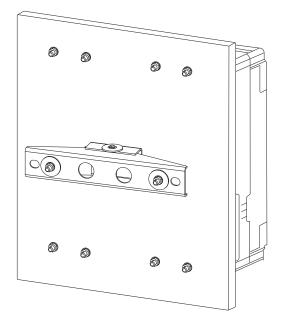
Installation Instructions for the Walking Beam Interlock for PD5 Circuit Breakers and Molded Case Switches, Catalog No. PDG5XWBI34P



Contents

Description		age
1.	Introduction	2
2.	Installation	2
З.	Adjustment	3







DO NOT ATTEMPT TO INSTALL OR PERFORM MAIN-TENANCE ON EQUIPMENT WHILE IT IS ENERGIZED. DEATH, SEVERE PERSONAL INJURY, OR SUBSTAN-TIAL PROPERTY DAMAGE CAN RESULT FROM CON-TACT WITH ENERGIZED EQUIPMENT. ALWAYS VERIFY THAT NO VOLTAGE IS PRESENT BEFORE PROCEEDING WITH THE TASK, AND ALWAYS FOL-LOW GENERALLY ACCEPTED SAFETY PROCE-DURES.

EATON IS NOT LIABLE FOR THE MISAPPLICATION OR MISINSTALLATION OF ITS PRODUCTS.

The user is cautioned to observe all recommendations, warnings, and cautions relating to the safety of personnel and equipment as well as all general and local health and safety laws, codes, and procedures.

The recommendations and information contained herein are based on Eaton experience and judgement, but should not be considered to be all-inclusive or covering every application or circumstance which may arise. If any questions arise, contact Eaton for further information or instructions.

1. Introduction

General Information

The walking beam interlock (Fig. 1-1) provides mechanical interlocking between two adjacent circuit breakers of the same pole configuration to prevent both circuit breakers from being turned "ON" at the same time. The walking beam interlock assembly is bolted to the rear of a customer-supplied mounting panel. The circuit breakers are then secured to the mounting panel with plungers inserted through access holes in the mounting panel and base of each circuit breaker. The plungers are attached to each end of the beam assembly and may require adjustment to suit variations in the panel thickness being used. Customer-supplied mounting panels of one inch thickness are recommended for use with the walking beam interlock.

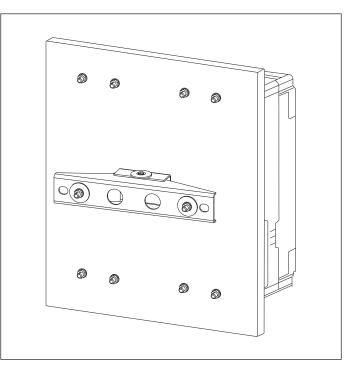


Fig. 1-1. Walking Beam Interlock Installed Between Two 3-Pole PD5-Frame Series C Circuit Breakers.

Note: Factory modified circuit breakers must be ordered to install the walking beam interlock.

This instruction leaflet (IL) gives detailed procedures for installing the walking beam interlock.

2. Installation

The walking beam interlock must be mounted before the circuit breakers are connected to an electrical system. Installation consists of drilling mounting panel to accept circuit breakers and walking beam assembly, securing circuit breakers to mounting surface, and installing walking beam. To install the walking beam interlock, perform the following steps.

Installation Instructions for the Walking Beam Interlock for PD5 Circuit Breakers and Molded Case Switches, Catalog No. PDG5XWBI34P

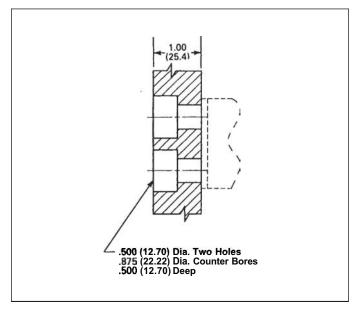


Fig. 2-1. Hole Sizes for Installing Walking Beam Mounting Bracket.



BEFORE ATTEMPTING ANY WORK ON CIRCUIT BREAKERS INSTALLED IN AN ELECTRICAL SYS-TEM, MAKE SURE THE CIRCUIT BREAKERS ARE SWITCHED TO THE OFF POSITION AND THAT THERE IS NO VOLTAGE PRESENT WHERE WORK IS TO BE PERFORMED. SPECIAL ATTENTION SHOULD BE PAID TO REVERSE FEED APPLICATIONS TO ENSURE NO VOLTAGE IS PRESENT. THE VOLTAGES IN ENERGIZED EQUIPMENT CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

- 2-1. Predrill circuit breaker mounting panel. Fig. 2-2 PD5-Frame, (3-pole) and Fig. 2-3 PD5, (4-pole) show mounting panel hole sizes and dimensions for PD5 circuit breaker configurations. Dimensions are in inches and (millimeters).
- 2-2. Assemble plunger and socket assemblies to the walking beam with 3/8-16 locknuts, lockwashers, and large washers provided. Make sure that the plunger pivot pins must be in line with center line of breaker as shown in Fig. 2-4.
- 2-3. Install the walking beam interlock assembly to back of customer-supplied mounting panel using two 3/8 x 1.0 in. (25.4 mm) long screws, lockwashers, flat washers, and nuts provided.

2-4. Mount circuit breakers to front surface of mounting panel using hardware supplied with the circuit breakers. Make sure that both circuit breakers are in the OFF position and the plunger access holes in the back of the circuit breakers line-up with and go over the plungers of the walking beam interlock.

3. Adjustment

The walking beam interlock must be adjusted before the circuit breakers are connected to an electrical system. All adjustments should be made at the installation as shown in Fig. 2-4. Carry out adjustment procedure as follows:

- 3-1. Turn one circuit breaker to the ON position and the other to the OFF position.
- 3-2. Adjust the 3/8-16 locknuts that hold plungers to beam to give 1/8-3/8 in. (3.2-9.5 mm) of free travel, making sure that the plunger pivot pins are correctly aligned with the breaker's centerline (Fig. 2-4).
- 3-3. Carry out a functional check as follows:
 - a. Begin with both breakers open ("OFF").
 - b. Turn one breaker "ON". Attempt to throw the other breaker "ON". It should NOT close.
 - c. Reverse the open and close operation to check that neither breaker can close as long as the other is "ON".
- 3-4. Connect circuit breakers electrically as required.

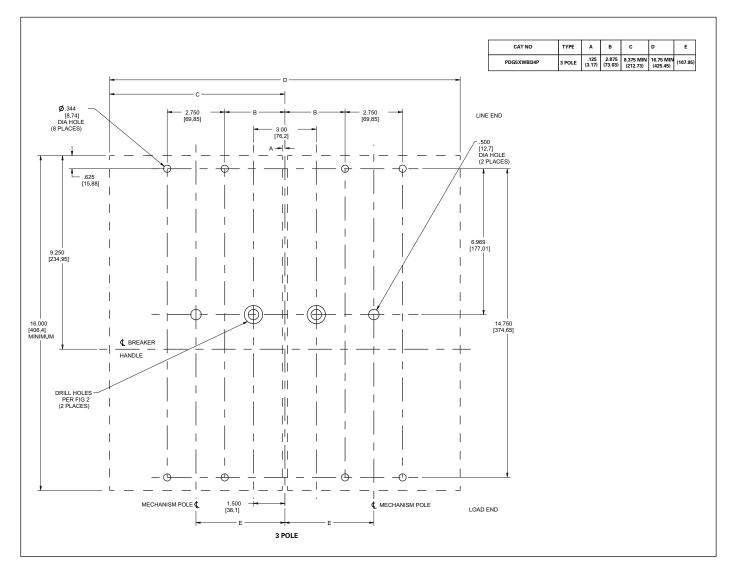


Fig. 2-2. PD5-Frame 3-Pole Circuit Breaker Mounting Panel Hole Sizes, and Dimensions.

Installation Instructions for the Walking Beam Interlock for PD5 Circuit Breakers and Molded Case Switches, Catalog No. PDG5XWBI34P

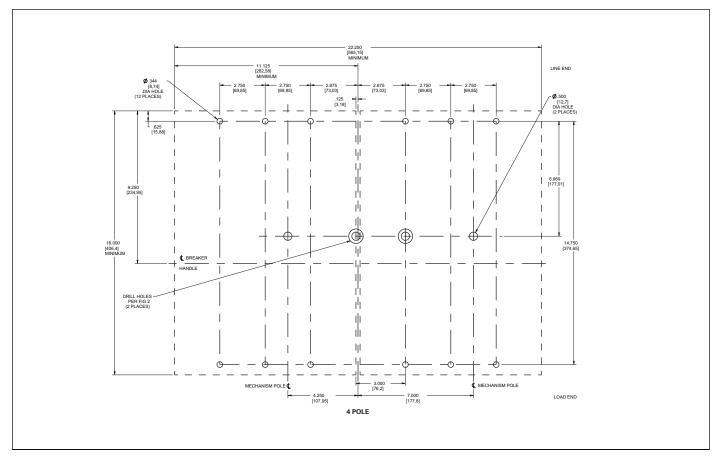


Fig. 2-3 PD5-Frame 4-Pole Circuit Breaker Mounting Panel Holes Sizes and Dimensions.

Installation Instructions for the Walking Beam Interlock for PD5 Circuit Breakers and Molded Case Switches, Catalog No. PDG5XWBI34P

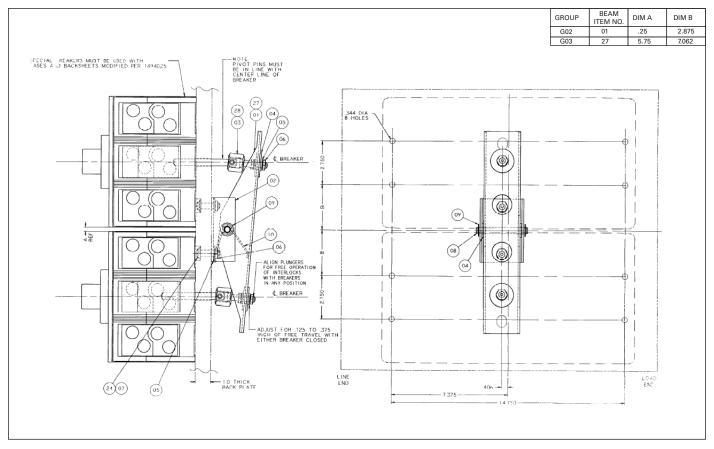


Fig. 2-4 Walking Beam Plunger Adjustment om 3-Pole PD5-Frame Circuit Breaker.

Instruction Leaflet IL012290EN

Installation Instructions for the Walking Beam Interlock for PD5 Circuit Breakers and Molded Case Switches, Catalog No. PDG5XWBI34P

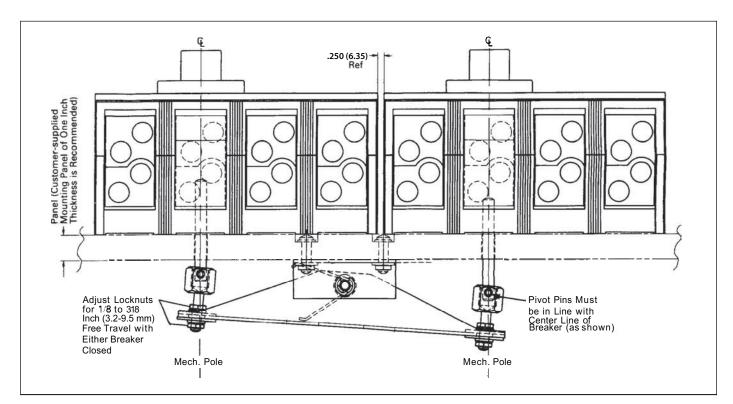


Fig. 2-5 Walking Beam Plunger Adjustment on 4-Pole PD5-Frame Circuit Breaker.

The instructions for installation, testing, maintenance, or repair herein are provided for the use of the product in general commercial applications and may not be appropriate for use in nuclear applications. Additional instructions may be available upon specific request to replace, amend, or supplement these instructions to qualify them for use with the product in safety-related applications in a nuclear facility.

This Instruction Booklet is published solely for information purposes and should not be considered all-inclusive. If further information is required, you should consult an authorized Eaton sales representative.

The sale of the product shown in this literature is subject to the terms and conditions outlined in appropriate Eaton selling policies or other contractual agreement between the parties. This literature is not intended to and does not enlarge or add to any such contract. The sole source governing the rights and remedies of any purchaser of this equipment is the contract between the purchaser and Eaton.

NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, OR WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, ARE MADE REGARDING THE INFORMATION, RECOMMENDATIONS, AND DESCRIPTIONS CONTAINED HEREIN.

In no event will Eaton be responsible to the purchaser or user in contract, in tort (including negligence), strict liability or otherwise for any special, indirect, incidental or consequential damage or loss whatsoever, including but not limited to damage or loss of use of equipment, plant or power system, cost of capital, loss of power, additional expenses in the use of existing power facilities, or claims against the purchaser or user by its customers resulting from the use of the information, recommendations and description contained herein. Installation Instructions for the Walking Beam Interlock for PD5 Circuit Breakers and Molded Case Switches, Catalog No. PDG5XWBI34P

Eaton Corporation

Electrical Sector 1000 Eaton Blvd Cleveland, OH 44122 United States 877-ETN-CARE (877-386-2273) Faton com

© 2011 Eaton Corporation All Rights Reserved Printed in USA Publication No. IL012290EN Part No. IL012290EN H01

Powering Business Worldwide

Eaton is a registered trademark of Eaton Corporation.

All other trademarks are property of their respective owners.