Installation Instruction

FLANGE MOUNTED, OPERATING HANDLE (FHU ACW250)

- Read the instruction manual and safety precautions before use products.
- This manual should be given to the person who use products and

SAFETY PRECAUTIONS

- Before installation, wiring, operation, maintenance or inspection of the device, be sure to read the warning message carefully and ensurance of proper operation.
- Please follow the instructions, because they are very important.

* In this instruction, level of danger is classified by

⚠ DANGER It may result in death or serious injury.
⚠ CAUTION It may result in injury or physical damage.

⚠ DANGER

* Turn off the power before starting mounting, dismounting, wiring, maintenance or inspection.
  Failure to do may result in electric shocks and burns.

⚠ CAUTION

1. Do not use deformed or damaged MCCB or operation handle.
2. Mounting, removal, wiring, maintenance and checking should be done by authorized or certified engineer.
3. Operation handle should not be used in severe environment such as high temperature, humidity, dusty, corrosive gas and excessive vibration.
4. Mounting should be done according to the instruction manual. Mistakes on mounting may be a cause for a MCCB and

1. INSTALLATION INSTRUCTION

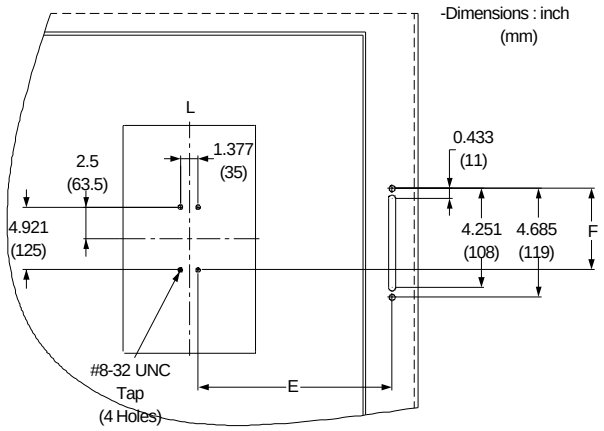
1. Turn off and lock out all power supplying the circuit breaker and all other equipment within the enclosure before installing.
2. Determine mounting location for the handle and circuit breaker. See Figure. 1 and Tables 1 and 2.
3. The handle can be mounted on right hand flange type enclosures.
4. A latch is provided for applications where no interlocking door latch mechanism is provided.

NOTE : THE MINIMUM BEND RADIUS FOR THE CABLE IS THREE& ONE-HALF(3-1/2)INCHES. The handle can be mounted right hand flange type enclosures. Tables 1 and 2 and Figure. 2 show the mounting range of the Breaker within the enclosure. Prepare the mounting holes for the handle and

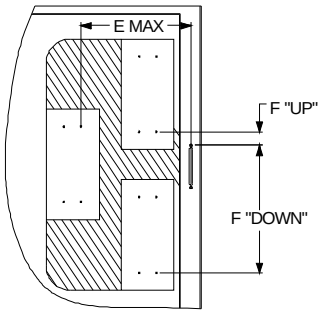
2. HANDLE INSTALLATION-See Figures 3 and 4.

1. Secure O-RING into groove of handle assembly and mount handle assembly and frame assembly to the enclosure flange using the two M6X18 (+)PH, P/W screws. Tighten screws to 75 in-lbs.
2. Place the PLATE FLANGE LINK onto the LINK CONNECTION PIN and secure with the E-ring, D8.
3. Attach the PLATE LOCK LINK to the PLATE LOCK FLANGE using the M6X10 screw. Tighten nuts to 25 in-lbs.
4. Close the enclosure door. This should release the PLATE LOCK LINK allowing the handle to be turned ON. If the handle cannot be turned ON, adjust PLATE HOOK LOCK downward in its slot and repeat.
5. Turn handle ON and attempt to open door. The PLATE LOCK LINK should hold the door closed. If the door can be opened, readjust the PLATE HOOK LOCK upward in its slot. Repeat steps 3 and 4 to insure

Figure. 1 and 2 show the location of the handle and door catch when mounted on the enclosure.



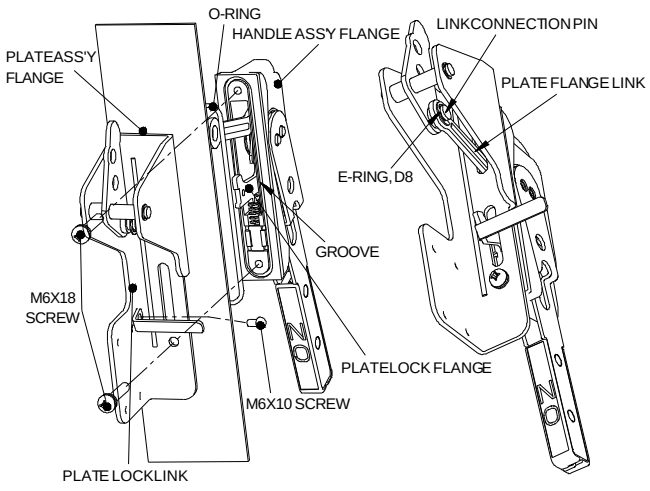
<Fig. 1>



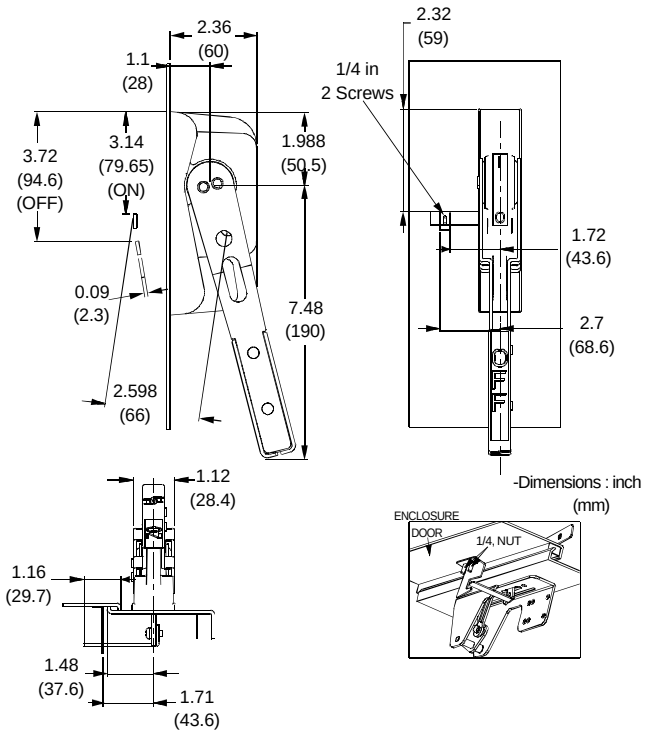
<Fig. 2>

TABLE1	MAXIMUM "E" DIMENSION	
ENCLOSURE DEPTH	FHU-60	FHU-72
10	25	30
12	24	29
16	23	28
18	22	27
20	21	26
24	20	25
30	19	24
36	18	23

TABLE2	MAXIMUM "F" DIMENSION			
ENCLOSURE DEPTH	62 cable		72 cable	
	UP	DOWN	UP	DOWN
10	17	31	20	34
12	17	31	19	33
16	17	28	19	30
18	17	28	19	30
20	16	26	18	28
24	14	26	16	28
30	11	24	13	26
36	6	21	8	22



<Fig. 3>



<Fig. 4>

3. BREAKER AND BREAKER OPERATOR INSTALLATION-See Figure. 5

1. Turn the circuit breaker ON.
2. Attach the circuit breaker and PLATE ASS'Y,BASE FHU to the enclosure panel using four NO.8-32 UNC mounting screws are used to attach the circuit breaker at the lower mounting holes. tighten to 150in-lbs.

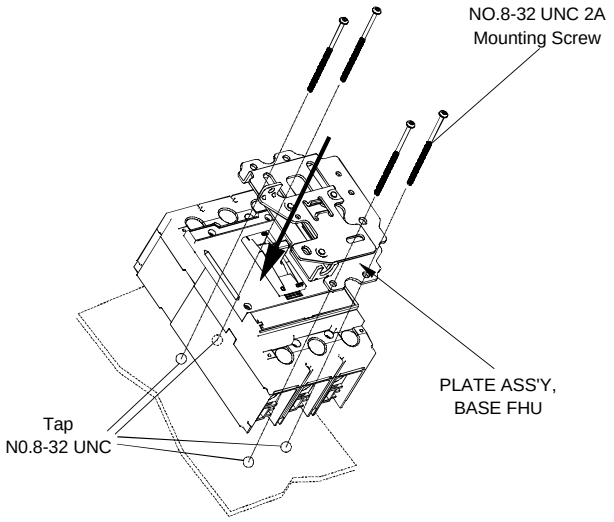
* DANGER- Confirm that suppling power has been turned off.
* CAUTION-DON'T PUSH TRIP BUTTON WITH FINGERS.

4. CABLE INSTALLATION - See Figure. 6

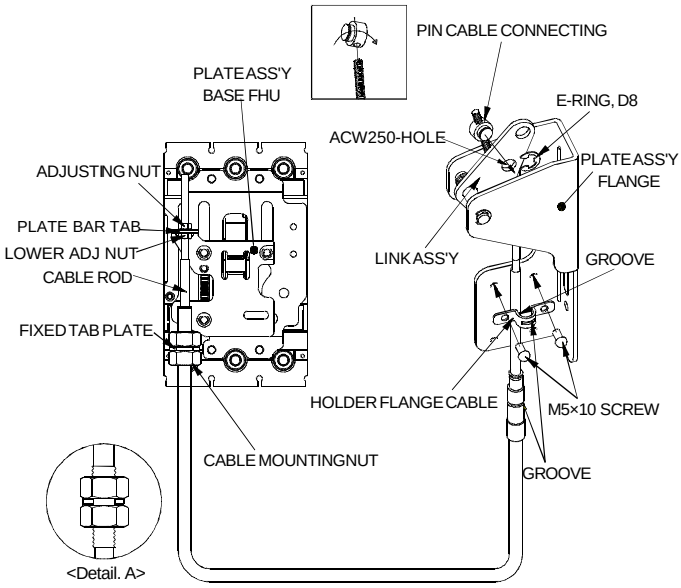
1. Secure cable to PLATE ASS'Y FLANGE with HOLDER FLANGE CABLE using M5X10 screws. Tighten screws to 75 in-lbs. into HOLDER FLANGE CABLE, it must interlock with groove in cable.
2. Move handle to OFF position and pull cable to it's maximum stroke Shim cable connecting and attach into hole of LINK ASS'Y.
   Secure with E-ring.
3. Attach output end of cable to PLATE ASS'Y BASE FHU.

NOTE: To ensure proper adjustment and to prevent possible damage to the operator, Follow the remaining steps carefully.

4. Move the handle to it's maximum ON position.
5. Adjust the top cable mounting nut to M12 from start of cable thread as shown in Detail A.
6. Insert the output end of the cable rod through the hole in the PLATE BAR TAB And place the cable mounting threads into the slotted FIXED TAB PLATE of the PLATE ASS'Y BASE FHU. Tighten cable mounting nut(M12) and adjustment nut(M5) until the cable is secured



<Fig. 5>



<Fig. 6>

5. CABLE ADJUSTMENT

1. Check that the circuit breaker turns OFF and ON by moving the operating handle If the circuit breaker does not turn ON, loosen the adjusting nut and tighten lower adj nut at PLATE BAR TAB.
   Repeat if required.
2. Turn the circuit breaker ON and trip the circuit breaker by pushing the "trip" button
3. If the circuit breaker does not turn reset, loose the lower adj nut and tighten adjusting nut at PLATE BAR TAB.
   Repeat if required.

* DANGER- Confirm that suppling power has been turned off.
* CAUTION-DON'T PUSH TRIP BUTTON WITH FINGERS.