

Installation Guide

E87010-A0143-T003-A1-14PH

Class 14, Size 8 Starter

Cat. No. 14PHZ32AF

August, 2012

THESE INSTRUCTIONS DO NOT PURPORT TO COVER ALL DETAILS OR VARIATIONS IN EQUIPMENT, NOR TO PROVIDE FOR EVERY POSSIBLE CONTINGENCY TO BE MET IN CONNECTION WITH INSTALLATION, OPERATION OR MAINTENANCE. SHOULD FURTHER INFORMATION BE DESIRED OR SHOULD PARTICULAR PROBLEMS ARISE WHICH ARE NOT COVERED SUFFICIENTLY FOR THE PURCHASER'S PURPOSE, THE MATTER SHOULD BE REFERRED TO THE LOCAL SIEMENS SALES OFFICE.

THE CONTENTS OF THIS INSTRUCTION MANUAL SHALL NOT BECOME PART OF OR MODIFY ANY PRIOR OR EXISTING AGREEMENT, COMMITMENT OR RELATIONSHIP. THE SALES CONTRACT CONTAINS THE ENTIRE OBLIGATION OF SIEMENS. THE WARRANTY CONTAINED IN THE CONTRACT BETWEEN THE PARTIES IS THE SOLE WARRANTY OF SIEMENS. ANY STATEMENTS CONTINUED HEREIN DO NOT CREATE NEW WARRANTIES OR MODIFY THE EXISTING WARRANTY.

THIS EQUIPMENT CONTAINS HAZARDOUS VOLTAGES. DEATH, SERIOUS PERSONAL INJURY, OR PROPERTY DAMAGE CAN RESULT IF SAFETY INSTRUCTIONS ARE NOT FOLLOWED. ONLY QUALIFIED PERSONNEL SHOULD WORK ON OR AROUND THIS EQUIPMENT AFTER BECOMING THOROUGHLY FAMILIAR WITH ALL WARNINGS, SAFETY NOTICES, AND MAINTENANCE PROCEDURES CONTAINED HEREIN. THE SUCCESSFUL AND SAFE OPERATION OF THIS EQUIPMENT IS DEPENDENT UPON PROPER HANDLING, INSTALLATION OPERATION AND MAINTENANCE.

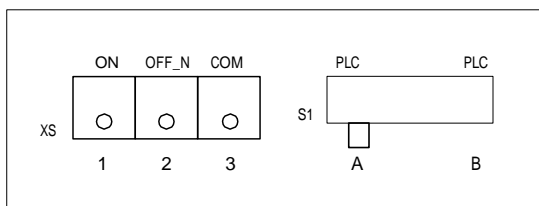
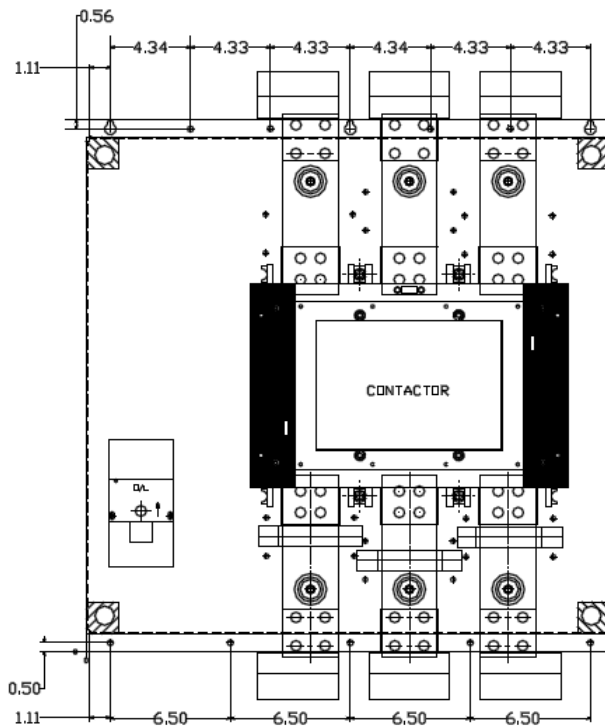
QUALIFIED PERSON

FOR THE PURPOSE OF THIS MANUAL AND PRODUCT LABELS, A QUALIFIED PERSON IS ONE WHO IS FAMILIAR WITH THE INSTALLATION, CONSTRUCTION AND OPERATION OF THE EQUIPMENT, AND THE HAZARD INVOLVED. IN ADDITION, HE OR SHE HAS THE FOLLOWING QUALIFICATIONS:

- Is trained and authorized to energize, de-energize, clear, ground and tag circuits and equipment in accordance with established safety practices.
- Is trained in the proper care and use of protective equipment such as rubber gloves, hard hat, safety glasses or face shields, flash clothing, etc., in accordance with established safety practices.
- Is trained in rendering first aid.

1 Mounting

Use 100 lb-in torque minimum on all bolts securing mounting panel. Use 5/16" bolts, fill all panel mounting holes with bolts.



Low Voltage Control Input

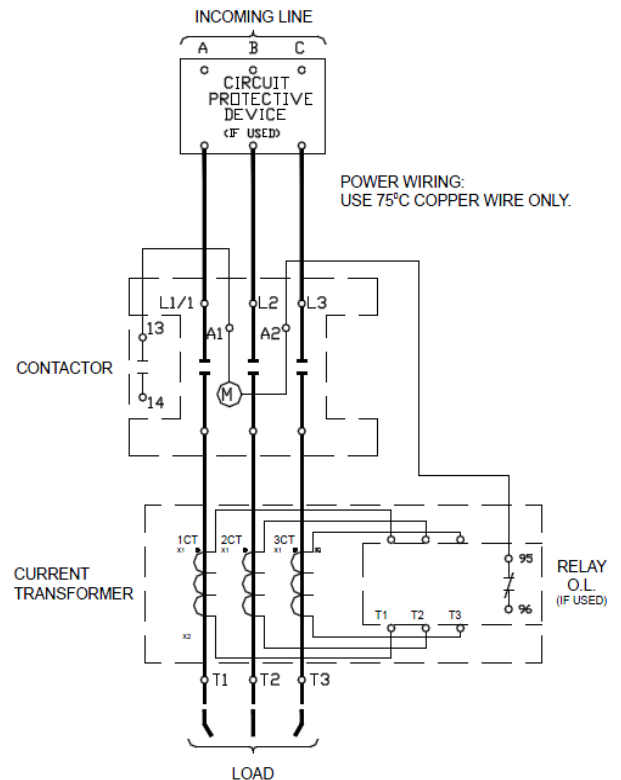
Refer to E87010-A0172-T003-A1-40PH for wiring details.

2 Wiring

⚠ DANGER

Hazardous voltage.
Will cause death or serious injury.

To avoid electrical shock or burn, turn off main and control voltages before performing installation or maintenance.



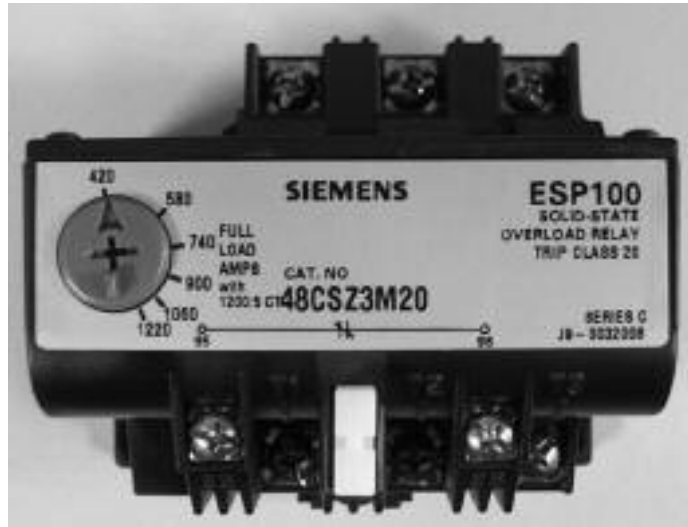
3 FLA Adjustment

Set the adjustment dial on the overload to the Full Load Amps on the motor nameplate.

In addition to the markings on the dial there are audible clicks which allow for extremely fine tuning. Note that while thermal overload relays require a heater selection based on a relatively wide ampere range, the ESP100 overload relay has many selections covering the same degree range.

After the correct Full Load Amps have been selected with the dial, the dial can be covered to prevent unwanted tampering with the setting.

If the ESP100 has windows: snap a cover (49ASTC) over the dial; you may also add an optional wire seal (not included). If ESP100 has terminals: pull the tab on the dial's gray cap with a pliers to remove the cap. To change the setting, first reinstall the cap by aligning its arrow with the line on the red disk, and push into place.



Troubleshooting

Hot Terminals	
Possible cause:	Loose wire connections
Action:	Clean connections and tighten to recommended torque.
Failure To Trip Out	
Possible cause:	Incorrect dial setting.
Action:	Readjust dial setting to the FLA on the motor nameplate.
Overload Trips	
Possible cause:	Motor is overloaded
Action:	Remove cause of overload and reset overload relay.
Possible cause:	Loss of phase
Action:	Replace burned-out fuse, or reconnect wire in missing phase.
Possible cause:	Dial setting is too low.
Action:	Readjust dial setting to the FLA on the motor nameplate

Replacement Parts List

Description	Part No.
Overload	48CSZ3M20
Current Transformer	97CT012

Refer to document E87010-A0172-T003-A1-40PH for information specific to the contactor.

Accessories

Safety Cover:

Custom transparent cover may be sealed with wire seal to prevent unauthorized tampering with FLA adjustment dial.

49ASTC
(Pkg. of 10)



Auxiliary Contact Block:

NO or NC block for ESP100 overload relays to signal remote alarms or other devices.

49ASNO
49ASNC



Reset Button Extender:

Permits use with Siemens MCC's and extra deep enclosures

49ASRE



Dust Seal:

For use in extremely dusty environments. Not to be used in conjunction with auxiliary contact blocks.

49ASDS

