



GE VERNOVA

UR Family

IP20 Cover

Installation Instructions

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1. Introduction

This document outlines how to install the IP20 protection cover on a GE Universal Relay (UR) device to yield an IP20 safety rating.

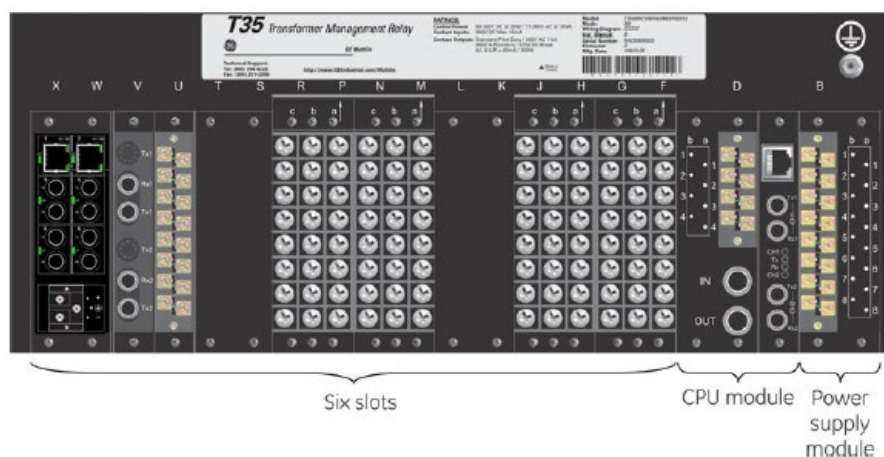
The IP20 cover minimizes potential danger to users by covering electrical wires at the back of a UR device. It prevents finger contact with the electrical connections. It meets international enclosure rating standards to the IP20 level.

The IP20 kit is an optional accessory sold with UR products. It includes brackets, cable ties, Lexan covers, and screws.

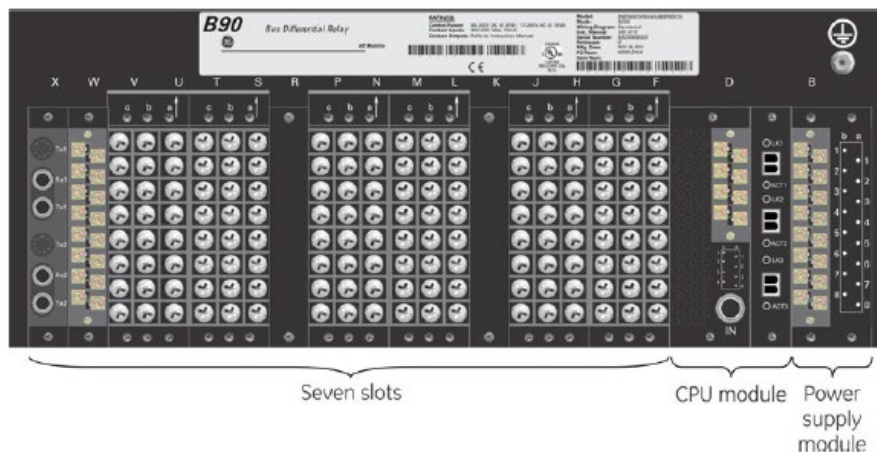
There are two variants. The use depends on the number of slots on the rear of the UR chassis, either six or seven.

- Six slots — C30, C60, C70, D30, D60, F35, F60, G30, G60, M60, N60, T35, T60
- Seven slots — B30, B90, L30, L60, L90

The following figures show examples of six and seven-slot devices.



Six-slot UR device rear view



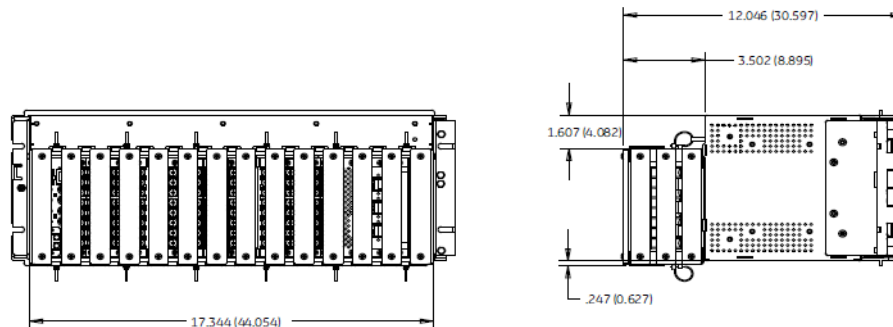
Seven-slot UR device rear view



The intent of the cover is to improve in-field use to reduce the likelihood of exposure to potential danger. The user is responsible for operating the equipment with caution and within end-product specifications. If parts are missing or defective, do not substitute others. Contact GE technical support.

2. Dimensions

The following figure shows the dimensions of the IP20 cover.



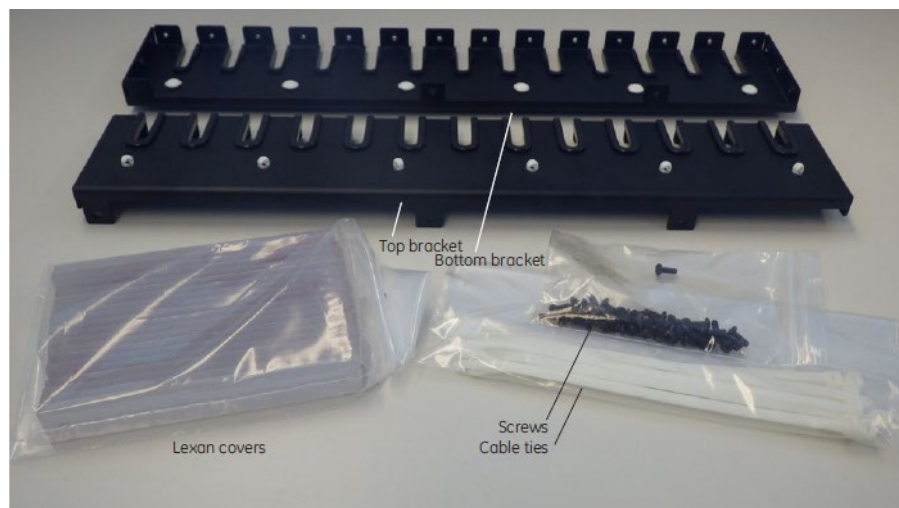
Dimensions in inches (centimeters)

3. Unpack and inspect

The table outlines the contents of the kits. Kits differ by the top and bottom brackets. They can also be ordered separately or as installed when ordering a UR. The brackets are identifiable by part numbers, which are printed on the parts.

IP20 kit parts

UR rear slots	IP20 kit order code	IP20 kit order code (with relay; MOD013)	Top bracket	Bottom bracket	Cable ties	Screws	Lexan covers/plates
Six slots	18A0-0767	18A0-0759	1001-0101	1001-0102	12	46	20
Seven slots	18A0-0766	18A0-0758	1001-0099	1001-0100	12	46	20



Six slot kit parts

4. Installation

When the cover is already assembled, use relevant parts of this section as reference to connect the wires.

The process to assemble the cover and connect the wires is outlined in this section. You install the UR device in the field, then install the IP20 cover. The process is as follows:

- Install the IP20 bottom bracket
- Wire the UR device

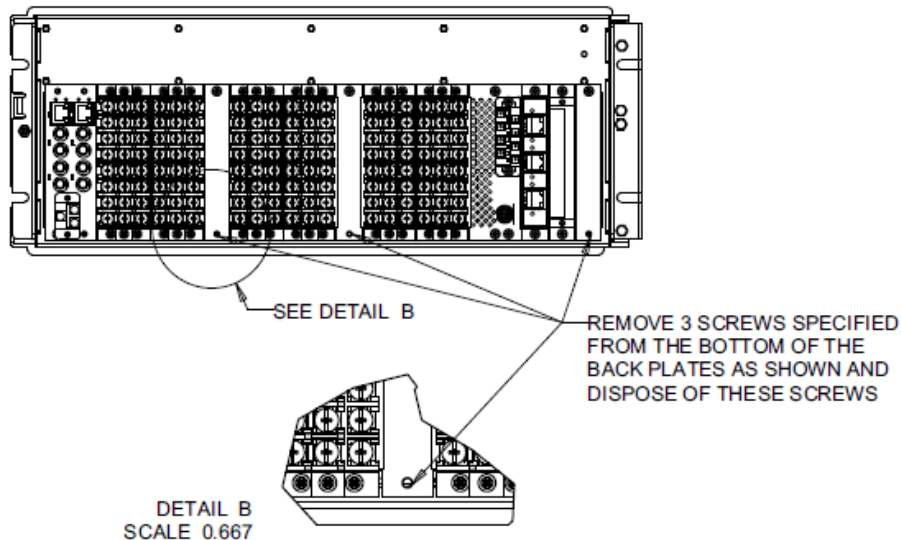
- Install the IP20 top bracket
- Install Lexan covers



All sources must be de-energized when installing the UR device and cover kit. Any attempt to install equipment with live sources can result in permanent injury or death.

To install the IP20 cover:

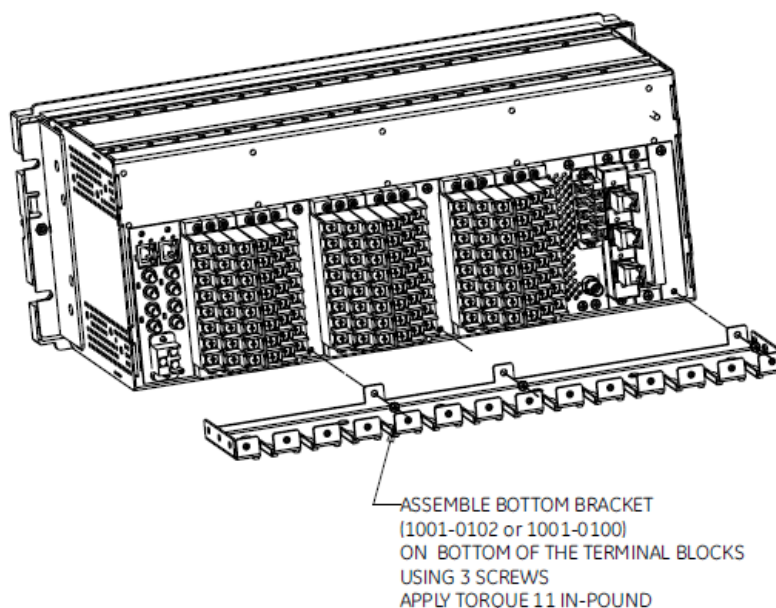
1. Install the bottom bracket as follows. With power off, at the back of the UR device, remove the bottom three screws that line up with the bracket from the module cover plate. Do not remove any other screws.



2. Attach the bottom bracket (GE part number 1001-0102 or 1001-0100) to the bottom of the module cover plate using three screws supplied in the cover kit. Apply a torque of 11 inch-pounds when tightening the screws.



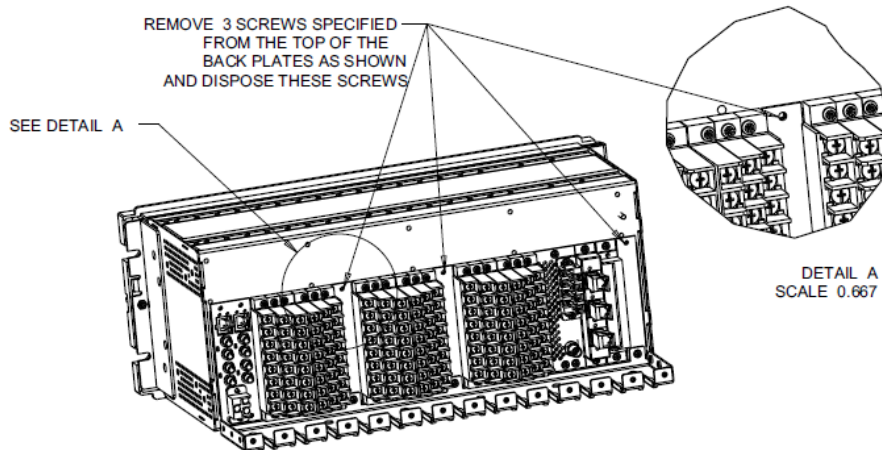
When attaching the cover, do not substitute screws longer than those provided with the cover, else damage to the boards and erroneous communication can occur.



3. With power off and following instructions in the applicable instruction manual, connect the wires to the back of the UR device. GE recommends using 90° lags instead of flat lag connectors to facilitate organization of the wires through the IP20 cover.



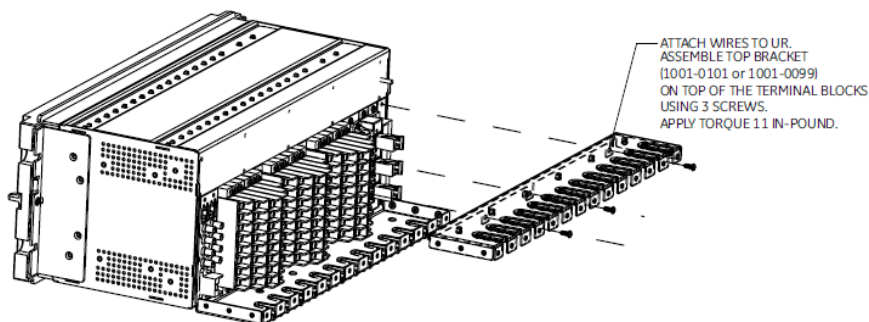
4. Install the top cover as follows. Lining up the top bracket, remove the three screws from the top of the module cover plate.



5. Attach the top bracket (1001-0101 or 1001-0099) to the top of the module cover plate using three screws supplied in the cover kit). Apply a torque of 11 inch-pounds when tightening the screws.

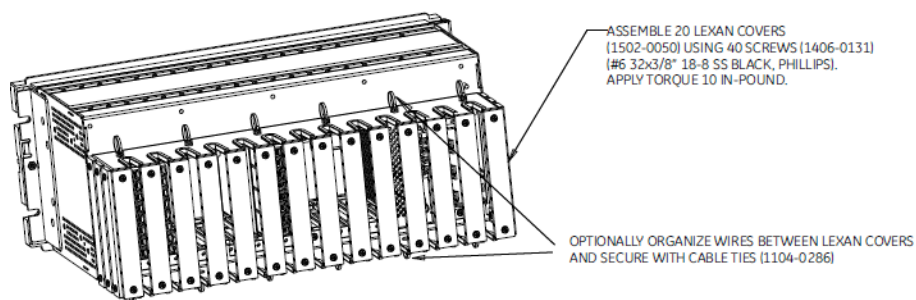


When attaching the cover, do not substitute screws longer than those provided with the cover, else damage to the boards and erroneous communication can occur.



Check that all wire terminals have been tightened.

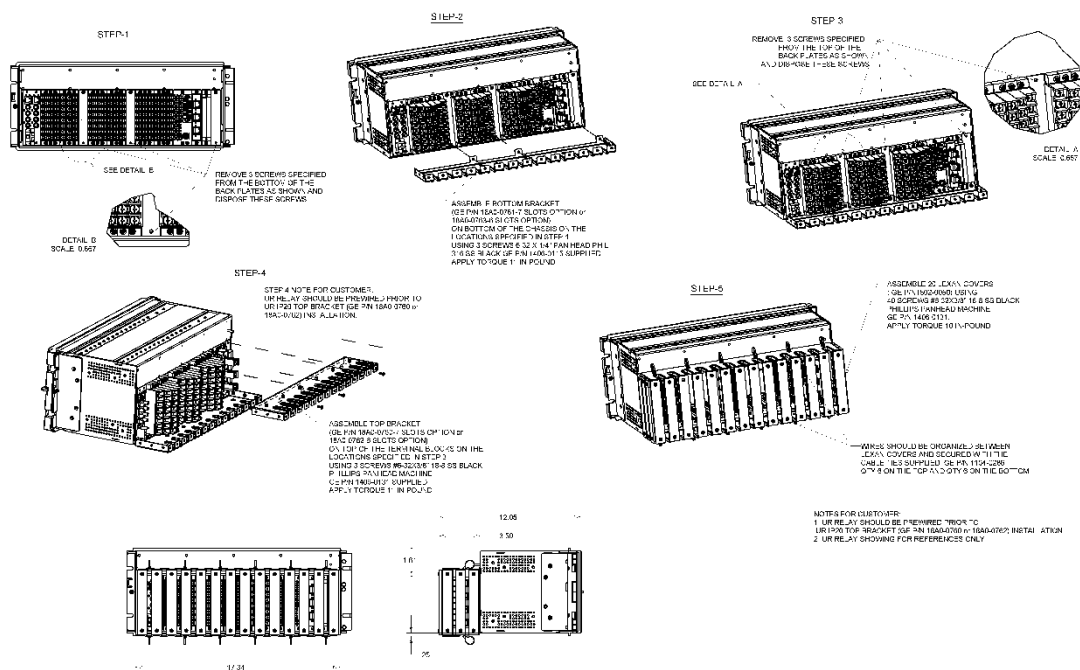
6. Attach the 20 Lexan covers to the brackets using the remaining 40 screws. Install them with 14 covers at the rear, three on one side, and three on the other side. Apply a torque of 10 inch-pounds when tightening the screws. When organizing the wires between Lexan covers, options are to guide them between the Lexan covers at the back (see photo) or to secure them with the cable ties at the top and bottom of the bracket (see following figure).



If you need to uninstall the cover, with the power off, follow the steps in reverse order.

5. Installation summary

The following figure provides a summary of the installation.



6. For further assistance

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