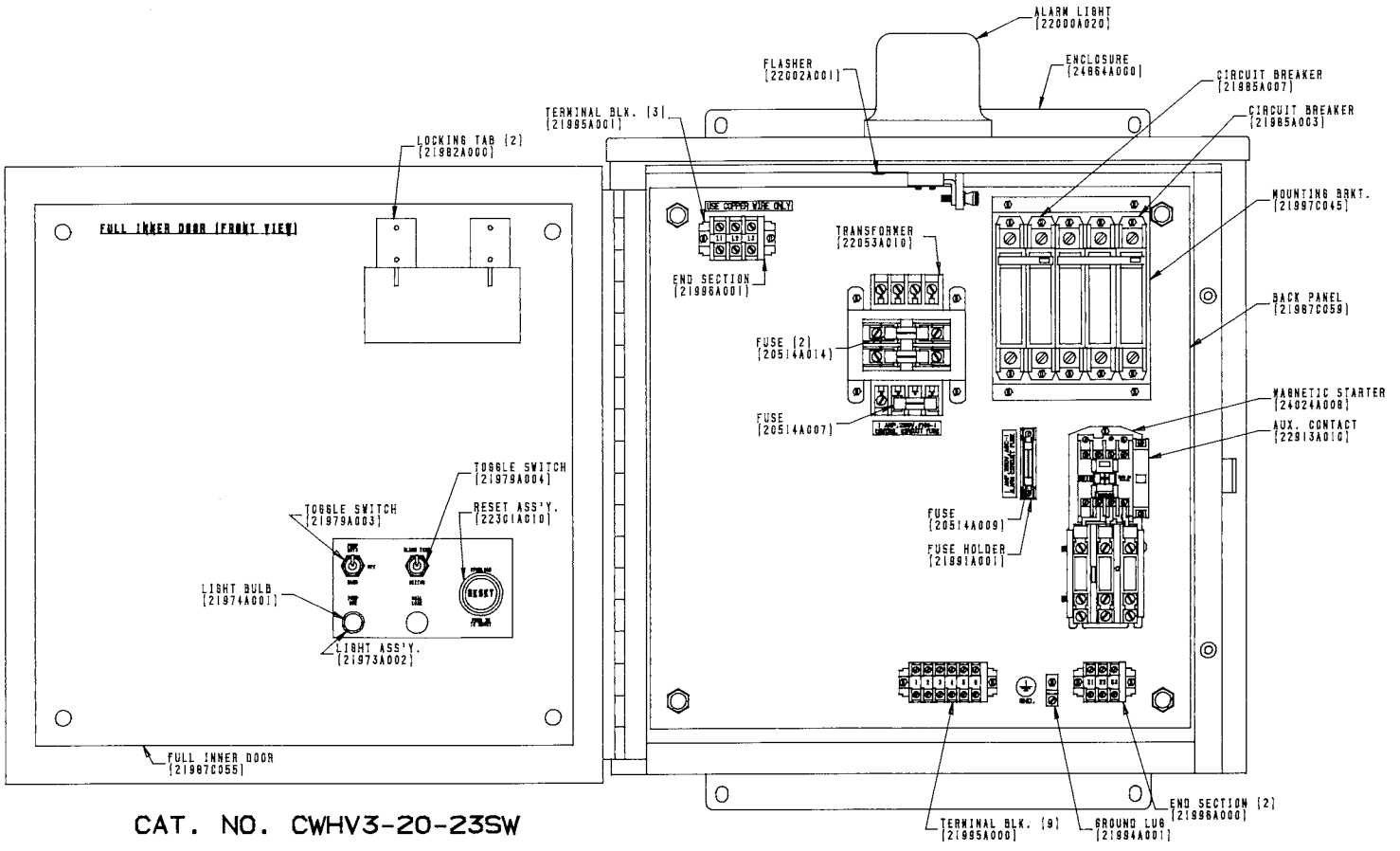
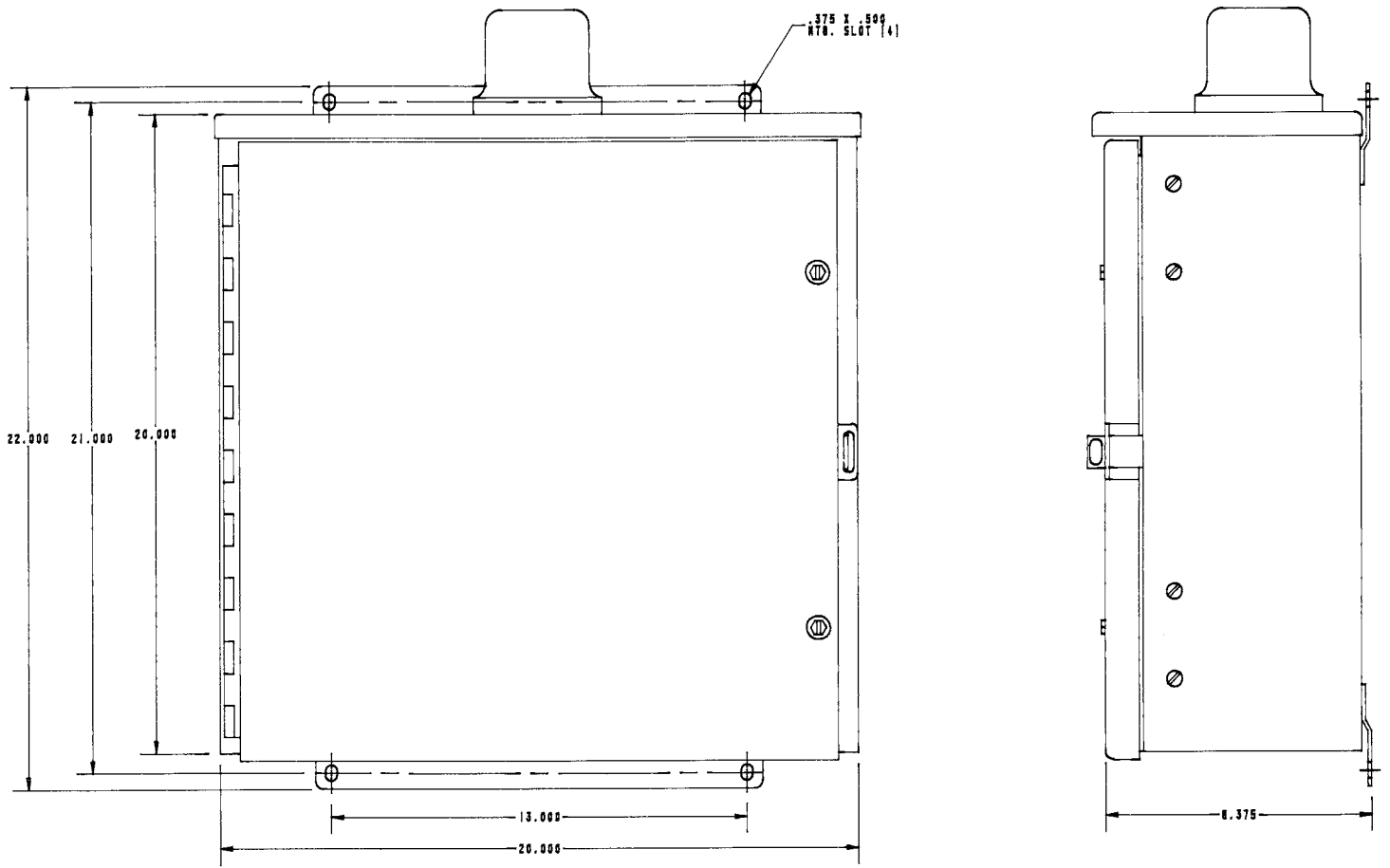
Problem	Position of Hand-Auto Switch	Run Light	Check	CAUSE	REMEDY
Pump Does Not Turn Off	Auto	On	H-I	A Motor overload tripped.	Reset by pushing overload reset button. If overload does not trip again problem may be fixed. If overload trips again, check power supply voltage. Check motor winding resistance, make sure pump shaft is not locked.
	Hand	Off	A-C-B-D-F	B Tripped circuit breaker or fuse at power supply panel. C Tripped circuit breaker in control panel.	Reset breakers or replace fuses. If they continue to blow, check amp capacity of wire and breakers. Make sure it is wired properly and that you have the correct power supply system. (See instructions "Power Supply"). Reset by pushing handle down to OFF position and resetting to ON position. Make sure that wires are not shorted and that the box is wired properly.
Pump Does Not Run	Auto	Off	A-F-C-B-E-D-H	D Control circuit fuse blown. E Level in basin may not be high enough to turn switch on.	Check fuse per instructions. Replace fuse with same type and rating. Check basin. Run pump manually to see if pump operates properly.
	Auto Or Hand	On	G-I	F May not be wired properly.	Check wiring per wiring diagram. Make sure pump is connected to terminal block properly.
Alarm Activates	Auto	Off	A-H-D-F	G Too much water coming into basin. H Float switch may have failed.	Reduce water flow. Pump may need servicing. Operate manually to see if basin pumps down and alarm goes off. Repair float if necessary.
	Auto-Off-Hand	Off	F-J	I Pump or discharge line may be plugged.	Pull pump and check discharge line and pump inlet. (CAUTION: Never put hands on grinder impeller unless power is turned off).
Fuse in Control Circuit Blown	Auto-Off-Hand	Off	G-H-K-I	J May be short circuit in wiring or pump power supply—Short in motor. K May be failed component operating coil.	Check wiring. (Short will not be located in control circuit unless control circuit fuse is blown). Check motor. (See chart for checking pump cable). Check components per instructions.
	Auto-Off-Hand	On Or Off	L	L Wrong operating voltage or wrong voltage components.	Check voltage and make sure relays and contactors are of the proper voltage.

TROUBLESHOOTING CHART (DUPLEX PANELS)

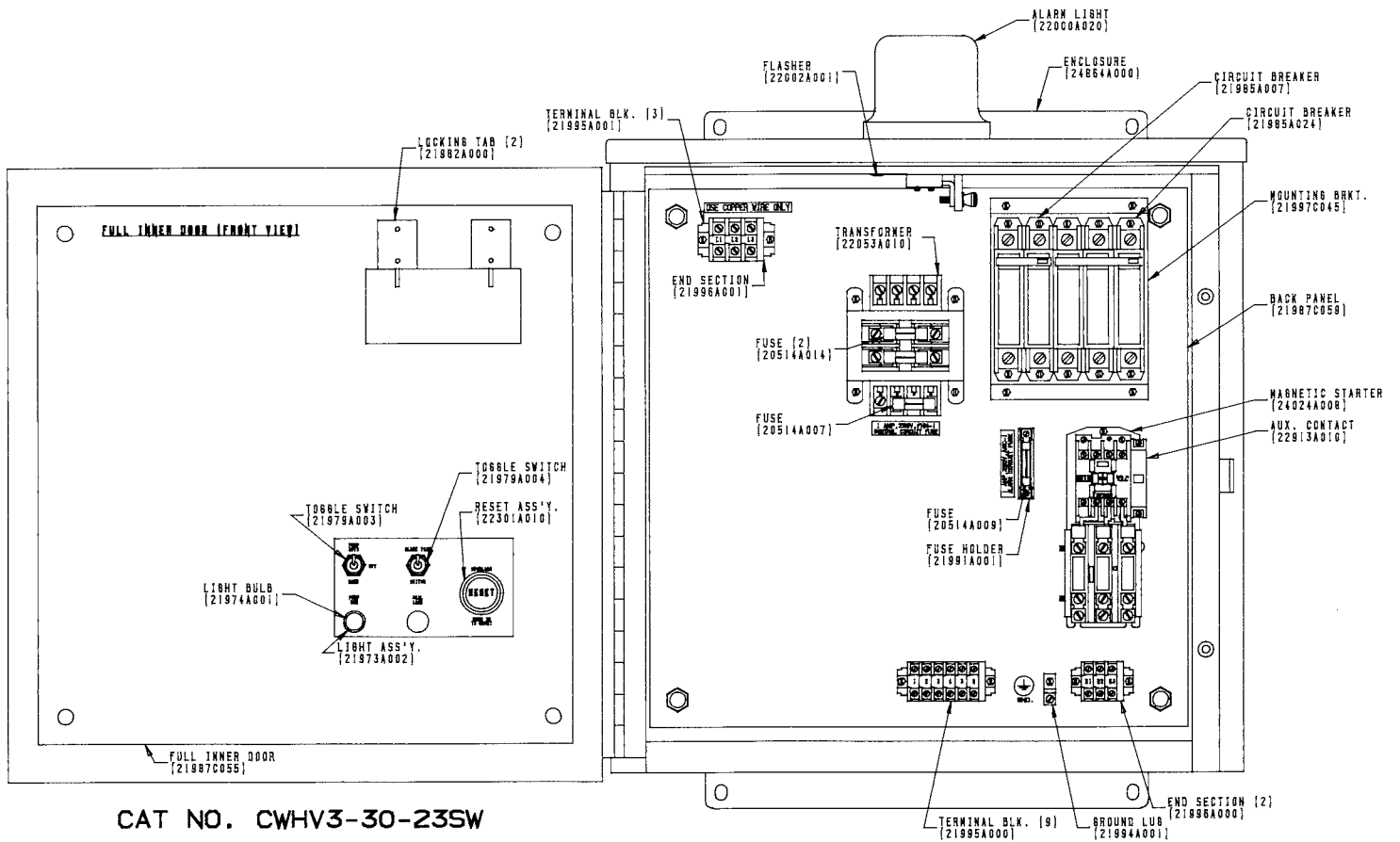
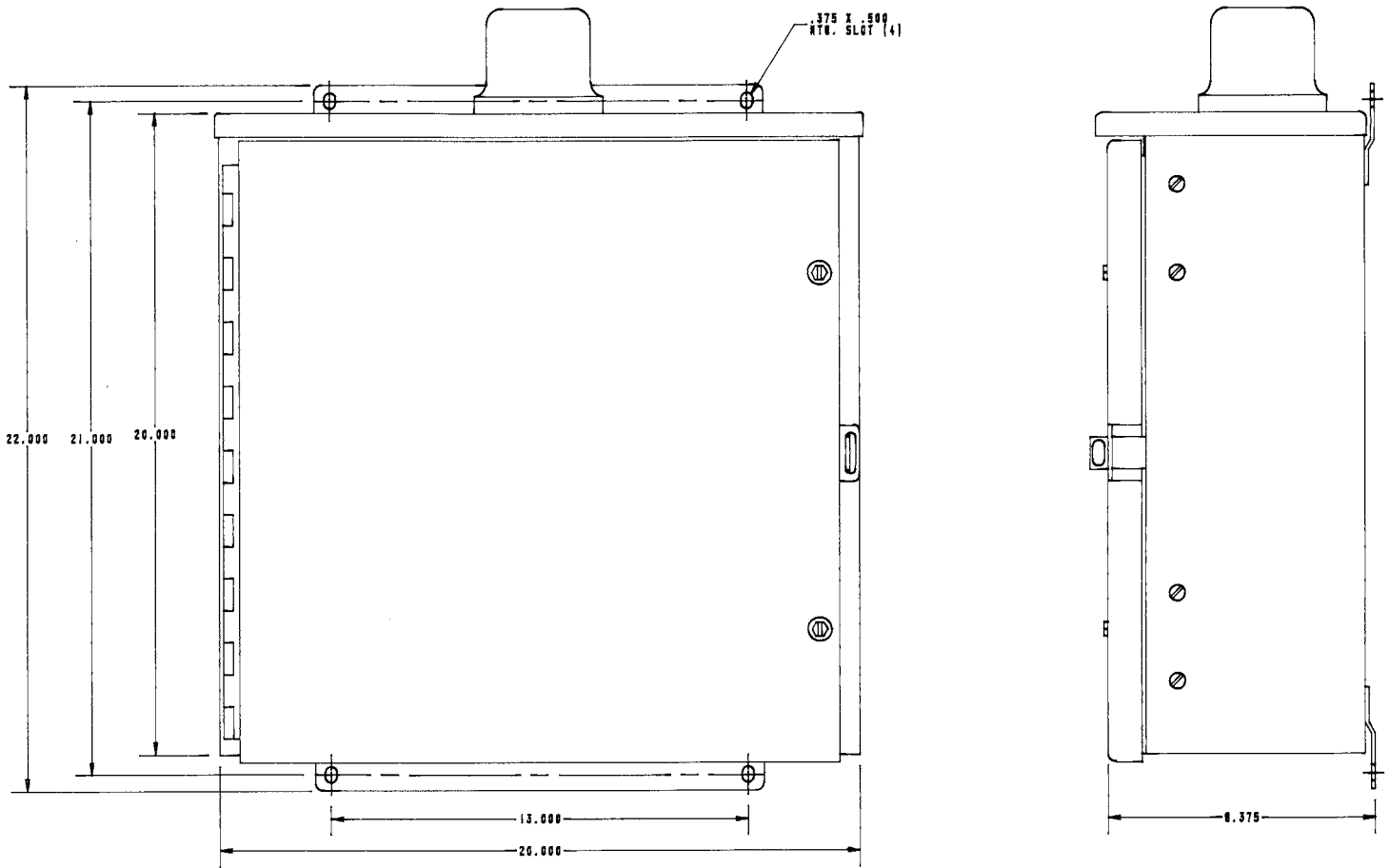
Problem	Position of Hand-Auto Switch	Run Light	Check	CAUSE	REMEDY
Pump 1 AND 2 Will Not Run	Hand	On	G-A-L-K	A Motor overload tripped.	Reset by pushing overload reset button. If overload does not trip again problem may be fixed. If overload trips again, check power supply voltage. Check motor winding resistance, make sure pump shaft is not locked.
	Hand	Off	C-E-B-G	B Tripped circuit breaker or fuse at power supply panel—wrong supply voltage.	Reset breakers or replace fuses. If they continue to blow, check amp capacity of wire and breakers. Make sure it is wired properly and that you have the correct power supply system. (See instructions "Power Supply").
	Auto	On	A-G-L-K	C Tripped circuit breaker in control panel.	Reset by pushing handle down to OFF position and resetting to ON position. Make sure that wires are not shorted and that the box is wired properly.
	Auto	Off	F-I-C- B-E-G	D Override relay not working properly.	Try operating both pumps in HAND position. If the run lights come on and pumps operate properly, replace override relay.
Pump 1 OR 2 Will Not Run	Hand	On	A-G-K	E Control circuit fuse blown.	Check fuse per instructions. Replace fuse with same type and rating.
	Hand	Off	C-G-L	F Level in basin may not be high enough to turn switch on.	Check basin. Run pump manually to see if pump operates properly.
	Auto	On	A-G-K-L	G May not be wired properly.	Check wiring per wiring diagram. Make sure pump is connected to terminal block properly.
	Auto	Off	M-F-G	H Too much water coming into basin.	Reduce water flow. Pump may need servicing.
Alarm Activates	Auto	Both Lights On	H-I-J	I Float switch may have failed.	Operate manually to see if basin pumps down and alarm goes off. Repair float if necessary.
	Auto	Only One Light On	G-D	J Pump or discharge line may be plugged.	Pull pump and check discharge line and pump inlet. (CAUTION: Never put hands on grinder impeller unless power is turned off).
	Auto	No Run Light On	E-L	K May be failed component operating coil.	Check components per instructions.
Circuit Breaker Tripped	Auto-Off-Hand	Off	G-N	L Wrong operating voltage or wrong voltage components.	Check voltage and make sure relays and contactors are of the proper voltage.
Fuse in Control Circuit Blown	Auto-Off-Hand	Off	H-I-J-K	M May not be lead pump in alternating phase—alternator may not be working properly.	Let float switches cycle basin to see if alternator is alternating pumps. If not, check alternator relay per instructions.
Control Box Buzzes	Auto-Off-Hand	On Or Off	L	N May be short circuit in wiring or pump power supply—Short in motor.	Check wiring. (Short will not be located in control circuit unless control circuit fuse is blown). Check motor. (See chart for checking pump cable).

PUMP CURRENT DRAW, WINDING RESISTANCE, OVERLOAD SELECTION

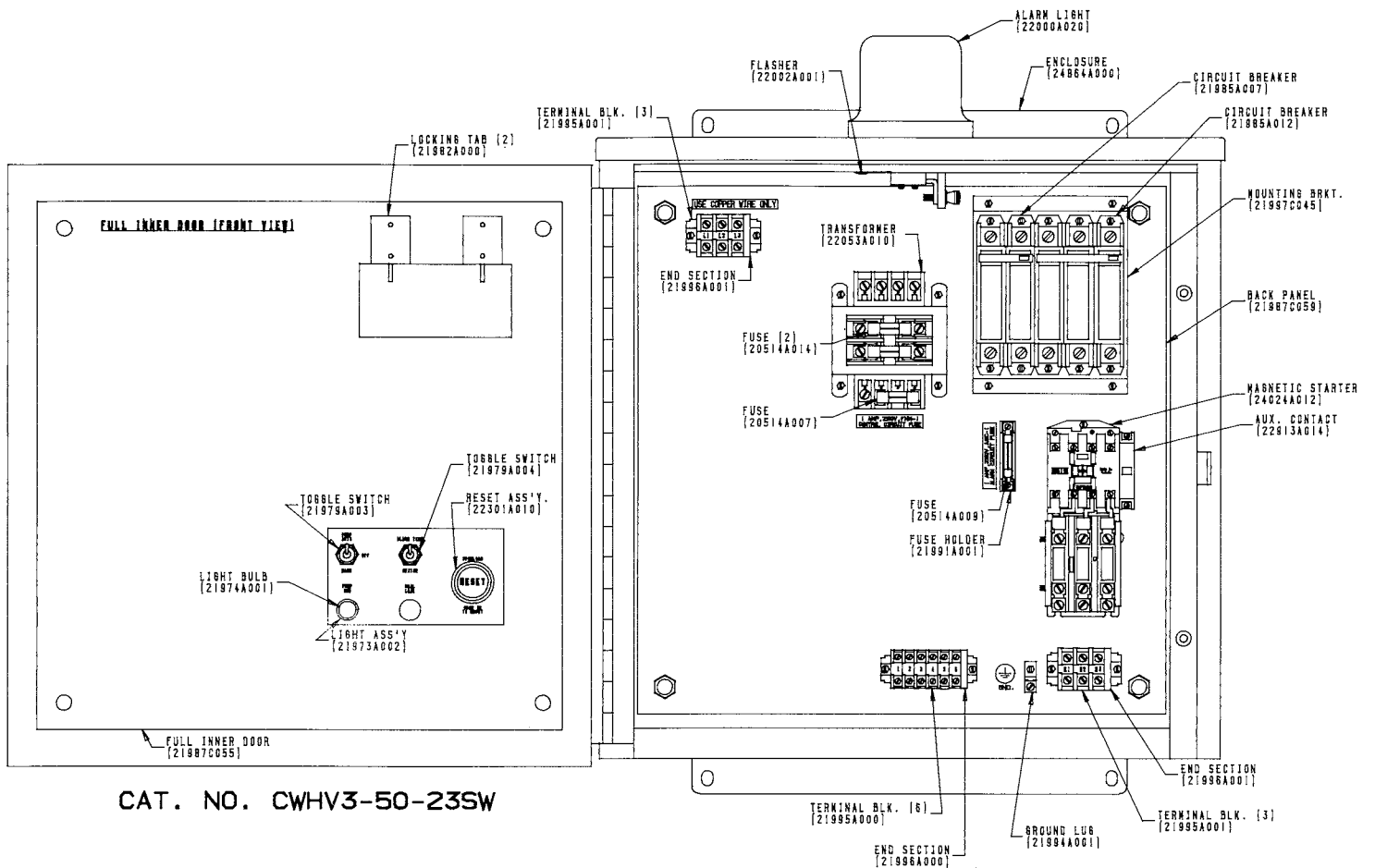
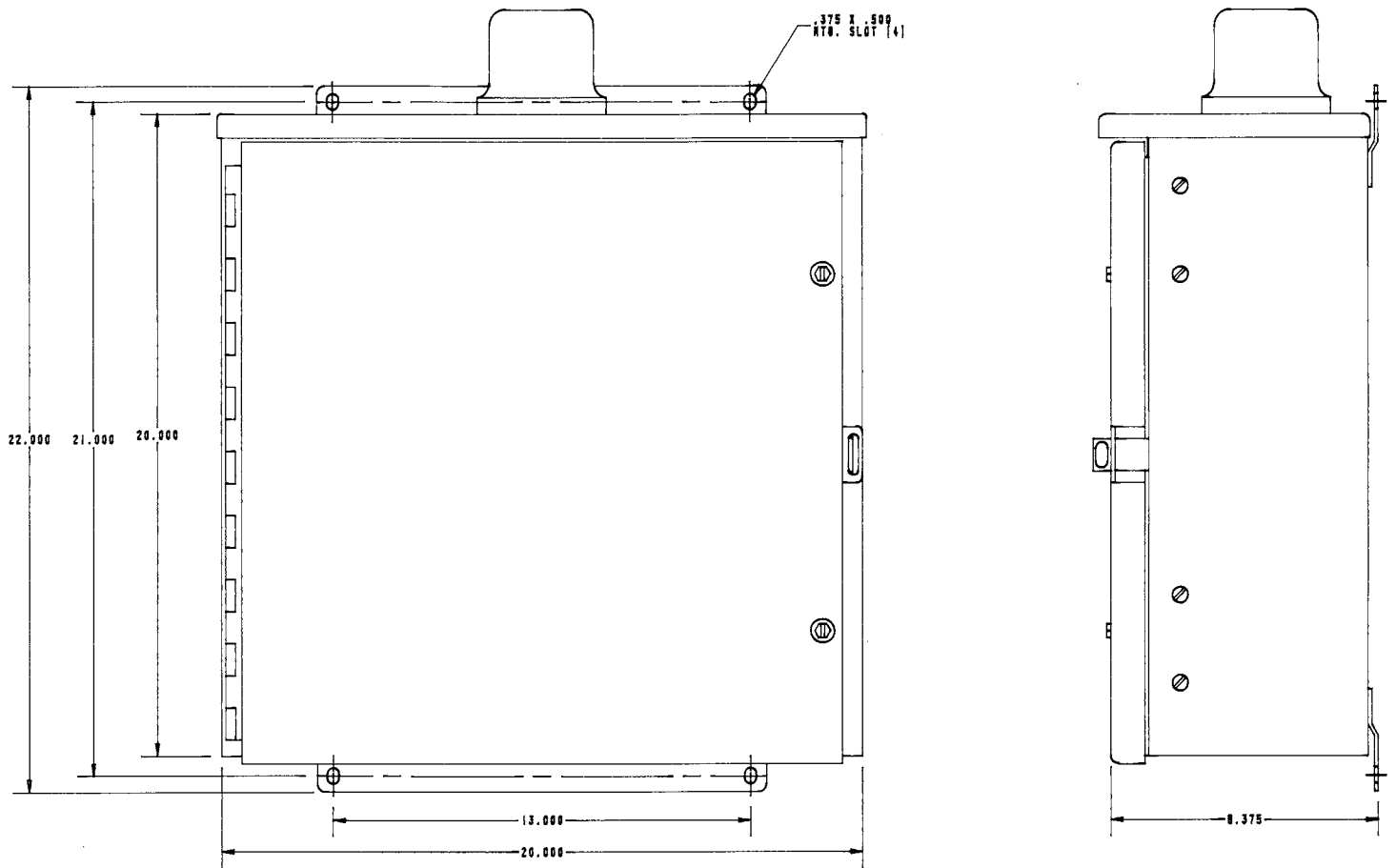
MODEL	HP	VOLTAGE	PHASE	RPM	F.L.A.	L.R.A.	RESISTANCE	OVER-LOAD	OVERLOAD NO.
3WHV10M4-03	1	208	3	1750	5.4	36.0	1.95-2.19	K37	13621A088
3WHV10M4-23	1	230	3	1750	4.5	32.0	2.50-2.85	K36	13621A082
3WHV10M4-43	1	460	3	1750	2.3	19.0	10.1-11.4	K26	13621A086
3WHV15M4-03	1½	208	3	1750	6.6	36.0	1.95-2.19	K41	13621A081
3WHV15M4-23	1½	230	3	1750	5.5	32.0	2.50-2.85	K39	13621A093
3WHV15M4-43	1½	460	3	1750	2.8	19.0	10.1-11.4	K28	13621A114
3WHV20M4-03	2	208	3	1750	8.4	44.0	2.03-2.28	K49	13621A062
3WHV20M4-23	2	230	3	1750	7.0	40.0	1.86-2.24	K42	13621A083
3WHV20M4-43	2	460	3	1750	3.5	23.0	7.45-8.95	K32	13621A098
3WHV30M4-03	3	208	3	1750	15.0	66.0	1.21-1.36	K57	13621A066
3WHV30M4-23	3	230	3	1750	12.0	58.0	1.37-1.54	K54	13621A078
3WHV30M4-43	3	460	3	1750	6.0	29.0	5.46-6.14	K39	13621A093
3WHV50M4-03	5	208	3	1750	24.0	66.0	.700-.780	K64	13621A064
3WHV50M4-23	5	230	3	1750	21.0	58.0	.830-.940	K63	13621A095
3WHV50M4-43	5	460	3	1750	10.5	29.0	3.33-3.74	K52	13621A097
4WHV30M4-03	3	208	3	1750	15.0	66.0	1.21-1.36	K57	13621A066
4WHV30M4-23	3	230	3	1750	12.0	58.0	1.37-1.54	K54	13621A078
4WHV30M4-43	3	460	3	1750	6.0	29.0	5.46-6.14	K39	13621A093
4WHV50M4-03	5	208	3	1750	24.0	111.0	.700-.780	K64	13621A064
4WHV50M4-23	5	230	3	1750	21.0	96.0	.830-.940	K63	13621A095
4WHV50M4-43	5	460	3	1750	10.5	48.0	3.33-3.74	K52	13621A097
4WHV75M4-03	7½	208	3	1750	32.2	196.0	.420-.480	K70	13621A076
4WHV75M4-23	7½	230	3	1750	28.0	168.0	.550-.620	K68	13621A074
4WHV75M4-43	7½	460	3	1750	14.0	84.0	2.20-2.47	K56	13621A092
4WHV100M4-03	10	208	3	1750	38.5	196.0	.420-.480	K73	13621A075
4WHV100M4-23	10	230	3	1750	32.7	168.0	.550-.620	K70	13621A076
4WHV100M4-43	10	460	3	1750	16.3	84.0	2.20-2.47	K58	13621A061



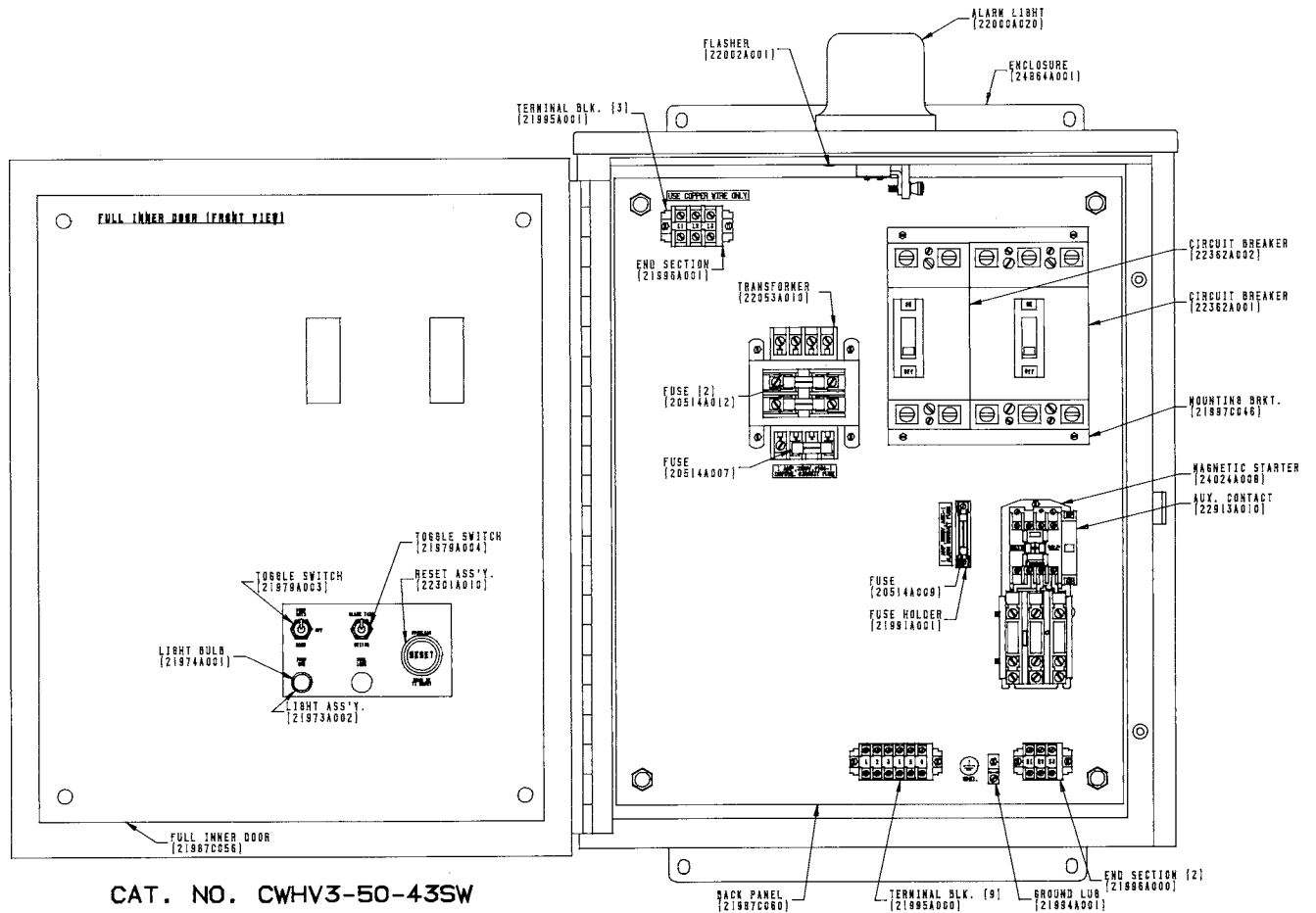
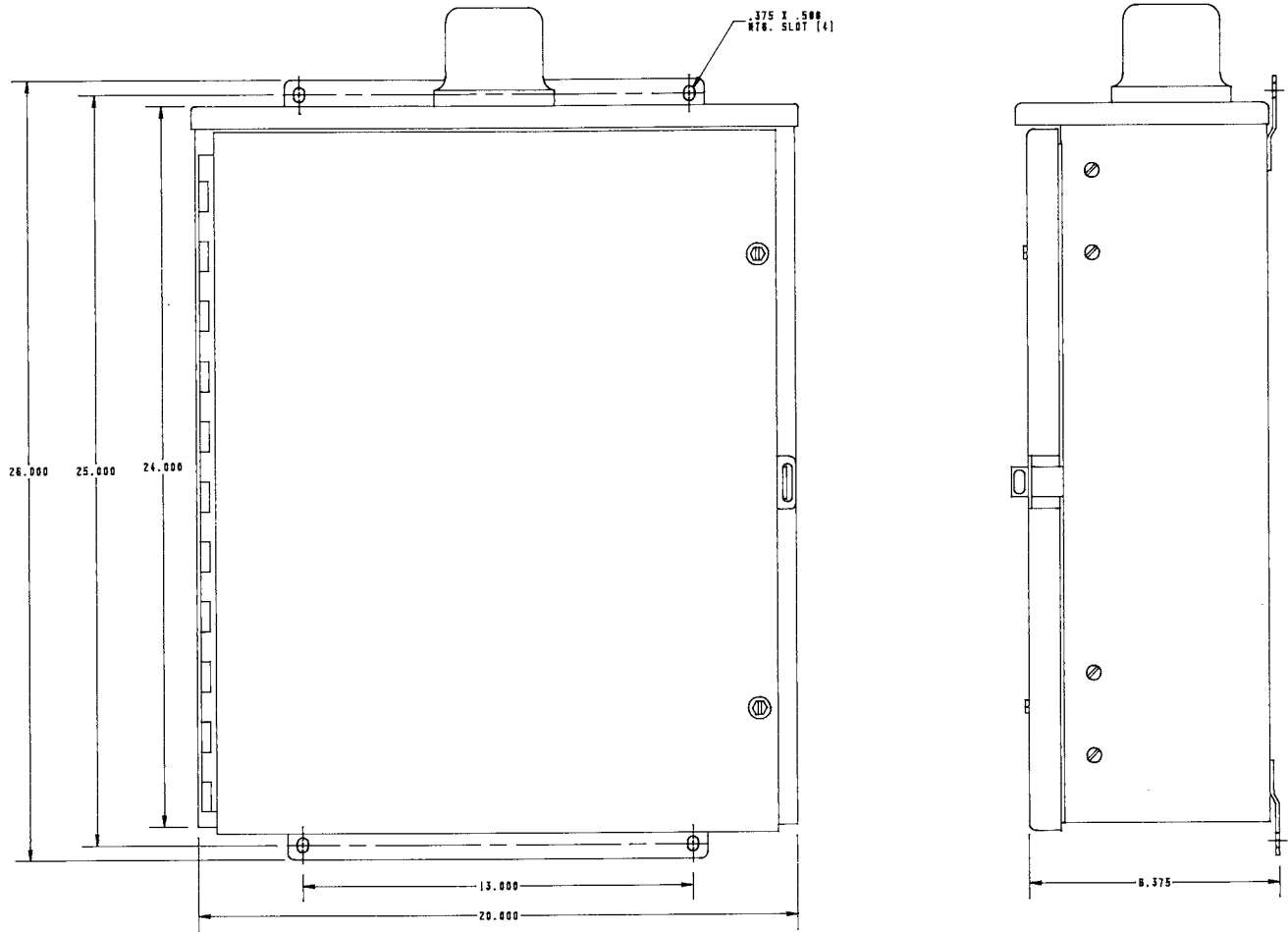
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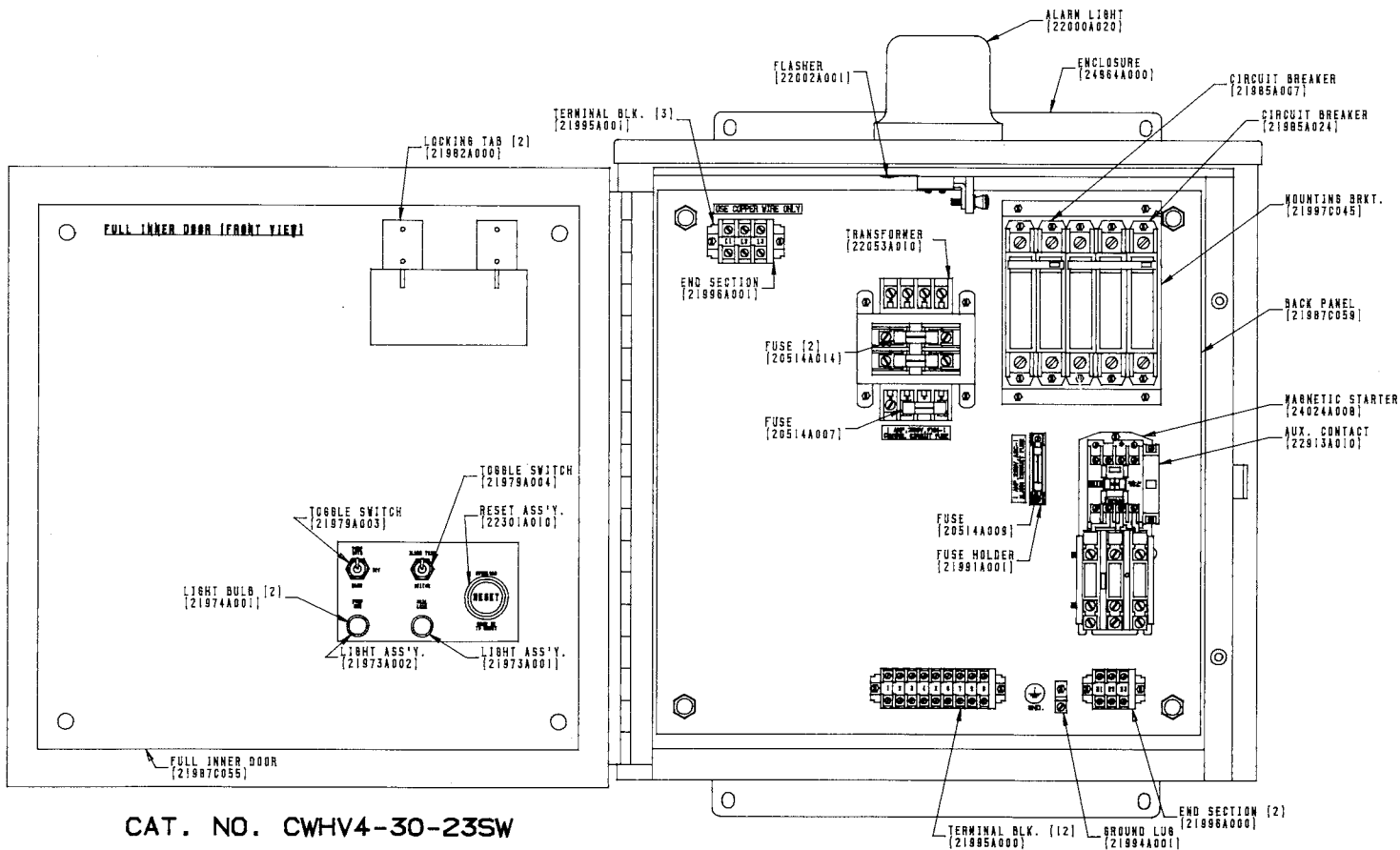
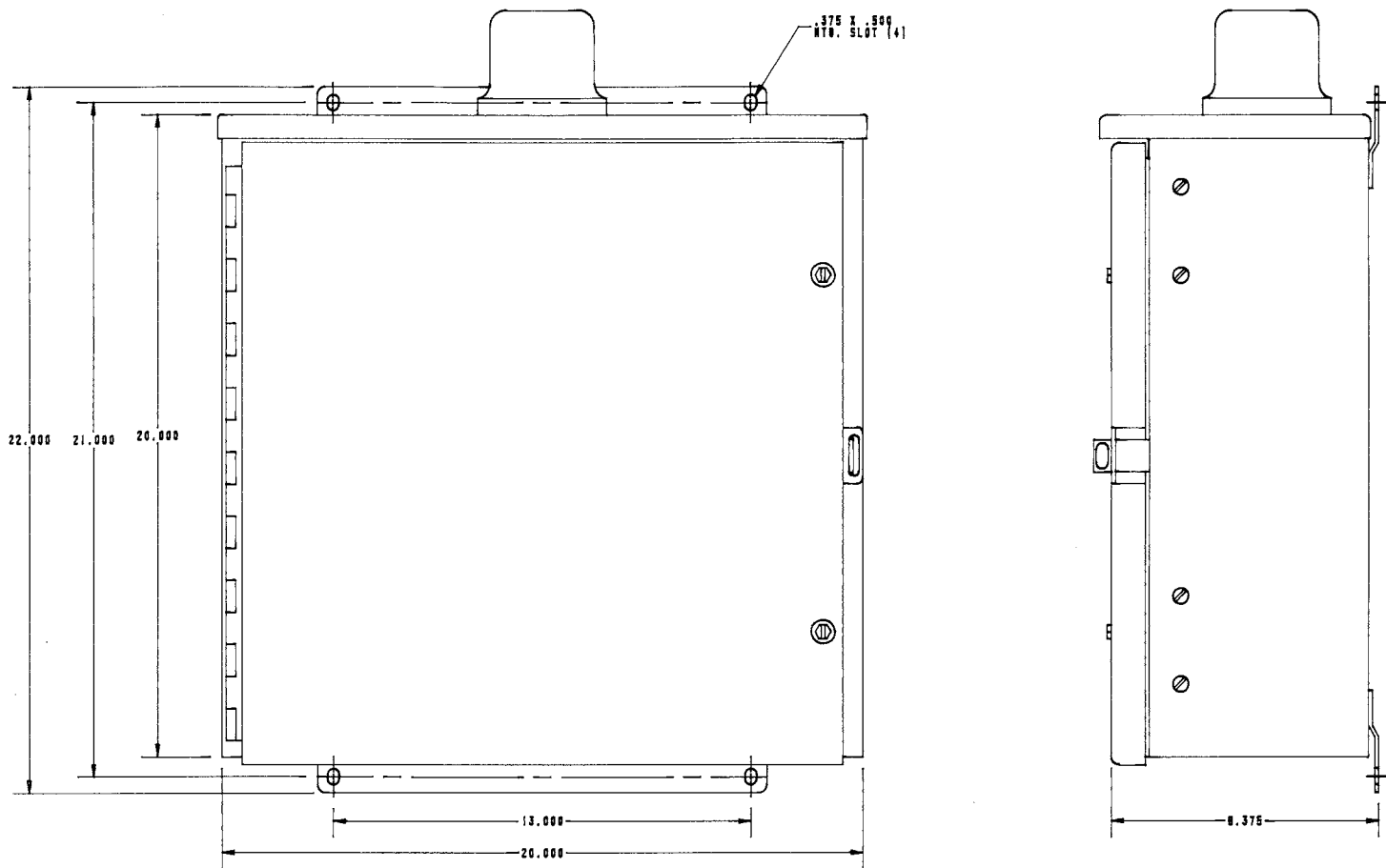
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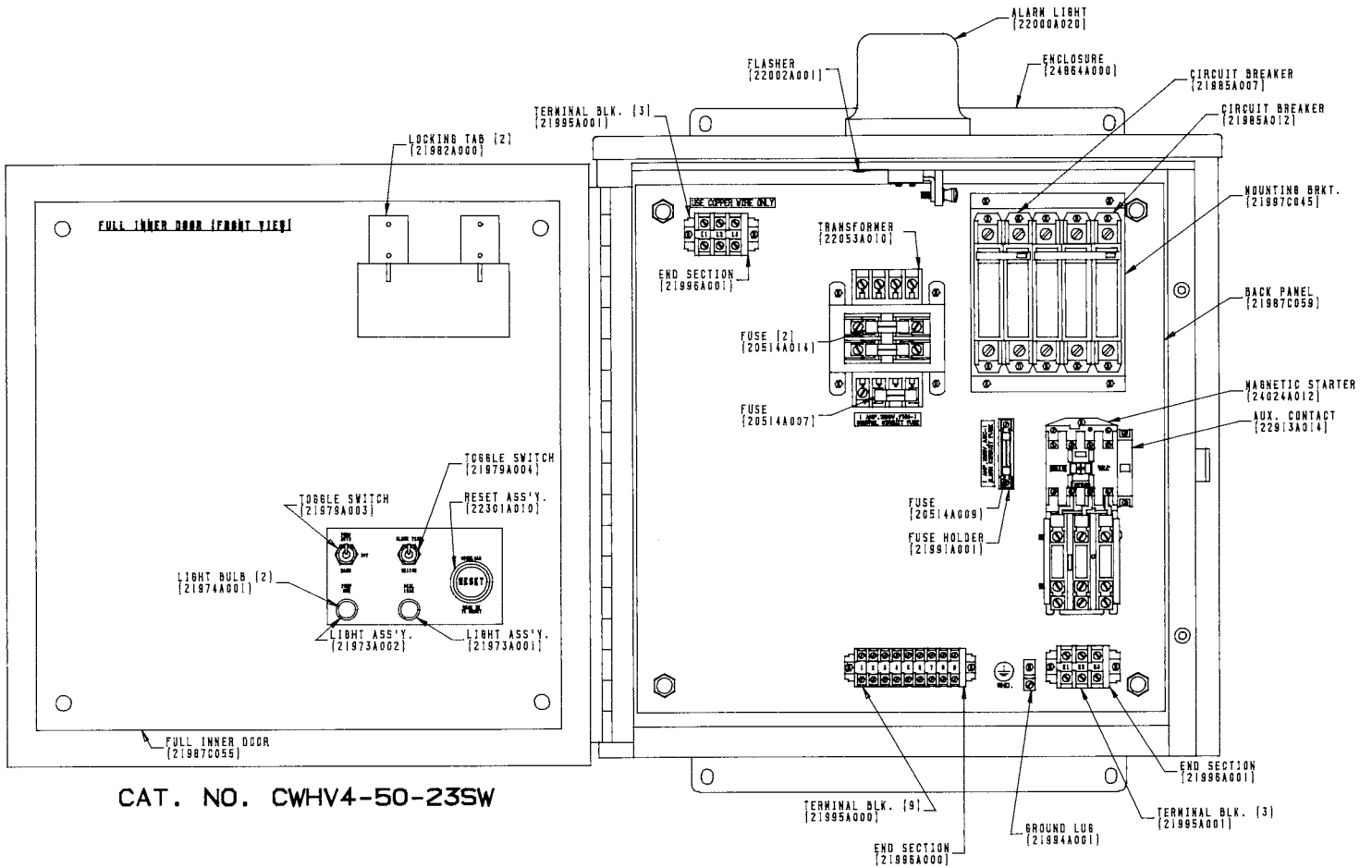
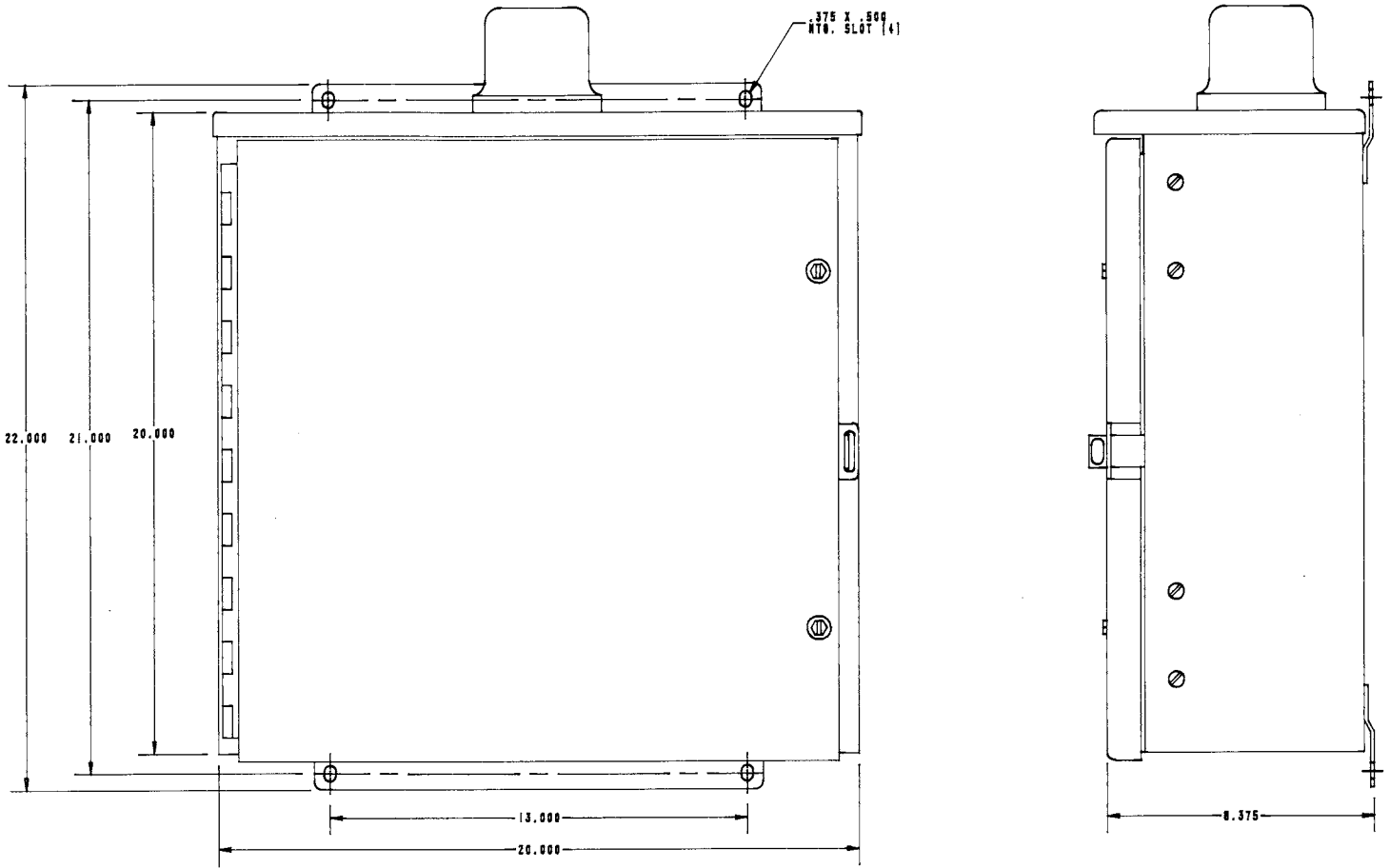
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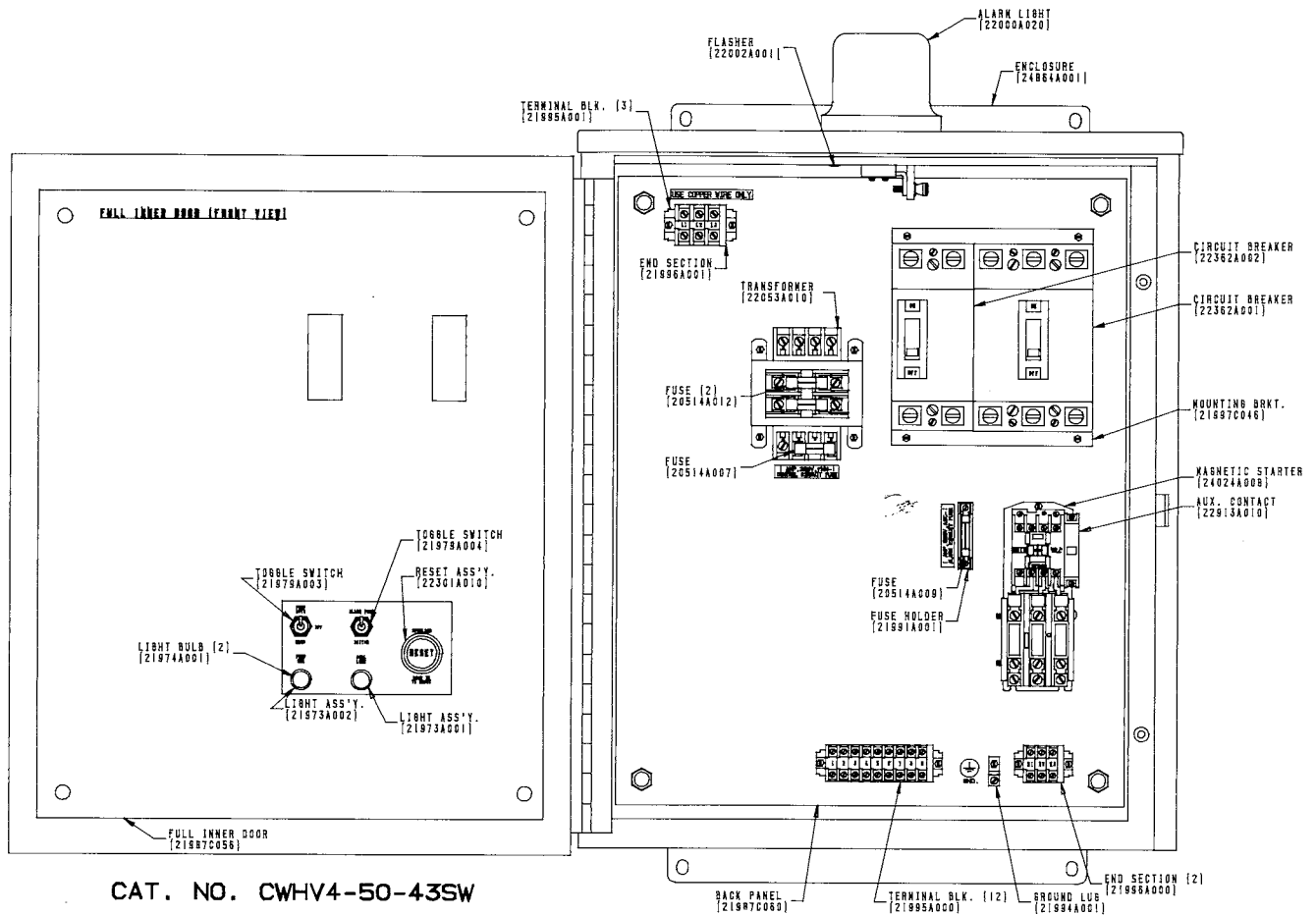
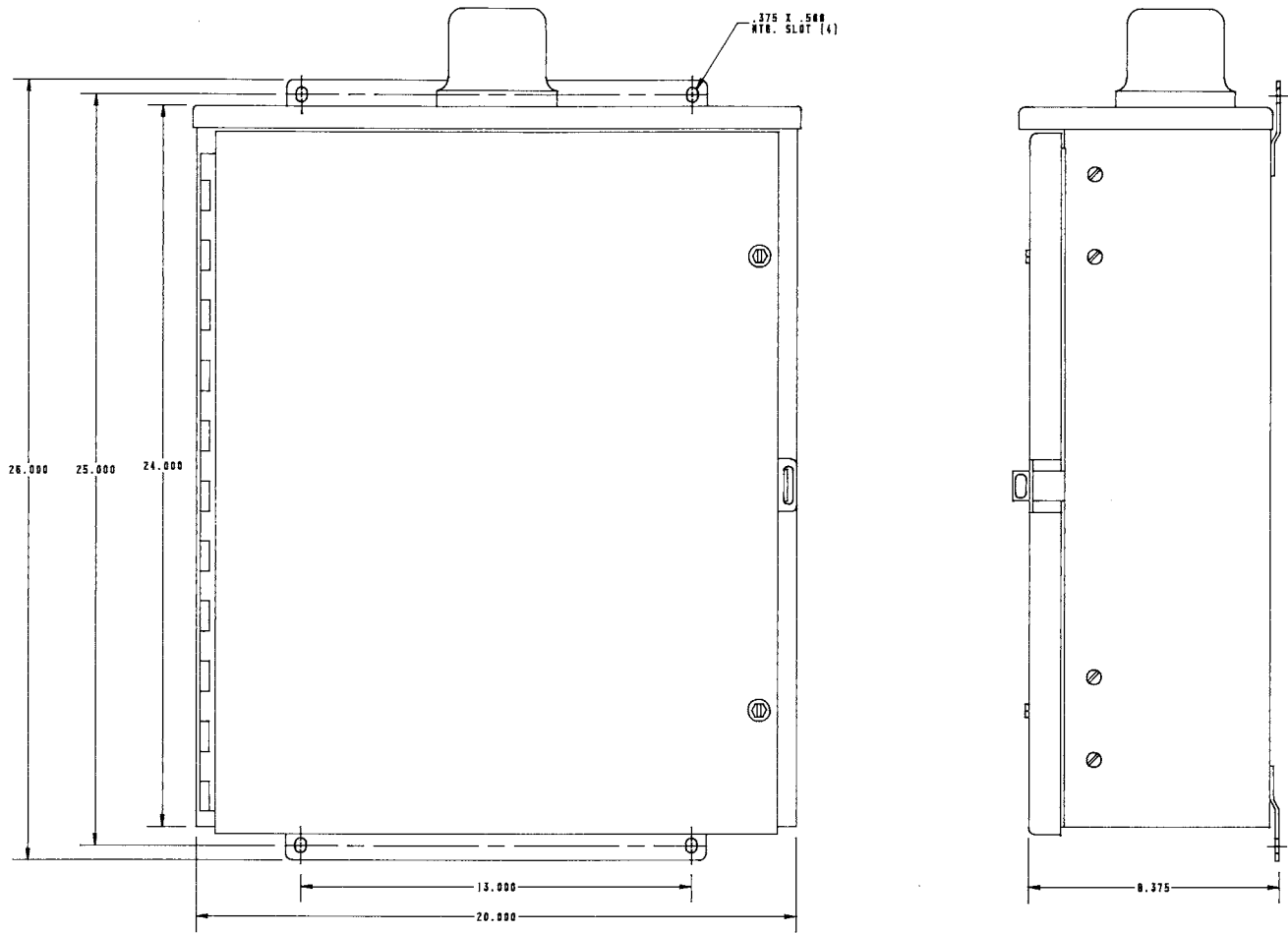
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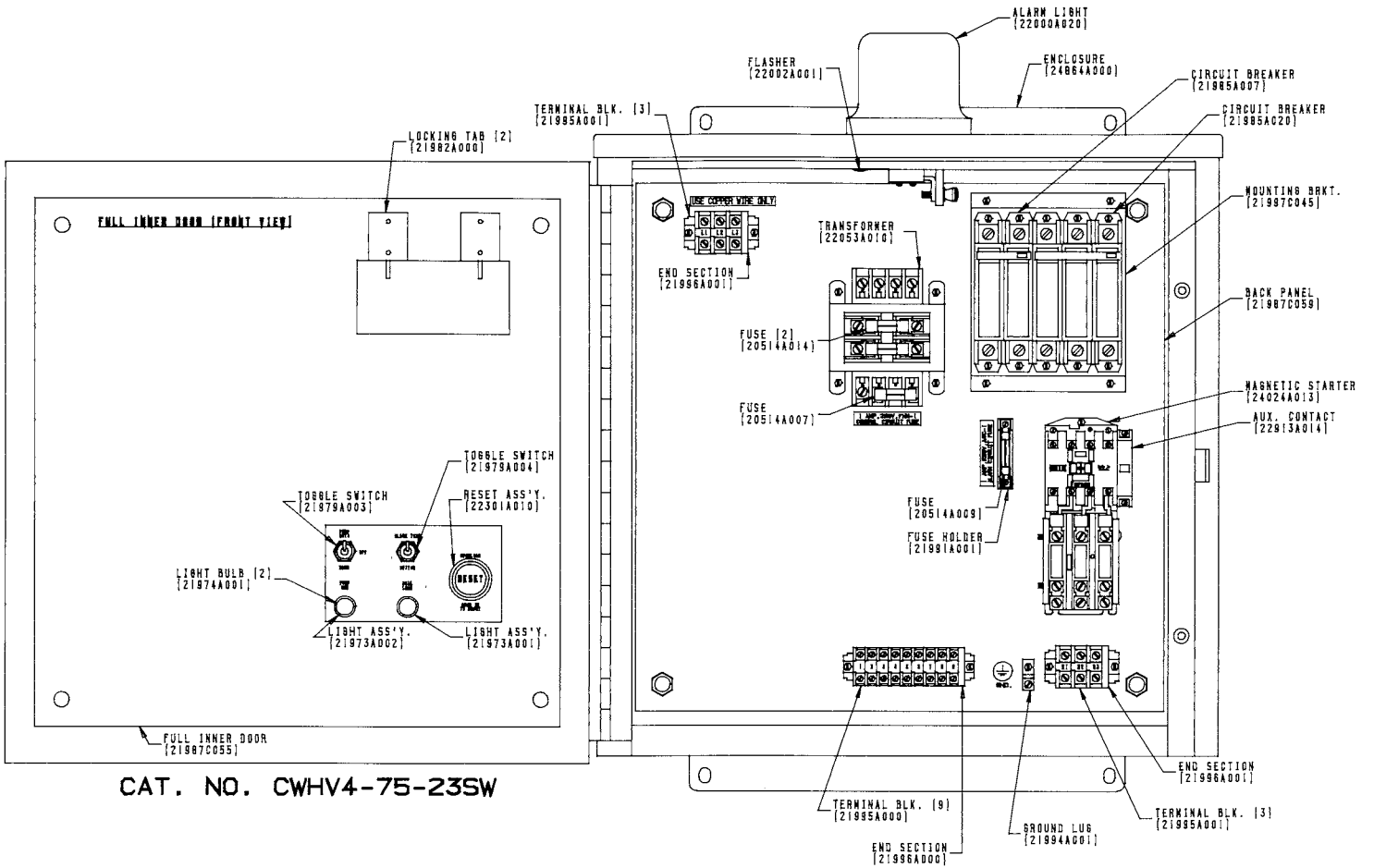
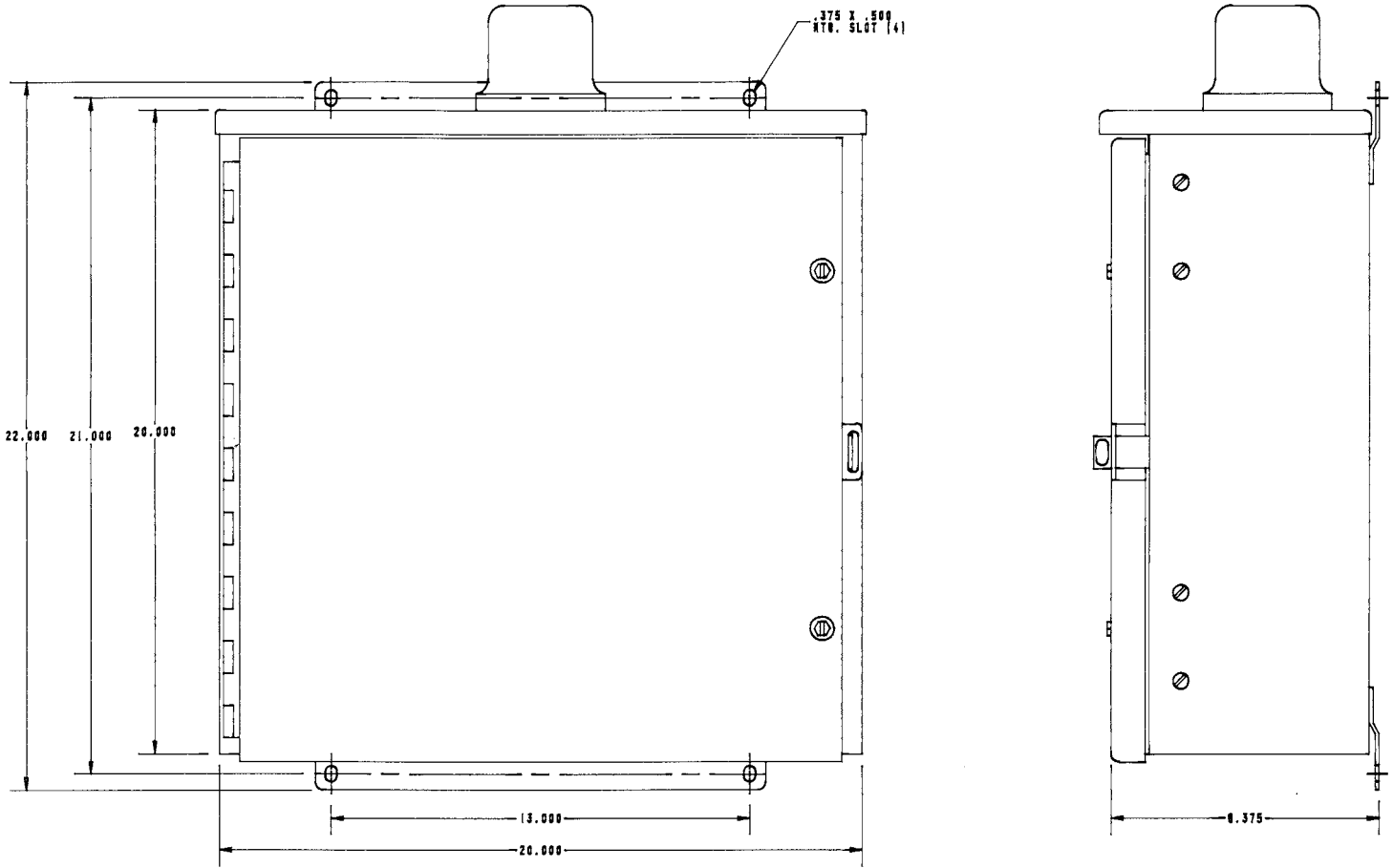
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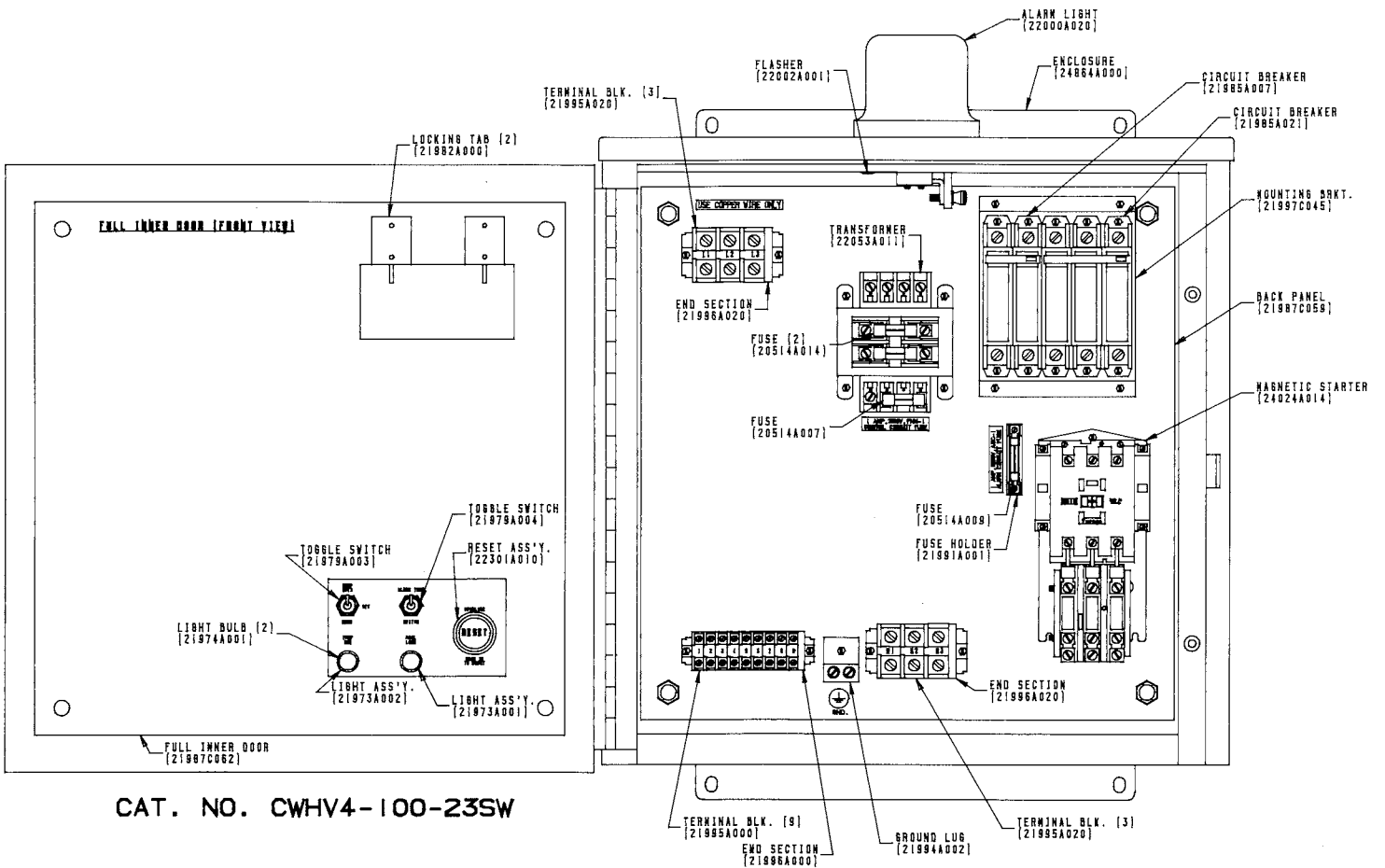
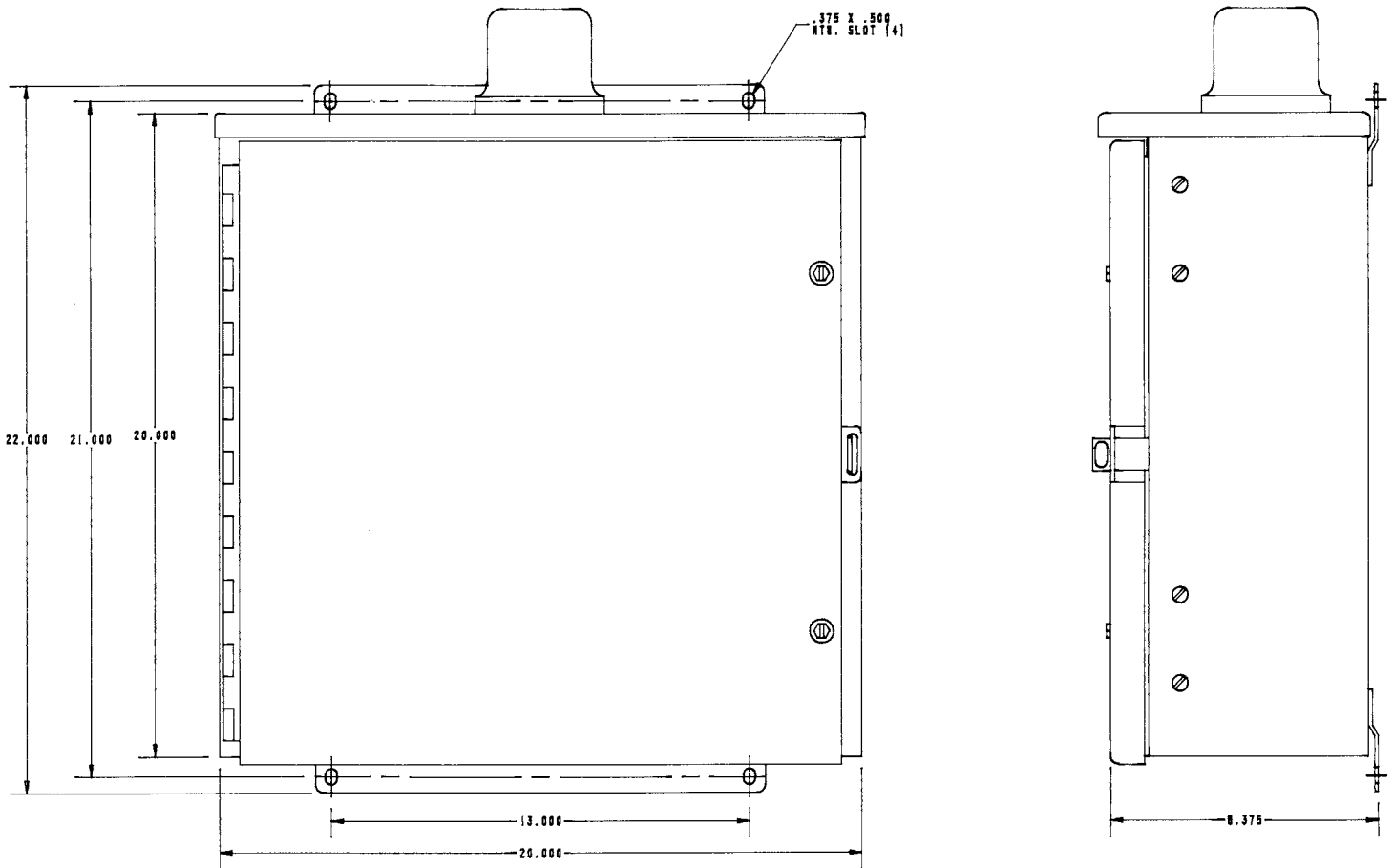
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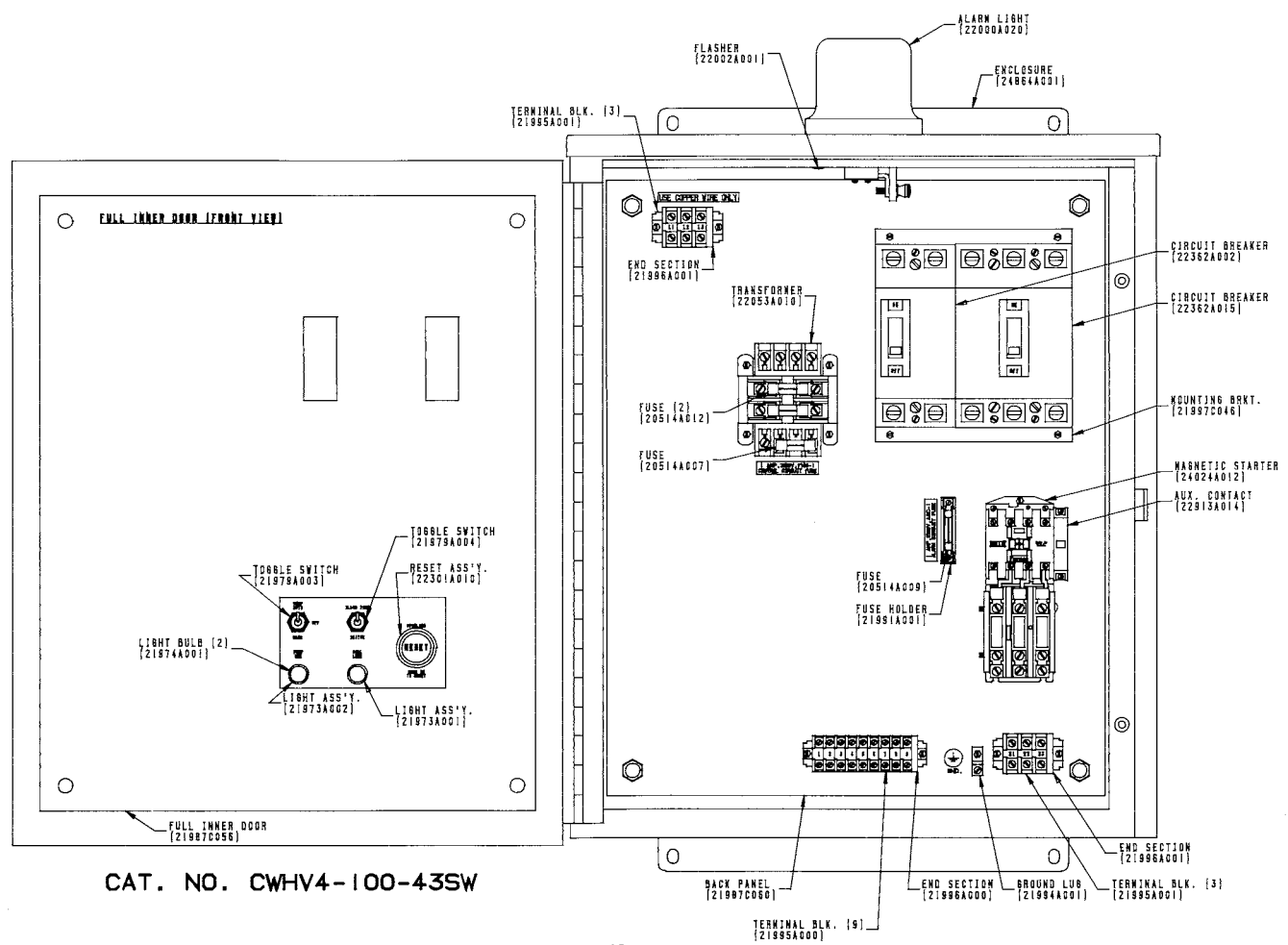
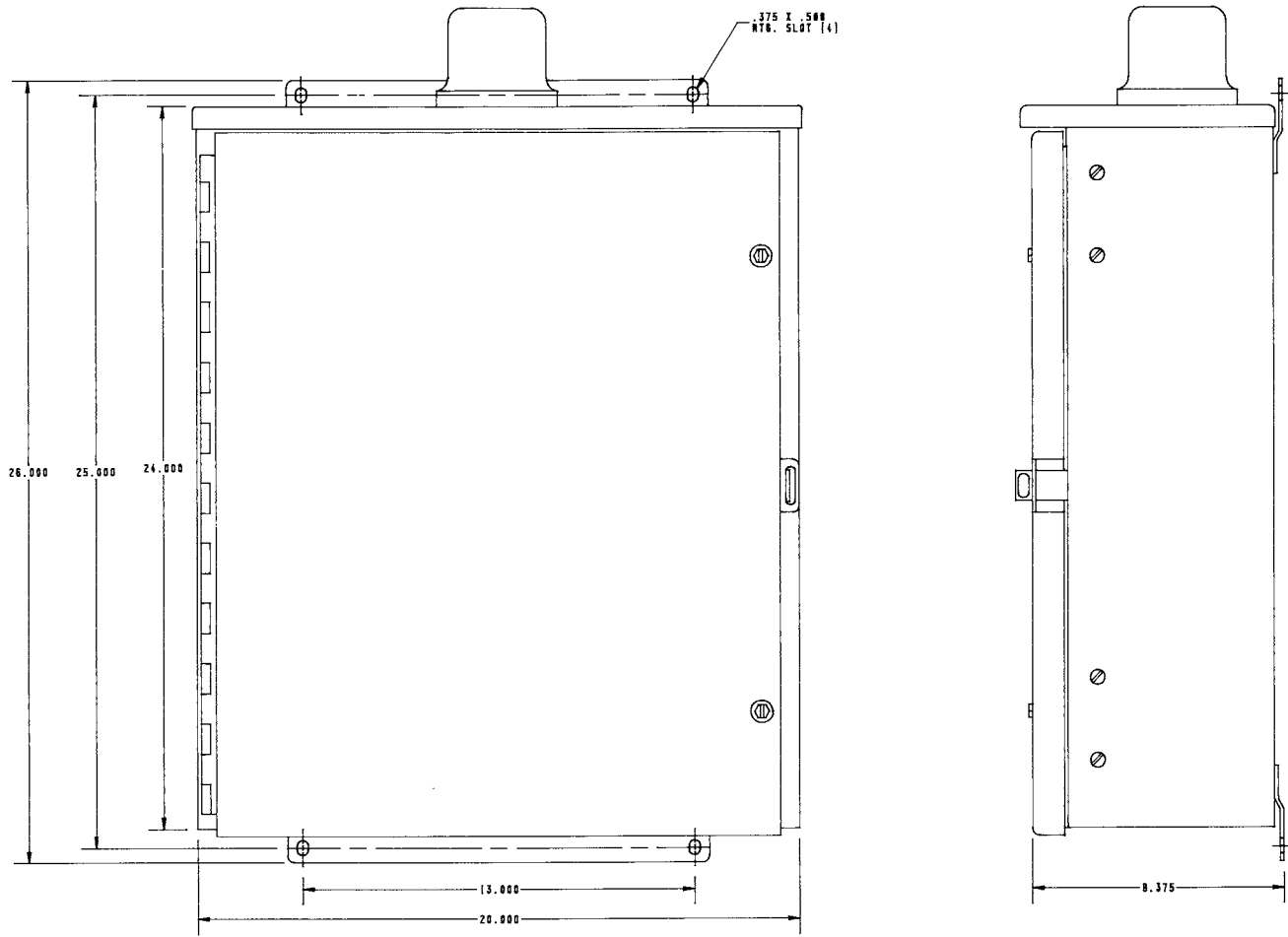
CAT. NO. CWHV4-50-43SW



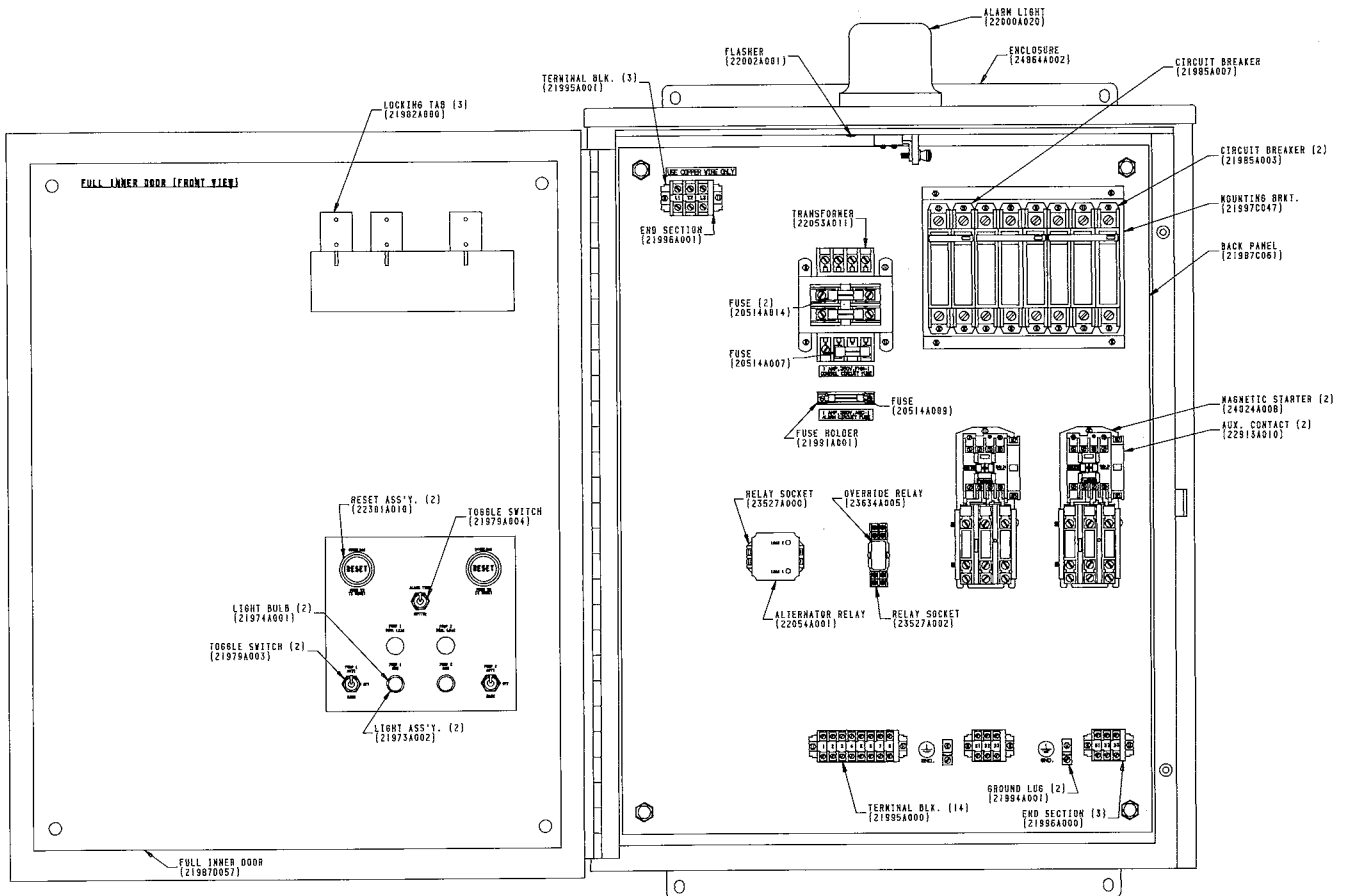
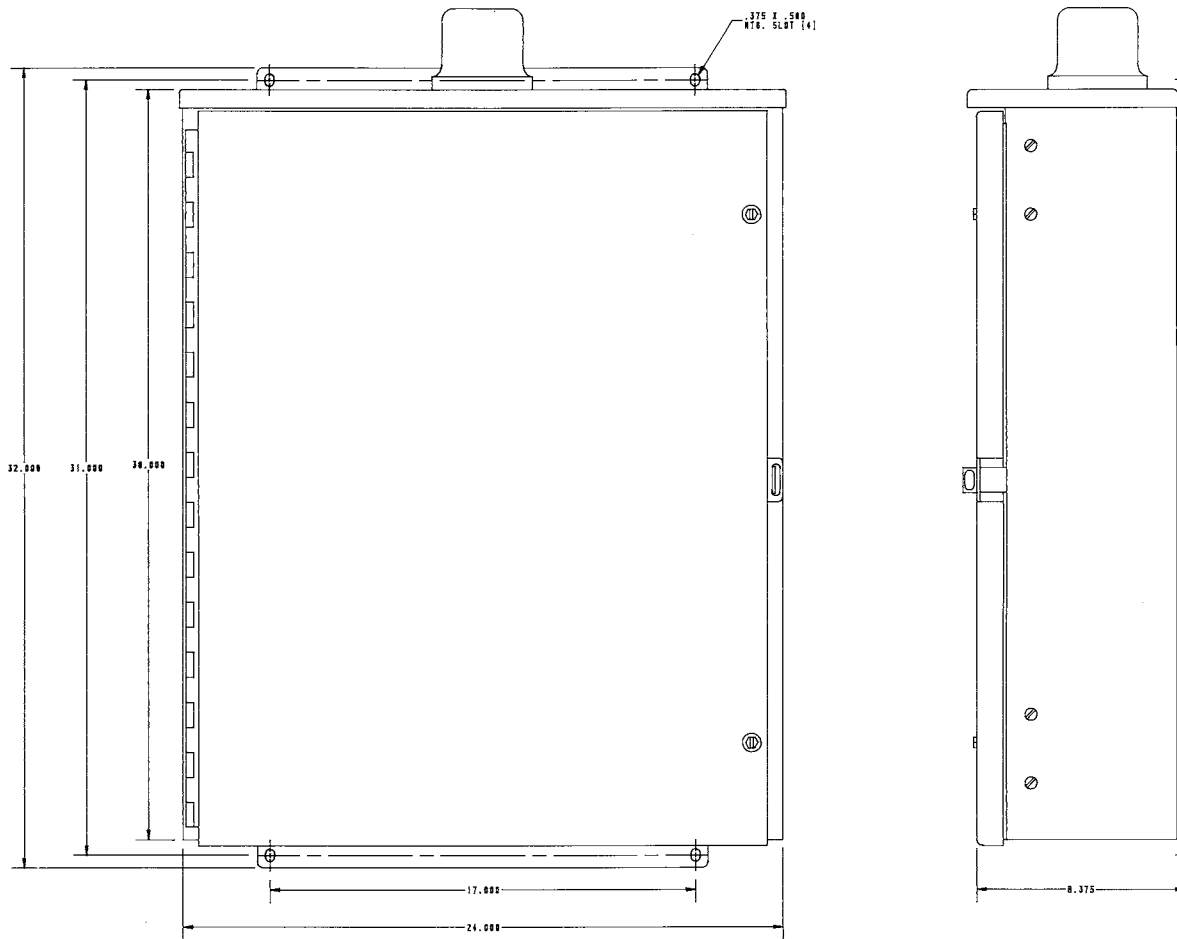
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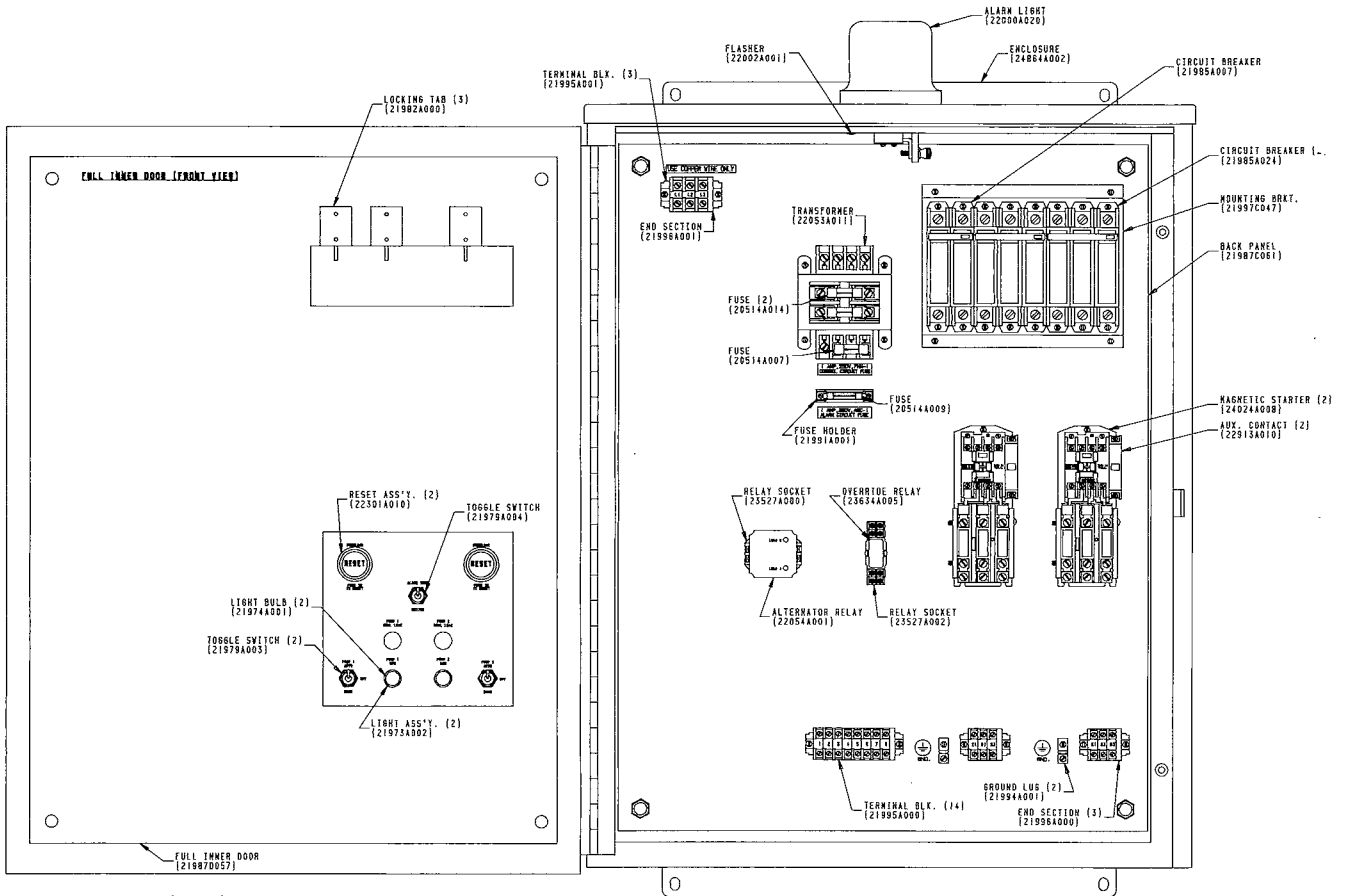
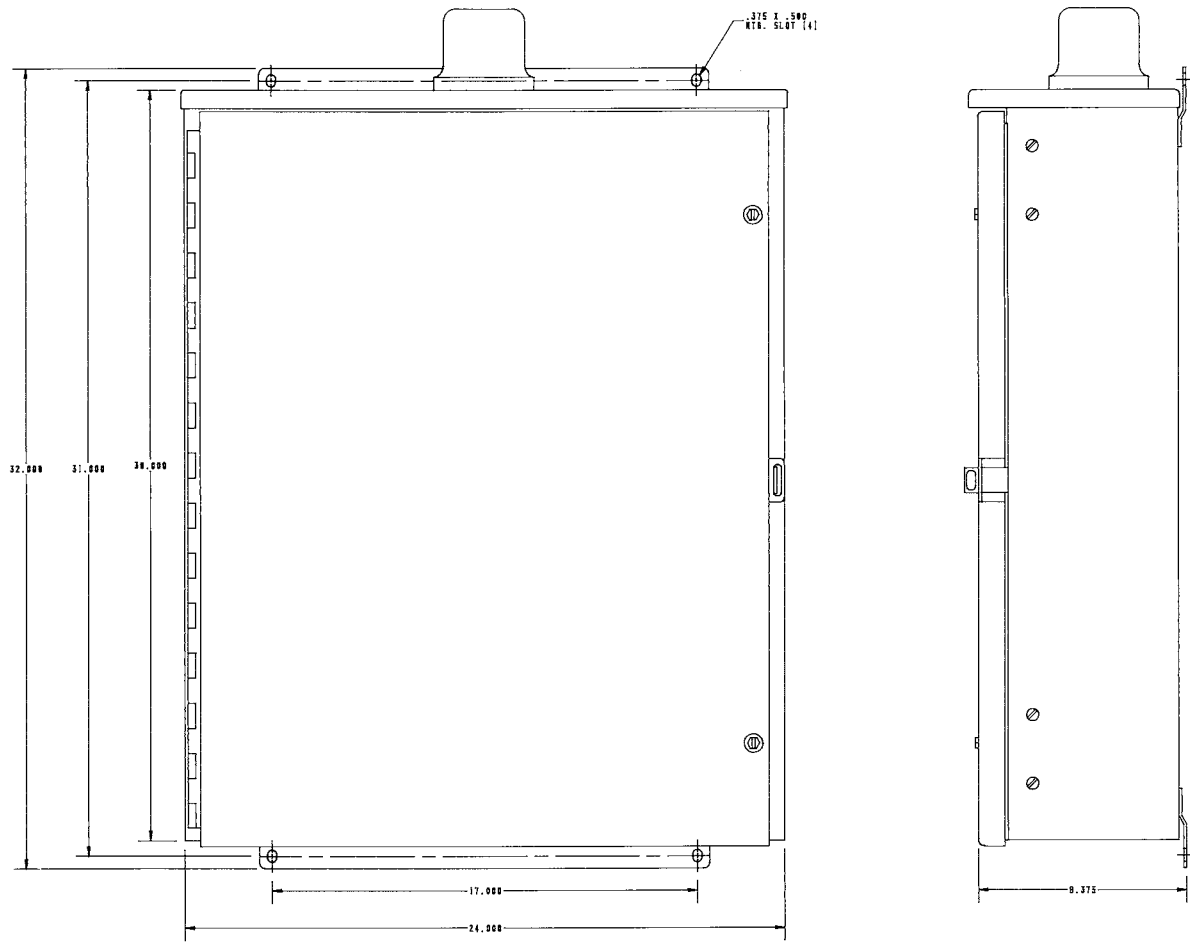
CAT. NO. CWHV4-100-23SW



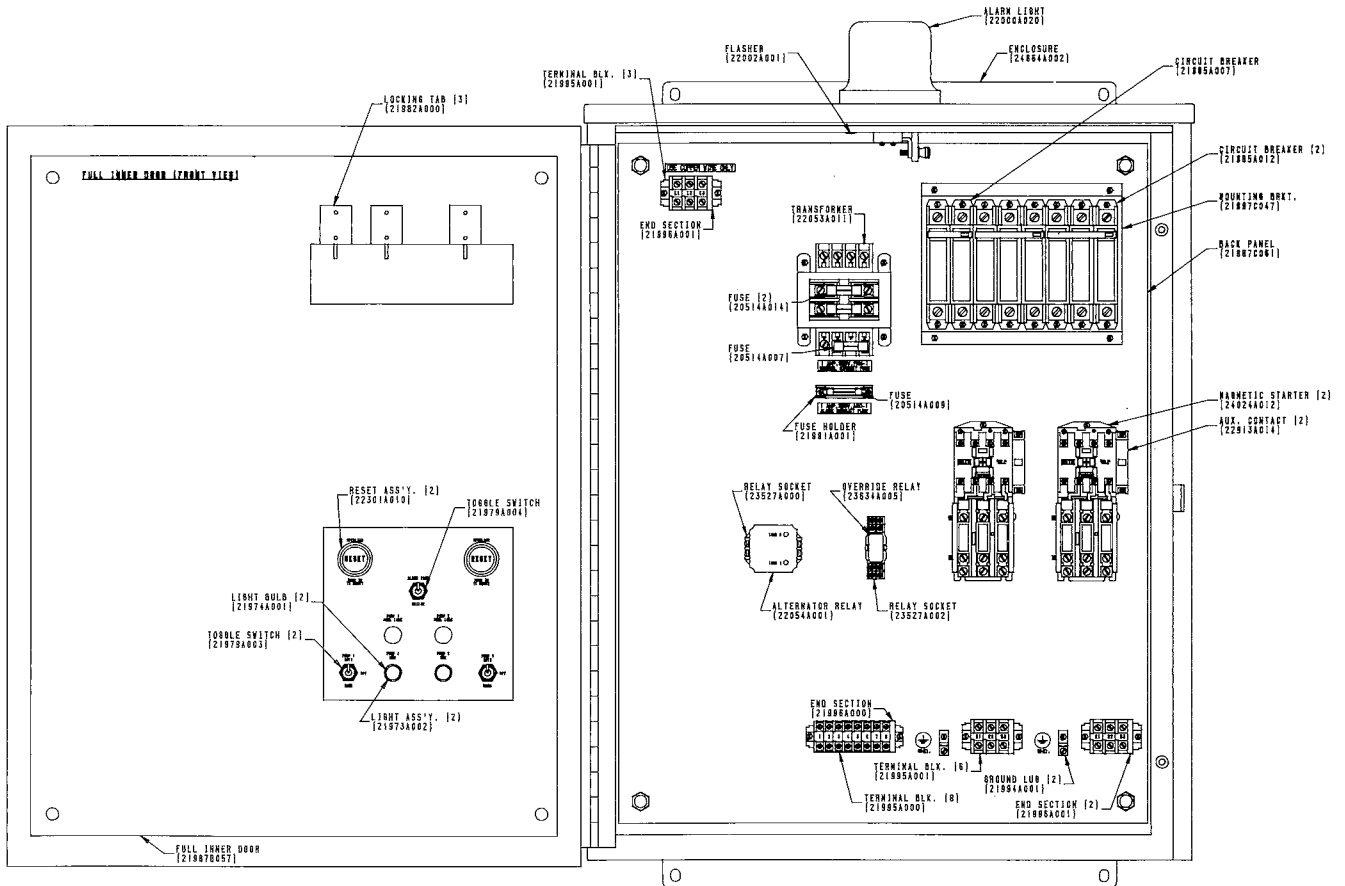
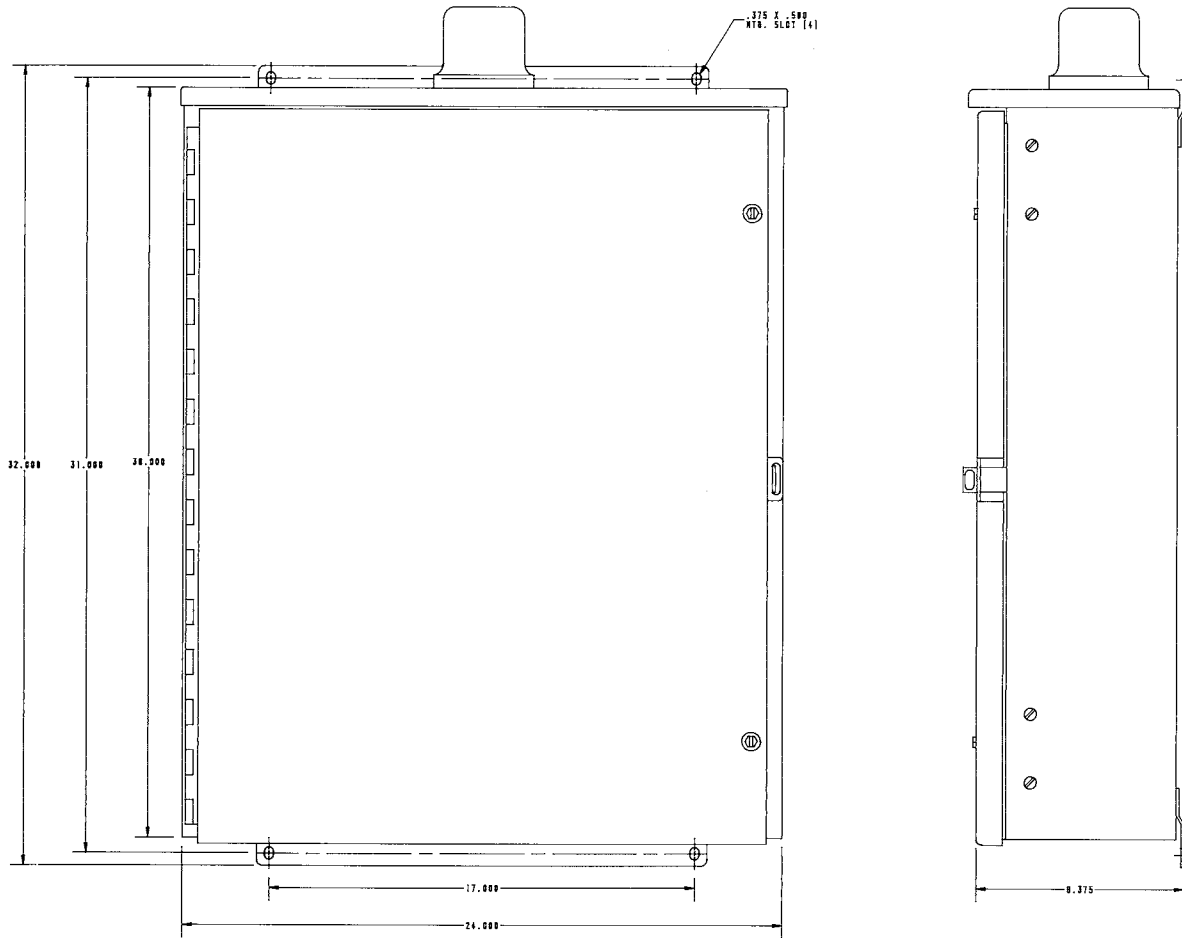
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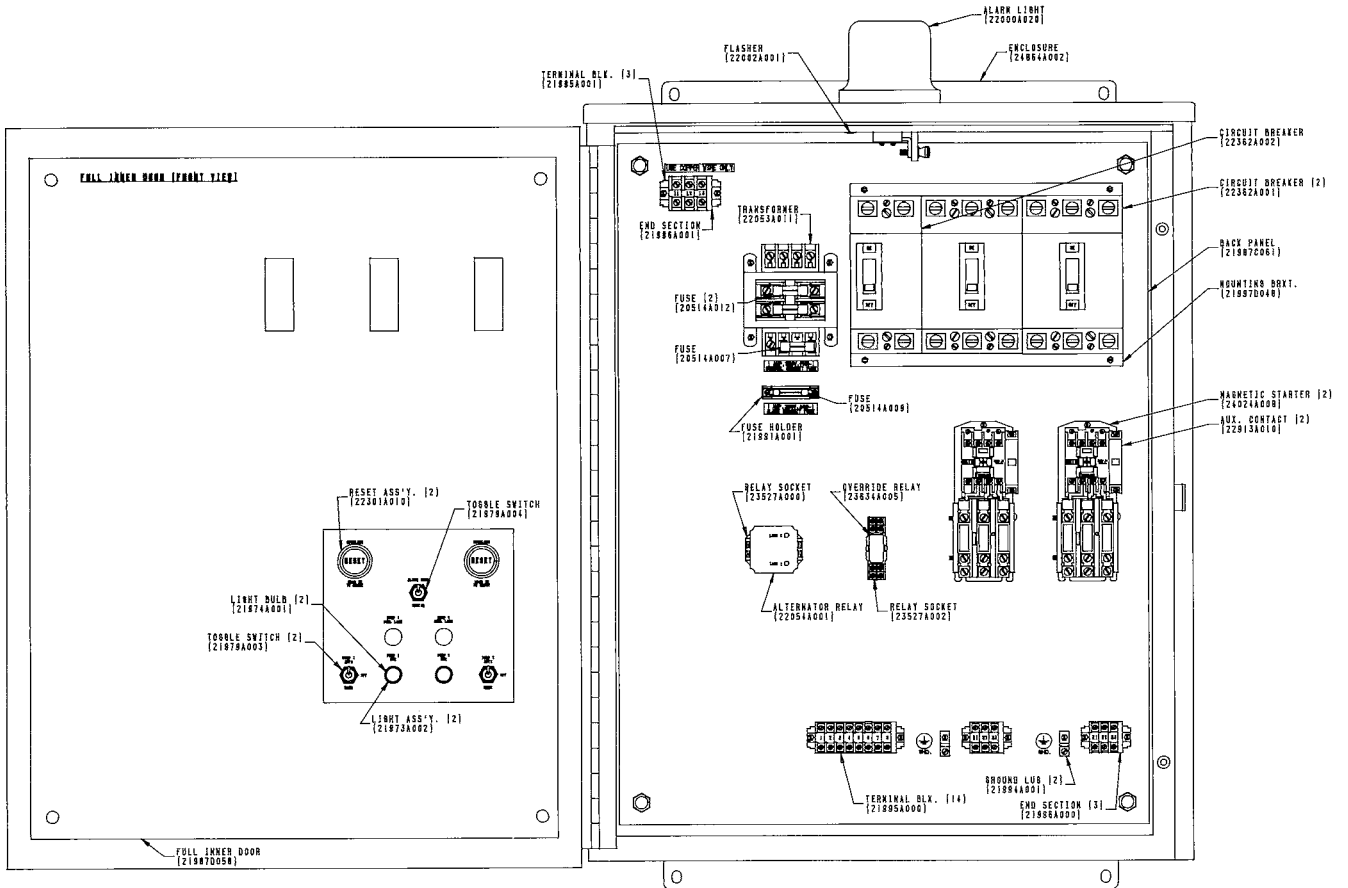
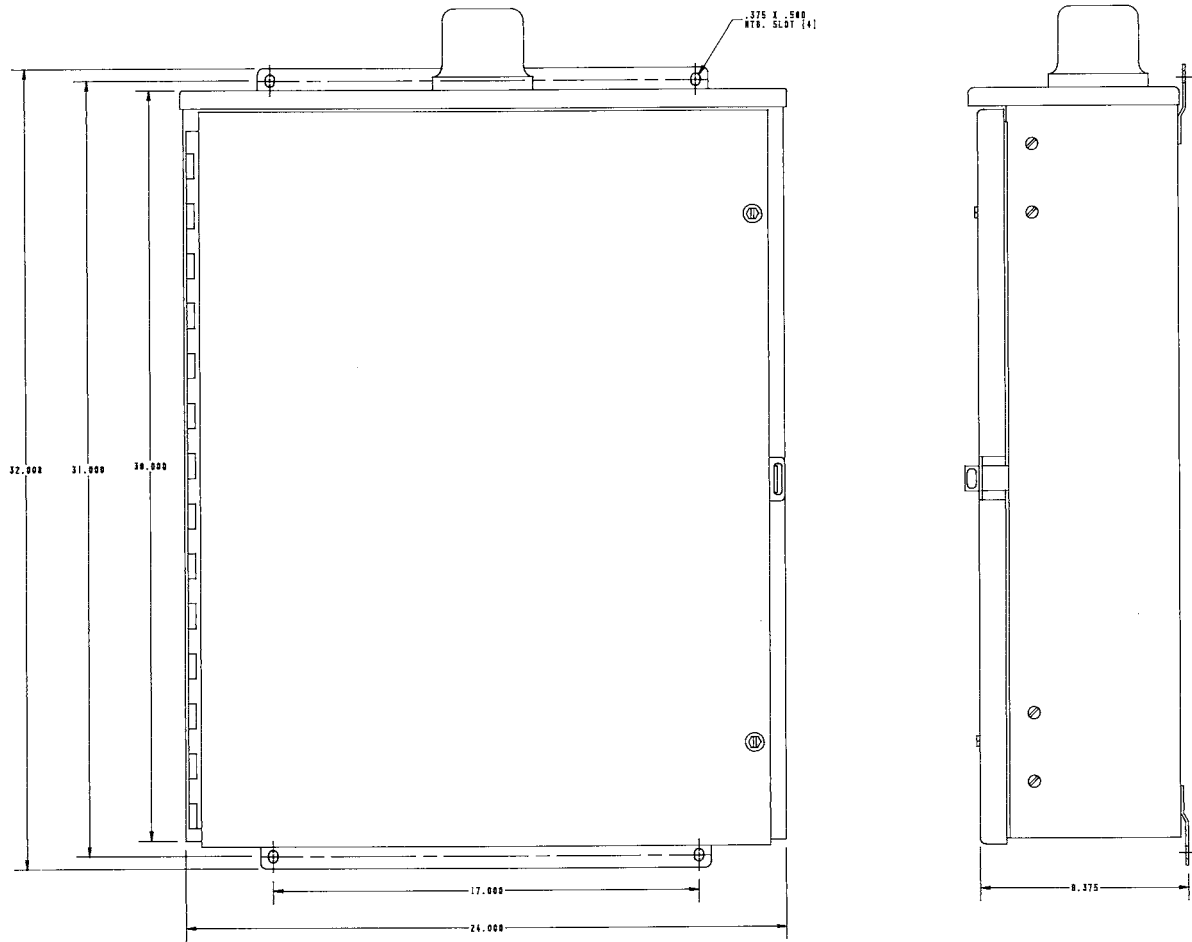
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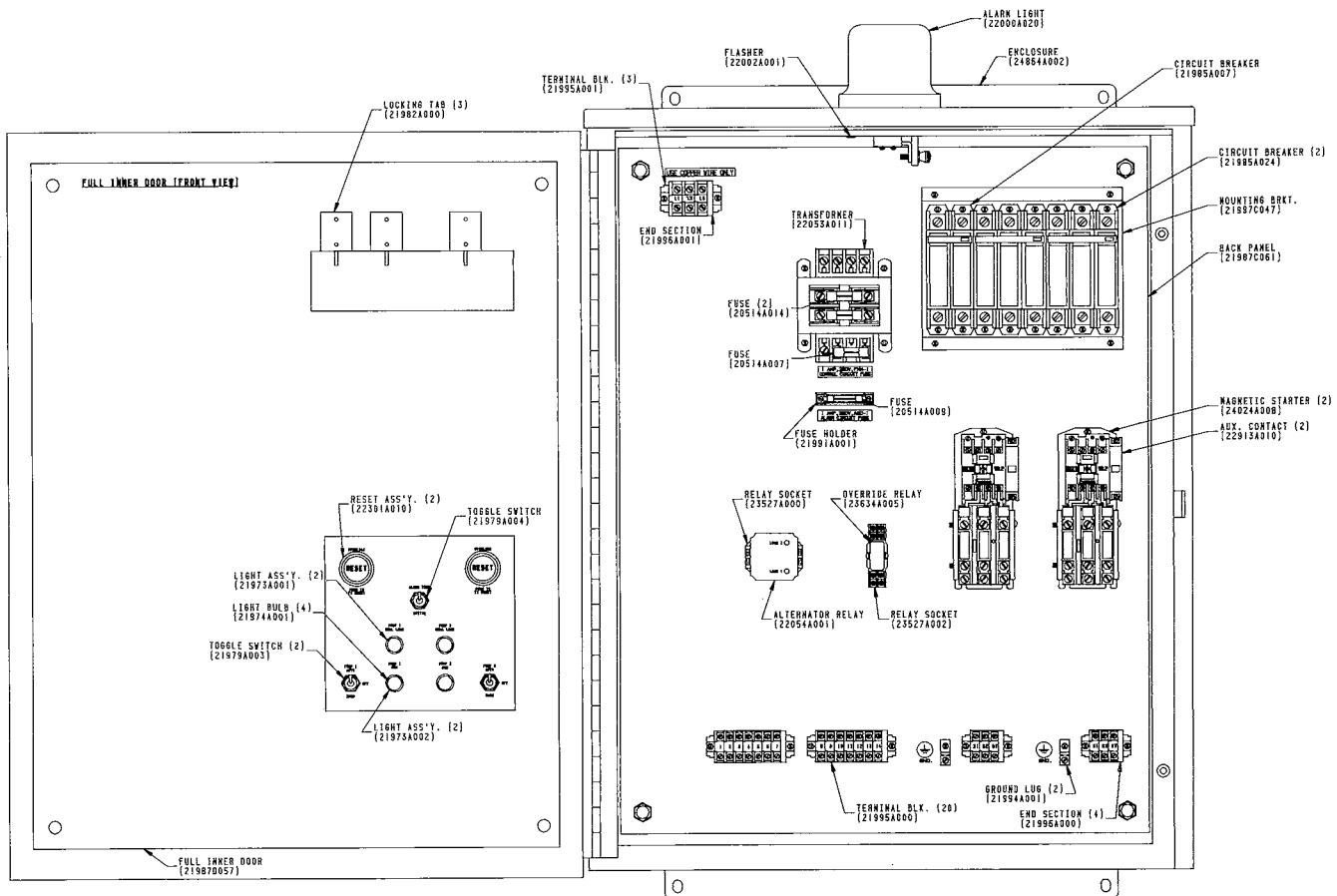
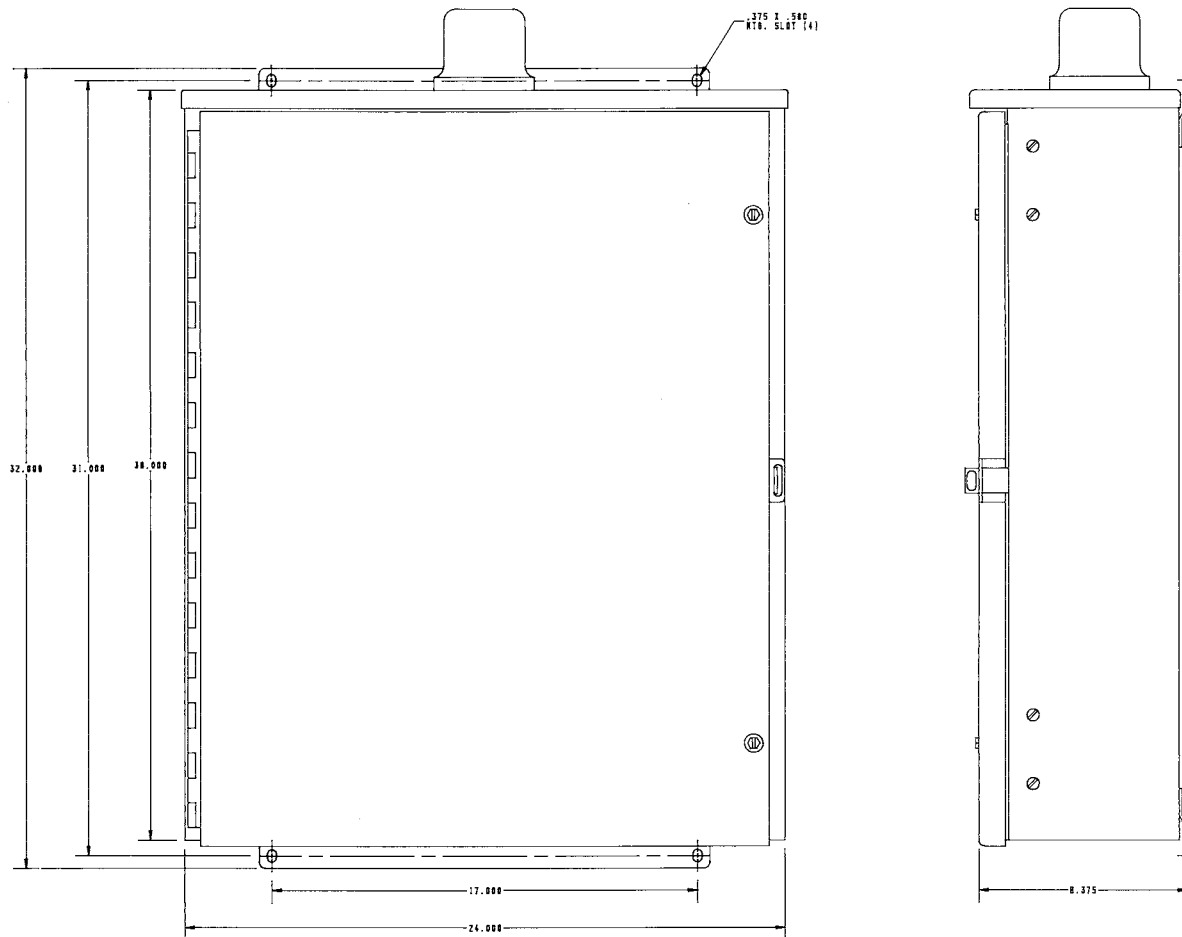
CAT. NO. CWHV3-30-23DW



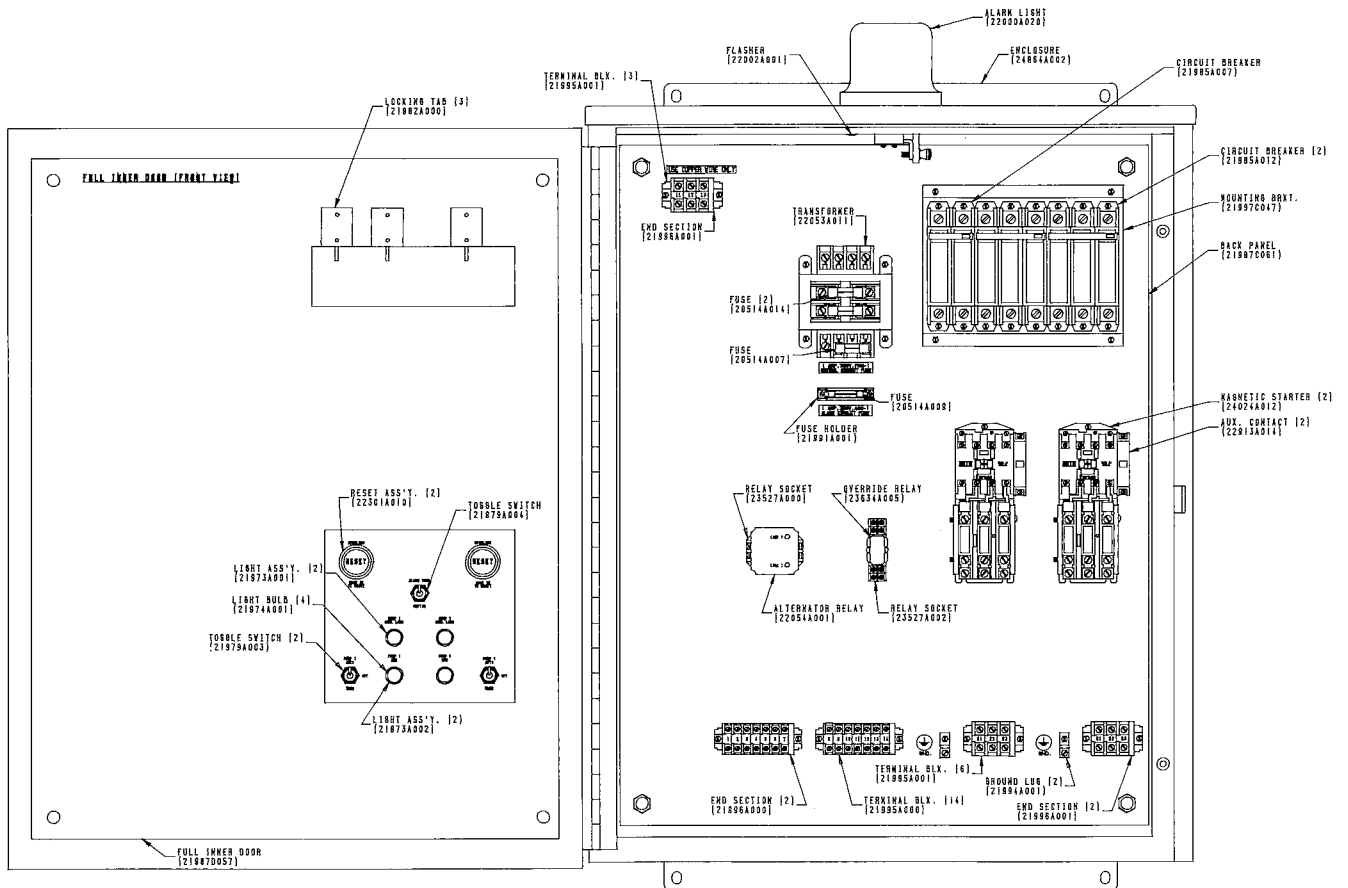
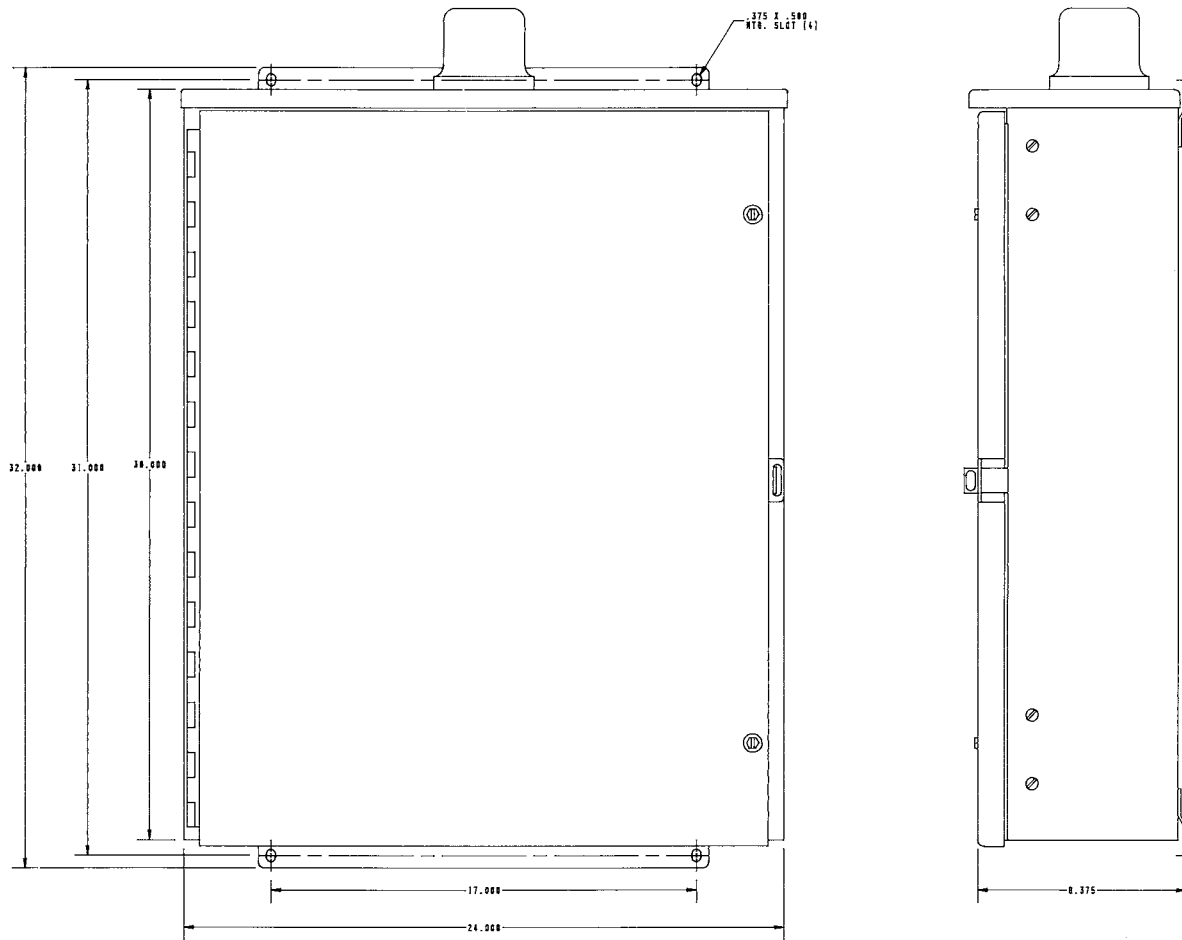
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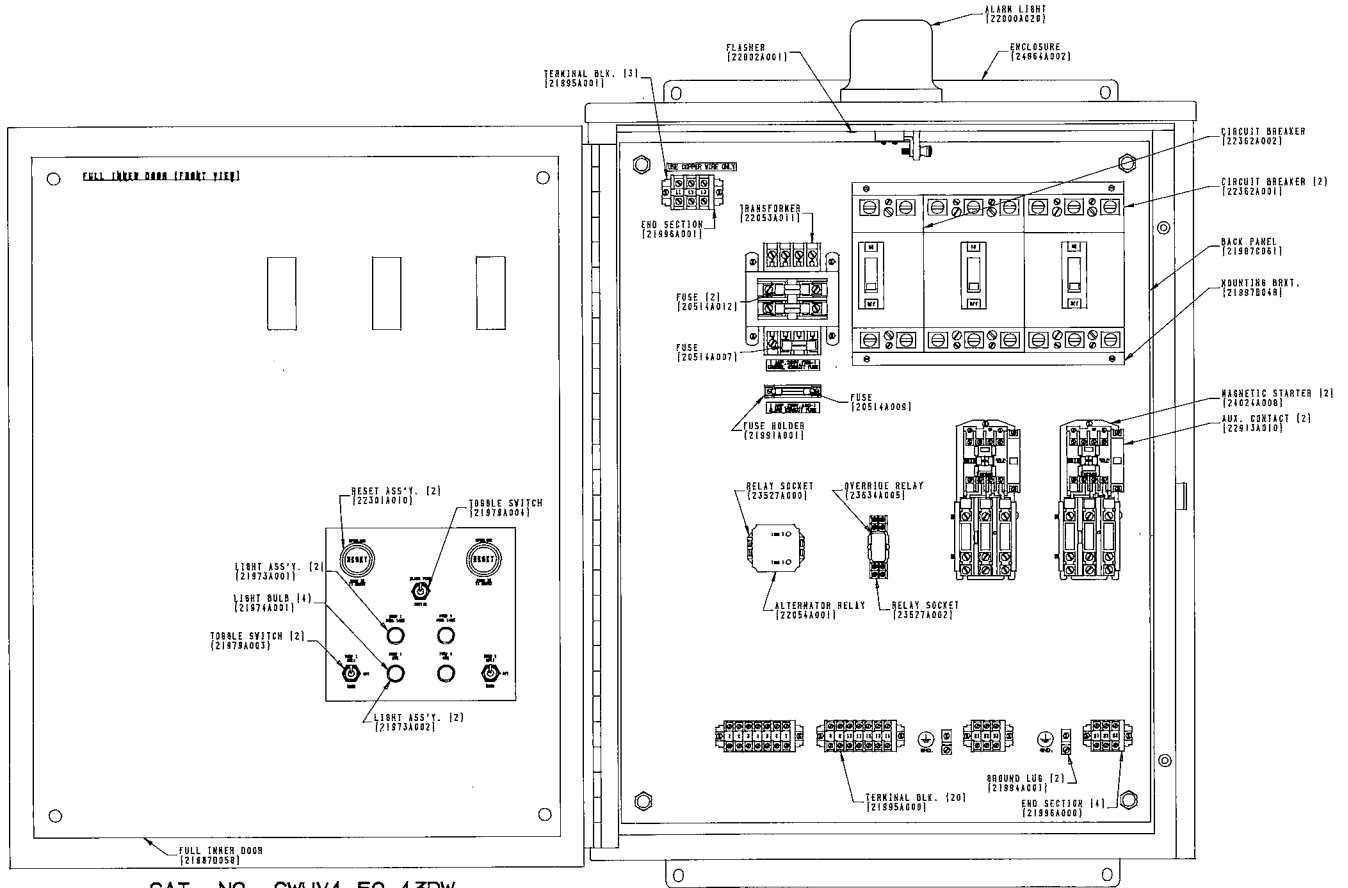
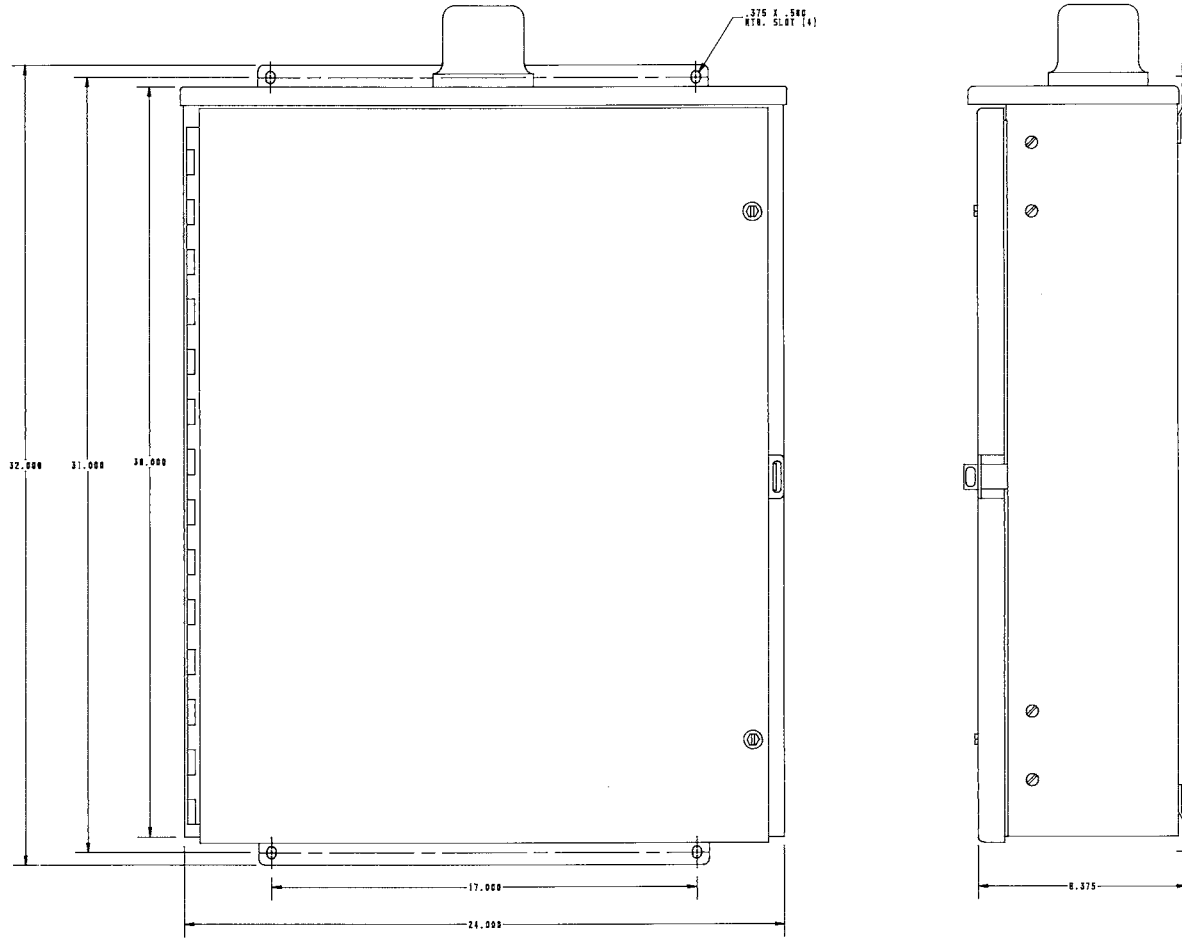
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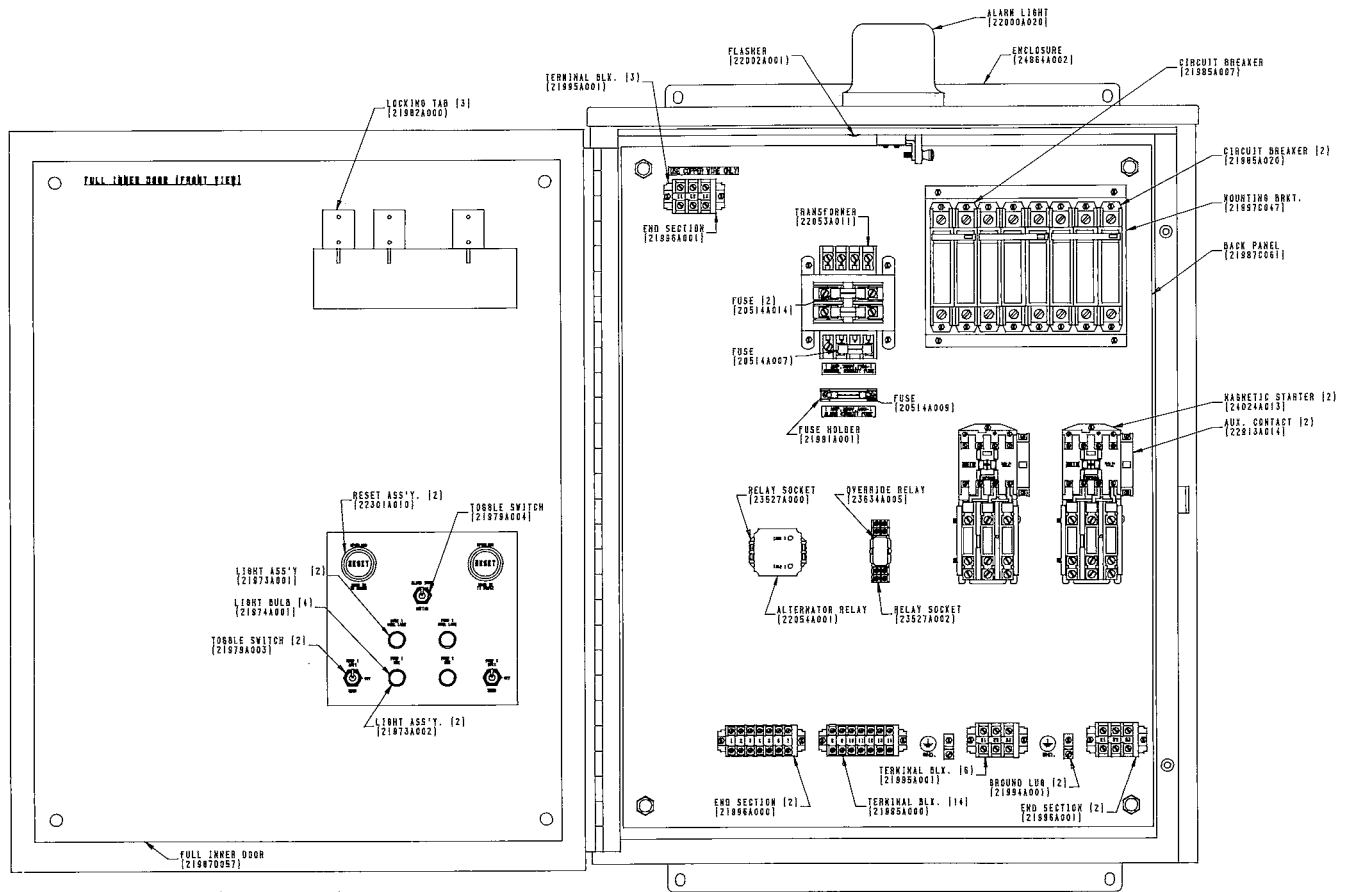
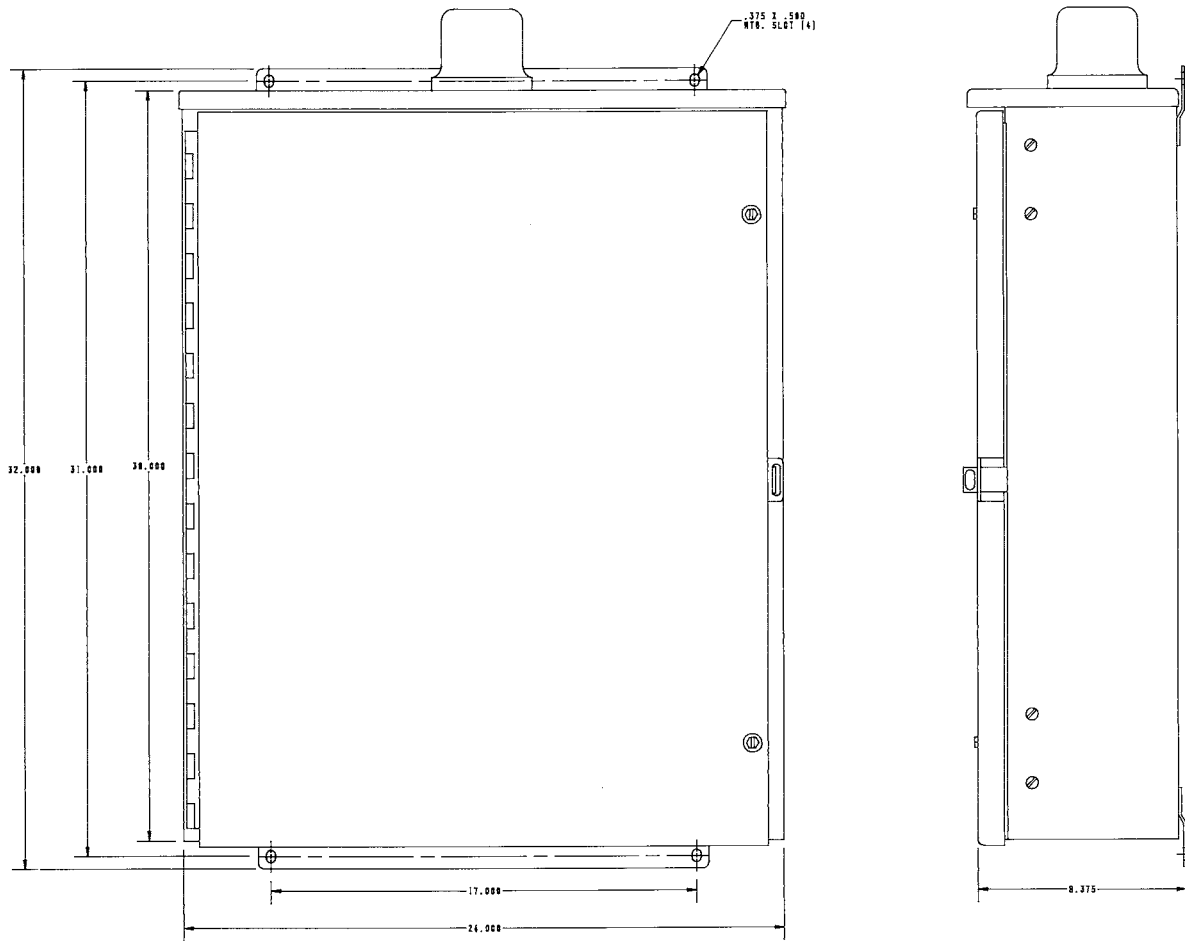
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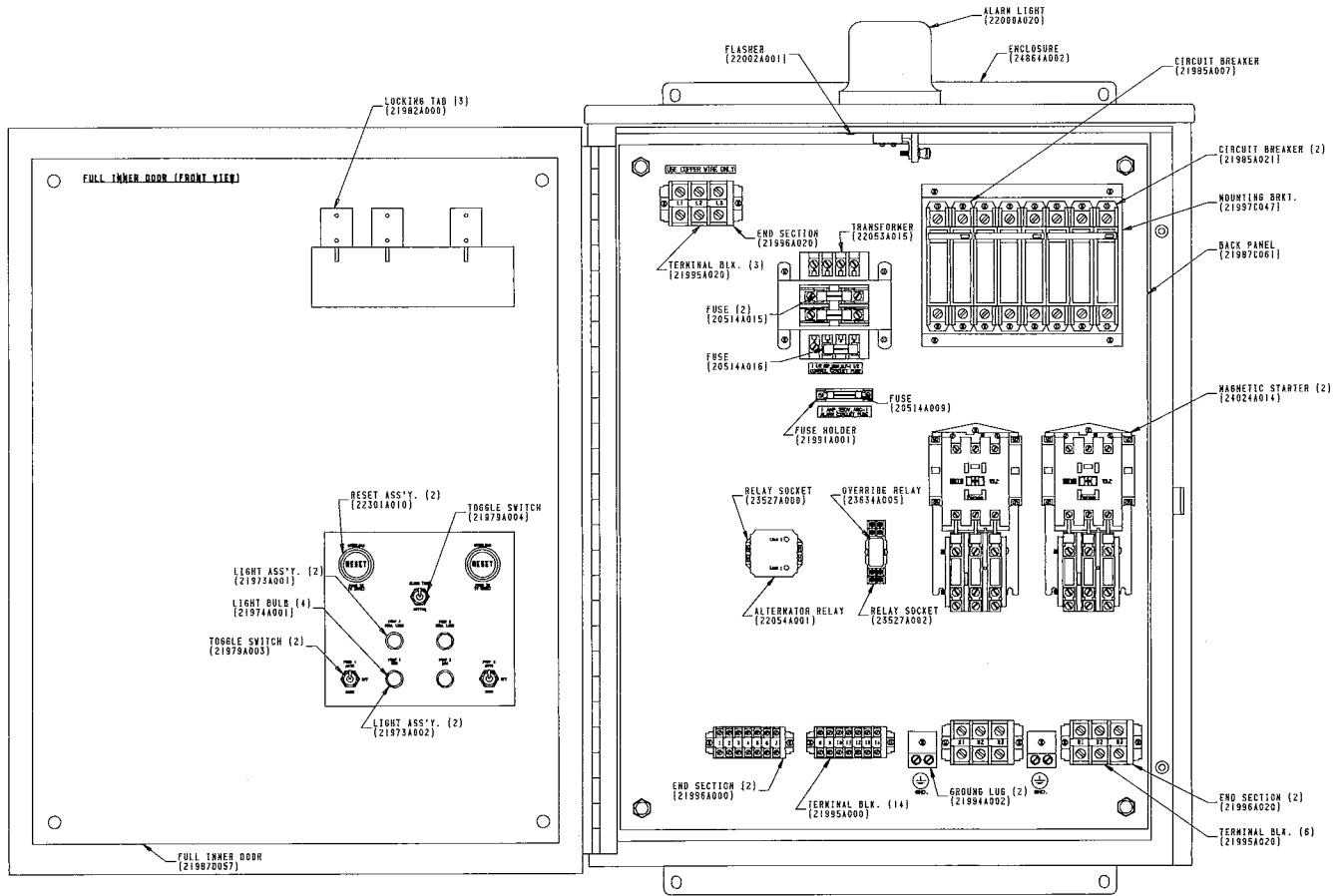
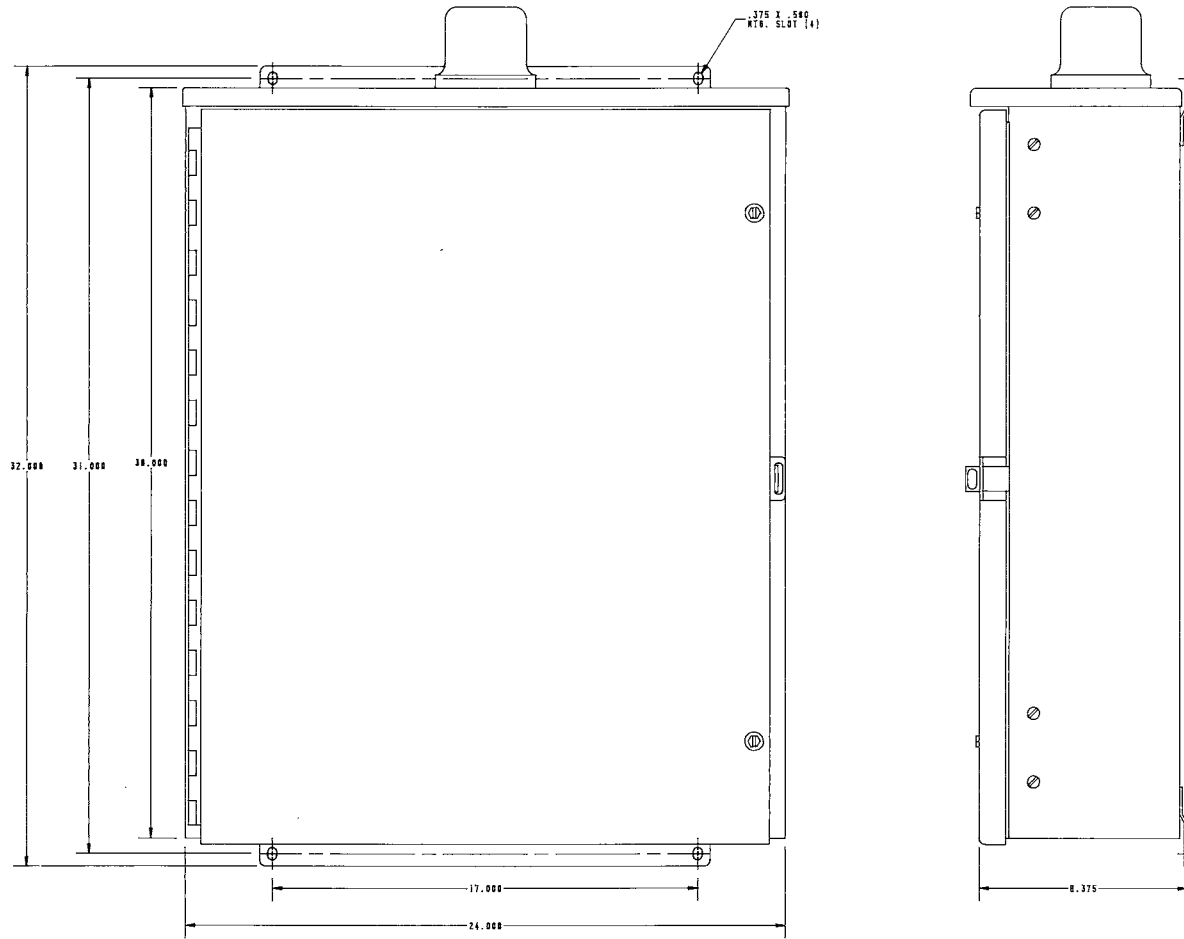
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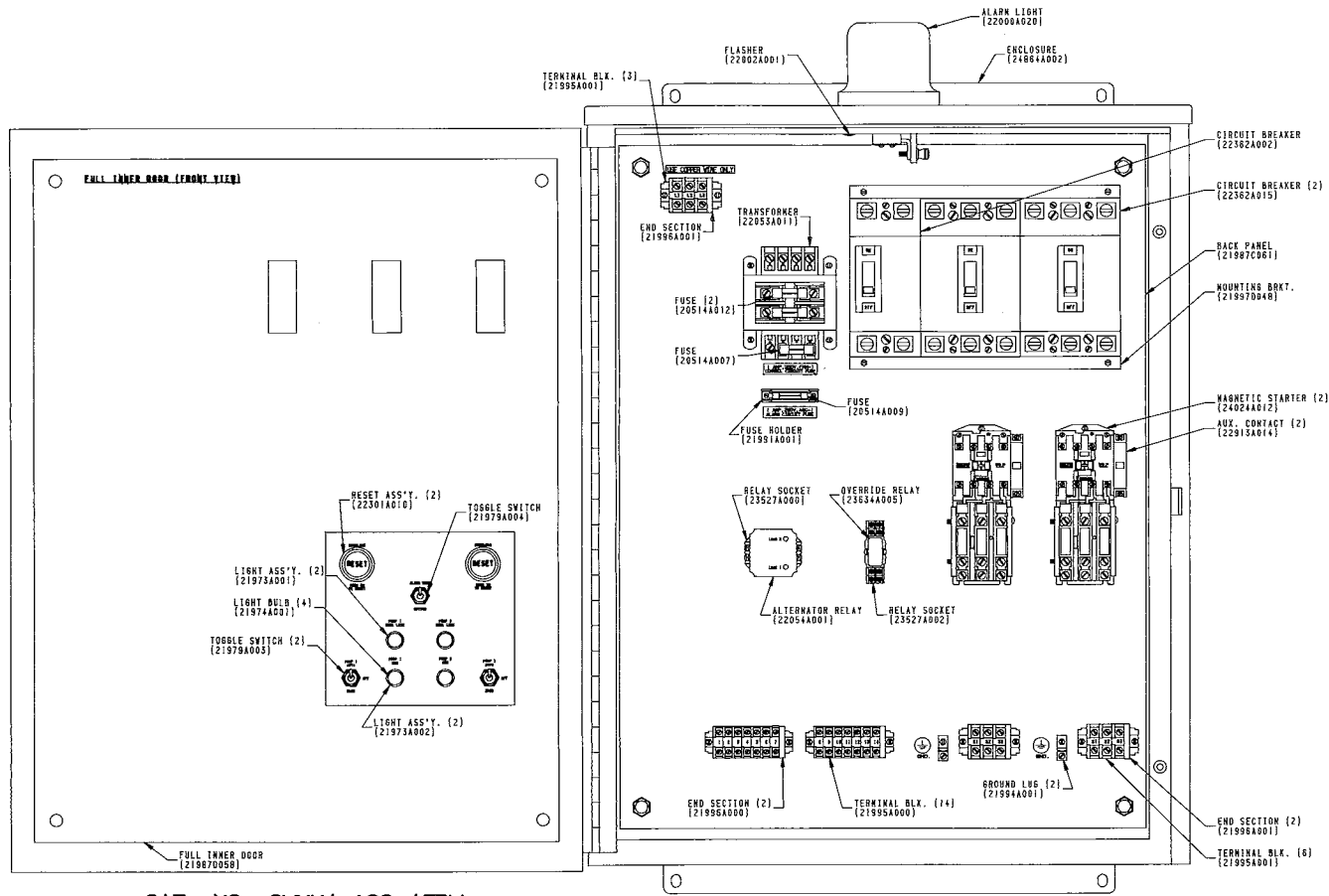
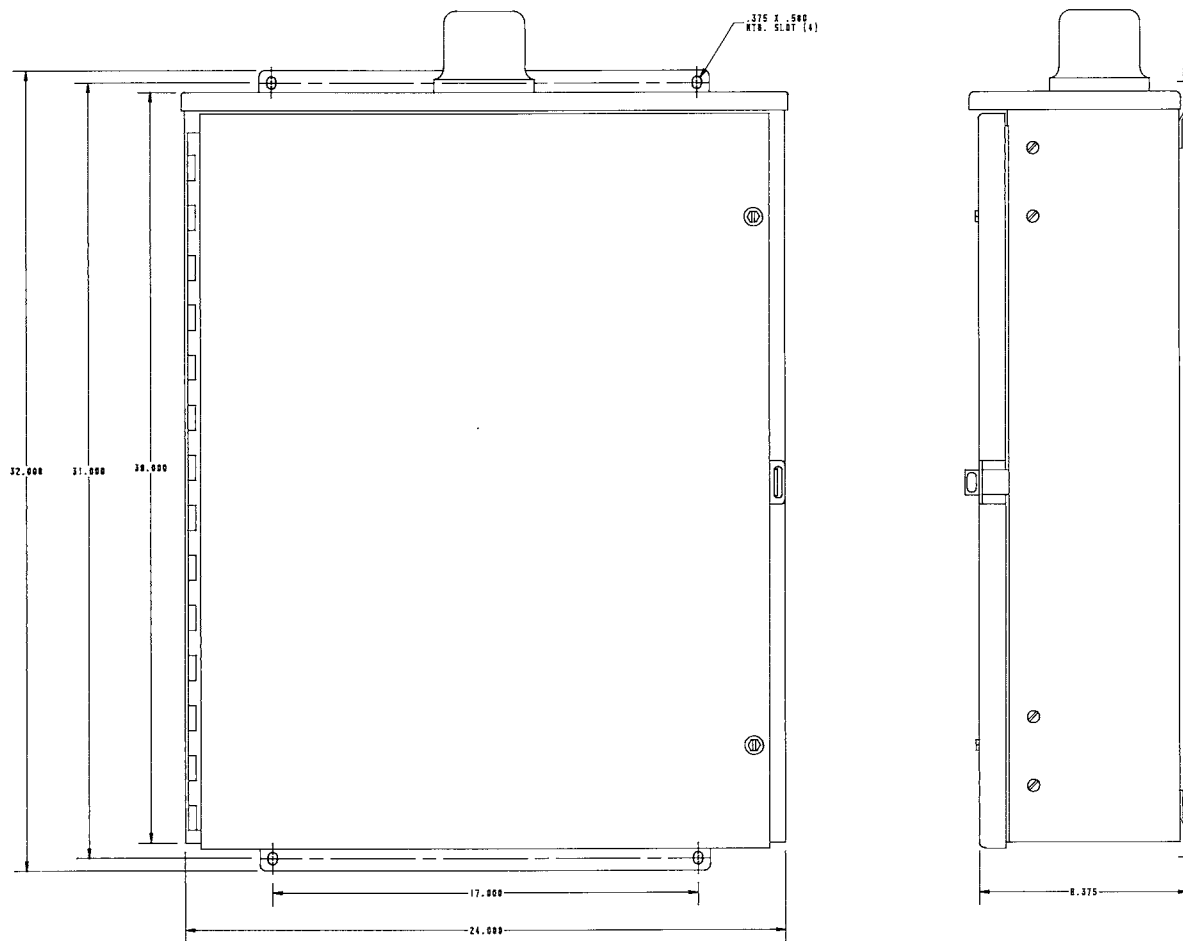
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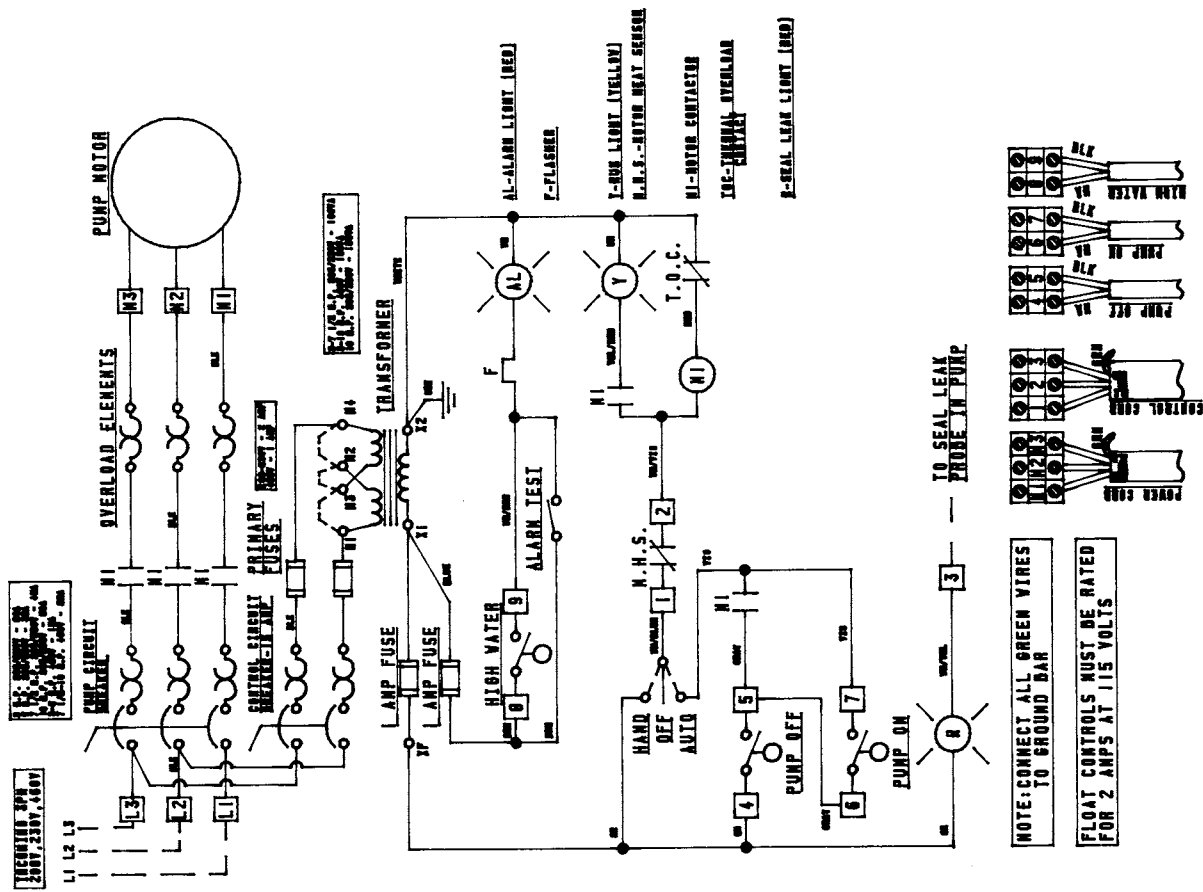
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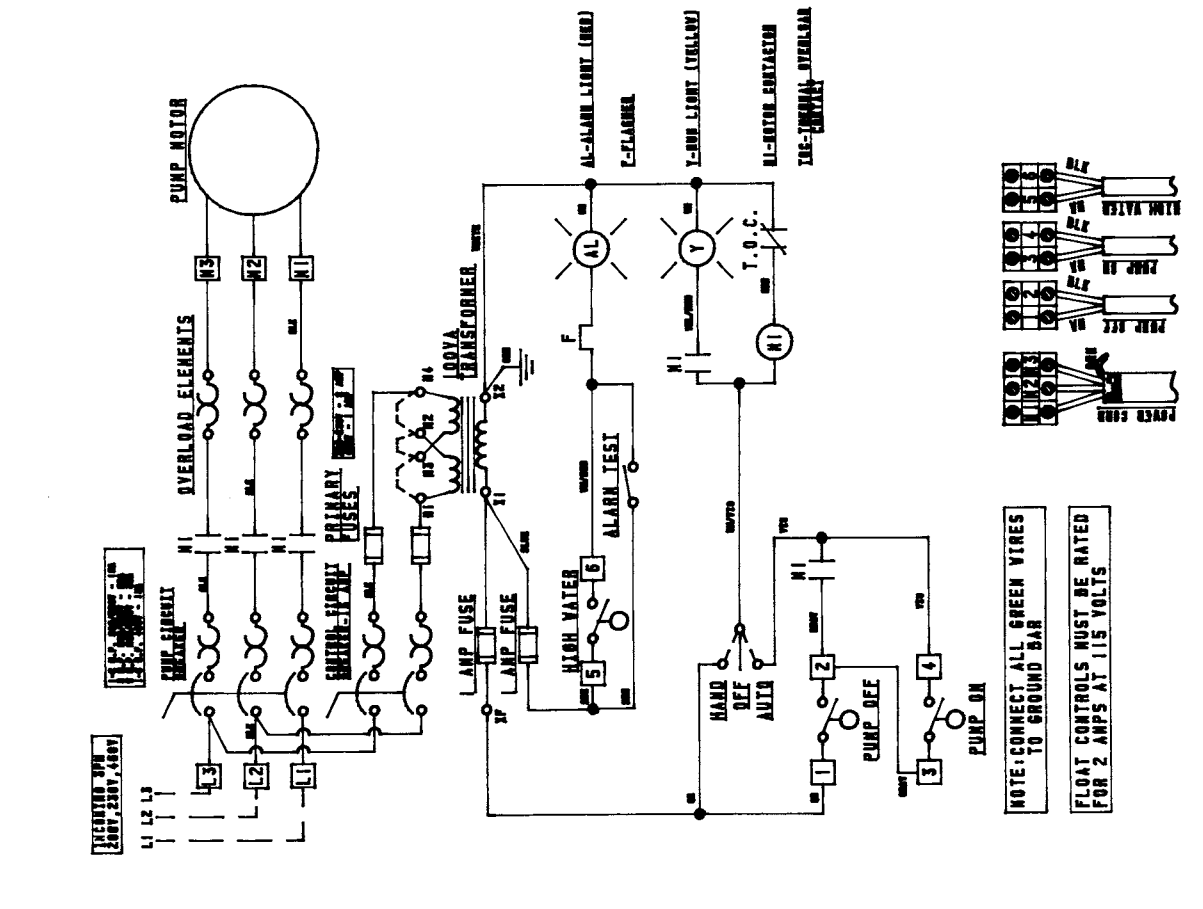
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CAT. NO. CWHV4-100-43DW



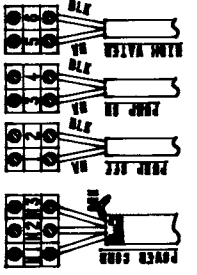
**3-10 H.P. 4WHV PUMPS
208,230,460 VOLT, 3 PHASE, SIMPLEX**



**1-5 H.P. 3WHV PUMPS
208,230,460 VOLT, 3 PHASE, SIMPLEX**

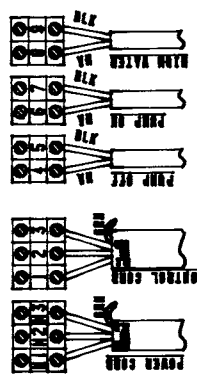
NOTE: CONNECT ALL GREEN WIRES TO GROUND BAR

FLOAT CONTROLS MUST BE RATED FOR 2 AMPS AT 115 VOLTS

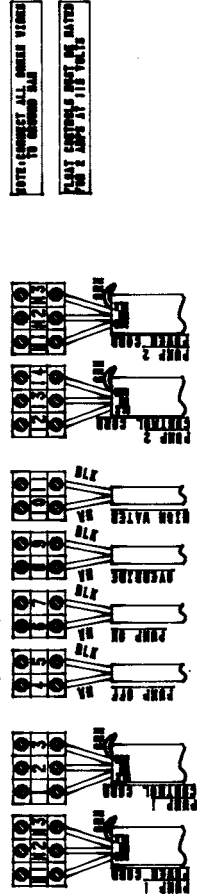
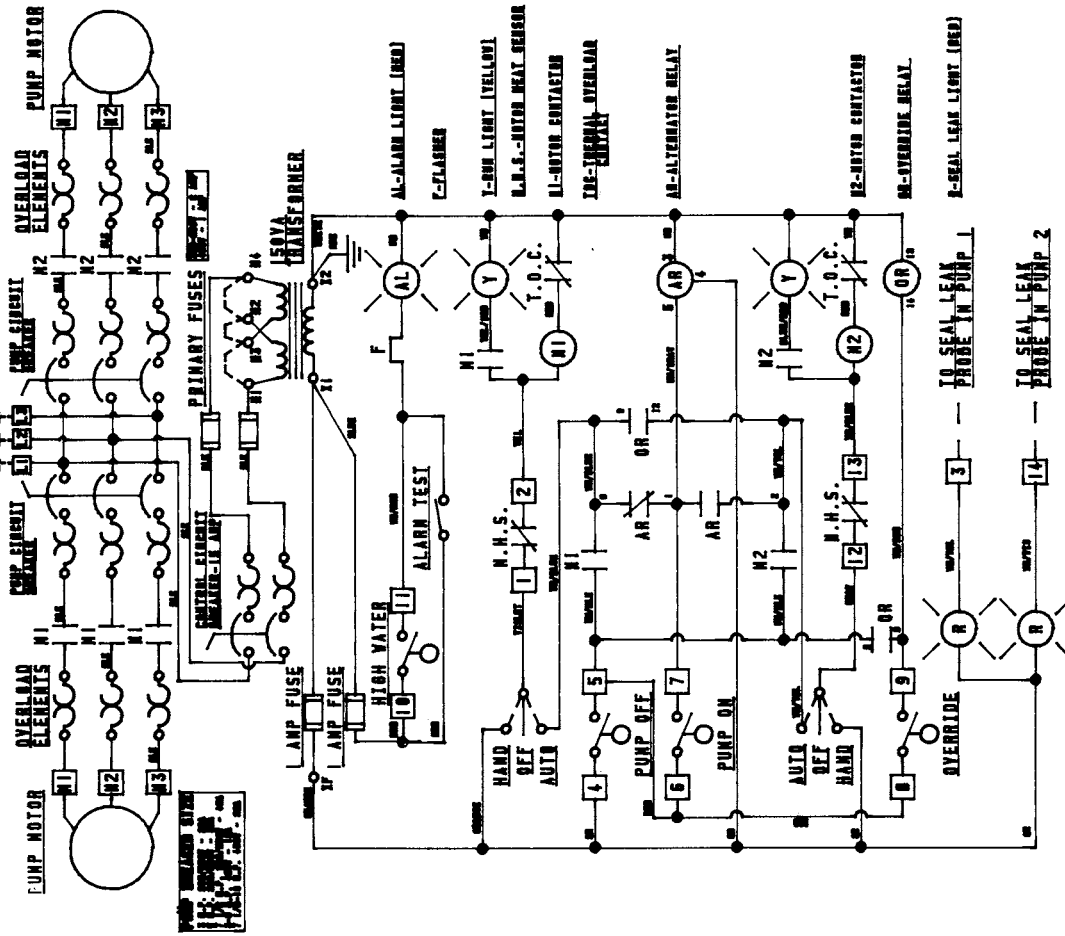


NOTE: CONNECT ALL GREEN WIRES TO GROUND BAR

FLOAT CONTROLS MUST BE RATED FOR 2 AMPS AT 115 VOLTS

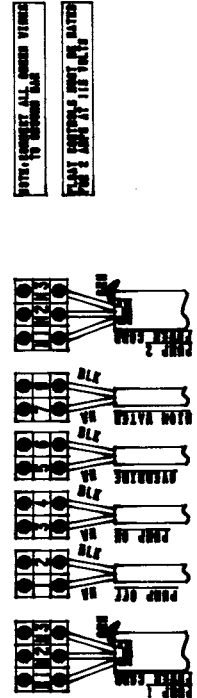
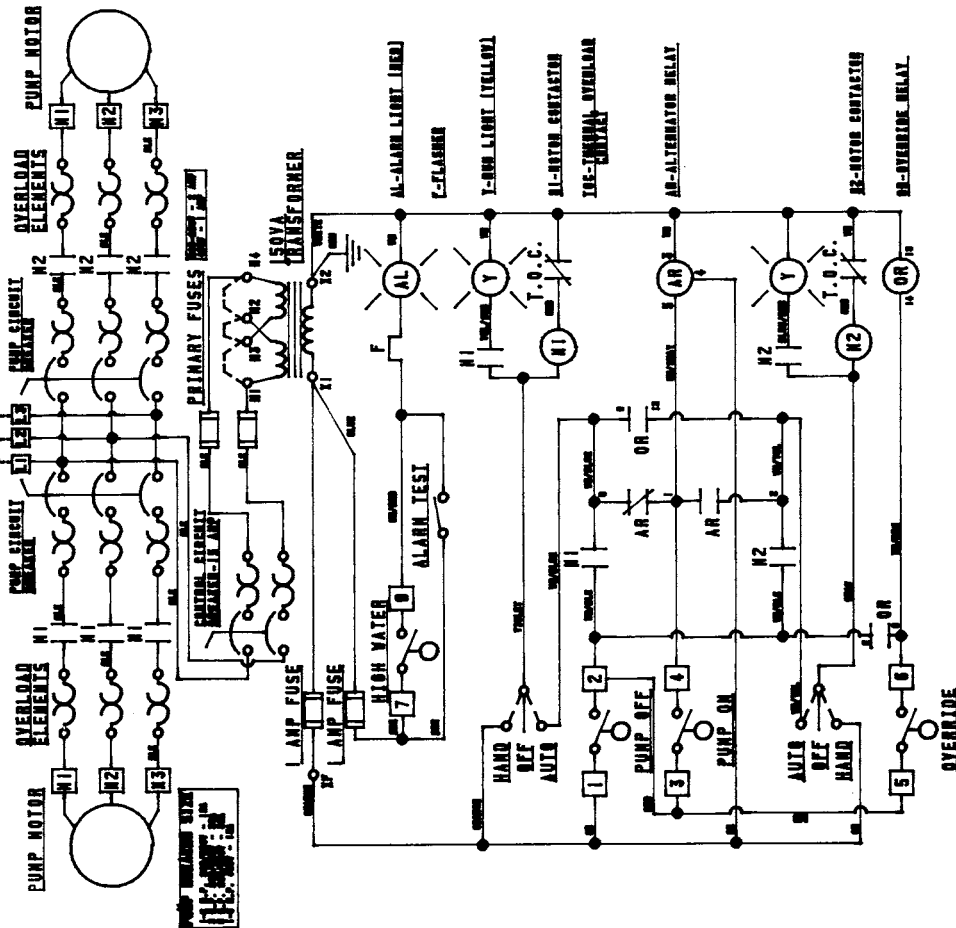


INCUBATOR 208,230,460V 3PH



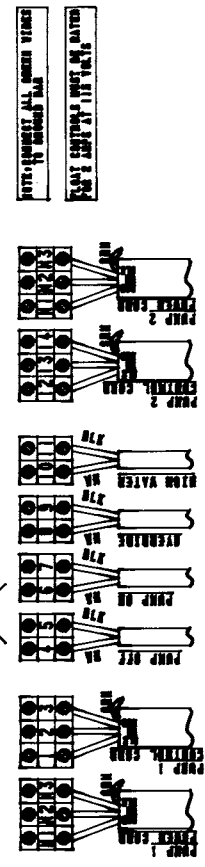
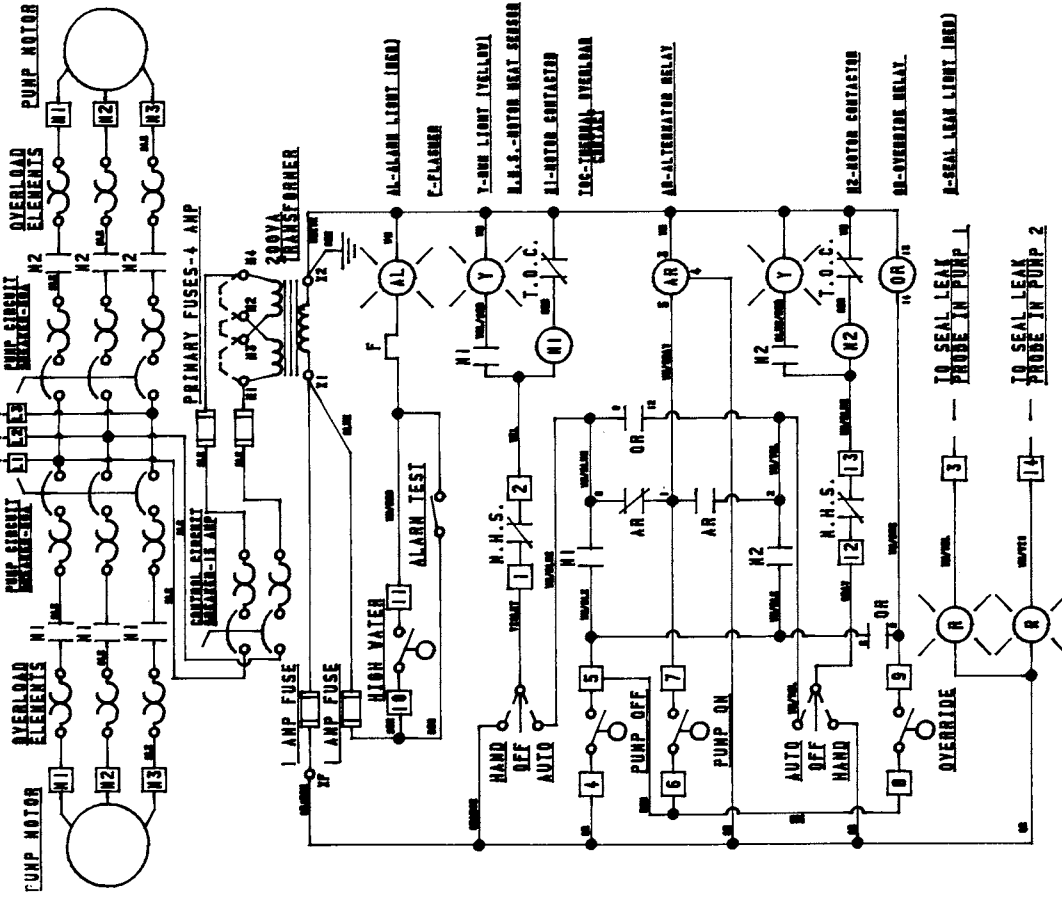
3-7 1/2 H.P. 208,230 VOLT, 3 PHASE
3-10 H.P. 460 VOLT, 3 PHASE
4WHV PUMPS, DUPLEX

INCUBATOR 208,230,460V 3PH



1-5 H.P. 3WHV PUMPS
208,230,460 VOLT, 3 PHASE, DUPLEX

RECORDING 208-230V-3PH



NOTE: SHORTEST ALL UNDER VOLTAGE TO BEHIND FUSE
 FUSE & CONTACTS MUST BE RATED FOR 3 AMP @ 115 VOLTS

**10 H.P. 4WHV PUMPS
 208, 230 VOLT, 3 PHASE, DUPLEX**

STANDARD LIMITED WARRANTY

Pentair Myers® warrants its products against defects in material and workmanship for a period of 12 months from the date of shipment from Pentair Myers or 18 months from the manufacturing date, whichever occurs first – provided that such products are used in compliance with the requirements of the Pentair Myers catalog and technical manuals for use in pumping raw sewage, municipal wastewater or similar, abrasive-free, noncorrosive liquids.

During the warranty period and subject to the conditions set forth, Pentair Myers, at its discretion, will repair or replace to the original user, the parts that prove defective in materials and workmanship. Pentair Myers reserves the right to change or improve its products or any portions thereof without being obligated to provide such a change or improvement for prior sold and/or shipped units.

Start-up reports and electrical schematics may be required to support warranty claims. Submit at the time of start-up through the Pentair Myers website: <http://forms.pentairliterature.com/startupform/startupform.asp?type=m>. Warranty is effective only if Pentair Myers authorized control panels are used. All seal fail and heat sensing devices must be hooked up, functional and monitored or this warranty will be void. Pentair Myers will cover only the lower seal and labor thereof for all dual seal pumps. Under no circumstance will Pentair Myers be responsible for the cost of field labor, travel expenses, rented equipment, removal/reinstallation costs or freight expenses to and from the factory or an authorized Pentair Myers service facility.

This limited warranty will not apply: (a) to defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with the printed instructions provided; (b) to failures resulting from abuse, accident or negligence; (c) to normal maintenance services and parts used in connection with such service; (d) to units that are not installed in accordance with applicable local codes, ordinances and good trade practices; (e) if the unit is moved from its original installation location; (f) if unit is used for purposes other than for what it is designed and manufactured; (g) to any unit that has been repaired or altered by anyone other than Pentair Myers or an authorized Pentair Myers service provider; (h) to any unit that has been repaired using non factory specified/OEM parts.

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Warranty Rev. 12/13