

installation instructions

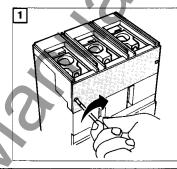
cable connection

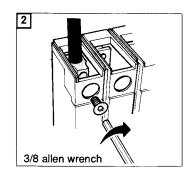
cable range

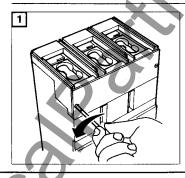
- rating 400A:
- □ 1 cable 2/0 AWG 600 MCM Cu
- □ 1 cable 4/0 AWG 500 MCM Al
- rating 600A:
- ☐ 1 cable 2/0 AWG to 500 MCM Cu
- ☐ 1 to 2 cables 2/0 AWG to 350 MCM Cu
- □ 1 to 2 cables 4/0 AWG to 500 MCM AI.
- 1 remove front terminal cover (line side only)
- 2 connect first cable to pressure terminals and tighten it
- 3 connect second cable if any and tighten it to 375 lb.in.
 Replace front terminal cover.

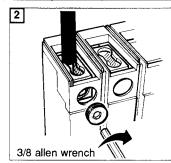
strip length

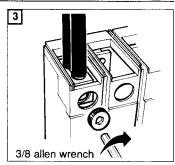








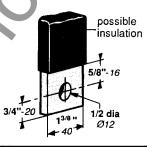


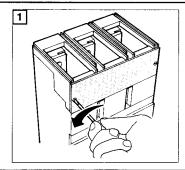


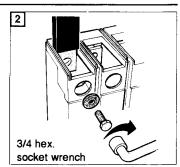
bus bar connection

- 1 remove front terminal cover
- 2 connect bars to terminals and tighten to 275 lb.in and replace front terminal cover (line side only 9 lb.in).

drilling of the bars

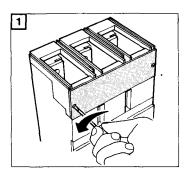


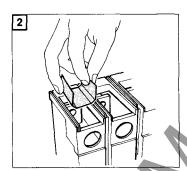


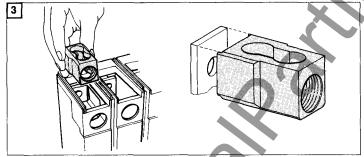


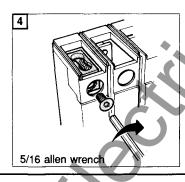
modification from bus bar to cable termination

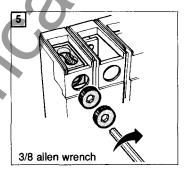
- 1 remove front cover (line side only)
- 2 slide the brown U-shaped shield down into the cavity (line side only)
- 3 place terminals in breaker.
 caution: place the terminal as
 indicated with the chamfered edge
 facing the outer side of the
 breaker
- 4 tighten flat head mounting screws to 275 lb.in
- 5 install the two binding screws
- 6 replace front cover (line side only).

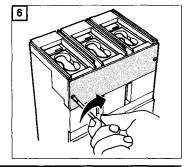














accessories

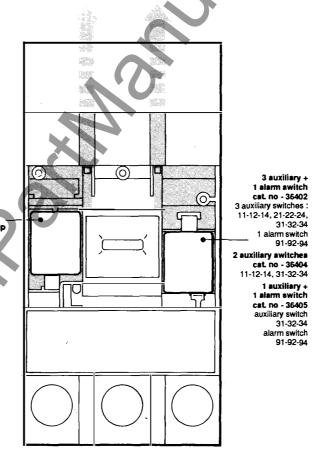
location of electrical accessories on fixed mounting circuit breakers

internal gutters

→ possible wire exits

knock outs break only those required depending on the desired direction of wiring

> shunt trip terminal C1-C2 undervoltage trip terminal D1-D2



6

accessories location of terminal number on secondary disconnects of plug-in circuit breakers (cont'd) auxiliary switch under-voltage D1D4 shunt trip 0

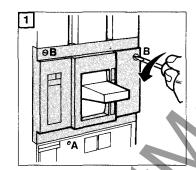
shunt trip undervoltage trip device

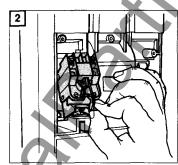
1 ensure that breaker is discharged or trip it by pushing the red trip button **A**.

Remove the screws **B** and open front cover

2 shunt trip and undervoltage trip must be installed in left side ONLY

3 slide the upper side of the accessory below the plastic hook in such a position that you have the wire fixing screws facing you. Push down the lower side straight down until it is latched by the leaf spring.



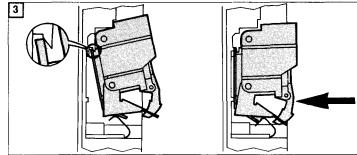


electrical data shunt trip

catalog	voltage		inrush
number			current
36437	60Hz	120V	2.5A
36446		240V	0.3A
36446		480V	0.5A
36447		600V	1A
36434	DC	12V	3.8A
36435		24V	11A
36436		48V	5.5A
36437		125V	2.5A

undervoltage trip

voltag	je	sealed-in current
60Hz	120V	0.050A
	240V	0.020A
	480V	0.014A
	600V	0.010A
DC	24V	0.037A
	48V	0.022A
	125V	0.014A
	60Hz	480V 600V DC 24V 48V





- 4 electrical check note: if the breaker is not to be connected jump to step 7
- 5 connect wire leads to auxiliary terminals
- 6 knock out one of the precut grooves depending on the desired direction of wiring
- 7 replace the front cover, making sure the wire leads are properly installed in the grooves and will not be pinched by the cover
- 8 add accessory identification and wiring label to left side of the circuit breaker.

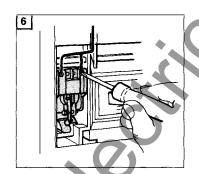
5 shunt trip

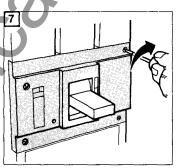
- a reset and turn circuit breaker ON
- **b** attach test circuit to C1 and C2 terminals
- c energize shunt trio device at 55% (AC) or 75% (DC) of the rated name plate voltage. The circuit breaker should trip

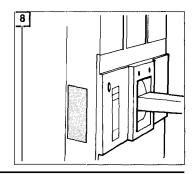
undervoltage trip

- a breaker in TRIPPED position
- **b** attach test circuit to D1 and
- D4 terminals
- **c** energize undervoltage trip device at 85% of the marked rated voltage
- d reset and turn circuit breaker ON
- e turn test voltage OFF. The circuit breaker should trip

shunt trip undervoltage trip D1 control voltage voltage aux. wiring terminal control voltage button

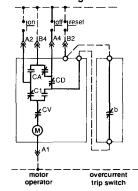






motor operator

1 connect wire leads to terminals according to the schematic diagram below:



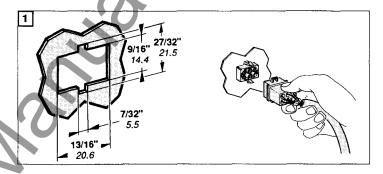
note: schematic diagram using resetting push-button for remote resetting. For other diagrams refer to technical manual.

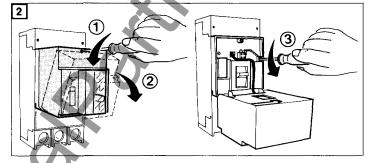
caution: control diagram shall be designed to interlock remote on and off orders.

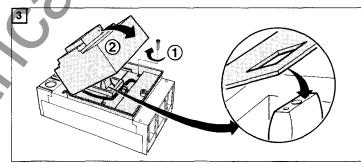
- and auxiliary switches can be field installed afterwards. Installation requires to remove the motor operator from the breaker:
- 1 unscrew the fixing screw
- 2 -rock the mechanism
- 3 unscrew the 2 fixing screws
- 4 see page 6 for installing internal accessories.

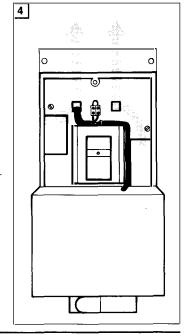
3 replace the motor operator.
caution: operate up and down
the manual operating handle to
engage the fork around the toggle.

4 route the accessory wire leads through the window.









settings

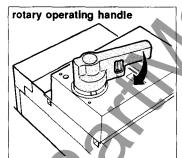
The values of settings of current and time delay shall be determined after analysis of the power system.

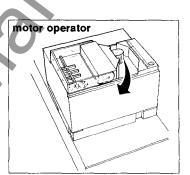
After trip unit rotary switches have been adjusted to the proper settings, make sure to replace the trip unit transparent cover keeping an access to RESET push button. Refer to main technical manual for characteristics and time-current curves.

resetting

caution: in case of tripping due to overcurrent or ground fault, the fault must be cleared before any attempt of resetting.





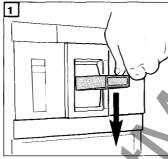


padlocking

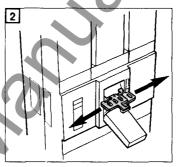
padlocking of :	cat. no.
handle	44936
motor operator	standard

accomodates up to four padlocks skackle diameter: 1/4 to 5/16" dia.

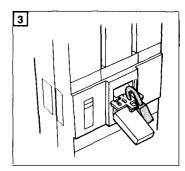
handle



1 open the circuit breaker and insert the adaptor into the slot

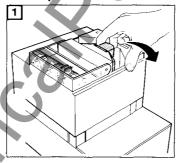


2 extend the two parts making sure that the circuit breaker is properly locked

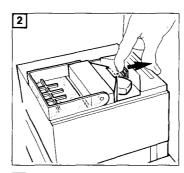


3 insert one to four padlocks

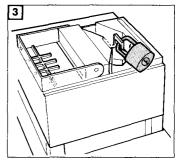
motor operator



1 open the front transparent cover and turn the breaker OFF



2 pull the built-in padlocking device



3 insert one to four padlocks

padlocking (cont'd)

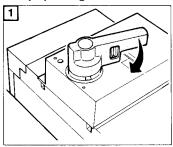
Mounted on the breaker or on a door, it accomodates as standard up to three padlocks to lock the handle in the OFF position. However, a knockout tab can be removed to allow the locking of the handle in the ON position

(3 to 6)

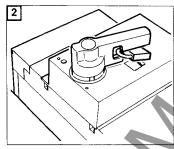
note: due to the trip free mechanism padlocking in such a position will not prevent the circuit breaker from tripping under overcurrent conditions. The handle will continue to indicate ON.

In the third position (6) of padlocking the handle passes beyond the possible door cutout enabling to padlock in the same time the door and the breaker.

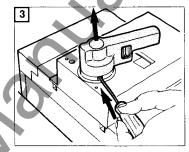
rotary operating handle



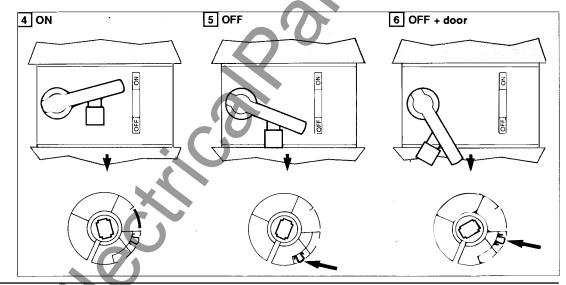
1 open the circuit breaker and push the padlocking device



2 insert one to three padlocks skackle diameter: 1/4 to 5/16



3 modification of the way of padlocking (ON or OFF) requires to remove the handle



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