

OWNER'S MANUAL MANUEL DE L'UTILISATEUR

VACCUM MACHINE 650A

1

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS



This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate your machine.

Failure to comply with these instructions may result in personal injury.

General Operation

- Read, understand, and follow all instructions in the manual and on the machine before starting. Keep this manual in a safe place for further and regular reference and for ordering replacement parts.
- Only allow responsible individuals familiar with the instructions to operate the machine. Be sure to know controls and how to stop the machine quickly.
- Never put your hands near moving parts.
- Only allow qualified individuals for the maintenance of your machine.
- Remove all obstacles, which may interfere with the machine functions.
- Clear the work area such as electrical wires, buckets, knives etc.
- Be sure that everyone else is clear of your work area before operating the machine.
- Do not sit nor stand on the machine.
- Always turn off the machine after your work is done. Never leave a running machine unattended.
- Always disconnect and wait till the machine has cooled before attempting any maintenance.
- Do not wear loose fitting clothes or jewelry as they may get caught in moving parts of the machine.
- Always wear security shoes, to prevent injury caused by moving the machine or objects falling from the machine.
- Never exceed the time limit to seal, which is recommended by the manufacturer. This is to avoid any damage that may be caused to the sealing bars and to eliminate the risk of fire in the machine. Thus avoiding corporal burns.
- Never touch the sealing bars after they have been used, this will avoid corporal burns. Wait a few minutes to let the machine cool down before touching.
- Always make sure that the sealing bars are well installed in their "Guide Blocks" before starting a cycle.
- Never incline the machine more than 30 degrees, it may tip over and hurt someone seriously.
- Work only in daylight or good artificial light.

Do not operate the machine while under the influence of alcohol or drugs!

Service

- Use proper containers when draining the oil. Do not use food or beverage containers that may mislead someone into drinking from them. Properly dispose of the containers, or store in a safe place immediately following the draining of the oil.
- Prior to disposal, determine the proper method to dispose of waste from your local office of Environmental Protection Agency. Recycling centers are established to properly dispose of materials in an environmentally safe fashion.

Do not pour oil or other fluids into the ground, down a drain or into a body of water.



This machine should only be operated by personal who can read, understand and respect warnings and instructions regarding this machine in the owners manual. Save these instructions for future reference.

SIPROMAC INC. VACUUM PACKAGING MACHINES

1. SETTING UP THE MACHINE:

Before choosing the site for the machine, please consider that you will also need room for packaged and non-packaged products apart from the space needed for the machine itself.

Keep in mind that the machine must not be set up upon uneven ground. Especially with mobile models, the weight of the pump might then cause warping of the machine. Then the lid will not fit correctly.

Before starting to work, check the oil view glass on the pump, if there is a sufficient quantity of oil in the pump. Never use oil other than recommanded by the producer. Never exceed maximum quantity of oil indicated, when adding or changing oil. Verify weekly.

Normal ambient temperature for the vacuum pump is between 10 to 70°C.For temperature below 10°C; it is recommended to use synthetic oil. Please consult factory and pump manufacturer manual for more information or when ambient temperature are outside normal limits

2. ELECTRICAL CONNECTION:

Electrical connections must be made by qualified personnel. This person must make sure that the electrical entries corresponds to the proper voltage and amperage of the machine. GROUNDING INSTRUCTIONS: This appliance must be connected to a grounded, metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance. A qualified electrician should be consulted if there is any doubt as to whether an outlet box is properly grounded.

All vacuum machines are supplied with an electrical schematic drawing. An important step in connecting the machine is to make sure that the pump turns in its correct rotation.



The pump should not rotate more than 3 to 4 seconds in the wrong rotation or it may cause serious damage. The proper rotation is indicated by an arrow on the pump motor.

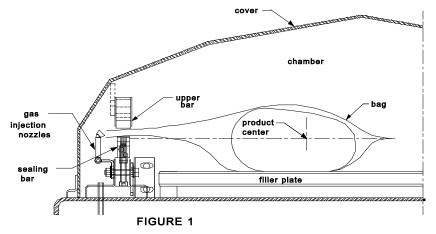
3. OPERATION:

3.1 Working principles:

A vacuum packaging cycle is made of 3 stages. First the vacuum is made, the air is completly taken out of the chamber and from bag containing the product. (See figure 1). Then it is possible to inject neutral gas from the nozzles, if the product is delicate. Finally, a mechanism pushes the sealing bar to the rubber support to seal the bag.

To obtain nice packages, the products and the bags have to be of proportional sizes. The bag's opening should never exceed 50 cm(2") past the seal bars. The product should be centered in height in relation to the seal bar by adjusting the spacers provided.

To obtain a good seal, make sure that no residue of fat is left between the bag's inner sides where sealing is done.



3.2 Special packaging:

3.2.1 Gas flushing (option):

There is an atmospheric pressure of 1 kg/ sq. cm (14 lbs/sq. inch) upon products when fully evacuated. Products which can be damaged by high pressure must be packaged with a partial vacuum, or the pressure must be counterbalance by inflating the bag with gas (nitrogen or carbon dioxide) before sealing after evacuation.

For gas flushing, the bags are placed on the sealing bars, the open end placed over the gas nozzles mounted alongside the sealing bar. After evacuation, the vacuum valve closes and the gas valve opens. Gas time (sec.) can be set in the program menu.

The necessary gas tank and pressure valve mounted on tank is not supplied, The pressure of the gas regulator should be set at approximately 1/3 kg/sq. cm (5 lbs/sq.inch.). Each machine has an adaptor for gas connection when gas flush option is ordered.

3.2.2 Top and bottom sealing (optional):

When sealing aluminium laminate bags (especially bags for e.g. coffee) it is imperative to have an upper and a lower sealing bar.

3.2.2 Electrical bag cut (optional):

This option is used to obtain a package that the excess bagtail is cut off close to the seal (cannot be used with top and bottom sealing).

3.3 <u>Vacuum packaging operation</u>:

3.3 Vacuum packaging operation:

Note: Refer to the menus structure on page 14 and the keyboard detail on page 15.

3.3.1 Basics:

Use key "POWER" to power ON / OFF the vacuum packaging machine. When the unit is energized, the identification of the last executed program is displayed on LCD screen.

Use the "ESC" key to change over from the programs menu to the functions menu and from the functions menu to the programs menu.

In functions menu, use key "SELECT" to select a function and key "ENTER" to accede and executed the selection.

In programs menu, use key "SELECT" to select a program and key "ENTER" to accede and modify the selection.

In programs submenu, use key "ENTER" to pass over the parameters and point to the following one; the parameters are blinking to point out the acquisition mode. A return to programs menu is performed automatically following the last parameter acquisition.

In program submenu, use key "ESC" to get back to the programs menu. Strike any key to clear the error messages which may be displayed on LCD screen.

3.3.2 Functions:

3.3.2.1 <u>Create a program</u>:

When executing the "create a program" function, the program submenu is acceded, starting with the identification. The initial identification "Pxx NO NAME" is given to the program and all parameters are established to zero; the program number is allocated automatically.

3.3.2.2 <u>Delete a program</u>:

When executing the "delete a program" function, the programs menu is acceded and the number of the first program in memory is blinking to point out the deletion mode. Use key "SELECT" to select a program and key "ENTER" to accede and confirm deletion of the selection. Use key "ESC" to unconfirm a deletion and to leave the function. When leaving the function, the number of the actual program on LCD screen cease to blink.

3.3.2.3 Select operating mode:

When executing the "select operating mode" function, which is available only for the automatic units, the actual selection is blinking to point out the acquisition mode. Use key "SELECT" to get through the operating modes, which are automatic, semi-automatic and manual; the validation of the selected operating mode is performed automatically. Use key "ESC" or "ENTER" to leave the function and get back to the program menu.

3.3.3 Programs menu:

3.3.3.1 Program identification:

For a selected program, set the identification, using the numeric keyboard characters chart; press numeric key untill the desired character is selected (4 times for the numeric value). Use key "ENTER" to validate the character and to validate the characters string at the end(the new characters string is blinking). In a middle of an acquisition, use key "ESC" to come backward and erase one or several characters.

Example:EXAMPLE 1 → (9 characters)

keys 2, 2, ENTER → E → X keys 8, 8, 8, ENTER keys 1, ENTER → A keys 5, ENTER → M → P keys 6, ENTER keys 4, 4, 4, ENTER → L → E keys 2, 2, ENTER keys 9, 9, 9, ENTER → space keys 1, 1, 1, 1, ENTER → 1 key ENTER to validate the characters string

3.3.3.2 Vacuum level setting:

For a selected program set the vacuum level, starting with the values; the decimal point is automatically inserted following the second digit entry and the validation is automatically performed following the third digit entry (the new vacuum level is blinking). The vacuum level is rounded off to the nearest half value. In the middle of an acquisition, use key "ENTER" to validate the vacuum level and key "ESC" to come backward and start over with a new acquisition (the old vacuum level is blinking). Set vacuum level to zero to bypass the pressure transducer and proceed only using the vacuum plus time.

Examples: 90.0% → keys 9, 0, 0 or 9, 0, ENTER or keys 9, 0, 1 or 9, 0, 2 or 9, 0, 3 or 9, 0, 4 97.5% → keys 9, 7, 5 or keys 9, 7, 6 or 9, 0, 7 or 9, 0, 8 or 9, 0, 9 0.0% → keys 0, 0, 0 or 0, ENTER

3.3.3.3 Vacuum plus time setting:

For a selected program set the vacuum plus time, in seconds; the validation is automatically performed following the second digit entry (the new vacuum plus time is blinking). In a middle of an acquisition, use key "ENTER" to validate the vacuum plus time and key "ESC" to come backward and start over with a new acquisition (the old vacuum plus time is blinking).

Examples: 1s → keys 0, 1 or 1, ENTER

15s **→** keys 1, 5

3.3.3.4 Gas flush level setting:

For a selected program set the gas flush level following the same procedure as for the vacuum level; the maximum gas flush level setting is 10% below the vacuum setting.

3.3.3.5 Sealing time setting:

For a selected program set the sealing time, starting with the seconds; the decimal point is automatically inserted following the first digit entry and the validation is automatically performed following the third digit entry (the new sealing time is blinking). The sealing time is truncated to the nearest half hundredth. In a middle of an acquisition, use key "ENTER" to validate the sealing time and key "ESC" to come backward and start over with a new acquisition (the old sealing time is blinking).

Examples: 4.50s → keys 4, 5, 0 or 4, 5, ENTER or keys 4, 5, 1 or 4, 5, 2 or 4, 5, 3 or 4, 5, 4 2.35s → keys 2, 3, 5 or keys 2, 3, 6 or 2, 3, 7 or 2, 3, 8 or 2, 3, 9 0.00s → keys 0, 0, 0 or 0, ENTER

3.3.4 Vacuum cycle execution:

For the manual units and the automatic units set on manual, close the cover to initiate a vacuum cycle. For the automatic units set on semi-automatic or on automatic, use push button "STOP / START" to initiate or interrupt a vacuum cycle. A selected program can be initiated only in the programs menu, when no modifications are in progress, and the access to the other programs and functions is denied. During cycle execution the operation status is sequencally displayed on LCD screen, except for the parameters established to zero, which are not displayed:

- chamber vacuum level during vacuum sequence,
- vacuum plus time status during vacuum plus sequence,
- chamber vacuum level during gas flush sequence,
- sealing time status during sealing sequence,
- chamber vacuum level during atmosphere sequence.7

During cycle execution, use key "1" to abort the vacuum sequence and execute the following sequence, which is gas flush or sealing, and key "ENTER" to accede and modify the program; the parameters become valid only for the following vacuum cycles.

3.3.5 System monitor:

To accede the diagnostics menu, power up the vacuum packaging machine while keeping pushed in the "ESC"key. Use key "SELECT" to select the system monitor function and key "ENTER" to accede and visualize the monitored parameters. Use key "SELECT" to change over from the software revision, the amount of working hours done and the amount of complete cycles performed since first initialization.

-MENUS STRUCTURE-

• Functions menu:

"F1 CREATE A PRGM" "F2 DELETE A PRGM" "F3 SELECT OPMODE" (automatic units only)

• Programs menu:

"Pxx NAME" Program submenu:

"VACUUM: xx.x%"(10.0% - 99.5%)"VACUUM PLUS: xxs"(0s - 99s)"GAS FLUSH: xx.x%"(0.0% - 10% below the vacuum level) (units with gas option)"SEAL TIME: x.xxs"(0.00s - maximum unit allocated setting)"Pxx NAME"(12 characters)

• Diagnostics menu (keys "ESC" & "POWER" for access):

"DIAGNOSTICS MENU" (access code required)

"D1 INPUTS TEST"

"D2 OUTPUTS TEST"

"D3 MODEL SELECT"

"D4 GAS OPTION"

"D5 SEALING TIME"

"D6 COOLING TIME"

"D7 OFFSET CALIB."

"D8 VACUUM SENSOR"

"D9 SIPROMAC PUB"

"D10 LOADING TIME" (automatic units only)

"D11 UNLOADNG TIME" (automatic units only)

"SYSTEM MONITOR" (no access code required)

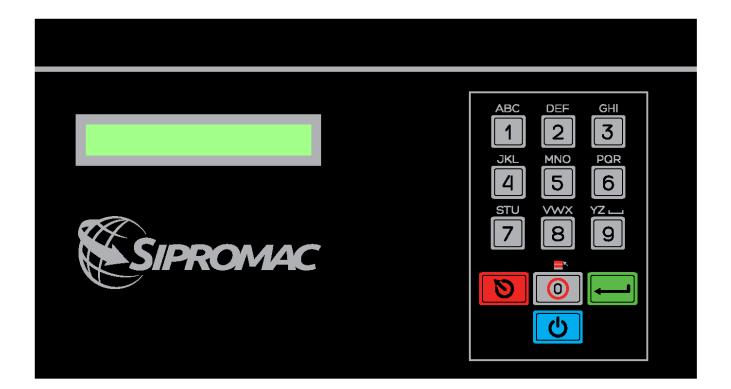
"SOFTWARE: R x.xx"

"WORK HRS: xxxxx"

"CYCLES: xxxxxxx"

-KEYBOARD DETAILS-

MC-40 CONTROLS





3.4 Daily cleaning:

For hygenic cleanliness, it is imperative to clean chamber and spacers daily. Also clean the lid rubber to assure tight seat of the lid.

Cleaning instructions for gas injection nozzles: Periodically on a regular basis the gas injection nozzles must be removed with the connection tube and soaked in a food grade soap and water solution, then dried and re-installed.

4. TROUBLE SHOOTING:

4.1 Failure during packaging cycle:

4.1.1 <u>"VACUUM ERROR" message is displayed on LCD</u>:

No pressure variation is picked up by the PCB transducer during the vacuum sequence within a preset period of time.

- Check vacuum lines for potential leaks or kinks.

4.1.2 <u>"GAS FLUSH ERROR" message is displayed on LCD</u>:

No pressure variation is picked up by the PCB transducer during the gas flush sequence within a preset period of time.

- Check gas flush and vacuum lines for potential leaks or kinks.

4.1.3 <u>"ATMOSPHERE ERROR" message is displayed on LCD</u>:

No pressure variation is picked up by the PCB transducer during the atmosphere sequence within a preset period of time.

- Check vacuum lines for potential leaks or kinks.

4.1.4 <u>"COVER DOWN ERROR" message is displayed on LCD(manual units)</u>:

The input signal of the down position switch has been lost during cycle execution. - Check limit switch adjustment.

4.2 Insufficient vacuum:

4.2.1 Leakage in the bag:

Most frequently, insufficient vacuum in bags is due to leakage in bag and not due to any fault of the machine.

Pin-hole leak for which there is no obvious explanation is due to faulty bag material.

Pin-hole leak caused by sharp edge of the product (bone, etc.).Use bone-guard or thicker film.

Tear in bag by careless handling (sharp edge on filling table, damage made by retailer or customer).

Leakage in lateral or bottom seal, complain to supplier of bags or film.

4.2.2 No leakage in the bag:

Bag is too large, therefore the surplus of air remains visible (there is surplus of air in 0.4% of the bag volume in each bag). Use bags of suitable size.

Vacuum level is too low:

Pressure bar is jammed and closes opening of bag during evacuation.

4.2.3 Insufficient vacuum in chamber:

If troubles described under 4.2.1 and 4.2.2 do not apply, there is something wrong with the evacuation. To find the leakage quickly, check for leaks with a precision vacuumeter, going back step by step from the chamber to the pump.

At the chamber (measuring point at base of valve) at maximum time of evacuation. If more than 6 torr, proceed directly to the pump, if more than 3 torr:have pump service by pump supplier. If pressure at pump is good, reconnect hoses to pump and measure again.

Verify at vacuum hose connections and valve connections.

When proceeding this way, starting from pump, loss of pressure per step must not exceed 0.5 to 1 torr.

<u>Caution</u>: Verify connections of measuring equipment before verifing machine.

Most frequent points of leakage: lid gasket, damaged vacuum hose or loose hose clamps.

4.3 Faulty seal:

4.3.1 Insufficient seal:

Damaged teflon or silicone rubber.

Sealing pressure too low, bellows leaking or pressure bar jammed.

Leakers in seal: heating wire mechanically damaged (knicked) or silicone rubber uneven.

4.3.2 <u>No seal</u>:

Sealing wire burnt.

Faulty contact in sealing circuit.

Sealing transformer burnt through.

Contactor does not work.

4.3.3 <u>Permanent sealing current</u>:

Contactor is jammed check sealing transformer for damage through overload.

4.3.4 Seal does not stick:

Insufficient layer of polyethylene (inferior quality of bags).

Seal area extremely contaminated by fat or meat juice. Use filling aid.

Sealing temperature is too low (when using very thick films).

<u>Caution</u>: Do not increase sealing time more than really necessary; higher temperature will reduce working life of teflon and silicone rubber.

4.4 Fault in the valve:

Vacuum or air valve does not open.

Check whether there is voltage on the magnetic valves during their period of operation. If there is no voltage a wire is broken or the PC board is damaged.

Lid does not open at the end of the cycle; air enters, but there is still 20 - 40% vacuum in chamber. Vacuum valve does not close.

4.5 MC40 Control board failure

NOTE: Refer to menu structure on page 13.

This board software is allowing access to a "Diagnostics Menu". Only qualified service technicians are authorized to access this menu by entering a security password.

By acceding either the "D1 input test" feature or the "D2 output test" feature, a trained technician will be able to quickly know the origin of the problem: pump, sealing system, pneumatic problem, security switches problem, etc...

Keep in mind that in most cases trouble is due to a leakage, loose electrical connection or evident dammage to the main components: vacuum pump, valves, electrical contactors, thermal overload, fuses holder or transformer.

For assistance do not hesitate to contact your local service technicians.

5. Regular maintenance:

Routine controls to be made at regular intervals:

Check teflon for wear.

Check silicone rubber for burnt spots and smooth even position.

Check pressure bar for jamming.

Check lid sealing for damage and hardened spots.

Check switch-point of micro switch, adjust if necessary.

Check evacuation hose for damage (contraction of diameter, or abrasions).

Check vacuum connections for tightness.

Check oil in pump (oil level in view glass; add if necessary. Regular change of oil - necessity indicated by change of color).

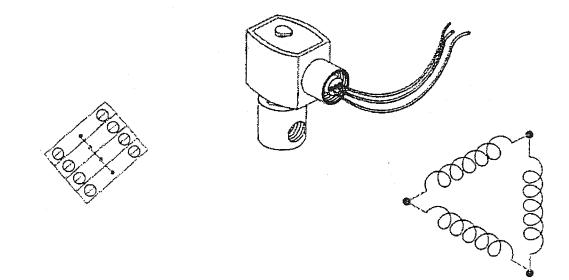
Check vacuum in chamber with precision vacuumeter.

Check function of cycle with various settings of timers.

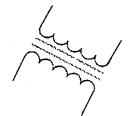
MODEL 650A COVER ADJUSTMENT PROCEDURE Reference Drawing:# 005-0325 # 004-0122

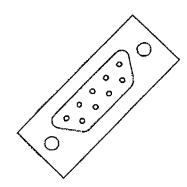
<u>PROBLEM</u>: MACHINE TABLE AND COVER SEEMS TO BE STRAIGHT, LID GASKET IS GOOD BUT COVER DOES NOT SIT PROPERLY ON BOTH SIDES OF TABLE.

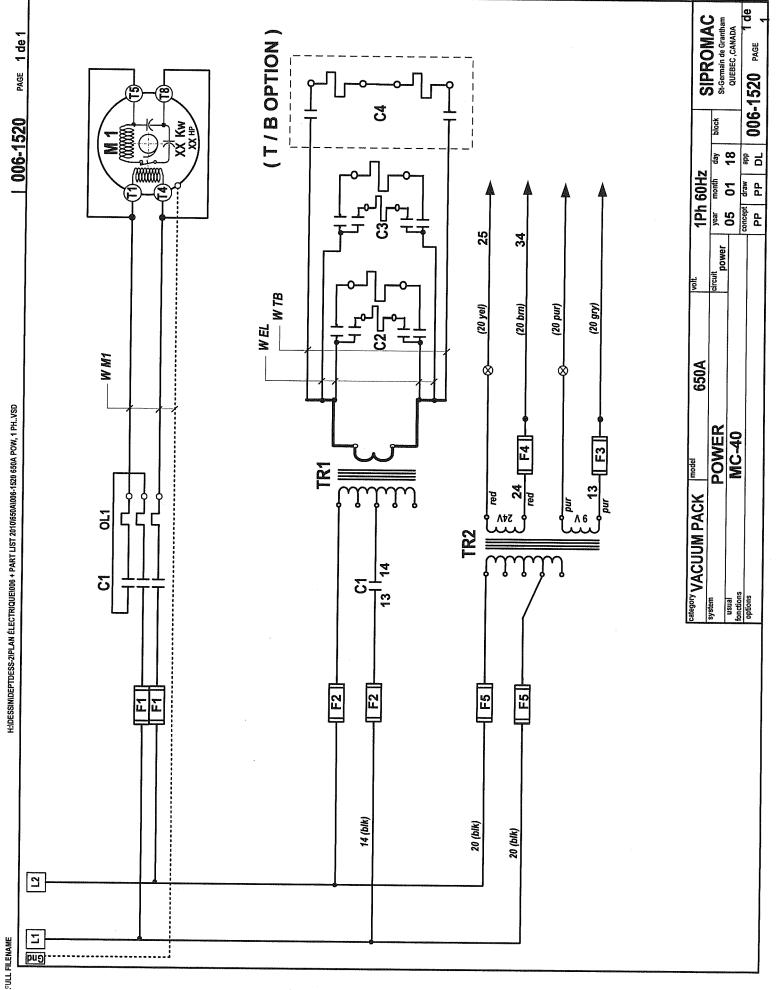
- 1. Floor should be flat (within 1/8" approx.).
 - 2.1 Mark position of original adjustment of guide arm length and its lower shaft position (See drawing # 005-0416; items: #39 & #16).
 - 2.2 Loosen the two bolts on the guide arm (See drawing # 005-0325; items #39).
 - 2.3Now move the cover each side and check how cover sits on the table. Distance between table and lid gasket should be under 1/16" approx. If so, go to step 3.0 for guide arm adjustment. Otherwise go to step 2.4 for central arm adjustment.
 - 2.4 Put chamber in upright position and check with a square angle to see if arms are parallel. If not, loosen bolt at the end of one arm and adjust until square (See drawing # 005-0416; items #33, #14 & #44).
 - 2.5 When closing cover (guide arm still loose), if cover is not sitting properly on either the front or rear of the table, you have to change the height of a central pillow block (See drawing # 004-0122; item #3) until cover is sealing properly each side (less than 1/16").
- 3. Adjustment of guide arm: two things have to be adjusted, the length and the lower axis position. Each of these should be adjusted separately. Fix the lower axis in a central position, then adjust guide arm length by marking its position. When chamber is at the left and at the right, tighten at the center of your marks. Adjustment can be done a couple of times until everything is ok.



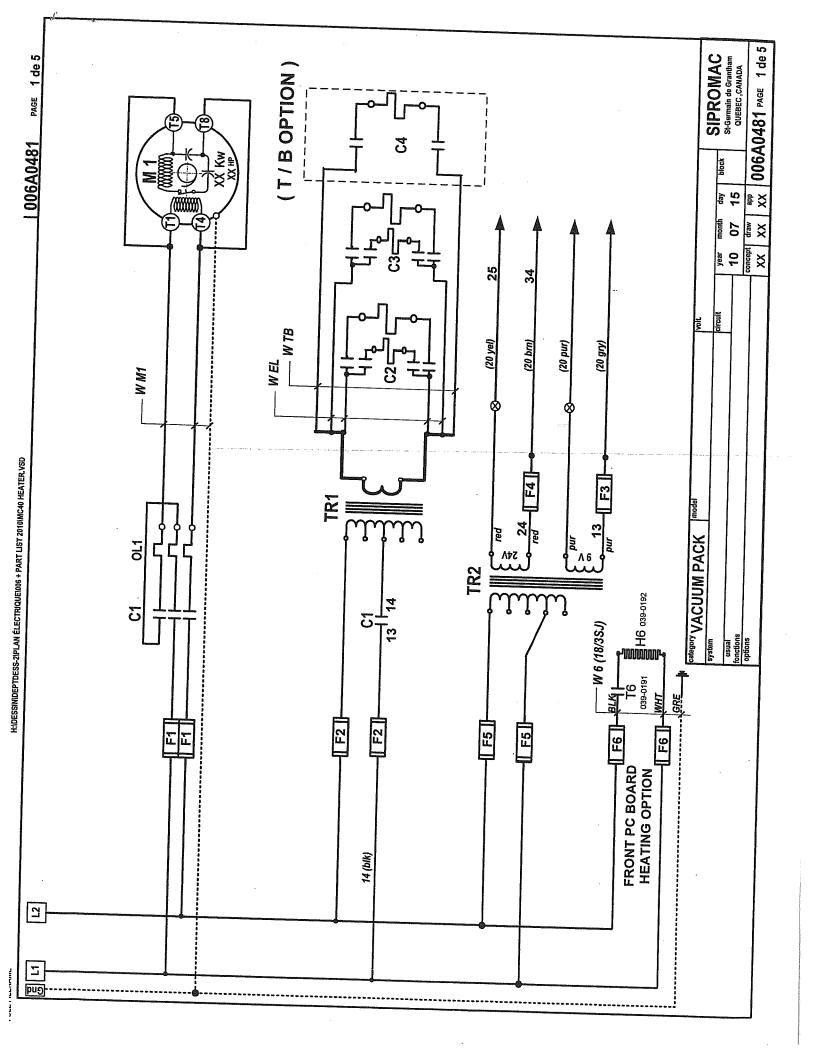
ELECTRICAL DRAWING



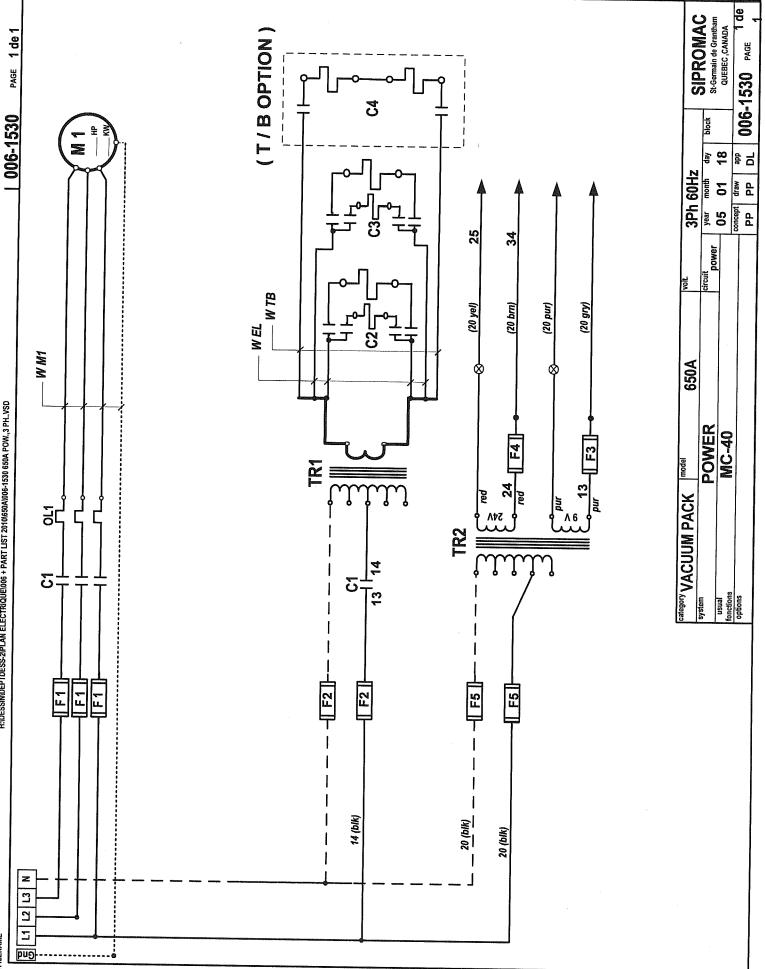


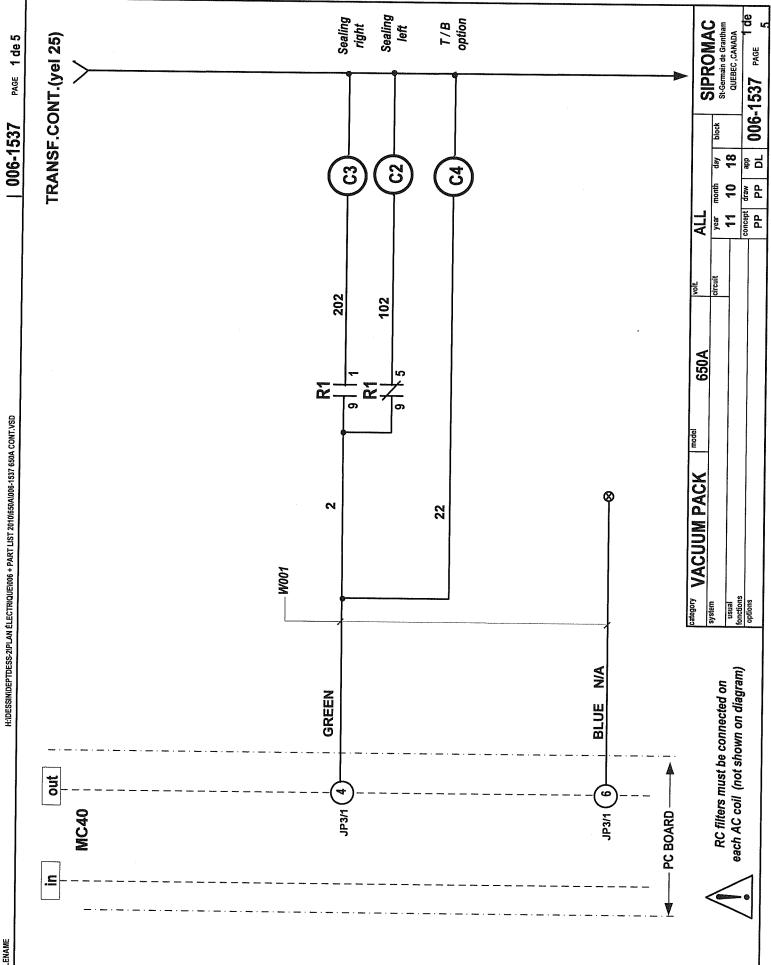


H:IDESSINIDEPTDESS-2/PLAN ÉLECTRIQUE1006 + PART LIST 20101650A1006-1520 650A POW, 1 PH..VSD

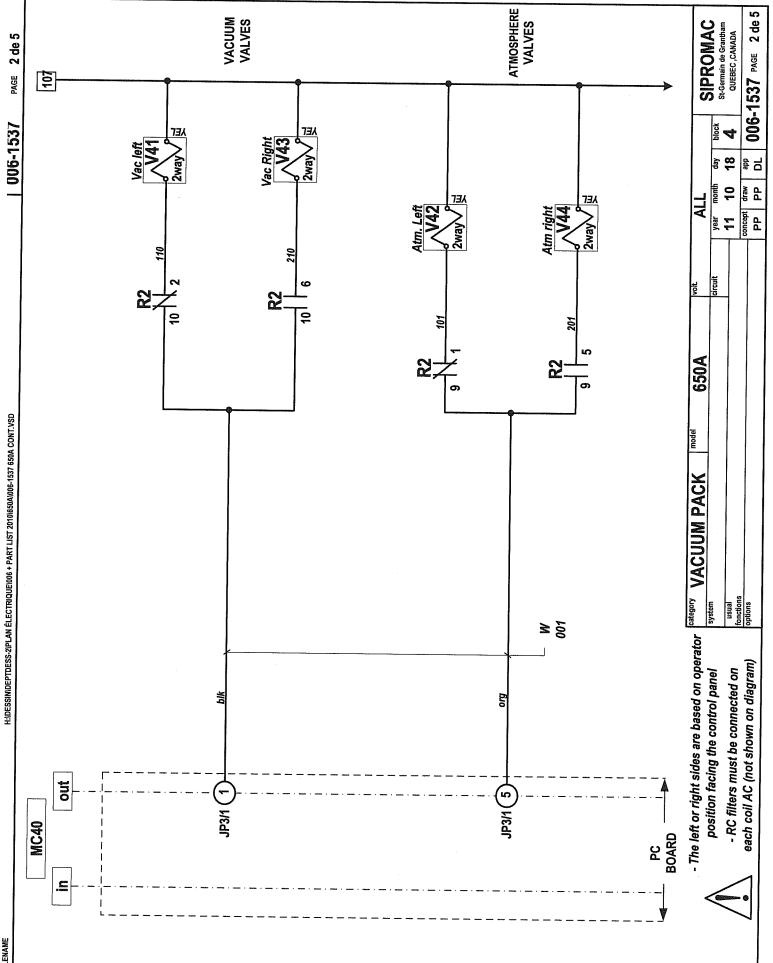




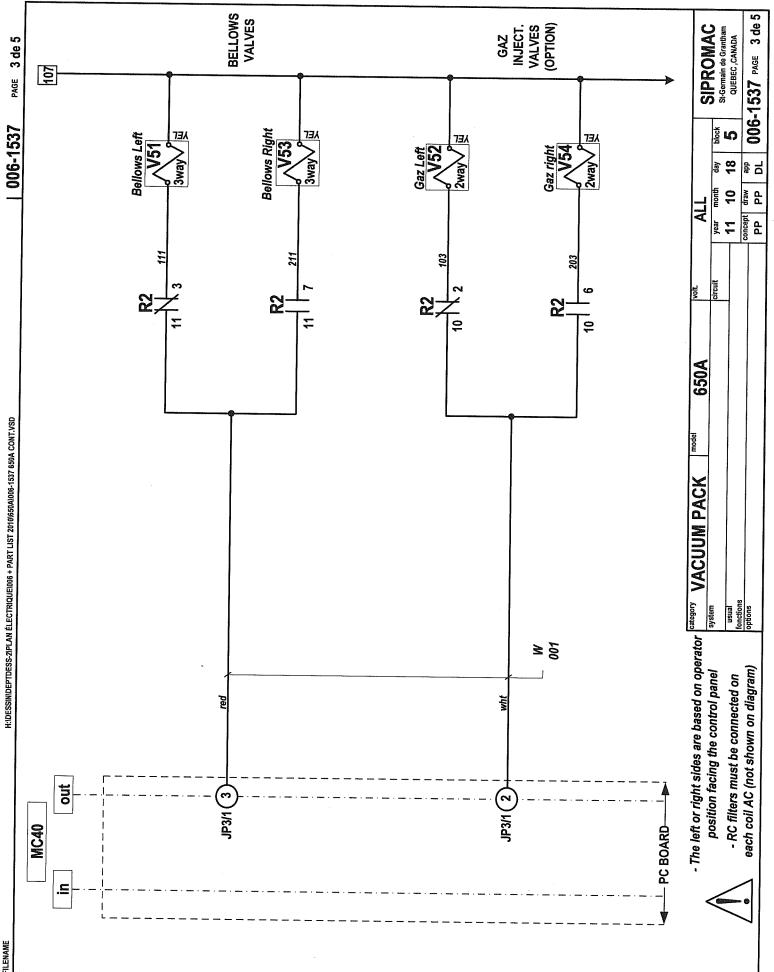




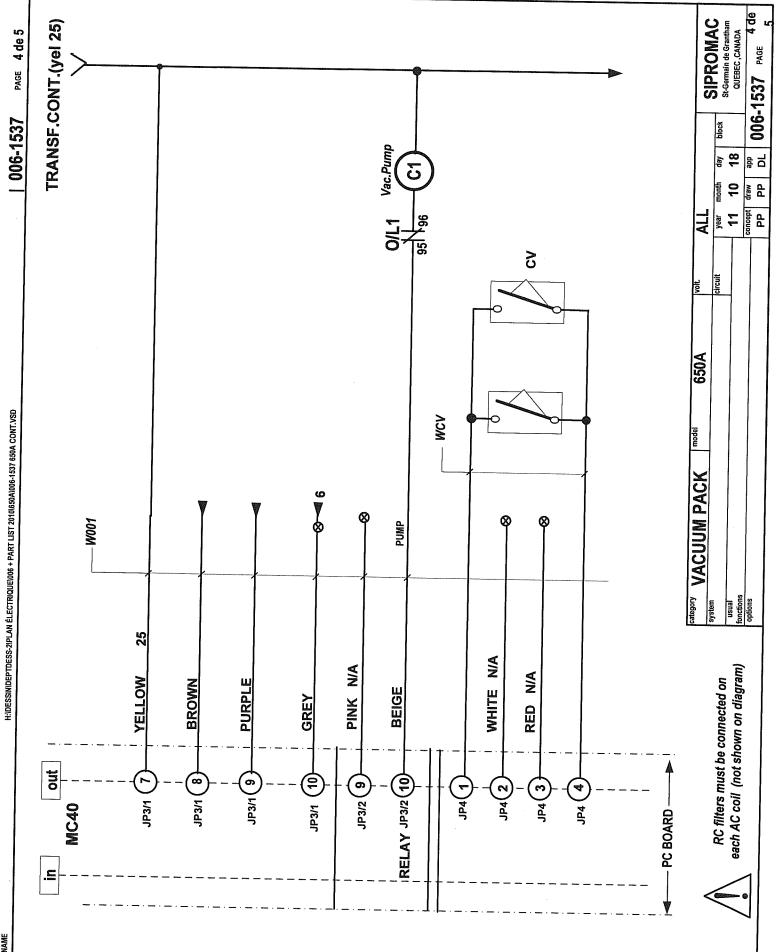
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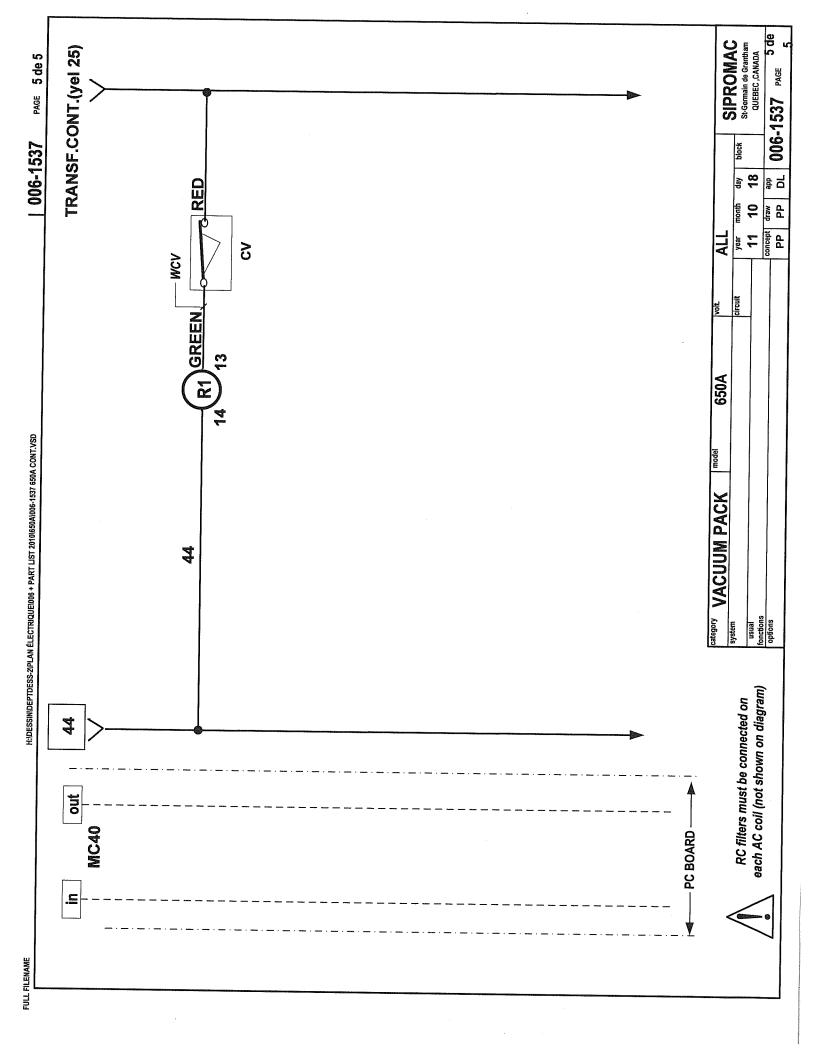


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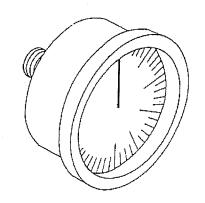
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5 GROUND TERMINAL BLOCK MIG1ZP SUPPLY 208VJPHIGHZ 0 BAME DISPERATIOR MAG SUPPLY ALL 0 BAME DISPERATIOR MAG SUPPLY ALL 0 BAME DISPERATIOR MAG SUPPLY ALL 0 BAME DISPERATION MAG SUPPLY ALL 0 BAME DISPERATION SUPPLY ALL 0 FUSE HOLDER 64A600V (FRCI) VACUUM RA-0155 208VJ3PH60HZ 0 MOTOR CONTACTOR sup maxmencasu.u. VACUUM RA-0155 208VJ3PH60HZ 0 MOTOR CONTACTOR sup maxmencasu.u. VACUUM RA-0155 208VJ3PH60HZ 0 MOTOR CONTACTOR sup maxmencasu.u. VACUUM RA-0155 208VJ3PH60HZ 0 BUSCH RA-0165 208VJ3PH60HZ 208VJ3PH60HZ 0 BUSCH RA-0165	028-0022	TERMINAL BLOCK M10/10	SUPPLY	208V/3PH/60HZ	650A	L1-L2-L3		3
0 SEPARATOR MAG SUPLY 208V3PH60HZ 0 BMR END STOP RUTEE D'ARRET) SUPPLY ALL 0 GROUND BARRIER (DI LEE) SUPPLY ALL 0 FUSE HOLDER 60A600Y WACUUM 208YJ3PH60HZ 0 FUSE HOLDER 60A600Y WACUUM 208YJ3PH60HZ 0 FUSE MIDGET 60A600Y WACUUM RAOIGS 208YJ3PH60HZ 0 FUSE MIDGET 60A600Y VACUUM RAOIGS 208YJ3PH60HZ 0 FUSE MIDGE 60A600Y VACUUM RAOIGS 208YJ3PH60HZ 0 BUSCH RAOTGS TARE WaRNENSALUL VACUUM RAOIGS 208YJ3PH60HZ 0 MOTOR CONTACTOR NEW WARNENSALUL VACUUM RAOIDS 208YJ3PH60HZ 0 MOTOR CONTACTOR NEW WARNENSALUL VACUUM RAOIDS 208YJ3PH60HZ 0 MOTOR CONTACTOR NEW WARNENSALUL VACUUM RAOIDS 208YJ3PH60HZ 1 FUERMAL OVERLOND 3T 0 SACASAUL VACUUM RAOIDS 208YJ3PH60HZ 1 FUERMAL OVERLOND 3T 0 SACASAUL VACUUM RAOIDS 208YJ3PH60HZ 1 FUERMAL OVERLOND 3T 0 SACASAUL VACUUM RAOIDS 208	028-0025	GROUND TERMINAL BLOCK M16/12P	SUPPLY	208V/3PH/60HZ	650A	GND		» .
0 BAM EUD STOP (BUTEE D'ARRET) SUPPLY ALL 0 GROUND BARRIER (6 HOLES) SUPPLY ALL 0 FUSE HOLDER GAGNON VACUUM 208/37PH60HZ 0 FUSE HOLDER GAGNON VACUUM 208/37PH60HZ 0 MOTOR CONTACTOR 7:## M. 389/97H60HZ VACUUM RA-0165 208/37PH60HZ 0 MOTOR CONTACTOR 7:## M. 389/97H60HZ VACUUM RA-0165 208/37PH60HZ 0 MOTOR CONTACTOR 1:## M. 389/97H60HZ VACUUM RA-0165 208/37PH60HZ 0 MOTOR CONTACTOR 1:## M. 389/97H60HZ VACUUM RA-0255 208/37PH60HZ 0 MOTOR CONTACTOR 1:## M. 389/97H60HZ VACUUM RA-0255 208/37PH60HZ 1 MOTOR CONTACTOR 1:## M. 389/97H60HZ VACUUM RA-0255 208/37PH60HZ 1 HERMAL OVERLOAD 3: 07 3A: 05 4:5:0:0:0:0 VACUUM RA-0255 208/37PH60HZ 1 MOTOR CONTACTOR 1:## M. 400305 208/37PH60HZ 208/37PH60HZ 1 HERMAL OVERLOAD 3: 07 3A: 05 4:5:0:0:0:0 208/37PH60HZ 208/37PH60HZ 1 HERMAL OVERLOAD 3: 07 3A: 05 4:5:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:	028-0060	SEPARATOR M4/6	SUPPLY	208V/3PH/60HZ	650A	L1-L2-L3		- 6
SUPPLY SUPPLY ALL 0 FUSE HOLDER 60A600V (HRCII) VACUUM 208V/3PH60H2 0 FUSE HOLDER 60A600V (HRCII) VACUUM 208V/3PH60H2 0 THERMAL OVERLOAD 17 TO SMACRALL VACUUM RA-0165 208V/3PH60H2 0 MOTOR CONTACTOR rate massements.LL VACUUM RA-0165 208V/3PH60H2 0 BUSCH RA-065 230-480V/3PH60H2 VACUUM RA-0165 208V/3PH60H2 0 DISCH RA-065 230-480V/3PH60H2 VACUUM RA-0255 208V/3PH60H2 0 DISCH RA-065 230-480V/3PH60H2 VACUUM RA-0255 208V/3PH60H2 0 DISCH RA-055 230-480V/3PH60H2 VACUUM RA-0255 208V/3PH60H2 0 DISCH RA-055 230-480V/3PH60H2 VACUUM RA-0305 208V/3PH60H2 0 DISCH RA-055 230-480V/3PH60H2 VACUUM RA-0305 208V/3PH60H2 0 DISCH RA-055 230-480V/3PH60H2 VACUUM RA-0305 208V/3PH60H2 0 DISCH RA-0505 20480V/3PH60H2 VACUUM RA-0305 208V/3PH60H2 0 DISCH RA-0505 20480V/3PH60H2 VACUUM RA-0305 208V/3PH60H2 0 DISCH RA-0505	028-0080	BAM END STOP (BUTEE D'ARRET)	SUPPLY	ALL	650A			, –
0 FUSE HOLDER 604600V (HRCII) WACUUM 208V/3PH/60HZ 0 OT FUSE MODET 564600V VACUUM 208V/3PH/60HZ 0 THERMAL OVERLOAD: 17 03A/05ALL VACUUM 208V/3PH/60HZ 0 FUSE MODET 60460V VACUUM 208V/3PH/60HZ 0 BUSCH FA-0765 208V/3PH/60HZ 208V/3PH/60HZ 0 BUSCH FA-0765 208V/3PH/60HZ 208V/3PH/60HZ 0 FUSE MOLO OVERLOAD: 17 03A/05ALL VACUUM RA-0765 208V/3PH/60HZ 0 BUSCH FA-0765 230-460V/3PH/60HZ VACUUM RA-0255 208V/3PH/60HZ 0 FUSE MALOVER CONTACTOR repressa.uL VACUUM RA-0255 208V/3PH/60HZ 0 FUSE MALO OVERLOAD 30 to 6AA-55A.uL VACUUM RA-0255 208V/3PH/60HZ 0 FUSE MALO OVERLOAD 30 to 6AA-55A.uL VACUUM RA-0255 208V/3PH/60HZ 0 FUSE MALO OVERLOAD 30 to 6AA-55A.uL VACUUM RA-0255 208V/3PH/60HZ 0 FUSE MIDET VACUUM RA-0305 208V/3PH/60HZ 0 FUSE MIDET VACUUM RA-0305 208V/3PH/60HZ 0 FUSE MIDET V	028-0105	GROUND BARRIER (6 HOLES)	SUPPLY	ALL	650A	GND		-
0 FLUER MIDGET 600/07L TOTAR CALLUM 206V/3PH/60HZ 0 MOTOR CONTACTOR 7: she mawnerschut. VACUUM RA-0165 208V/3PH/60HZ 0 BUSCH RA-0165 208V/3PH/60HZ 208V/3PH/60HZ 0 BUSCH RA-0255 208V/3PH/60HZ 208V/3PH/60HZ 0 BUSCH RA-0255 208V/3PH/60HZ 208V/3PH/60HZ 0 DUTOR CONTACTOR rate mazowame csculu VACUUM RA-0555 208V/3PH/60HZ 0 DUSCH RA-0305 208V/3PH/60HZ 208V/3PH/60HZ 0 <td>034-0710</td> <td>FUSE HOLDER 60A/600V (HRCII)</td> <td></td> <td>208V/3PH/60HZ</td> <td>50A</td> <td></td> <td></td> <td>10</td>	034-0710	FUSE HOLDER 60A/600V (HRCII)		208V/3PH/60HZ	50A			10
MOTOR CONTACTOR 7.9HP M 20W0PH-05A.UL VACUUM RA-0165 208V/3PH/60HZ 0 THERMAL OVERLOAD 71 02 AA-CSA.UL VACUUM RA-0165 208V/3PH/60HZ 0 BUSCH RA-0165 208V/3PH/60HZ 208V/3PH/60HZ 0 DNOF CONTACTOR 10P IM 2000FCOUM RA-0165 208V/3PH/60HZ 0 BUSCH RA-01565 2040V/3PH/60HZ 208V/3PH/60HZ 0 DNOF CONTACTOR 10P IM 2000FCOUM RA-0155 208V/3PH/60HZ 0 DNOF CONTACTOR 10P IM 2000FC 208V/3PH/60HZ 0 DNSCH RA-0305 208V/3PH/60HZ 0 DNSCH RA-0305 208V/3PH/60HZ 1 THERMILL CAB 208V/3PH/60HZ 1 <t< td=""><td>034-0110</td><td>FUSE MIDGET 60A/600V</td><td>VACUUM</td><td>208V/3PH/60HZ</td><td>650A</td><td>E</td><td></td><td></td></t<>	034-0110	FUSE MIDGET 60A/600V	VACUUM	208V/3PH/60HZ	650A	E		
District Control District Vacuum Ra,oriss Z08V/3PH/60HZ District CAB TIRE Vacuum Ra,oriss Z08V/3PH/60HZ District CAB TIRE Vacuum Ra,oriss Z08V/3PH/60HZ District BUSCH RA, DVERLOAD 33 TO SAVISAL Vacuum Ra,oriss Z08V/3PH/60HZ District THERNAL OVERLOAD 33 TO SAVISAL Vacuum Ra,oriss Z08V/3PH/60HZ District CAB TIRE Vacuum Ra,oriss Z08V/3PH/60HZ District CAB TIRE Vacuum Ra,oriss Z08V/3PH/60HZ District Vacuum Ra,oriss Z08V/3PH/60HZ FUSE INDIGET Z0A/258/7 S08/75H/60HZ	025-0040	MOTOR CONTACTOR 7.5HP IN 208V/3PH-CSA,UL	VACUUM RA-0165	208V/3PH/60HZ	650A	J.S	A1	
0 CAB TRE VACUUM RA-0165 208V/3PH/60HZ 0 BUSCH RA-0165 320-460V/3PH/60HZ VACUUM RA-0165 208V/3PH/60HZ 0 THERMAL OVERLOAD 2A to 324-55 AU VACUUM RA-0255 208V/3PH/60HZ 0 BUSCH RA-0755 520-460V/3PH/60HZ VACUUM RA-0255 208V/3PH/60HZ 0 BUSCH RA-0755 520-460V/3PH/60HZ VACUUM RA-0255 208V/3PH/60HZ 0 BUSCH RA-0755 520-460V/3PH/60HZ VACUUM RA-0305 208V/3PH/60HZ 0 BUSCH RA-0755 Z08V/3PH/60HZ Z08V/3PH/60HZ 1 FUSE HOLDER 300/60 ULD SEALING Z08V/3PH/60HZ 1 FUSE HOLDER 30060V GOULD SEALING Z08V/3PH/60HZ 1 FUSE HOLDER 300/60 ULD SEALING Z08V/3PH/60HZ 1 FUSE HOLDER 300/60 ULD SEALING Z08V/3PH/60HZ 1 FUSE HOL	025-0200	THERMAL OVERLOAD 17 TO 25A-CSA,UL	VACUUM RA-0165	208V/3PH/60HZ	650A	0/1.1	A1	
DISCH Radits 230-460V/3PH/60HZ raie zia VACUUM Radits 200450H/6HZ 208V/3PH/60HZ MOTOR CONTACTOR tere m zewrater cakut. VACUUM Radits 2008/3PH/60HZ 208V/3PH/60HZ MOTOR CONTACTOR tere m zewrater cakut. VACUUM Radits 2008/3PH/60HZ 208V/3PH/60HZ MOTOR CONTACTOR tere m zewrater cakut. VACUUM Radits 2008/3PH/60HZ 208V/3PH/60HZ MOTOR CONTACTOR tere m zewrater cakut. VACUUM Radits 2008/200H/60HZ 208V/3PH/60HZ MOTOR CONTACTOR tere m zewrater cakut. VACUUM Radits 2008/200H/60HZ 208V/3PH/60HZ FUSE HOLDER 3046000 GOULD SEALING 208V/3PH/60HZ 208V/3PH/60HZ FUSE HOLDER 30460000 SULD SEALING SEALI	030-0050	CAB TIRE		208V/3PH/60HZ	650A	WM1	21 21	-
MOTOR CONTACTOR 10HP M. 2004724-ULL VACUUM RA-0255 208V/3PH/60HZ THERMAL OVERLOAD 23 T0 33A-CSAUL VACUUM RA-0255 208V/3PH/60HZ BUSCH RA-0255 Z30-460V/3PH/60HZ rolP zrx VACUUM RA-0255 208V/3PH/60HZ MOTOR CONTACTOR 14HP IN 2080/3PH/60HZ VACUUM RA-0255 208V/3PH/60HZ MOTOR CONTACTOR 14HP IN 2080/3PH/60HZ rolP zrx VACUUM RA-0255 208V/3PH/60HZ MOTOR CONTACTOR 14HP IN 2080/3PH/60HZ VACUUM RA-0305 208V/3PH/60HZ MOTOR CONTACTOR 14HP IN 2080/3PH/60HZ VACUUM RA-0305 208V/3PH/60HZ FUSE HOLDER 30A/600V GOULD VACUUM RA-0305 208V/3PH/60HZ FUSE HOLDER 30A/60V GOULD SEALING 208V/3PH/60HZ	125-0070	BUSCH RA-0165 230-460V/3PH/60HZ 7.5HP 21A		208V/3PH/60HZ	650A	M1	A1	
Internal Overload 24 to 324-csAut Vacuum Ra-0255 208V/3PH/60HZ Cab Title Vacuum Ra-0255 208V/3PH/60HZ BUSCH Ra-0255 230-460V/3PH/60HZ Vacuum Ra-0255 208V/3PH/60HZ BUSCH Ra-0255 230-460V/3PH/60HZ Vacuum Ra-0255 208V/3PH/60HZ MOTOR CONTACTOR time asswame-csaut. Vacuum Ra-0365 208V/3PH/60HZ MOTOR CONTACTOR time asswame-csaut. Vacuum Ra-0365 208V/3PH/60HZ BUSCH Ra-0305 230-460V/3PH/60HZ Vacuum Ra-0365 208V/3PH/60HZ BUSCH Ra-0305 230-460V/3PH/60HZ Vacuum Ra-0365 208V/3PH/60HZ BUSCH Ra-0305 230-460V/3PH/60HZ Vacuum Ra-0365 208V/3PH/60HZ FUSE HOLDER 30A60V 60ULD SEALING 208V/3PH/60HZ FUSE HOLDER 30A60V 60ULD SEALING 208V/3PH/60HZ FUSE HOLDER 30A60V 208-200/3PH/60HZ SEALING 208V/3PH/60HZ FUSE HOLDER A0005 201/201/201/201/201/201/201/201/201 SEALING 208V/3PH/60HZ FUSE HOLDER A30Y WSUPPORT SEALING 208V/3PH/60HZ FUSE BAR ASSY WSUPPORT SEALING 208V/3PH/60HZ FUSE HOLDER MALL COUND STUD #10 6800/700 ALL ALL	025-0050	MOTOR CONTACTOR 10HP IN 208V/3PH-CSA,UL	VACUUM RA-0255	208V/3PH/60HZ	650A	3	A7	
CAB TRE VACUUM RA-0255 208V/3PH/60HZ D BUSCH RA-0255 530-460V/3PH/60HZ VACUUM RA-0255 208V/3PH/60HZ MOTOR CONTACTOR 18HF IM 208V/2PH/60HZ VACUUM RA-0305 208V/3PH/60HZ MOTOR CONTACTOR 18HF IM 208V/2PH/60HZ VACUUM RA-0305 208V/3PH/60HZ MOTOR CONTACTOR 18HF IM 208V/2PH/60HZ VACUUM RA-0305 208V/3PH/60HZ PUSCH RA-0305 208V/3PH/60HZ 208V/3PH/60HZ CAB TIRE VACUUM RA-0305 208V/3PH/60HZ CAB TIRE CAB TIRE VACUUM RA-0305 208V/3PH/60HZ FUSE HOLDER 303600V GOULD SEALING 208V/3PH/60HZ FUSE MIDGET 20A/2S0V TIME-DELAY SEALING 208V/3PH/60HZ TRANSTO 1600V 208-204.00 SEALING 208V/3PH/60HZ TRANSTO 1600V 208-204.00 SEALING 208V/3PH/60HZ TRANSTO 1600V 208-204.01 SEALING 208V/3PH/60HZ TERMINAL ROUND STUD #10 600V 7FC SEALING 208V/3PH/60HZ TERMINAL FEMALE 250" INSULATED 600V 7FC SEALING ALL SEAL BAR SSY W/SUPPORT SEALING TWIN SEAL ALL SEAL BAR SSY W/SUPPORT SEALIN	025-0210	THERMAL OVERLOAD 23 TO 32A-CSA,UL	VACUUM RA-0255	208V/3PH/60HZ	650A	011	<u>20</u>	
BUSCH RA-0255 230-460V/3PH/60HZ YACUUM RA-0255 208V/3PH/60HZ MOTOR CONTACTOR star IN 200V/3PH/60HZ VACUUM RA-0305 208V/3PH/60HZ THERMAL OVERLOAD 30 to 40x.CSA.UL VACUUM RA-0305 208V/3PH/60HZ CAB TIRE VACUUM RA-0305 208V/3PH/60HZ BUSCH RA-0305 208V/3PH/60HZ 208V/3PH/60HZ EUSE HOLDER 303600V GOULD SEALING 208V/3PH/60HZ FUSE MIDGET 204/307H/60HZ YACUUM RA-0305 208V/3PH/60HZ TRANSFO 1500VA 208-2400V3PH/60HZ YACUUM RA-0305 208V/3PH/60HZ FUSE MIDGET 204/307H/60HZ SEALING 208V/3PH/60HZ TRANSFO 1500VA 208-240-500/30V SEALING 208V/3PH/60HZ TERMINAL ROUND STUD #10 600V 75°C SEALING 208V/3PH/60HZ TERMINAL FEMALE. 250° INSULATED 600V 75°C SEALING ALL SEAL BAR ASSY WISUPPORT SEALING TOP & BOTTOM ALL SEAL BAR ASSY WISUPPORT SEALING TOP & BOTTOM ALL CONTACTOR ITH-28A-CSA.UL SEALING TOP & BOTTOM ALL SEAL BAR ASSY WISUPPORT SEALING TOP & BOTTOM ALL SEAL BAR ASSY WISUPPORT S	030-0050	CAB TIRE		208V/3PH/60HZ	650A	WW	<u>20</u>	- I
MOTOR CONTACTOR tare in zeevizent-csa, ut. VACUUM RA-0305 208V/3PH/60HZ THERMAL OVERLOAD 30 to AAA-CSA, ut. VACUUM RA-0305 208V/3PH/60HZ EUSCH FRA-0305 208V/3PH/60HZ 208V/3PH/60HZ FUSE HOLDER 30A/600V GOULD SEALING 208V/3PH/60HZ FUSE HOLDER 30A/600V GOULD SEALING 208V/3PH/60HZ FUSE HOLDER 30A/600V GOULD SEALING 208V/3PH/60HZ FUSE MIDGET 20A/250V TIME-DELAY SEALING 208V/3PH/60HZ FUSE MIDGET 20A/250V TIME-DELAY SEALING 208V/3PH/60HZ FUSE MIDGET 20A/250V TIME-DELAY SEALING 208V/3PH/60HZ TERMINAL ROUND STUD #10 600V 75°C SEALING 208V/3PH/60HZ TERMINAL FEIMALE .250° INSULPORT SEALING ALL SEAL BAR ASSY WISUPPORT SEALING ALL SEAL BAR ASSY WISUPPORT SEALING TOP & BOTTOM ALL CONTACTOR ITH-28A-CSA, ut. SEALING TOP & BOTTOM ALL SEAL BAR ASSY WISUPPORT SEALING TOP & BOTTOM ALL SEAL BAR ASSY WISUPPORT SEALING TOP & BOTTOM ALL CONTACTOR ITH-28A-CSA, ut. SEALING TOP & BOTTOM	125-0080	BUSCH RA-0255 230-460V/3PH/60HZ 10HP 27A		208V/3PH/60HZ	650A	M1	43 43	
Internal Overload and darcsault Vacuum Ra-0305 208V/3PH/60HZ PUSCH Ra-0305 230-460V/3PH/60HZ Vacuum Ra-0305 208V/3PH/60HZ PUSCH Ra-0305 230-460V/3PH/60HZ Vacuum Ra-0305 208V/3PH/60HZ PUSCH Ra-0305 230-460V/3PH/60HZ SEALING 208V/3PH/60HZ PUSC HRA-0305 230-460V/3PH/60HZ SEALING 208V/3PH/60HZ PUSE HOLDER 30A600V GOULD SEALING 208V/3PH/60HZ PUSE MIDGET 20A/250V TIME-DELAY SEALING 208V/3PH/60HZ PUSE MINAL ROUND STUD #10 600/ 75°C SEALING ALL PUSE MINAL FEMALE 2.50° INSULATED 600/ 75°C SEALING BAG CUT ALL PUSEAL BAR ASSY W/SUPPORT SEALING BAG CUT ALL CONTACTOR ITF-254-C5A/UL SEALING BAG CUT ALL CONTACTOR ITF-254-C5A/UL SEALING FOP & BOTTOM ALL CONTACTOR ITF-254-C5A/UL SEALING FOP & BOTTOM ALL CONTACTOR ITF-254-C5A/UL SEA	025-0070	MOTOR CONTACTOR 15HP IN 208V/3PH-CSA, UL	VACUUM RA-0305	208V/3PH/60H7	650A	2		
Image: Construct state Vacuum Ra.0305 208V/3PH/60H2 PUSCH Ra-0305 230.450V/3PH/60H2 208V/3PH/60H2 208V/3PH/60H2 FUSE HOLDER 30A660V GOULD SEALING 208V/3PH/60H2 FUSE MIDGET 20A/250V TIME-DELAY SEALING 208V/3PH/60H2 FUSE MIDAL ROUND STUD #10 600/ 75°C SEALING 208V/3PH/60H2 CONTACTOR ITM=25A-CSA,UL SEALING ALL SEAL BAR ASSY WISUPPORT SEALING TWIN SEAL ALL SEAL BAR ASSY WISUPPORT SEALING TOP & BOTTOM ALL CONTACTOR ITM=25A-CSA,UL SEALING TOP & BOTTOM ALL CONTACTOR ITM=25A-CSA,UL SEALING TOP & BOTTOM ALL CONTACTOR ITM=260V TIME DELOV 250° SEALING TOP & BOTTOM ALL CONTACTOR ITM=26A-CSA,UL SEALING TOP & BOTTOM ALL CONTACTOR ITM=260V TIME DELOV 250° SEALING TOP & BOTTOM<	025-0220	THERMAL OVERLOAD 30 TO 40A-CSA,UL	VACUUM RA-0305	208V/3PH/60H7	650A	5	2	
BUSCH Ra-0305 230-460V/3PH/60HZ 7ath 3ath VACUUM Ra-0305 2304/3PH/60HZ FUSE HOLDER 304600V GOULD SEALING 208V/3PH/60HZ FUSE HOLDER 304600V GOULD SEALING 208V/3PH/60HZ FUSE MIDGET 20A/250V TIME-DELAY SEALING 208V/3PH/60HZ FUSE MIDGET 20A/250V TIME-DELAY SEALING 208V/3PH/60HZ TERMINAL ROUND STUD #10 600V 75°C SEALING 208V/3PH/60HZ CONTACTOR ITH=ZA-CSA,UL SEALING ALL TERMINAL FEMALE 250° INSULATED 800V 75°C SEALING ALL CONTACTOR ITH=ZA-CSA,UL SEALING TOP & BOTTOM ALL TERMINAL FEMALE 250° INSULATED 800V 75°C SEALING TOP & BOTTOM ALL TERMINAL ROUND STUD #10 600V 75°C SEALING TOP & BOTTOM ALL ALL SEAL BAR ASSY WISUPPORT SEALING TOP & BOTTOM ALL CONTACTOR ITH=ZA-CSA,UL SEALING TOP & BOTTOM ALL CONTACTOR ITH=ZA-CSA,UL SEALING TOP & BOTTOM ALL ALL CONTACTOR ITH=ZA-CSA,UL SEALING TOP & BOTTOM ALL ALL CONTACTOR ITH=ZA-CSA,UL SEALING TOP & BOTTOM ALL CONTA	030-0030	CAB TIRE	VACUUM RA-0305	2008//3DH/2/202		OLI Maria	2	
FUSE HOLDER 304600V GOULD SEALING 208V/3PH60HZ PUSE MIDGET 20A250V TIME-DELAY SEALING 208V/3PH60HZ FUSE MIDGET 20A250V TIME-DELAY SEALING 208V/3PH60HZ TRANSFO 1500VA 208-240-480-600/30V SEALING 208V/3PH60HZ TERMINAL ROUND STUD #10 600V 75°C SEALING 208V/3PH60HZ CONTACTOR ITH=28A-CSA.UL SEALING 208V/3PH60HZ TERMINAL FEMALE .250° INSULATED 600V 75°C SEALING ALL CONTACTOR ITH=28A-CSA.UL SEALING ALL SEAL BAR ASSY W/SUPPORT SEALING ALL SEAL BAR ASSY W/SUPPORT SEALING GUT ALL CONTACTOR ITH=28A-CSA.UL SEALING GOP & BOTTOM ALL CONTACTOR ITH=28A-CSA.UL SEALING GUP & BOTTOM ALL CONTACTOR ITH=28A-CSA.UL SEALING GOP & BOTTOM ALL CONTACTOR ITH=28A-CSA.UL SEALING GUP & BOTTOM ALL CONTACTOR ITH=28A-CSA.UL SEALING GOP & BOTTOM ALL CONTACTOR ITH=28A-CSA.UL SEALING GOP & BOTTOM ALL CONTACTOR ITH=28A-CSA.UL SEALING GOP & BOTTOM ALL CONTACTO	125-0087	BUSCH RA-0305 230-460V/3PH/60HZ 12HP 32A	VACI II M RA-D305	2007/30H/E0H72	AUCO	IMA	83	WN N
FUSE MIDGET 20A2560' TIME-DELAY SEALING 208V/3PH/60HZ TRANSFO 1500VA 208-240-480-600/30V SEALING 208V/3PH/60HZ TERMINAL ROUND STUD #10 600v 75°C SEALING 208V/3PH/60HZ TERMINAL ROUND STUD #10 600v 75°C SEALING ALL CONTACTOR ITH=28A-CSA,UL SEALING ALL TERMINAL FEMALE 250° INSULATED 600v 75°C SEALING ALL TERMINAL FEMALE 250° INSULATED 600v 75°C SEALING ALL TERMINAL FEMALE 250° INSULATED 600v 75°C SEALING ALL SEAL BAR ASSY W/SUPPORT SEALING ALL ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL CONTACTOR ITH=28A-CSA,UL SEALING TOP & BOTTOM ALL CONTACTOR ITH=28A-C	034-0700	FUSE HOLDER 30A/600V GOULD					R S	-
TRANSFO 1500VA 208-240-480-600/30V SEALING ZUBX/3FINONIZ TERMINAL ROUND STUD #10 600/75°C SEALING 208V/3PH/60HZ TERMINAL ROUND STUD #10 600/75°C SEALING ALL CONTACTOR ITH=28A.CSA,UL SEALING ALL TERMINAL FEMALE .250° INSULATED 600/75°C SEALING ALL SEAL BAR ASSY W/SUPPORT SEALING TWIN SEAL ALL CONTACTOR ITH=28A-CSA,UL SEALING TOP & BOTTOM ALL TERMINAL ROUND STUD #10 600/75°C SEALING TOP & BOTTOM ALL CONTACTOR ITH=28A-CSA,UL SEALING TOP & BOTTOM ALL	034-0530	FUSE MIDGET 20A/250V TIME-DEI AV	CEALINC		VNCD	2		~
Increased of the state of	029-0172	TPANSEO 150014 200 240 400 5001001	DEALING	Z08V/3PH/60HZ	650A	F2		2
TERMINAL FEAALE. 250" INSULATED 600V 75°C SEALING ALL TEW #10/104 BLACK SEALING ALL TERMINAL FEMALE. 250" INSULATED 600V 75°C SEALING ALL SEAL BAR ASSY W/SUPPORT SEALING TAUN SEAL ALL SEAL BAR ASSY W/SUPPORT SEALING TAUN SEAL ALL SEAL BAR ASSY W/SUPPORT SEALING TAUN SEAL ALL TERMINAL ROUND STUD #10 600V 75°C SEALING TAUN SEAL ALL CONTACTOR ITH-284-CSAUL SEALING TOP & BOTTOM ALL	027-020	TERMINAL ROLIND STILD #10 500.750	SEALING	208V/3PH/60HZ	650A	TR1		+
Control of the second of the second of the terminal female. SEALING ALL TEW #10/104 BLACK SEALING ALL TERMINAL FEMALE. 250" INSULATED 600v 75°C SEALING ALL SEAL BAR ASSY W/SUPPORT SEALING TWIN SEAL ALL SEAL BAR ASSY W/SUPPORT SEALING TWIN SEAL ALL TERMINAL ROUND STUD #10 600v 75°C SEALING TOP & BOTTOM ALL CONTACTOR ITH=Z6A-CSA,UL SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW .250" SEALING TOP & BOTTOM ALL VERALSCORM 1 A 250V T-DELAV SEALING TOP & BOTT	025-0220		SEALING	ALL	650A			4
TERMINAL FEMALE. 250" INSULATED 600v 75°C SEALING ALL SEAL BAR ASSY WISUPPORT SEALING ALL SEAL BAR ASSY WISUPPORT SEALING TWIN SEAL ALL SEAL BAR ASSY WISUPPORT SEALING TWIN SEAL ALL SEAL BAR ASSY WISUPPORT SEALING TOP & BOTTOM ALL TERMINAL ROUND STUD #10 600v 75°C SEALING TOP & BOTTOM ALL TERMINAL ROUND STUD #10 600v 75°C SEALING TOP & BOTTOM ALL CONTACTOR ITH-25A-CSA,UL SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW SEALING TOP & BOTTOM ALL FUSE HOLDER M4/85F CONTROL TRANSFO 208V/3PH/60HZ FUSE HOLDER M4/85F CONTROL TRANSFO 208V/	030 0410		SEALING	ALL	650A	C2+C3		2
Incriminal Ferminal Ferminal Ferminal Ferminal Ferminal Seal Bar ASSY W/SUPPORT SEALING TOR TWIN SEAL ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING BAG CUT ALL TERMINAL ROUND STUD #10 600 v75°C SEALING TOP & BOTTOM ALL CONTACTOR ITH=25A-CSA,UL SEALING TOP & BOTTOM ALL CAB TRE SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW ZEALING TOP & BOTTOM ALL VERNIAL FLAG FEMALE YELLOW SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW ZEALING TOP & BOTTOM ALL VERNIAL FLAG FEMALE YELLOW SEALING TOP & BOTTOM ALL VERNIAL FLAG FEMALE YELLOW ZEALING TOP & BOTTOM ALL VERNIAL FLAG FEMALE YELL	÷	TEDMINI FERMIN COMMINS		ALL	650A	WEL		15M.
SEAL BAR ASSY W/SUPPORT SEALING TWIN SEAL ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL TERMINAL ROUND STUD #10 600v 75°C SEALING TOP & BOTTOM ALL CONTACTOR ITH=25A-CSA,UL SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW 250'TING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL VERANDA LEVELAN SEALING TOP & BOTTOM ALL UPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL FUSE HOLDER M4/8SF CONTROL TRANSFO 208V/3PH/60HZ FUSE FX20MM 1A 250V TIAR DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 2A/2SF CONTROL 9VAC ALL FUSE 5X20MM 4A/2SF CONTROL 9VAC ALL <td></td> <td>I EKIMINAL FEMALE .250° INSULATED 600v 75°C</td> <td></td> <td>ALL</td> <td>650A</td> <td>WEL</td> <td></td> <td>∞</td>		I EKIMINAL FEMALE .250° INSULATED 600v 75°C		ALL	650A	WEL		∞
SEAL BAR ASSY W/SUPPORT SEALING FOP & BOTTOM ALL TERMINAL ROUND STUD #10 600v 75°C SEALING TOP & BOTTOM ALL CONTACTOR ITH=28A-CSA,UL SEALING TOP & BOTTOM ALL CB TRE SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL VIETERMINAL FLAG FEMALE YELLOW .250° SEALING TOP & BOTTOM ALL FUSE SX20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE SX20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE SX20MM 2A/250V TIME DELAY CONTROL 9VAC+24VAC ALL FUSE 5X20MM 2A/250V TIME DELAY CONTROL 9VAC ALL Z0AWGA/15COND BVC INVELIEL DAVINE CONTROL 9VAC	/#09900	SEAL BAR ASSY W/SUPPORT	SEALING TWIN SEAL	ALL	650A		B	4
TERMINAL ROUND STUD #10 600 / 75°C SEALING TOP & BOTTOM ALL CONTACTOR ITH=28A-CSA,UL SEALING TOP & BOTTOM ALL CAB TIRE SEALING TOP & BOTTOM ALL CAB TIRE SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW. 250" SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW. 250" SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL VUPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL FUSE HOLDER M4/85F CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE FULCE A/485F CONTROL TRANSFO 208V/3PH/60HZ FUSE HOLDER M4/85F CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 4A/250V TIME DELAY CONTROL SVC ALL FUSE 5X20MM 4A/250V TIME DELAY CONTROL 9VC ALL 70AWG477COND BVC TIME DELAY CONTROL 24VAC ALL	005B0548	SEAL BAR ASSY W/SUPPORT	SEALING BAG CUT	ALL	650A		B2	4
CONTACTOR ITH=264-C5A,UL SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW. 250" SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW. 250" SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL UPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL UPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL FUSE HOLDER M4/8SF CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 24/250 TIBE DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 24/250V TIME DELAY CONTROL 9VAC+24VAC ALL FUSE 5X20MM 4A/250V TIME DELAY CONTROL 9VAC ALL	027-0220	TERMINAL ROUND STUD #10 600v 75°C	SEALING TOP & BOTTOM		650A		B3	2
CAB TIRE SEALING TOP & BOTTOM ALL TERMINAL FLAG FEMALE YELLOW. 250" SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL UPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL UPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL UPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL TOPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL TOPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL TOPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL TRANSFO 115VA 575 400-230-208-190/24-9 CONTROL TRANSFO 208V/3PH/60HZ TRANSFO 115VA 575 400-230-208-190/24-9 CONTROL TRANSFO 208V/3PH/60HZ TRANSFO 115VA 575 400-230-208-190/24-9 CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 1A 2250V TIME DELAY CONTROL 9VAC + 24VAC ALL FUSE 5X20MM 4A/250VII BVC TIME DELAY CONTROL 24VAC ALL	025-0020	CONTACTOR ITH=25A-CSA,UL	SEALING TOP & BOTTOM	ALL	650A	5	B3	-
TERMINAL FLAG FEMALE YELLOW. 250" SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL UPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL FUSE HOLDER M4/85F CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE HOLDER M4/85F CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 4A/250V TIME DELAY CONTROL 9VAC+24VAC ALL FUSE 5X20MM 4A/250VII BVC TIME DELAY CONTROL 9VAC ALL	030-0120	CAB TIRE	SEALING TOP & BOTTOM	ALL	650A	WTB	B3	3M.
SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL UPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL UPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL FUSE HOLDER M4/8SF CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 2A/250V TIME DELAY CONTROL BVAC+24VAC ALL FUSE 5X20MM 4A/250V TIME DELAY CONTROL 9VAC ALL	027-0065	TERMINAL FLAG FEMALE YELLOW .250"	SEALING TOP & BOTTOM	ALL	650A	WTB	B3	4
UPPER SEAL BAR ASSY W/SUPPORT SEALING TOP & BOTTOM ALL FUSE HOLDER M4/8SF CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ TRANSFO 115VA 575.400-230-208-190/24-9 CONTROL TRANSFO 208V/3PH/60HZ TRANSFO 115VA 575.400-230-208-190/24-9 CONTROL TRANSFO 208V/3PH/60HZ FUSE FUSE HOLDER M4/8SF CONTROL 9VAC+24VAC ALL FUSE 5X20MM 2A/250V TIME DELAY CONTROL 9VAC ALL 70AWG4720MD BVC TIME DELAY CONTROL 24VAC ALL	005B0549	SEAL BAR ASSY W/SUPPORT	SEALING TOP & BOTTOM	ALL	650A		B3	4
FUSE HOLDER M4/8SF CONTROL TRANSFO 208V/3PH/60HZ FUSE 5X20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ TRANSFO 115VA 575-400-230-208-190/24-9 CONTROL TRANSFO 208V/3PH/60HZ TRANSFO 115VA 575-400-230-208-190/24-9 CONTROL TRANSFO 208V/3PH/60HZ FUSE FUSE HOLDER M4/8SF CONTROL VAC-24VAC ALL FUSE 5X20MM 2A/250V TIME DELAY CONTROL 9VAC ALL 204MG/13COND DVC TIME DELAY CONTROL 24VAC ALL	005B0437	UPPER SEAL BAR ASSY W/SUPPORT	SEALING TOP & BOTTOM	ALL	650A		B3	~
FUSE 5X20MM 1A 250V T-DELAY CONTROL TRANSFO 208V/3PH/60HZ TRANSFO 115VA 575-400-230-208-190/24-9 CONTROL TRANSFO 208V/3PH/60HZ FUSE HOLDER M4/8SF CONTROL 9VAC+24VAC ALL FUSE FUSE HOLDER M4/8SF CONTROL 9VAC+24VAC ALL FUSE 5X20MM 2A/250V TIME DELAY CONTROL 9VAC ALL 70AWG472COND BVC INVELIED 50000 200000 24VAC ALL	034-0740	FUSE HOLDER M4/8SF	CONTROL TRANSFO	208V/3PH/60HZ	650A	F5		2
TRANSFO 115VA 575 400-230-208-190/24-9 CONTROL TRANSFO 208V/3PH/60HZ FUSE HOLDER M4/8SF CONTROL 9VAC+24VAC ALL FUSE 5X20MM 2A/250V TIME DELAY CONTROL 9VAC ALL FUSE 5X20MM 4A/250V TIME DELAY CONTROL 24VAC ALL	034-0205	FUSE 5X20MM 1A 250V T-DELAY	CONTROL TRANSFO	208V/3PH/60HZ	650A	FS		2
FUSE HOLDER M4/8SF CONTROL 9VAC+24/AC ALL FUSE 5X20MM 2A/250V TIME DELAY CONTROL 9VAC ALL FUSE 5X20MM 4A/250V TIME DELAY CONTROL 9VAC ALL	029-0010	TRANSFO 115VA 575-400-230-208-190/24-9	CONTROL TRANSFO	208V/3PH/60HZ	650A	TR2		
FUSE 5X20MM 2A/250V TIME DELAY CONTROL 9VAC ALL FUSE 5X20MM 4A/250V TIME DELAY CONTROL 24VAC ALL	034-0740	FUSE HOLDER M4/8SF	CONTROL 9VAC+24VAC	ALL	650A	F3+F4		· [•
FUSE 5X20MM 4A/250V TIME DELAY CONTROL 24VAC ALL	034-0210	FUSE 5X20MM 2A/250V TIME DELAY	CONTROL 9VAC	ALL	650A	F3		
	034-0240	FUSE 5X20MM 4A/250V TIME DELAY	CONTROL 24VAC	ALL	650A	F4		
	030-0590	20AWG/12COND.PVC,UNSHIELD.300V	OUTPUT CONTROL		650A		^ 	2.5M

QT	•	2.5M	0.5M.	-	2	-	-	÷	-	12	2	l F		2	3	2	2	2			
L L L L L L L						ß	5	Б	D2				L	Ш							
REF.	1P3/1_2	WCV1+WCV3	WCV2	JP4	JP4	MC-40	MC-40			V41+V43	V42+V44	<u></u>	<u>V53</u>	V52+V54	CV1+CV2+CV3	R1+R2	R1+R2	R1+R2			
MACHINE	6504	650A	650A	650A	650A	650A	650A	650A	650A	50A	650A	650A	650A	650A	650A	650A	650A	650A			
MACHINE VOLTAGE	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL		ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL			
PART APPLICATION	OUTPUT CONTROL	INPUT CONTROL	INPUT CONTROL	INPUT CONTROL	INPUT CONTROL		CONTROL W/O SENSOR	CONTROL SIPROMAC	CONTROL BERKEL		ATMOSPHERE	BELLOWS	OPTION AIR REGULATOR	OPTION GAS	COVER POSITION	COVER POSITION	COVER POSITION	COVER POSITION			
DESCRIPTION	12 CONTACTS CONNECTOR	22AWG/4COND.PVC,SHIELDED,300V.	PVC #22-2COND.300V CSA RED/BLK	0.156" CENTERLINE CRIMP HOUSING	0.156" CENTERLINE CRIMP TERMINAL	DR MC-40 SENSOR VACUUM	MICROPROCESSOR MC-40 NO SENSOR VAC.	MEMBRANE MC-40 SIPROMAC	MEMBRANE MC-40 BERKEL	VALVE 2WAY 24V 2" NPT(B80) 60HZ	VALVE 2WAY 24V 1-1/4" NPT(B60) 60HZ	VALVE 3WAY 24V 1/4 NPT(G176)60HZ	VALVE 3WAY 24V 1/4 NPT(G176)60HZ	VALVE 2WAY 24V 1/4 NPT(G22) 60HZ	LIMIT SWITCH LONG ROLLER 15A 250V	4PDT RELAY 24VAC (55.34-24VAC)	4PDT RELAY SOCKET 24VAC	RELAY SOCKET RETAINING CLIP			
# SIPRO	036-0740	030-0631	030-0610	036-0820				033-0015	033-0018	106-0060	106-0050	106-0070	106-0070	106-0010	026-0610	025-0600	025-0610	025-0611			



PNEUMATIC DRAWING

