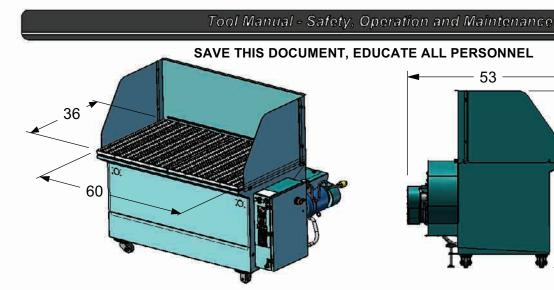
Parts Page Reorder No. PD11.06 Effective March 2011

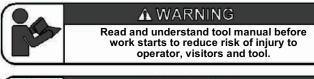
> | 59 | 38 | 33 | |

36"x60" Metal Capture Downdraft Table



Model Number	Motor hp	Voltage	Frequency	FLA	Phase	Air Flow	Sound Level	Working Area Width	Working Area Length	Height	Exhaust	Shipping Weight
64400	3	230	60 Hz	6	3	1800 CFM	85 dB(A)	36"	60"	33"	Down	700 lbs
64401	3	460	60 Hz	3.3	3	1800 CFM	85 dB(A)	36"	60"	33"	Down	700 lbs
64402	3	230	60 Hz	6	3	1800 CFM	85 dB(A)	36"	60"	33"	Up	700 lbs
64403	3	460	60 Hz	3.3	3	1800 CFM	85 dB(A)	36"	60"	33"	Up	700 lbs
64404	3	230	60 Hz	6	3	1800 CFM	85 dB(A)	36"	60"	33"	Side	700 lbs
64405	3	460	60 Hz	3.3	3	1800 CFM	85 dB(A)	36"	60"	33"	Side	700 lbs

SAFETY LEGEND



🛦 WARNING

Eye protection must be worn at all times, eye protection to conform to ANSI Z87.1

A WARNING

Respiratory protection to be used when exposed to contaminants that exceed the applicable threshold limit values required by law

A WARNING

Practice safety requirements. Work alert. have proper attire and do not operate tools under the influence of alcohol or drugs

A WARNING

Ear protection to be worn when exposure to sound, exceeds the limits of applicable Federal, State or Local statues, ordinances and/or regulations

\bigcirc

A WARNING

Electric shock hazard. Avoid bodily contact with grounded objects, bodies of water. Do not damage cord set.



IMPORTANT SAFETY INSTRUCTIONS

When operating this equipment, basic precautions should always be strictly followed including the instructions listed below:

METAL CAPTURE DOWNDRAFT TABLE SAFETY INSTRUCTIONS

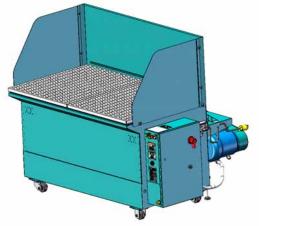
- 1. Always use a grounded power supply. There is an increased risk of electric shock with an ungrounded power supply.
- 2. Don't expose to rain or wet conditions. There is an increased risk of electric shock if the switch, cord or motor are wet.
- 3. Do not abuse the power cord. Never use the cord to move the station. Never use the cord to pull the plug out of the outlet. A damaged cord increases the risk of electric shock.
- 4. Disconnect switch must be off when servicing filter

- 5. Use caution when opening or closing guards, screens, etc. Switch power off and unplug cord before opening. Remove all work pieces and tools before opening to avoid injury. Keep fingers and hands clear when closing to avoid injury
- 6. Never use to exhaust chemical vapors
- 7. Vibration may occur if unit is not level.
- 8. Unplug power cord when accessing blower compartment area

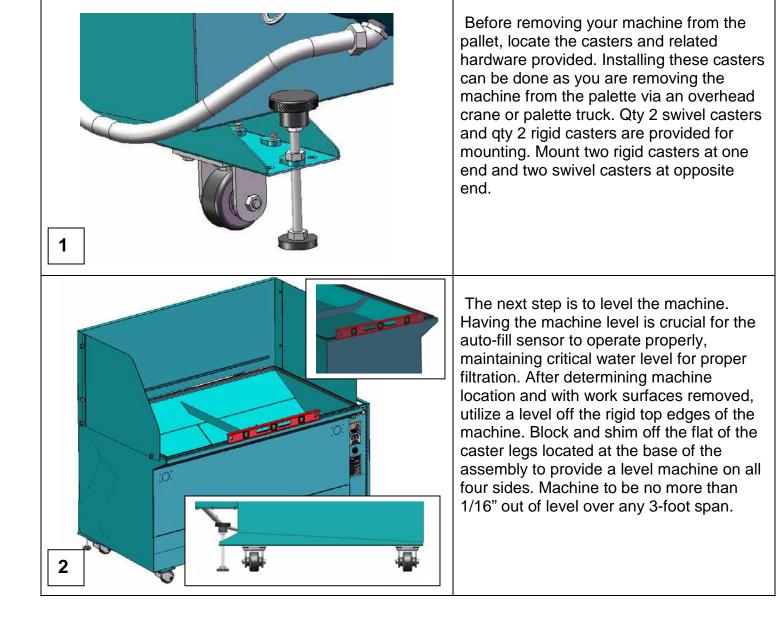
The 64400 Series Metal Capture Downdraft Table will be pallet shipped to its destination. The following details will describe the steps required for initial machine setup before operation. Read through the entire setup procedure to understand its requirements before trying to run machine.

Warning:

Failure to follow the required steps for machine setup may result in damage to machine or personal injury.

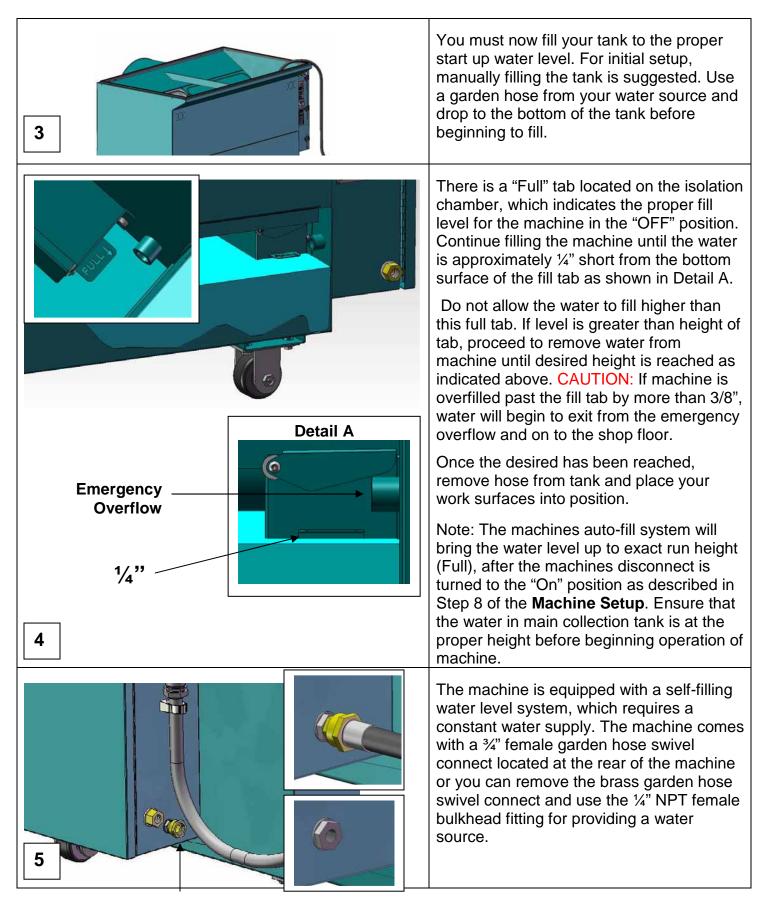




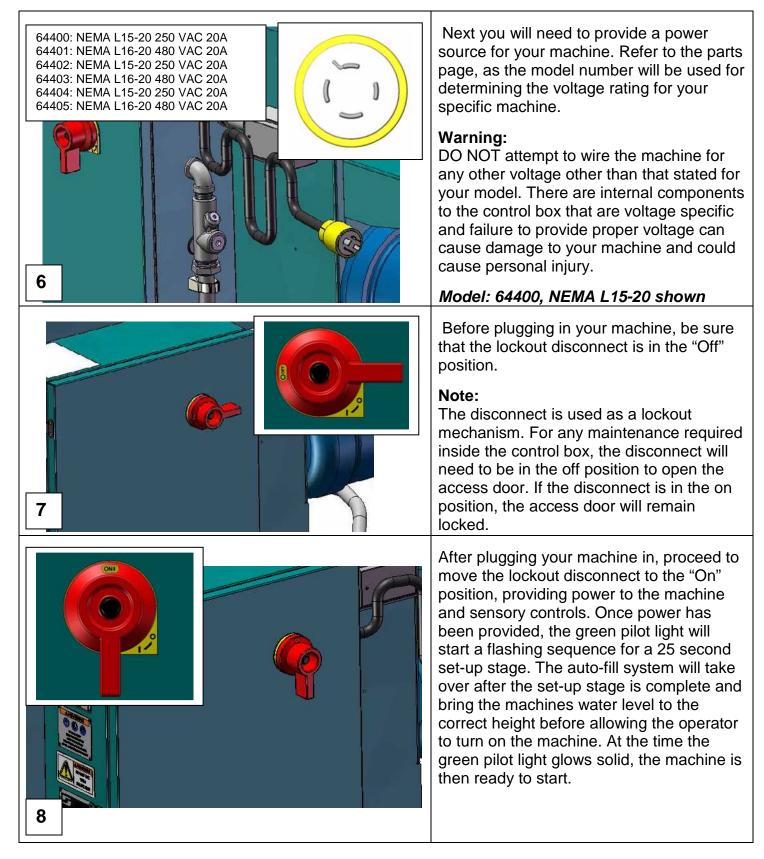


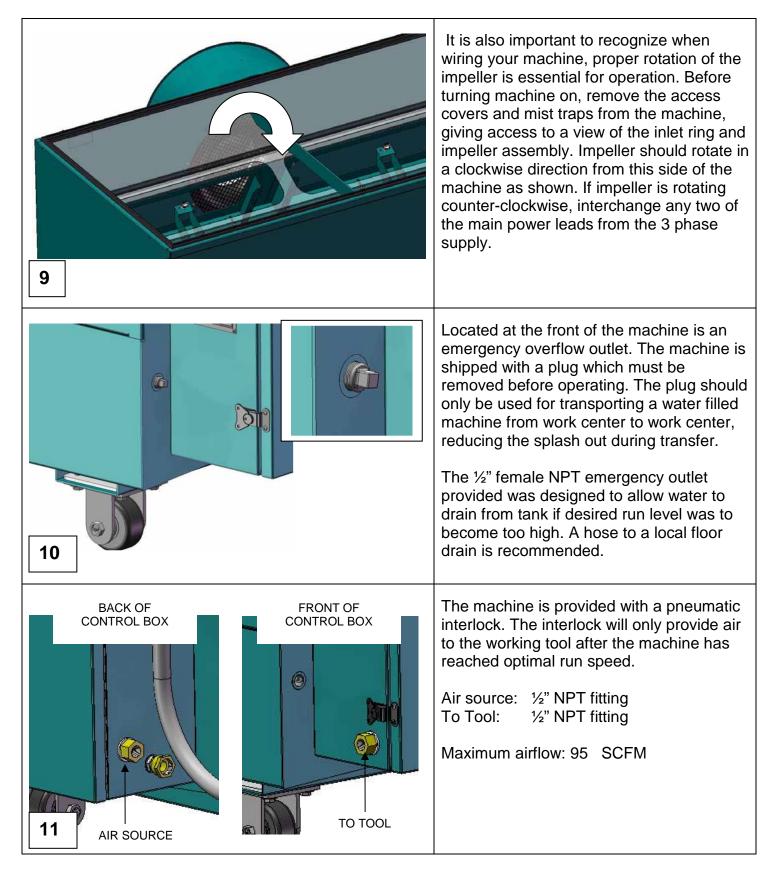
Machine Setup

Machine Setup

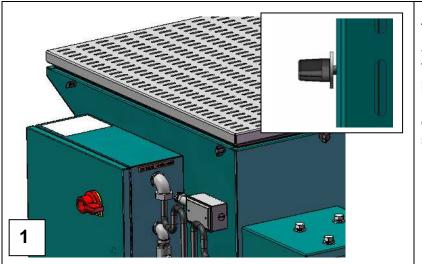


Machine Setup

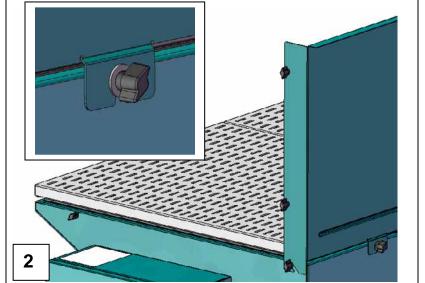




Shield Installation

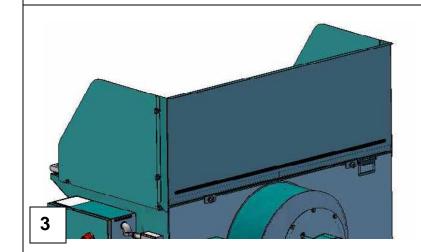


To begin installing the machines shielding assembly, screw qty 6 locking knobs into the threaded holes located around the perimeter of the main tank. The two rear knobs will have a steel washer for locking down the rear panel. Leave a 1/8" gap as shown at all 6 locations, to allow for the installing of the rear and side panels.



Slide the rear panel into place first. Be sure that the washer remains on the outside of the sheet metal tab as shown. Snug up the four knobs associated to this rear panel but do not tighten down completely at this time.

Add the remaining 4 lockdown knobs to the pre-threaded holes located on the return legs of the rear panel. These knobs will be used for locking down the side panels. Remember to leave a 1/8" gap for sliding the side panels into place.



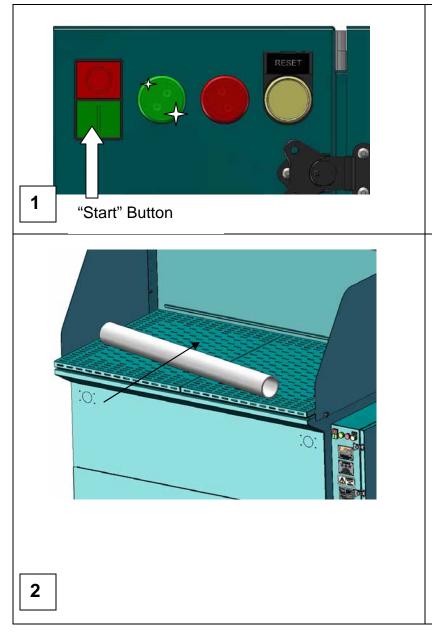
Slide both left and right panels into place and lock down until hand tight.

Continue by hand tightening all lock down knobs down.

Note:

The work surfaces can be removed with shielding in place. Disassembly is not required for maintenance.

Machine Operation



Once the green pilot light glows constant, you can then turn on the machine.

Press and release the "Start" button. The machines impeller will reach its optimal operating speed in approximately 10 seconds and air filtration will begin. You can now begin to grind your work piece.

Direction of grind is very important when speaking to maximum dust collection. Be sure to manipulate both your work piece and tool to insure that the table is capturing the highest percentage of both metal fillings and small metal particles or dust.

When possible, direct grind towards shielding for maximum capture rate.

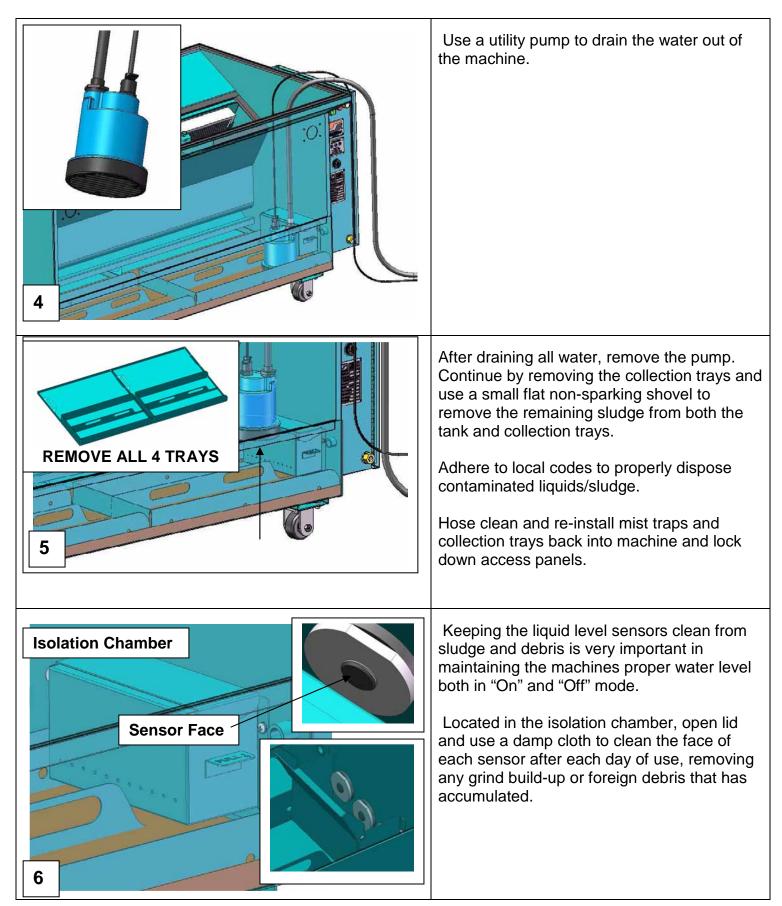
NOTE: The machine is provided with a pneumatic interlock. The interlock will only provide air to the working tool after the machine has reached optimal run speed.

Maintenance

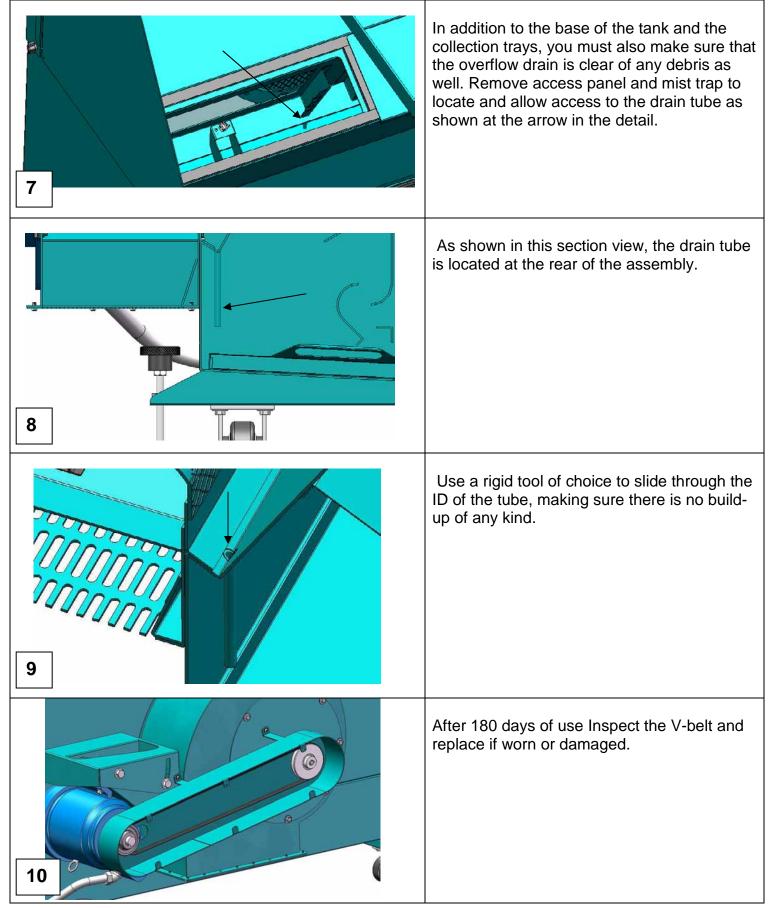
1

After machine use, sludge will collect in the clean-out pans located at the bottom of the tank. After each day of use, sludge should be removed and transported in a covered, vented steel container for storage or disposal in accordance with federal, state and local regulations-Sludge containing aluminum should be mixed with an inert material (dry clay) in the ratio of 5 parts inert material to 1 part sludge.
Before beginning any maintenance to your machine, first make sure the lockout disconnect is in the off position. Remove both work surfaces to gain access to the interior of the tank.
Continue by removing both access panels and mist traps. After 30 days of use, remove mist traps from Metal Capture Table, rinse with clean water to remove any trapped sludge or debris. Once clean, re-install mist traps before operation of machine. Inspect mist traps for signs of corrosion or damage. Replace if any corrosion or damage is found.

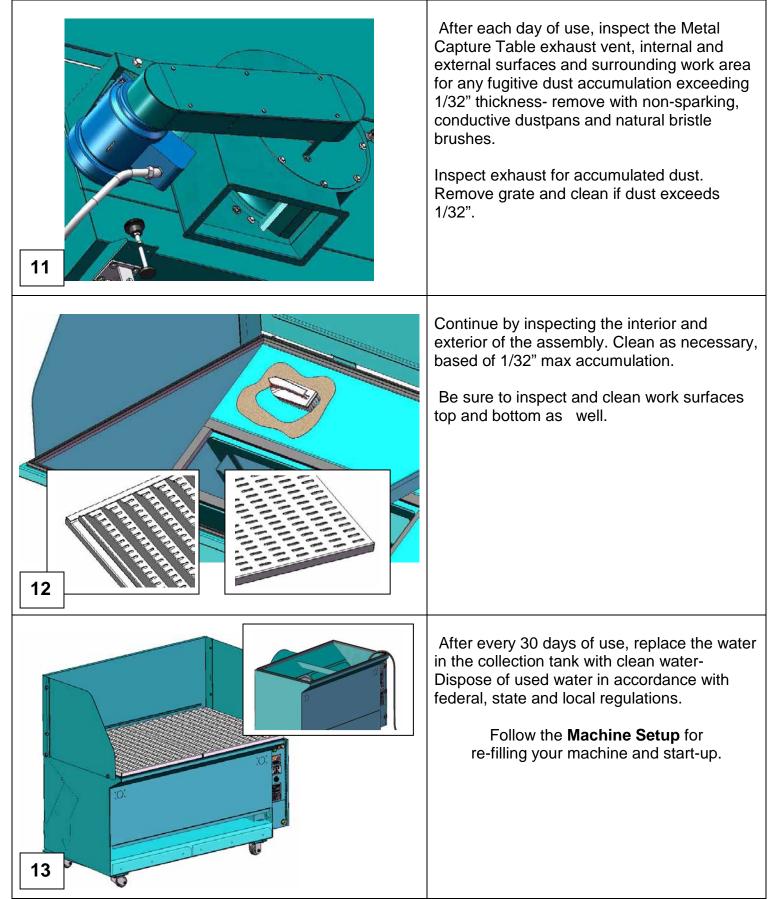
Maintenance



Maintenance



Maintenance



Maintenance

Maintenance Schedule	Daily	Every 30 Days of use	Every 180 Days of use
Check Water Level	~		
Remove sludge from collection tank	~		
Remove any accumulated dust	~		
Rinse mist traps with clean water	~		
Replace water in collection tank		~	
Inspect mist traps		~	
Inspect V-Belt			~
Clean Sensor Faces	\checkmark		

Check Water Level:

Insure that water in main collection tank is at the proper height before beginning operation of machine.

Remove sludge from Collection Tank:

Sludge should be transported in a covered, vented steel container for storage or disposal in accordance with federal, state and local regulations- sludge containing aluminum should be mixed with inert material (dry clay) in the ratio 5 parts inert material to 1 part sludge.

Remove any accumulated dust:

Inspect the Metal Capture Station or Table exhaust vent, internal and external surfaces and surrounding work area for any fugitive dust accumulation exceeding 1/32" thickness- remove with non-sparking, conductive dustpans and natural bristle brushes.

Rinse Mist traps with clean water:

Remove mist traps from Metal Capture Station or Table and rinse with clean water to remove any trapped sludge or debris. Once clean re-install mist traps before operation of machine.

Replace water in collection tank:

Replace the water in the collection tank with clean water-Dispose of used water in accordance with federal, state and local regulations.

Inspect Mist Traps:

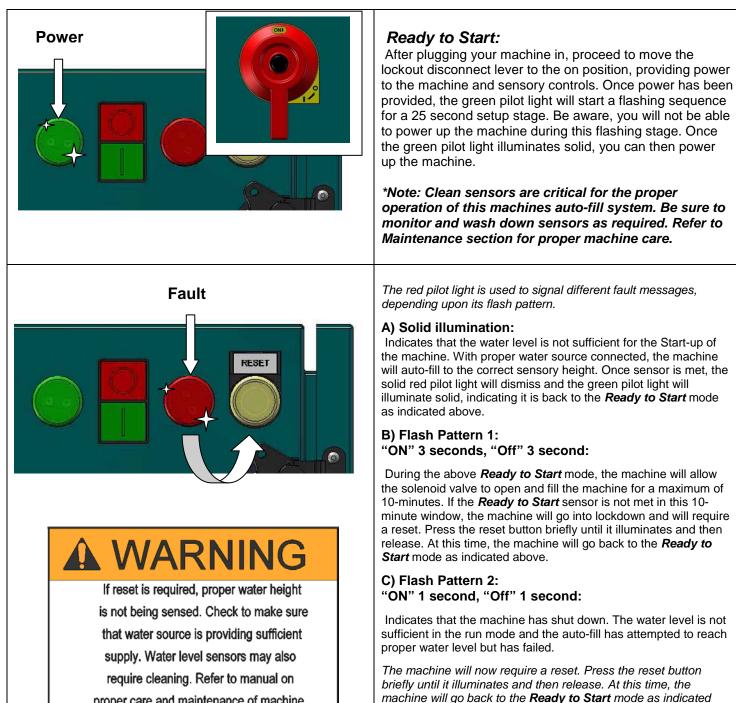
Inspect mist traps for signs of corrosion or damage. Replace if any corrosion or damage is found.

Inspect V-Belt:

Inspect V-Belt and replace if worn or damaged

Clean Sensor Faces:

Located in the isolation chamber, open lid and use a damp cloth to clean the face of each sensor, removing any grind build-up or foreign debris that has accumulated.



proper care and maintenance of machine.

If machine continues to shut down,

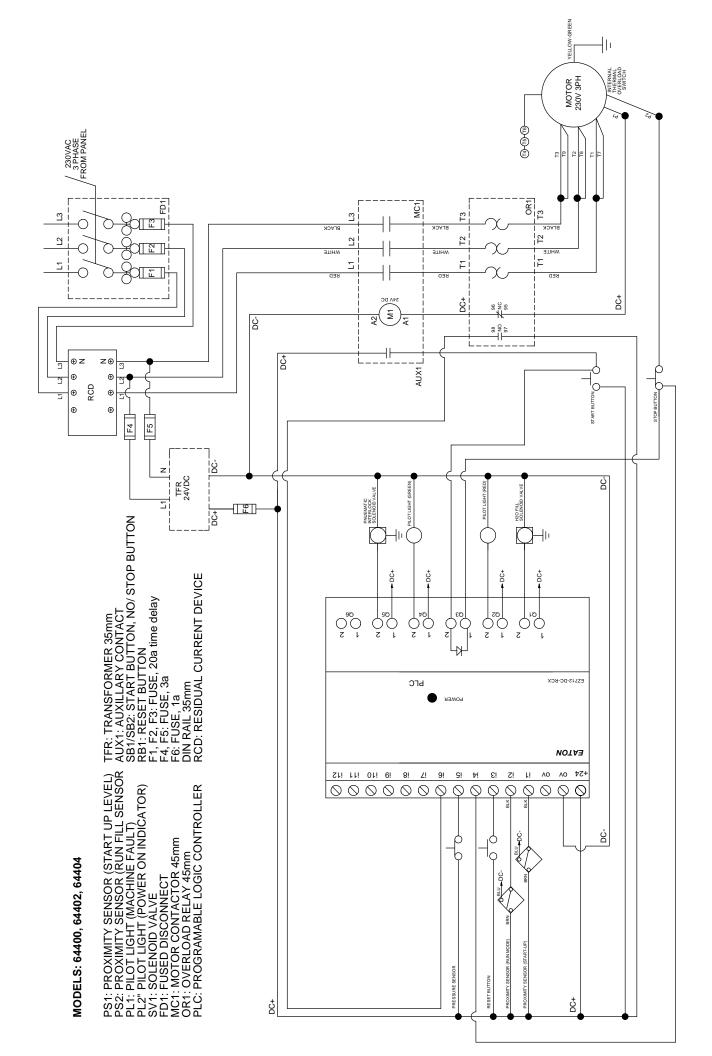
consult factory for further assistance.

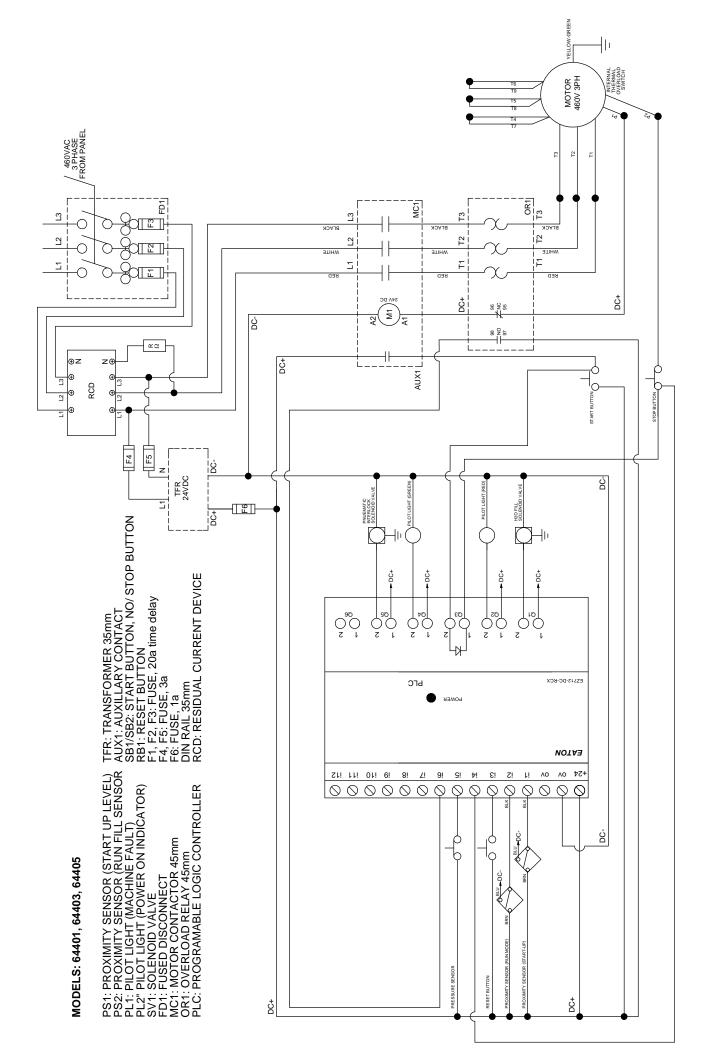
Dynabrade: 1-800-828-7333

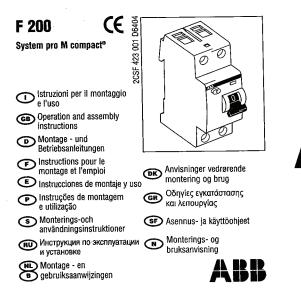
D) Flash Pattern 3: "ON" 10 second, "Off" 1 second:

above.

A motor overload will shut down the system and trigger this flashing sequence. At this time, a qualified electrician should determine why the motor overload was tripped and use of the machine should be stopped until the cause of overload is determined.







B Technical data

See equipment plate data and refer below: F200 AC - F200 AC AP-R Alternate currents [~] F200 A - F200 A AP-R Alternate currents, pulse currents with DC components

F200 S Selective S Insensitivity to transient current F200 AC, F200 A up to 250A

pulses with wave-form 8/20 µs: F200 AP-R up to 3000 A ; F200 S up to 5000 A **Co-ordination with Short**

Circuit Protection Device: 10 kA, with 100 A fuse type gL 500V or S700-E/K 100A

Protection against overcurrent: The RCCBs must be used with Short Circuit Protection devices to provide circuit protection against overloads and short circuit faults.

Power supply The devices can be fed from either the upper or lower terminals.

Assembly

Designed for fitting on symmetrical DIN rail to standard EN 60715, 35 mm. width, with Designed for much of symmetrical one ran to standard the or 15, 55 min. And a min fast clip included in the breaker. It is possible to realize the wiring with System pro M compact connection busbars on

both the upper and lower terminals (see figure 1)

Figure 2: Assemby on DIN rail (2.1). Removal (2.2).

Figure 3: To remove an F200 RCCB, wired on the lower side with a connection busbar, it is necessary to unscrew the lower terminals (3.1), to push it upwards up to the con-tact with the DIN rail (3.2) and then to push it downwards up to first position of the fast clip (3.3); the F200 can be removed by lifting it upwards (3.4).

Figure 4: To connect the F200 RCCB to a group of S200 MCB's fitted on the lower ter-minal with busbar, move out the fast clip to first position (4.1), place the device such that the busbar prongs enter the back lower terminals (4.2), more the device towards the DIN rail (4.3) and push downwards (4.4), in this way the fast clip attaches to the DIN rail (4.5).

http://www.abb.com

Electrical connections

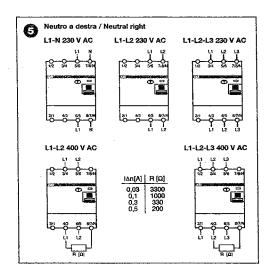
In a three-phase network with neutral (Un =230/400V a.c.-240/415V a.c.-127/230V a.c.), all line wires, included the neutral one, should be connected. (excluded the pro-

a.c.), an line writes, included and neutral one, should be connected to the recent (excluded the pro-tection write). The writes should be firmly connected in the terminals:maximum torque moment according to EN 61008/IEC 61008 standards. It is also possible to use a four-pole RCGB in single-phase, two-phases and three-phas-es networks without neutral; see figure 5 for the version with neutral on the right side and figure 6 for the version with neutral on the left side.

Instructions for the user (to be kept available for future users as well). - Remember to press the "T" test button regularly and at least every six months. The RCCB should trip. If this does not happen, an authorized electrician should be alert-

ed immediately because the system safety has been reduced. Always call a qualified technician to carry out any work on fixed or mobile eletrical installation.

- Safeguard of the sorroundings The product is conforming to the european standards 2002/95/CE regarding the restrictions on the use of certain dangerous substances in the electrical and electronical equipments.
- tronical equipments. It is necessary to respect the local regulations concerning the elimination of the pack-aging materials and of the circuit-breaker and, if possible, to recycle them.





HAZARDOUS VOLTAGE

- . This equipment must be installed and serviced only by qualified electrical personnel.
- . Turn off all power supplying this equipment before working on or inside equipment.
- . Always use a properly rated voltage sensing device to confirm power is off.
- . Replace all devices, doors, and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

A DANGER / DANGER / PELIGRO

TENSION DANGEREUSE

- L'installation et l'entretien de cet appareil ne doivent être effectués que par du personnel qualifié.
- Coupez l'alimentation de cet appareil avant d'y travailler.
- Utilisez toujours un dispositif de détection de tension à valeur nominale approprié pour confirmer que toute alimentation est coupée.
- Replacez tous les dispositifs, les portes et les couvercles avant de mettre cet appareil sous tension.

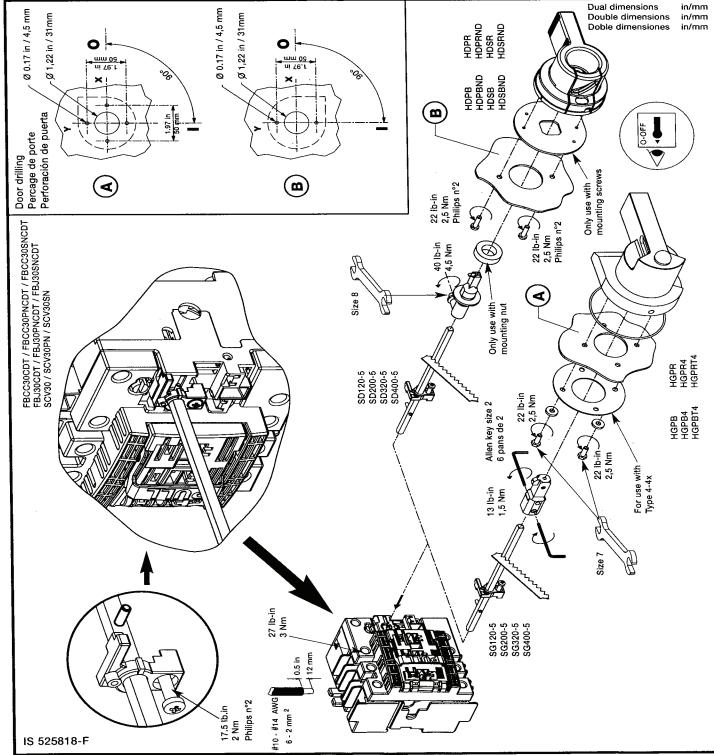
Si ces précautions ne sont pas respectées, cela entraînera la mort ou des blessures graves

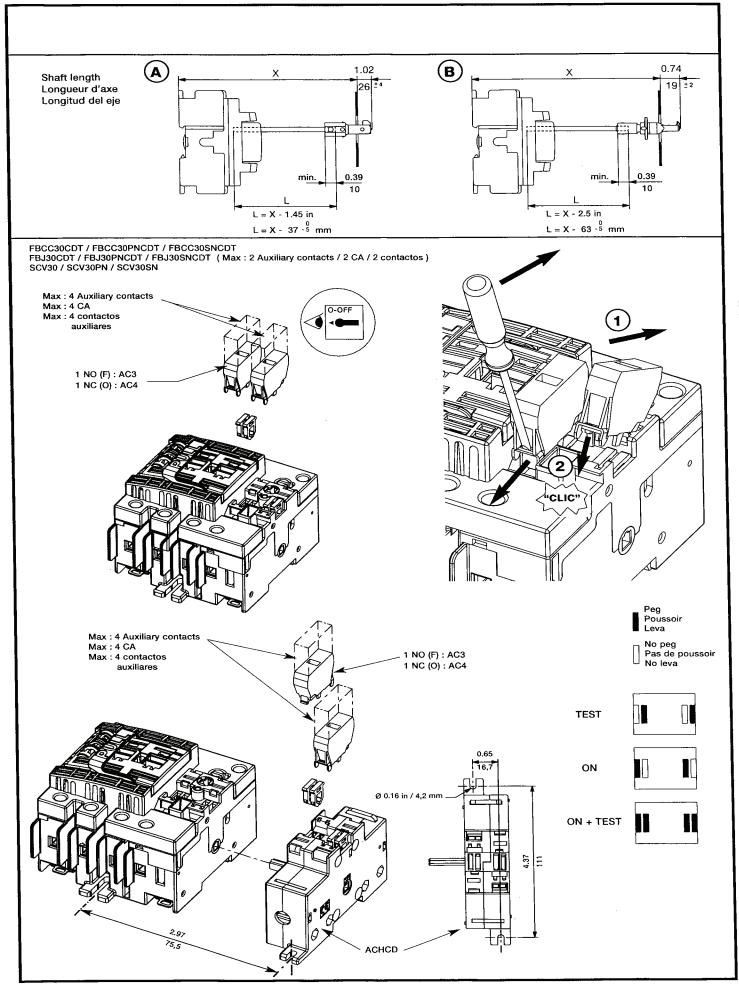
TENSION PELIGROSA

 Solamente el personal de mantenimiento eléctrico especializado debera instalar y prestar servicios de mantenimiento a este equipo.

- Desenergice el equipo antes de realizar cualquier trabajo en él.
- . Siempre utilice un dispositivo detector de tensión adecuado para confirmar la desenergización del equipo.
- Vuelva a colocar todos los dispositivos, las puertas y las cubiertas antes de energizar este equipo.

El incumplimiento de estas precauciones podrá causar la muerte o lesiones serias.







A DANGER / DANGER / PELIGRO

L'installation et l'entretien de cet appareil ne

doivent être effectués que par du personnel

Coupez l'alimentation de cet appareil avant

Utilisez toujours un dispositif de détection

de tension à valeur nominale approprié pour confirmer que toute alimentation est coupée.

Replacez tous les dispositifs, les portes et les couvercles avant de mettre cet appareil

Si ces précautions ne sont pas respectées, cela entraînera la mort ou des blessures graves

TENSION DANGEREUSE

qualifié.

d'y travailler.

sous tension.

HAZARDOUS VOLTAGE

- This equipment must be installed and serviced only by qualified electrical personnel.
- . Turn off all power supplying this equipment before working on or inside equipment.
- . Always use a properly rated voltage sensing device to confirm power is off.
- . Replace all devices, doors, and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

TENSION PELIGROSA

 Solamente el personal de mantenimiento eléctrico especializado debera instalar y prestar servicios de mantenimiento a este equipo.

2: Jocomec

Disconnect Switches

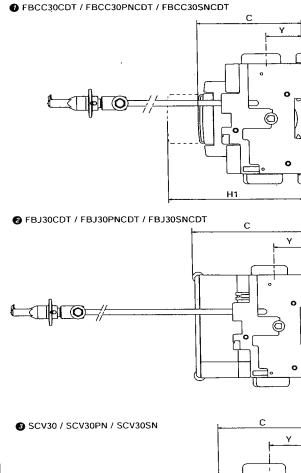
- . Desenergice el equipo antes de realizar cualquier trabajo en él.
- . Siempre utilice un dispositivo detector de tensión adecuado para confirmar la desenergización del equipo.
- Vuelva a colocar todos los dispositivos, las puertas y las cubiertas antes de energizar este equipo.

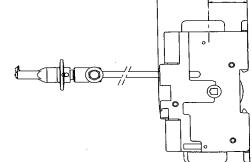
El incumplimiento de estas precauciones podrá causar la muerte o lesiones serias.

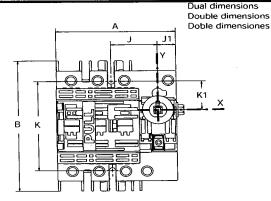
in/mm

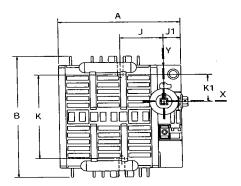
in/mm

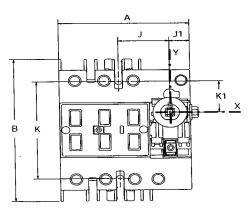
in/mm





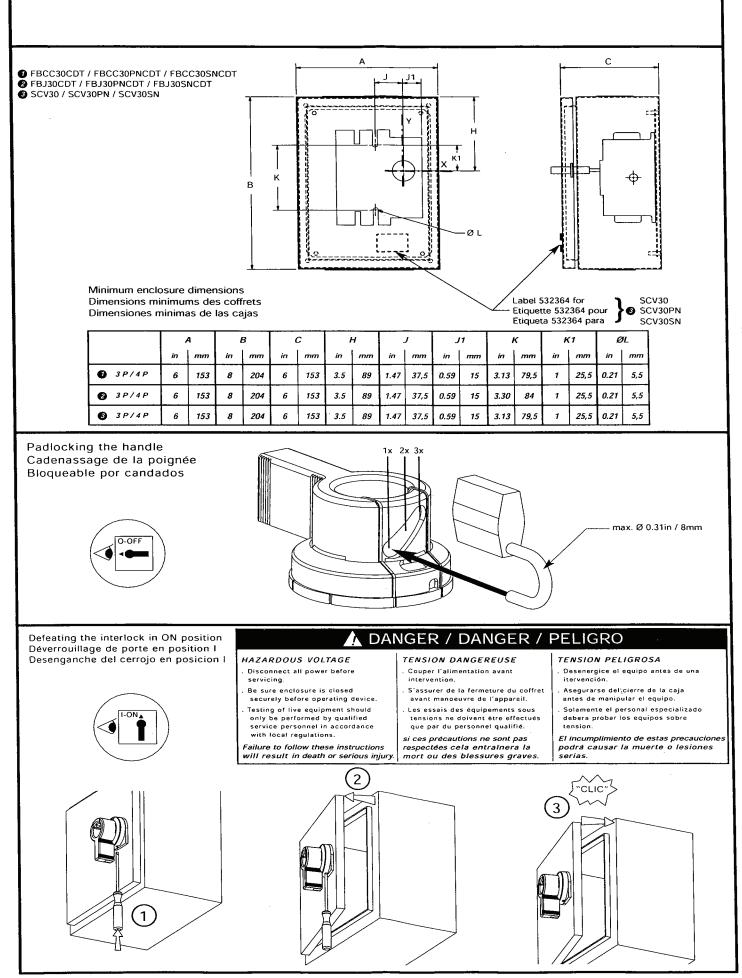






	4	1	E	3	6	;		н	н	11	+ ا	12	H	13		/	J	1	ŀ	۲ I	к	1	1	Y
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	тm	in	mm	in	mm	in	mm	in	mn
1 3P/4P	3.78	96	4.56	116	3.28	83,5	1	/	5.19	132	1	1	1	1	1.47	37,5	0.59	15	3.13	79,5	1	25,5	1.12	28,
8 3P/4P	4.13	105	4.56	116	3.89	99	/	1	1	/	1	/	1	/	1.47	37,5	0.59	15	3.30	84	1	25.5	1.12	28,
3 3P/4P	3.78	96	4.56	116	2.59	66	/	1	1	1	/	1	1	1	1.47	37,5	0.59	15	3.13	79,5	1	25,5	1.12	28,

Ł





****************** This manual should be given to the person who actually uses the products and is responsible for their maintenance

Туре	
SC-E02 * 1,	SC-E02 * 1/G
SC-E03 \star 1,	SC-E03 \star 1 /G
SC-E04 \star 1,	SC-E04 * 1/G
SC-E05 * 1,	SC-E05 1/G

Magnetic Contactor

INSTRUCTION MANUAL INA-F01548-JE

Suffixes listed below may be attached to the above types at portions marked with *... For details regarding specifications, see the catalog.

* 1 : BM

Safety Precautions

To ensure proper use of the product, be sure to read this manual and the other attached documents carefully before starting installation, operation, maintenance and inspection. Within this instruction manual, safety precautions are ranked, in order of importance, as either "Warning" or "Caution".

WARNING

An operator may be killed or seriously injured by a hazardous condition resulting from improper operation.

An operator may be suffer minor injuries and/or objects may be damaged by a hazardous condition resulting from improper operation.

Under certain conditions, improper operation may result in serious injury and/or damage even if it is labelled only as "Caution". Every item indicated by either "Warning" or "Caution" should be considered significant. Be sure to give particular care to those items.

WARNING

- Do not touch the product or approach it when power connected. Electric shock or burns may result.
- Turn off the power before starting maintenance or inspection. Failure to turn off power may result in Electric shock or burns.

- For wiring, select wire sizes suitable for the applied voltage and current. Tighten wires with the tightening torque specified in the instruction manual. Failure to do so may result in fire.
- Do not touch the product immediately after the power is turned off. As it may still be hot, burns may result.
- Do not use the product after removing its arc chamber. Electric shock or burns may result.
- Treat the product as industrial waste when discarding. .

1. Unpacking

(1) Check that the type, coil voltage, and applicable capacity match the requested specifications.

(2) Make sure that no parts have been lost or damaged.

2. Storage

Store the unit in the packing box. Do not store the packing box in a location subject to high temperature, high humidity, corrosive gas, or direct sun light.

3. Mounting

(1) Mount in a dry, clean and stable location.

- (2) Mounting on a vertical surface. The product must not incline more than 30°. (Fig.1) (3) The rail mounting type can be attached on a standard 35mm IEC60715 mounting rail. Fuji type TH35-15AL mounting rail is recommended. Mounting
- of the rail on the panel (Fig.2) Attachment and removal (Fig.3) (4) Even if the product is provided with four mounting holes, use any two mounting
- holes on a diagonal line. (Fig.4)

4. Mounting space

(1) Mount the products at a distance of at least that shown in the table below. (Fig.5, Fig.6)

A (mm)	. 0
B (mm)	10
C (mm)	0

(2) When units must be installed very closely, the temperature may rise in some conditions (i.e. the power is continuously supplied for a long time or units that frequently do switching are installed very closely), and it may shorten the life of the coil. Thus, when installing units very closely, it is recommended to install the units 5 mm or more apart.

5. Connection (1) Main terminals

Connectable wire size and proper tightening torque.

 Main terminals 			
Types			SC-E02 SC-E03 SC-E04 SC-E05
			SC-E02/G SC-E03/G SC-E04/G SC-E05/G
Solid and stranded	X1	(mm²)	0.75 to 6
[Note 1] [Note 2]	X2	(mm²)	"1 to 4" or "1.5 to 6"
AWG conductor connection	X1		18 to 10
	X2		"18 to 12" or "16 to 10"
Stripped length		(mm)	11
			·
Terminal screw size			M4
Kinds of screw [Note 3]			⊕ ⊖
Tightening torque	(N·m)	(lb.in)	1.2 to 1.5 (11 to 13)
		,	
(2) Coll terminals			
Types			SC-E02 SC-E03 SC-E04 SC-E05
			SC-E02/G SC-E03/G SC-E04/G SC-E05/G
Solid and stranded	X1	(mm²)	0.75 to 6 (\$1 to \$1.6)
[Note 1] [Note 2]	×2	(mm²)	"0.75 to 1.5" or "1.5 to 2.5"
AWG conductor connection	XI		18 to 14
	×2		18 to 14
Stripped length		(mm)	10
Terminal screw size		,	M3.5
Kinds of screw [Note 3]			Φ Θ
Tightening torque	[N·m]) (lb.in)	0.8 to 1 (7 to 9)
[Note 1] Finely stranded wi			
Use finely stranded with			
[Note 2] Stranded wire	u wiie		umber of solids ≤ 7
	ndod y		inely stranded with sleeve.
[Note 3] \oplus : Philips PH2 d		40.6.11	hely sudhoed with sleeve.
⊖ : Slotted-head		11×55	type B
[Note 4] Tighten all termina			
			of connected leads, check the tightening
torque of the clam			
6. Operation indic	ato	r of c	contactor
Indicator shows contactor o			

Indicator shows contactor operates or not. (Fig.7) Don't touch or push the indicator for continuity test, or it may result in Electric shock or burns.

7. Maintenance and Inspection

- (1) Check that the operating circuit voltage is within the allowable voltage fluctuation range of the coil voltage.
- (2) Check that all terminals are tightened with the proper torque periodically.
- (3) In AC operation, check that operation power supply is sinusoidal waveform (50Hz and 60Hz) without distortion or cave-in etc.
- (4) In combination of short circuit protection equipment (SCPD) type"2" of 8 clause, when slightly contacts weld occur, remove arc chamber and separate slightly welded contacts with a screwdriver, and products can be used in succession.
- (5) After fastening terminal screw of middle phase, insert flat-bladed screwdriver between arc chamber and washer of terminal screw and lift the arc chamber, so arc chamber will be removed.
- (6) Dark and rough contacts can still function. Do not refinish or grease them. If the contact facings are so badly eroded that the carrier material is visible, replace the product.

8. Short-circuit protective device (SCPD)

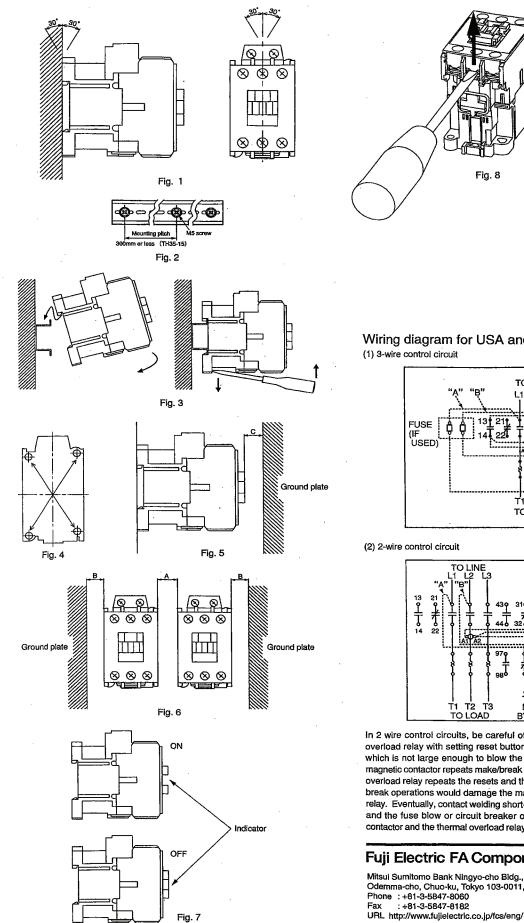
(1) Selection table according to IEC 60947-4-1 Type "1" Туре "2' Туре Prospective JEC 60269-1 rospective Fuji Breakers Current Current gG and gM Fuses Part No. Max. Max. Rating ĺq lq Rating (Ä) [kA] (A) (kA) SC-E02 SA103C/30 30 50 20 SC-E02/G 25 SC-E03 SA103C/30 30 SC-E03/G SA103C/30 30 40 SC-E04 SC-E04/G SA53RC/50 50 SC-E05 50 SC-E05/G

Type "1" co-ordination requires that, under short-circuit conditions, the contactor or starter shall cause no danger to persons or installation and may not be suitable for further service without repair and replacement of parts.

Type "2" co-ordination requires that, under short-circuit conditions, the contactor or starter shall cause no danger to persons or installation and shall be suitable for further use. The risk of contact welding is recognized, in which case the manufacturer shall indicate the measures to be taken as regards the maintenance of the equipment.

(2) Short circuit protection according to UL508

Suitable for use on a circuit capable of delivering not more than 5,000 rms symmetrical amperes, 600V max. Maximum circuit breaker and fuse rating are described in the name plate.



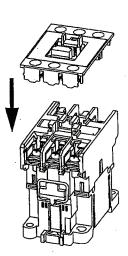
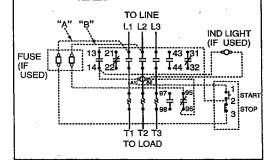
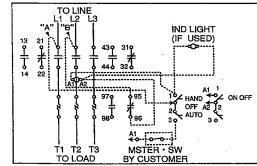


Fig. 9

Wiring diagram for USA and Canada





In 2 wire control circuits, be careful of the following points when using thermal overload relay with setting reset button to auto reset mode. If over-current flows, which is not large enough to blow the fuse or to operate the circuit breaker, the magnetic contactor repeats make/break operations. It does this because the thermal overload relay repeats the resets and the trips automatically. This repeated make/ break operations would damage the magnetic contactor and the thermal overload relay. Eventually, contact welding short-circuit (phase to phase) or grounding occur, and the fuse blow or circuit breaker operate. In this case, check the magnetic contactor and the thermal overload relay. Replace them if they have been damaged.

Fuji Electric FA Components & Systems Co., Ltd.

Mitsui Sumitomo Bank Ningyo-cho Bldg., 5-7, Nihonbashi Odemma-cho, Chuo-ku, Tokyo 103-0011, Japan Phone :+81-3-5847-8060 URL http://www.fujielectric.co.jp/fcs/eng/

20000000000000000 This manual should be given to the person who actually uses the product and is responsible for their maintenance.

Safety Precautions

TK-E02

INSTRUCTION MANUAL

Туре

Thermal Overload Relay

To ensure proper use of the product, be sure to read this manual and the other attached documents carefully before starting installation, operation, maintenance and inspection. Within this instruction manual, safety precautions are ranked, in order of importance, as either "Warning" or 'Caution".



An operator may be killed or seriously injured by a hazardous condition resulting from improper operation.

CAUTION

An operator may suffer minor injuries and/or objects may be damaged by a hazardous condition resulting from improper operation.

Under certain conditions, improper operation may result in serious injury and/or damage even if it is labeled only as"Caution". Every item indicated by either "Warning" or "Caution" should be considered significant. Be sure to give particular care to those items.

WARNING

- Do not touch the product or approach it when power connected. Electric shock or burns may result.
- Turn off the power before starting maintenance or inspection. Failure to do so may result in electric shock.

- Install the product in space more than being provided by this manual. Failure to do so may result in fire or burns.
- For wiring, select wire size suitable for the applied voltage and current. Burns may result. Tighten wires with the tightening torque specified in the instruction manual. Failure to do so may result in fire.
- Do not touch the product immediately after the power is turned off. As it may still be hot, burns may result.
- Treat the product as industrial waste when discarding.

1. Unpacking

(1) Check that the type and rating match the requested specifications. (2) Make sure that no parts have been lost or damaged.

2. Storage

Store the unit in the packing box. Do not store the packing box in a location subject to high temperature, high humidity, corrosive gas, or direct sunlight.

3. Mounting

- (1) Mount in a dry, clean and stable location.
- (2) Mounting on a vertical surface. The product must not incline more than 30° . (Fig.1)
- (3) Combination of contactors and thermal overload relay(TOR) and type of separate mounting unit for TOR.

	Type of contactor on which TOR can be mounted	Type of separate mounting unit on which TOR can be mounted
TK-E02	SC-E02, E03, E04, E05 SC-E02/G, E03/G, E04/G, E05/G	SZ-HCE

4. Mounting space

(1) Mount the products at a distance of at least that shown in the table below. (Fig.2 ex. TK-E02+SZ-HCE)

Dimension A	20mm
Dimension B	10mm

5. Connection

INA-F2011c-JE

Connectable wire size and proper tightening torque (1) Main terminals

🖳 тк-еог Type Solid $1 \times (0.75 \text{ to } 4)$ [mm²] Stranded $2 \times (1 \text{ to } 4)$ Flexible stranded 1 x (18 to 12) with end sleeve Direct AWG 2×(18 to 12) [Note 1][Note 2] Connection Stripped length [mm] 11 Terminal screw size M4 θΘ Tool [Note 3] [N·m] 1.2 to 1.5 Tightening torque [lb·in] 11 to 13

(2) Auxiliary terminals

	- Туре - Соб		TK=E02
	Solid Stranded Flexible stranded	[mm²]	$1 \times (0.75 \text{ to } 2.5)$ $1 \times (\phi 1 \text{ to } \phi 1.6)$ $2 \times (0.75 \text{ to } 1.5)$ $2 \times (1.5 \text{ to } 2.5)$
	with end sleeve [Note 1][Note 2]	AWG	1 × (18 to 14) 2 × (18 to 14)
Direct Connection	Stripped length	[mm]	10
	Terminal screw	size	M3.5
	Tool [Note 3	1	⊕⊖
	Tightoning torgue	[N·m]	0.8 to 1
	Tightening torque	[lb·in]	7 to 9

- [Note1] Finely stranded wire without end sleeve is not applicable. Us finely stranded wire with end sleeve.
- [Note2] Stranded wire: Number of solids ≤ 7 Flexible stranded wire: Number of solids > 7

[Note3] \oplus : Philips PH2 $\phi 6$

- \ominus : Slotted-head screw I-1 \times 5.5 \times L Type B
- [Note4] Tighten all terminal screws even if not used.
- After alignment or bending back of connected wires, check [Note5] the tightening torque again.

6. Usage

- (1) Turn the adjustment dial within the scale so that the full load current of the motor is at the **V** mark (Fig. 3). Do not use beyond the scale, or the expected performance cannot be obtained.
- (2) By pushing the Trip bar toward the arrow, the sequence check will start (Fig.4).
- (3) The operation status of the thermal overload relay is indicated with the projected length of the Trip bar (Fig.4).
- (4) If the thermal overload relay operates, first remove the cause of failure such as overload, and then lightly press the reset button to reset it. (In this case, the thermal overload relay cannot reset, if it is not cooled sufficiently.) (Fig.3)
- To change over from manual reset mode to automatic reset mode, keep the (5)reset button pushed by the procedure shown in Fig.5.
- (6) Note that the motor restarts automatically if the Thermal overload relay in a two-wire circuit is reset I at automatic reset mode.

Maintenance and Inspection

- 7.1 Inspection before operation
- Check that all screws are tightened.
 Check that there is no foreign magnetic screws and screws and screws are tightened. Check that there is no foreign matter in the unit, such as wire chips or
- washers 7.2 Periodic inspection (1) Perform initial inspection early, and perform subsequent inspections on a
- regular basis.
- Check that all terminals are tightened with the proper torque periodically. Please request "Maintenance & Inspection manual Parts list" to our sales (3)office, when necessary.

B. Shor	t circui	t protec	tive d	evice (SCPL))			
				IEC	60947~	4-1		UL508	
	il overload			Турв 1		T	уре 2		
	elay	Contactor	Prospe-	Fuji Bre	aker	Prospe-	IEC60269-1	Maximum circuit	
Туре	Rrange [A]	type	ctive Current Iq [kA]	Туре	Rating [A]	ctive Current Iq [kA]	gG and gM Fuse Rating [A]	rating are described in the nameplate.	
	0.1-0.15			-	-		-		
	0.13-0.2			-	-		-		
	0.15-0.24			-	-		-	1	
	0.2-0.3			-	-	1	-	Suitable for use	
1	0,24-0.36			-	-	1	_	on capable of delivering not	
1	0.3-0.45	[-			_	more than 1000	
	0.36-0.54			SA53RC	3		2	ms symmetrica amperes, 600V	
	0.48-0.72	SC-E02		SA53RC	3		4	max.	
	0.64-0.96	SC-E03		SA53RC	5		4		
	0.8-1.2	SC-E04		SA53RC	5		4		
	0.95-1.45	SC-E05		SA53RC	10]	16		
TK-E02	1.4-2.2		10	SA53RC	10	50	20		
	1.7-2.6	SC-E02/G		SA53RC	10	ļ	20]	
ļ.	2.2-3.4	SC-E03/G		SA53RC	10		20	Culture Course	
1		0.00	1			1	1	Suitable for use	

SA53RC

SA53RC

SA103C

SA103C

SA103C

SA103C

SA103C

SA53RC

SA53RC

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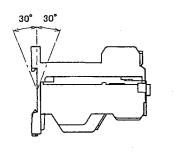
ore than 5000

ms symmetrica

amperes, 600V

nax.

Type 1 is a selection that the contact welding or damage may result after short-circuited. Exchange the product for a new product promptly. Type 2 is a selection that the product can be used after short-circuited. The slight welding of the main contacts may result. Check if the contacts are welded. Separate the contacts by driver or its equivalent in case of welding.



SC-E04/G

SC-E05/G

2.8-4.2

4-6

5-8

6-9

7-11

9-13

12-18

16-22

20--25



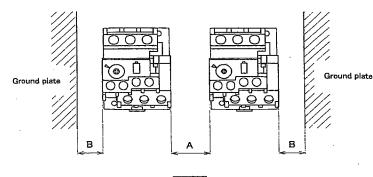
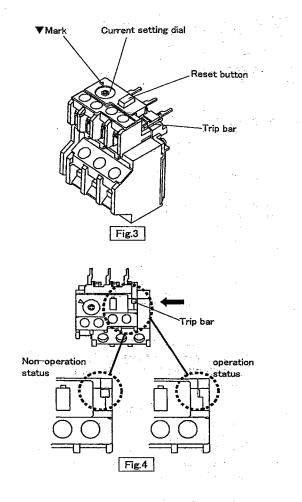
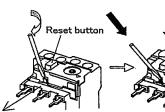
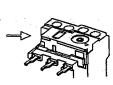


Fig.2







- Break plastic cover to expose window.
- With pointed tool, push the Reset button back until it latches.
- Reset button is now in automatic reset mode.

Note: Use caution when selecting automatic reset mode. Equipment damage can result when used improperly.



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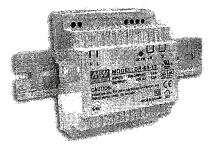
Phone:+81-3-5847-8060

Fax :+81-3-5847-8182

URL http://www.fujielectric.co.jp/fcs/



DR-60 series



- Features :
- Universal AC input/Full range

1

- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- Isolation class II
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty



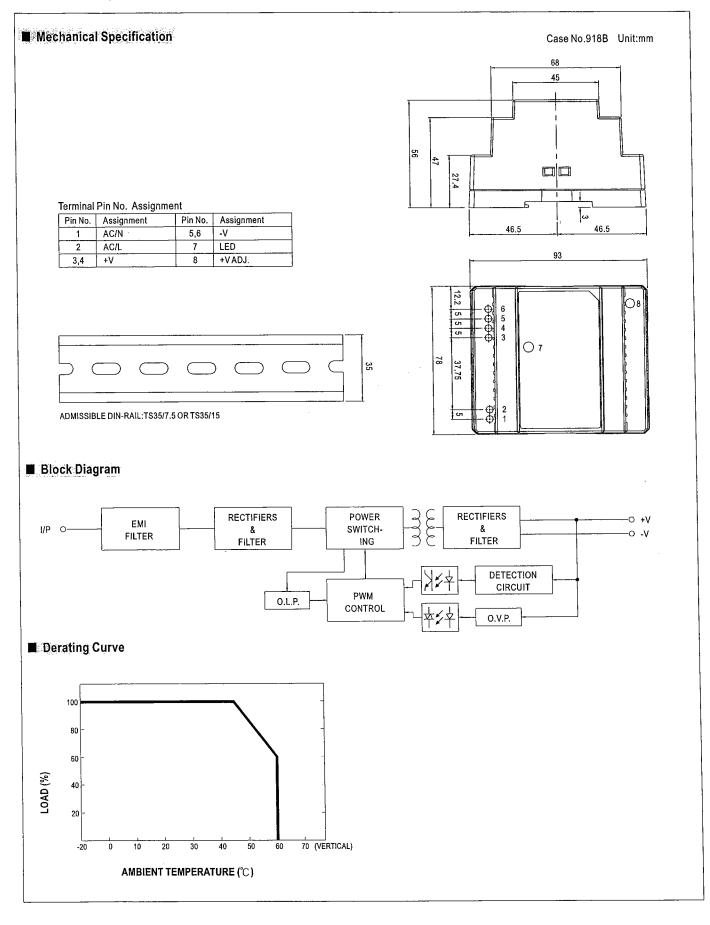
SPECIFICATION

MODEL		DR-60-5	DR-60-12	DR-60-15	DR-60-24					
	DC VOLTAGE	5V	12V	15V	24V					
	RATED CURRENT	6.5A	4.5A	4A	2.5A					
	CURRENT RANGE	0~6.5A	0~4.5A	0~4A	0~2.5A					
	RATED POWER	32.5W	54W	60W	60W					
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p					
ουτρυτ	VOLTAGE ADJ. RANGE	4.75~5.5V	11.1 ~ 13.2V	13.5 ~ 16.5V	21.6~26.4V					
	VOLTAGE TOLERANCE Note:3	±2:0%	±1.0%	±1.0%	土1.0%					
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%					
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%					
	SETUP, RISE TIME	100ms, 30ms/230VAC 200	ms, 30ms/115VAC at full loa	d						
	HOLD UP TIME (Typ.)	100ms/230VAC 23ms/115	VAC at full load	· · · · · · · · · · · · · · · · · · ·						
	VOLTAGE RANGE	88 ~ 264VAC 124 ~ 370VE	C							
	FREQUENCY RANGE	47~63Hz								
INPUT	EFFICIENCY (Typ.)	76%	82%	83%	84%					
	AC CURRENT (Typ:)	1.2A/115VAC 0.8A/230VA	C							
	INRUSH CURRENT (Typ.)	COLD START 18A/115VAC	36A/230VAC							
	OVERLOAD	105 ~ 160% rated output power								
PROTECTION				tically after fault condition is removed						
	OVER VOLTAGE	5.75~6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6~32.4V					
		Protection type : Shut down o/p		over						
	WORKING TEMP.	-20 ~ +60°C (Refer to output lo								
	WORKING HUMIDITY	20~90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)	a the Art of the second second second second		and should be the contraction of					
	VIBRATION	the second se		JX, Y, Z axes; Mounting: Compliance	to IEC60068-2-6					
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 a		50178						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC		<u> </u>						
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC								
(Note 4)	EMI CONDUCTION & RADIATION									
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3								
	EMS IMMUNITY	Compliance to EN61000-4-2, 3	, 4, 5, 6, 8, 11, ENV50204, E	N55024, EN61000-6-2, EN61204-3, I	neavy industry level, criteria A					
	MTBF	· · · · · · · · · · · · · · · · · · ·	217F (25°C)							
OTHERS	DIMENSION	78*93*56mm (W*H*D)								
	PACKING	0.3Kg; 48pcs/15.4Kg/1.02CUF	· · · · · · · · · · · · · · · · · · ·		· ·					
NOTE	 Ripple & noise are measured. Tolerance : includes set up 	ed at 20MHz of bandwidth by u tolerance, line regulation and li	ising a 12" twisted pair-wire oad regulation.	IND 25°C of ambient temperature. terminated with a 0.1uf & 47uf para ment. The final equipment must be i	•					



60W Single Output Industrial DIN Rail Power Supply

DR-60 series







120W Single Output Industrial DIN RAIL Power Supply **DRH-120** series



Features :

- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- · Fixed switching frequency at 70KHz
- 3 years warranty

SPECIFICATION

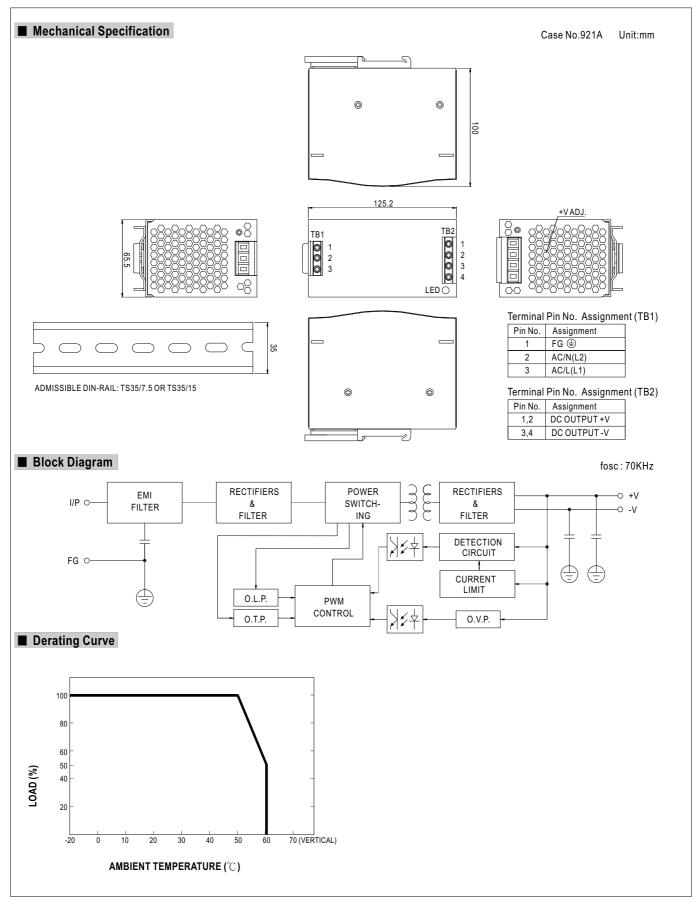
MODEL		DRH-120-24	DRH-120-48			
	DC VOLTAGE	24V	48V			
	RATED CURRENT	5A	2.5A			
	CURRENT RANGE	0~5A	0~2.5A			
	RATED POWER	120W	120W			
OUTPUT	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p			
OUTPUT	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V			
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%			
	LOAD REGULATION	±0.5%	±0.5%			
	SETUP, RISE, HOLD UP TIME	1700ms, 120ms, 16ms/400VAC 1000ms, 120ms, 30ms/500VAC at full load				
	VOLTAGE RANGE	340 ~ 550VAC 480 ~ 780VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	85%	86%			
INPUT	AC CURRENT	0.65A/400VAC 0.6A/500VAC				
	INRUSH CURRENT (max.)	COLD START 50A				
	LEAKAGE CURRENT	<3.5mA / 530VAC				
		105 ~ 160% rated output power				
	OVERLOAD	Protection type : Constant current limiting, recovers automatically after fault condition is removed				
	OVER VOLTAGE	30~36V	59 ~ 66V			
PROTECTION		Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	85°C ±5°C (TSW) detect on heatsink of power switch				
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down				
	WORKING TEMP.	$-20 \sim +60^{\circ}$ (Refer to output load derating curve)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting clip: Compliance to IEC60068-2-6				
	SAFETY STANDARDS	UL60950-1 approved, IEC60950-1 CB approved by SIQ				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC				
(Note 4)	EMI CONDUCTION & RADIATION					
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3, EN61000-6-2 (EN50082-2), heavy industry level, criteria A				
OTHERS	MTBF	178.7Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	65.5*125.2*100mm (W*H*D)				
	PACKING	0.75Kg; 20pcs/16Kg/1.29CUFT				
NOTE	 All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 					





120W Single Output Industrial DIN RAIL Power Supply

DRH-120 series



F_T•N

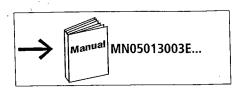
Installation Instructions Instrucciones de montaje Notice d'installation Montageanweisung Istruzioni per il montaggio

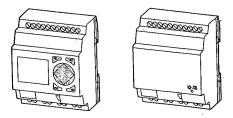


out the following operations.

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EZ719-DC-RCX





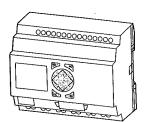


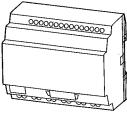
Only skilled or instructed persons may carry

las normativas/especificaciones a nivel local. **Tension électrique dangereuse !** Seules les personnes qualifiées et averties doivent exécuter les travaux ciraprès. Les blocs d'alimentation sont des appareils faisant partie intégrante d'une installation. Yeuillez respecter les normes de mise en reuvre spécifiques aux différents pays.

Lebensgefahr durch elektrischen Strom! Nur Elektrofachkräfte und elektrofechnisch unterwiesene Personen dürfen die im Folgenden beschriebenen Arbeiten ausführen. Die Stromversorgungsgeräte sind Einbaugeräte. Beachten Sie für die Installation der Geräte die Jänderspezifischen Vorschriften.

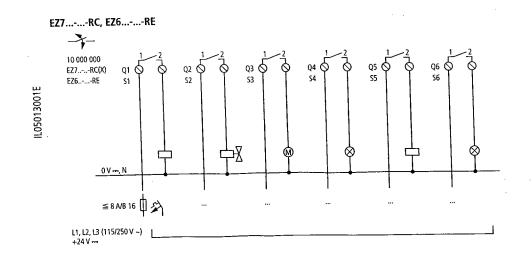
Tensione elettrica: Pericolo di morte! Solo persone abilitate e qualificate possono eseguire le operazioni di seguito riportate. Gli alimentatori sono unità per montaggio interno. Per l'installazione degli apparecchi è necessario rispettare le normative specifiche di clascun paese.

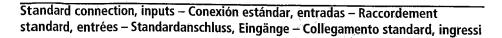


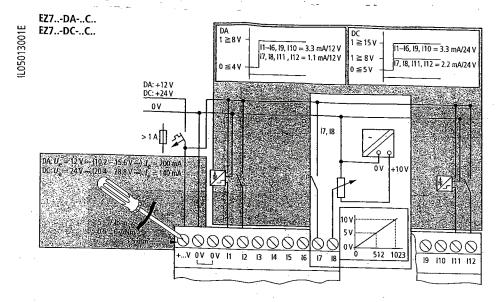


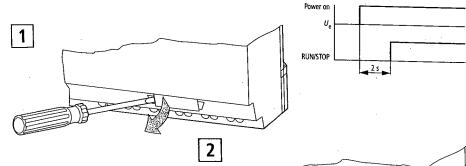
Standard connection, outputs – Conexión estándar, salidas – Raccordement standard, sorties – Standardanschluss, Ausgänge – Collegamento standard, uscite

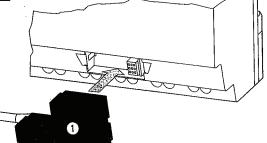
Relay outputs – Salidas con relé – Sorties à relais – Relais-Ausgänge – Uscite a relè











IL05013001E

3

EZ...-AC-...

2

When operating with 115/230 V keep interface closed!

1

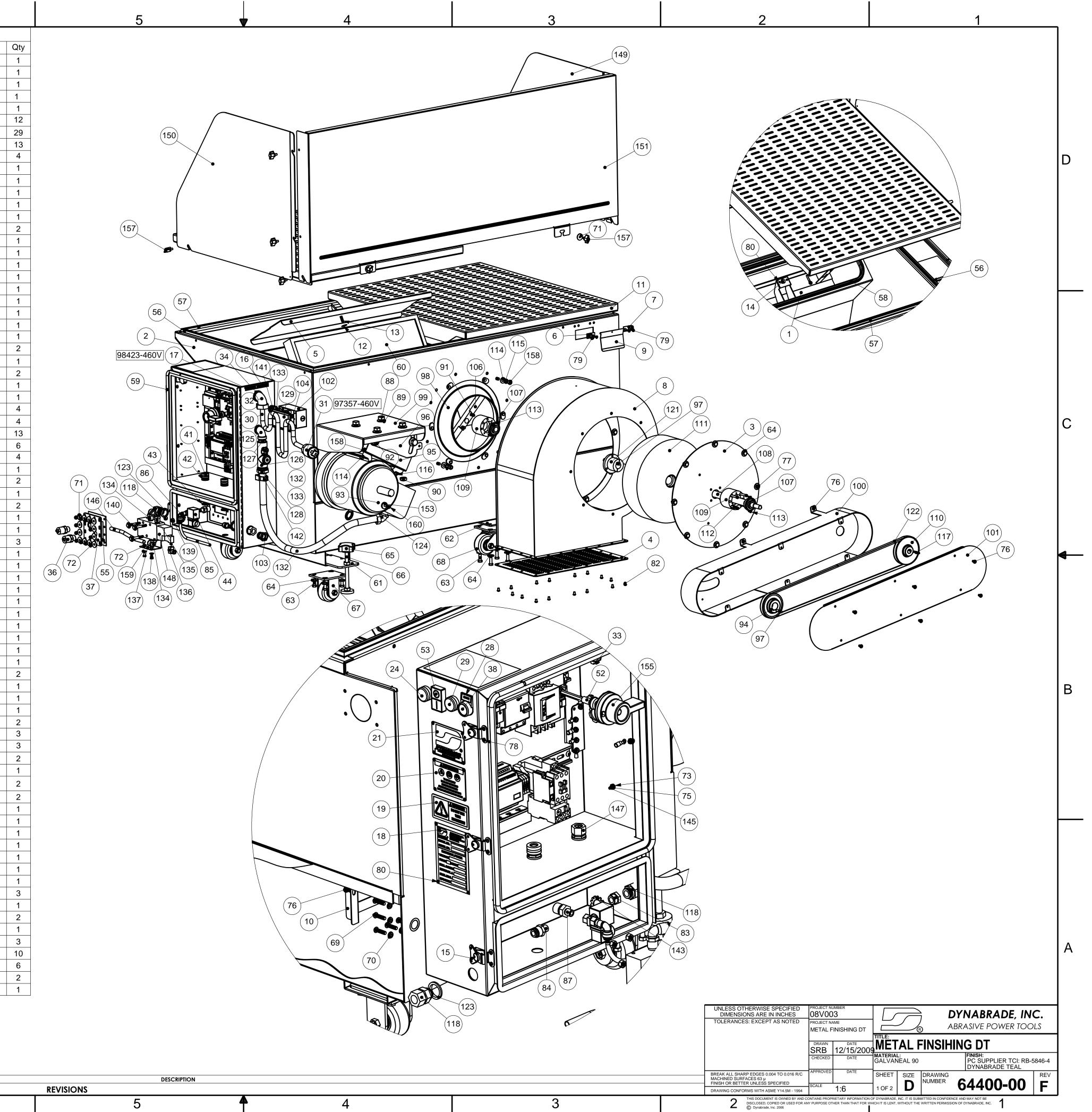
¡Mantener interface cerrado con accionamiento a 115/230.V!

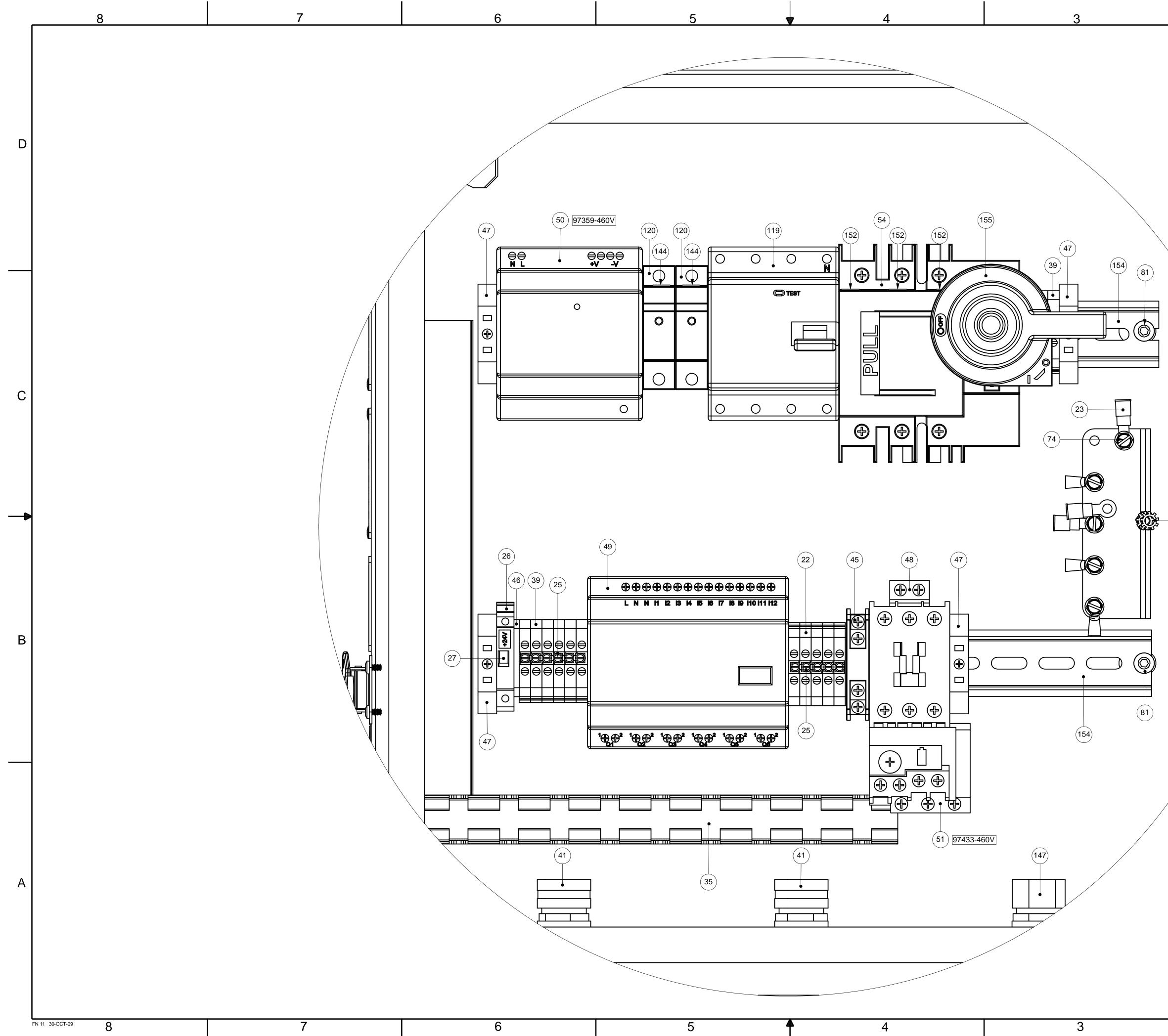
En cas de fonctionnement sous 115/230 V, s'assurer que l'emplacement destiné à la cartouche mémoire et au câble PC soit obturé afin d'éviter tout danger !

Schnittstelle bei Betrieb mit 115/230 V geschlossen halten!

Tenere chiusa l'interfaccia per il funzionamento con 115/230 V!

	8			7				6	6	
	BILL OF MATERIALS							BILL OF MATERIALS		
	ITEM		DESCRIPTIO		Qty	ITEM		DESCRIPTION	0	
D	1	64429	AIR FLOW BAF		2	83	97313	BULKHEAD, 1/4 NPT X 1/4 NPT		
	2 3	64411 64477	MAIN TANK WELD		1	84 85	68022 64430-01	QUICK CONNECT, 3/8 OD TUBE X 1/4" NPT 3/8 OD TUBE	+	
	4	64414	EXHAUST GR		1	86	97332	QUICK CONNECT 90°, 3/8 OD TUBE X 1/4" NPT	-	
	5	64417	ACCESS PANN		2	87	97333	REDUCER, 1/2 NPT MALE TO 1/4 NPT MALE		
	6	64418	MOUNTING CLIP,		1	88	98512	Hex Head Cap Screw 5/8"-11		
	7 8	64419 64412	MOUNTING CLIP, IMPELLER SCR		1	89 90	98514 97236	Flat Washer SAE, 5/8" Thin Hex Locknut Zinc-Plated, 5/8"-11 Thread		
	9	64420	HYD. RELEASE D		1	91	98516	Socket Head Cap Screw 3/8"-16 Thread, 1-1/4"		
	10	64421	SENSOR GUA	RD	1	92	98517	HHCS 5/8"-11 Thread, 8-1/2" Length		
	11	64422	REMOVABLE WORK		2	93	98934	X0032 EP MOTOR, 3HP, 3600 RPM	_	
	12 13	97194 97195	QUICK LOCK RET QUICK LOCK M		2 2	94 95	98932 64459	MOTOR PULLEY MOTOR MOUNT PLATE		
	13	97195	QUICK LOCK RECE		2	95	64455	MOTOR MOONT PLATE		
	15	97197	DRAW LATC		3	97	98511	.25 X .25 X 1.25 SQ.KEY		
	16	98426	ADHESIVE LABEL, 3	3 PHASE	1	98	98929	IMPELLER INLET RING		
	17	98422	ADHESIVE LABEL, 2		1	99	64454			
	18 19	65059 97102	DESCRIPTIVE PLATE, ELE WARNING LABEL, MA		1	100	64460 64476	PULLEY GUARD PULLEY GUARD COVER		
	20	64930	WARNING LABEL, EYE F		1	101	68015	WEATHERPROOF J-BOX, SINGLE DEVICE		
	21	66084	DESCRIPTION PLATE, CC		1	103	97360	3/4" FEMALE GHT TO 1/4" MALE NPT SWIVEL		
	22	97201	DIN TERMINAL BLOC	K, WHITE	5	104	98518	PRESSURE SWITCH		
	23	98609			3	105	98700	STRAIN RELIEF		
	24 25	97351 97190	22MM PILOT LIGHT	, GREEN	1	106	64399 98931	Lower Bearing Arm ER Bearing	+	
	26	97180	FUSE BLOCK, 24V/IN	DICATOR	1	108	64439	1" Drive Shaft		
	27	97183	250v, 5MM X 20 MM FAST AC	TING FUSE, 250V	1	109	64499	BEARING SUPPORT HUB	-	
	28	97193	Switch Label Plate, "		1	110	98933	DRIVE PULLEY		
	29	97186	PILOT LIGH		1	111	98928 98520	IMPELLER SHCS 1/4"-20 Thread, 1-1/4" Length	+	
0	30 31	97352 97185	CORD, 12/4 SEC TURN-LOCK DEVICE NEMA L15-	-20, MALE PLUG, 250	1	112	96520	10-32 x 1/2" BHSCS		
С	32	97353	VAC, 20 Am 90 DEGREE ELE	p	1	114	95183	5/16 WASHER	+	
	33	97353	1/2" LOCK NU		1	115	95044	3/8 LOCK WASHER		
	34	97356	1/2" SEALING R		1	116	98521	HHCS 3/8"-16 Thread, 1-1/2" Length		
	35	97189	WIRE RACEWAY	1	2	117	97460 98522	CHAMFER KEY Through-Wall Cplg for 1/2" Tube OD X 1/2" NPT	_	
	36	97200	Liquid Level Ser		2	119	98527	RESIDUAL CURRENT DEVICE		
	37	64427 97187	SENSOR PLA PB, 22MM, PLASTIC, YEL, LED II		1	120	97367	FUSE HOLDER		
	38 39	97187	DIN TERMINAL BLOC		9	121	98930	SPLIT TAPER BUSHING		
	40	97202	RUBBER WASH		9 1	122	98935	PULLEY BELT	_	
	41	98701	.187312 ALUM. STRA		2	123 124	98936 98943	1/2" SEALING RING 45 DEGREE ELBOW		
	42	98751	1/2" SEALING R		5	124	98937	90 DEGREE ELBOW		
	43	98746	1/2" LOCK NU		4	126	98938	ENY SEALING FITTING		
	44 45	97385 97391	SOLENOID VAI AUXILARY CON		1	127	98939	3/4 x 1 3/8" NPT NIPPLE		
	46	97390	END CAP		3	128	98942	Liquid Tight Conduit Fitting, Straight	_	
	47	97205	DIN RAIL STO)P	5	129 130	98519 98941	SINGLE DEVICE COVER DAM PACKING FIBER		
	48	97393	MOTOR CONT/		1	131	98940	SEALING COMPOUND		
	49 50	97394 97395	SMART RELA DR-60 TRANSFO		1	132	98944	3/4" CONDUIT		
	50	97395	OVERLOAD RE		1	133	98403	1/2" CONDUIT		
П	52	97398	DISCONNECT A	ARM	1	134 135	98534 98533	.50 NPT QUICK CONNECT, 90 DEG SWIV. .50 NPT BREATHER VENT		
В	53	97188	PB, 22mm, PLASTIC, 2-WAY, W/ N.C	SYMBOLS, 1 N.O., 1	1	135	98525	COIL CONNECTOR		
	54	97219	FUSED DISCONI		1	137	64388	BRACKET		
	55	64428	SENSOR PLATE, C		1	138	95206	3/8-16 x 5/8" HEX HEAD BOLT, ZINC		
	56 57	97233 97232	WORK SURF GASKE WORK SURF GASKE		2 2	139	97127	Nylon-Insert Hex Locknut 5/16"-24		
	58	97235	ACCESS PANEL G	,	2	140 141	97033 98725	Hex Head Cap Screw 5/16"-24 Thread, 2-1/4" 1/2" STRAIGHT CONDUIT CONNECT	+	
	59	97199	CONTROL BOX G	ASKET	1	141	97426	CONDUIT MOUNT, CLIC	+	
	60	64423	MIST TRAP		2	143	97429	External-Tooth Lock Washer 1"	\uparrow	
	61 62	64415 64416	CASTER MOUNTING PLAT	,	2	144	97366	FUSE	\square	
	62 63	95208	3/8-16 x 1" HEX HEA		∠ 16	145	97379	10-32 x 3/4" BHSCS		
	64	95043	3/8 FLAT WASHEF		38	146	97361 97430	1/2" AIR LINE .187312 ALUM. STRAIN RELIEF	+	
	65	97300	LOCK DOWN COMFORT GR		2	147	97430	3-WAY SOLENOID VALVE	+	
	66	97299	BOLT DOWN SWIVE		2	149	64496	LEFT SIDE SHIELD		
	67 68	97297 97298	RIGID CASTE SWIVEL CAST		2 2	150	64497	RIGHT SIDE SHIELD	\square	
	69	97298	1/4-20 X 1" BHS		2 12	151	64498	BACK SHIELD	+	
	70	97372	#14 WASHER/ NEOPREI	NE BACKING	12	152 153	97178 64920	600V, 20A, CLASS EDCC BUMPER	+	
A	71	97314	.281 ID X 1" OD X .080 THK F		14	153	97392	35mm DIN RAIL	+	
	72	97381	1/4-20 SS LOCK		14	155	97399	DISCONNECT LEVER		
	73 74	97325 98620	#10 External Star V 10-32 x 3/8" HEX HEA		13 5	156	98611		\downarrow	
	74	97213	10-32 x 3/8" HEX HEAD SCREW 10-32 HEX NUT		7	157	64961 07217	ASSY KNOBS- REID# DK-127 (OPT.)	+-	
	76	97192	1/4-20 x 1/2" BHMS/INTERNAL LOCK WASHER		17	158 159	97217 95935	3/8" HEX NUT 1/4" WASHER	+	
	77	95182	3/8-16 x 5/8" HEX HEAD	,	22	160	95186	1/4-20 HEX NUT	+	
	78 79	97303 97239			12 4					
	80	97239			4 16					
	81	97307	1/4-20 x 1/4" BH		4					
	82	97146	1/4-20 x 3/8" B⊦	ICS	16					
	F	ECN	I DATE DRW CHK'D	APPR						
	FN 11 30	-OCT-09	8		7			6		





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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: EXCEPT AS NOTED	PROJECT NUMBER 08V003 PROJECT NAME METAL FINISHING DT DRAWN DATE		DYNABRADE, INC. ABRASIVE POWER TOOLS	
BREAK ALL SHARP EDGES 0.004 TO 0.016 R/C MACHINED SURFACES 63 µ FINISH OR BETTER UNLESS SPECIFIED DRAWING CONFORMS WITH ASME Y14.5M - 1994 THIS DOCUMENT IS OWNED BY AND DISCLOSED, COPIED OR USED FOR © Dynabrade, Inc. 2006	SRB 12/15/200 CHECKED DATE APPROVED DATE	GALVANEAL 90 SHEET SIZE DR. 2 OF 2 D NU	AWING MBER 64400-00	6-4 REV