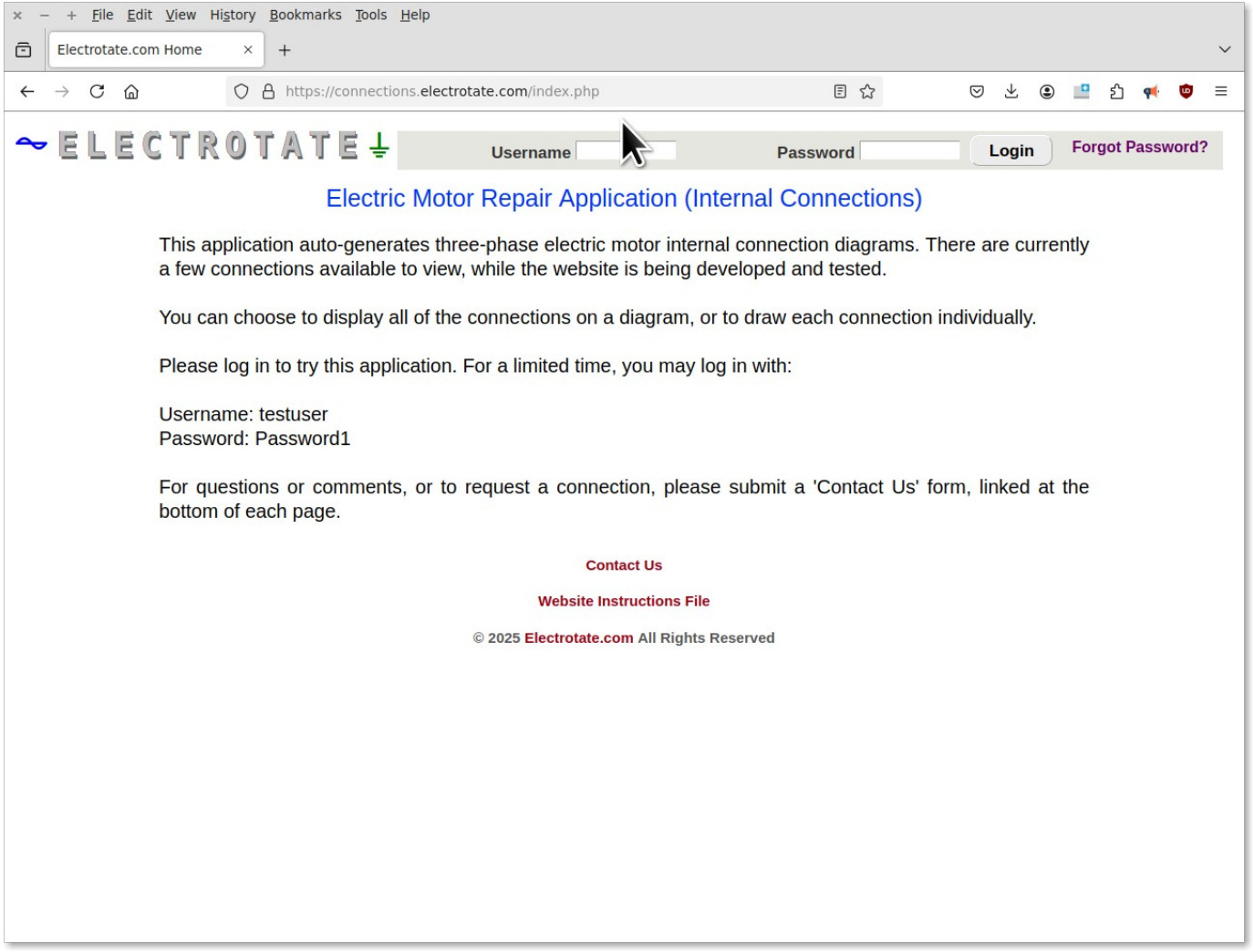
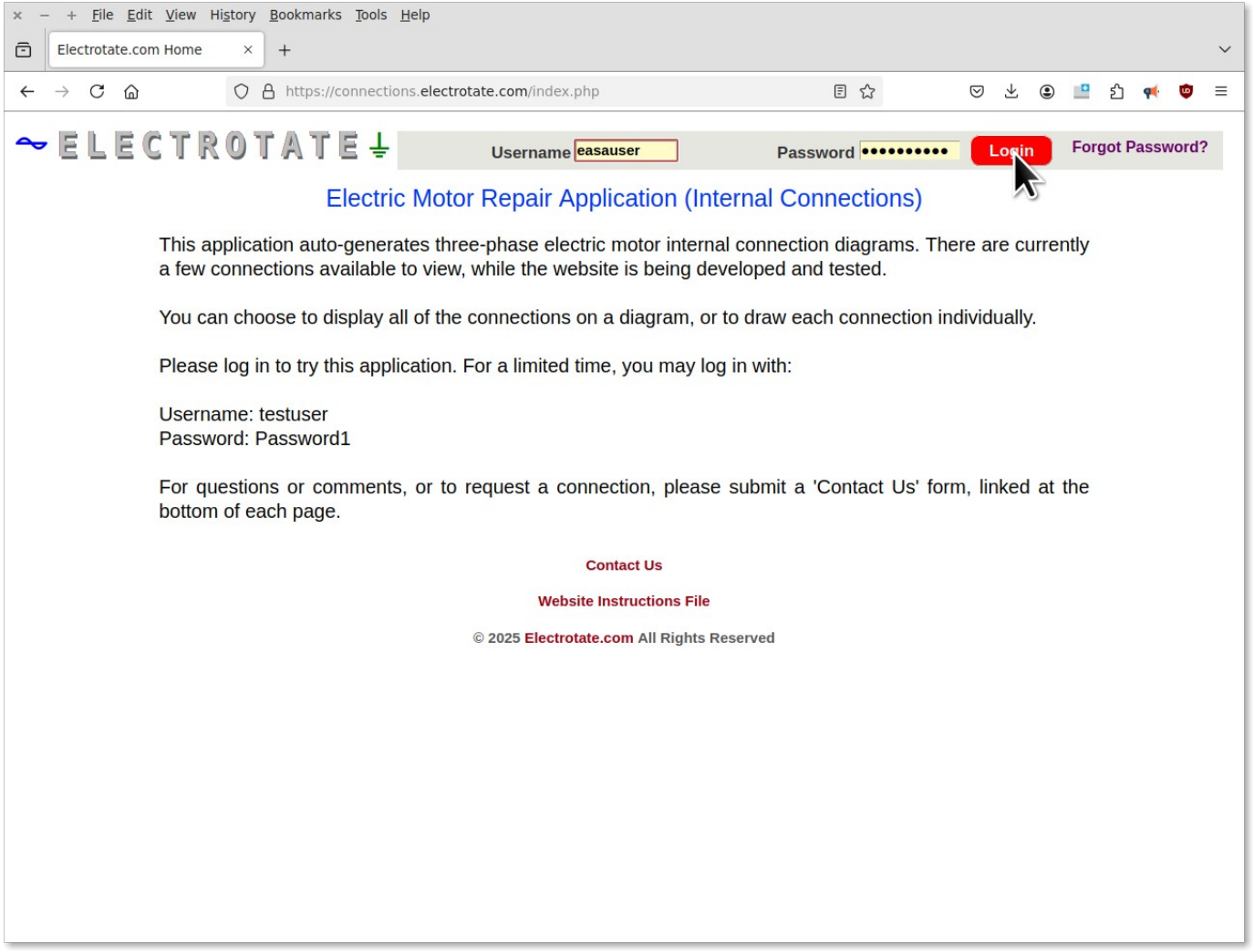
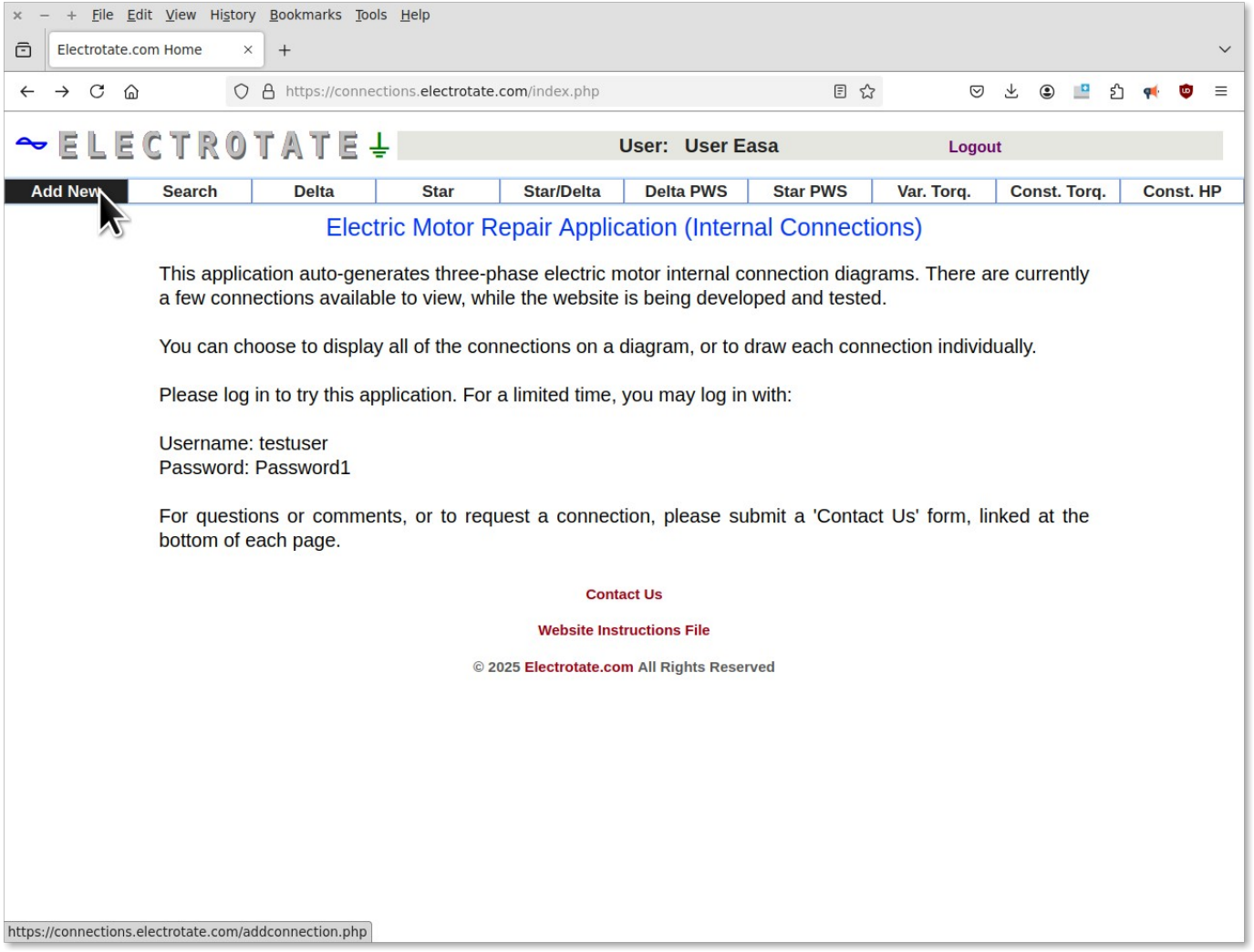


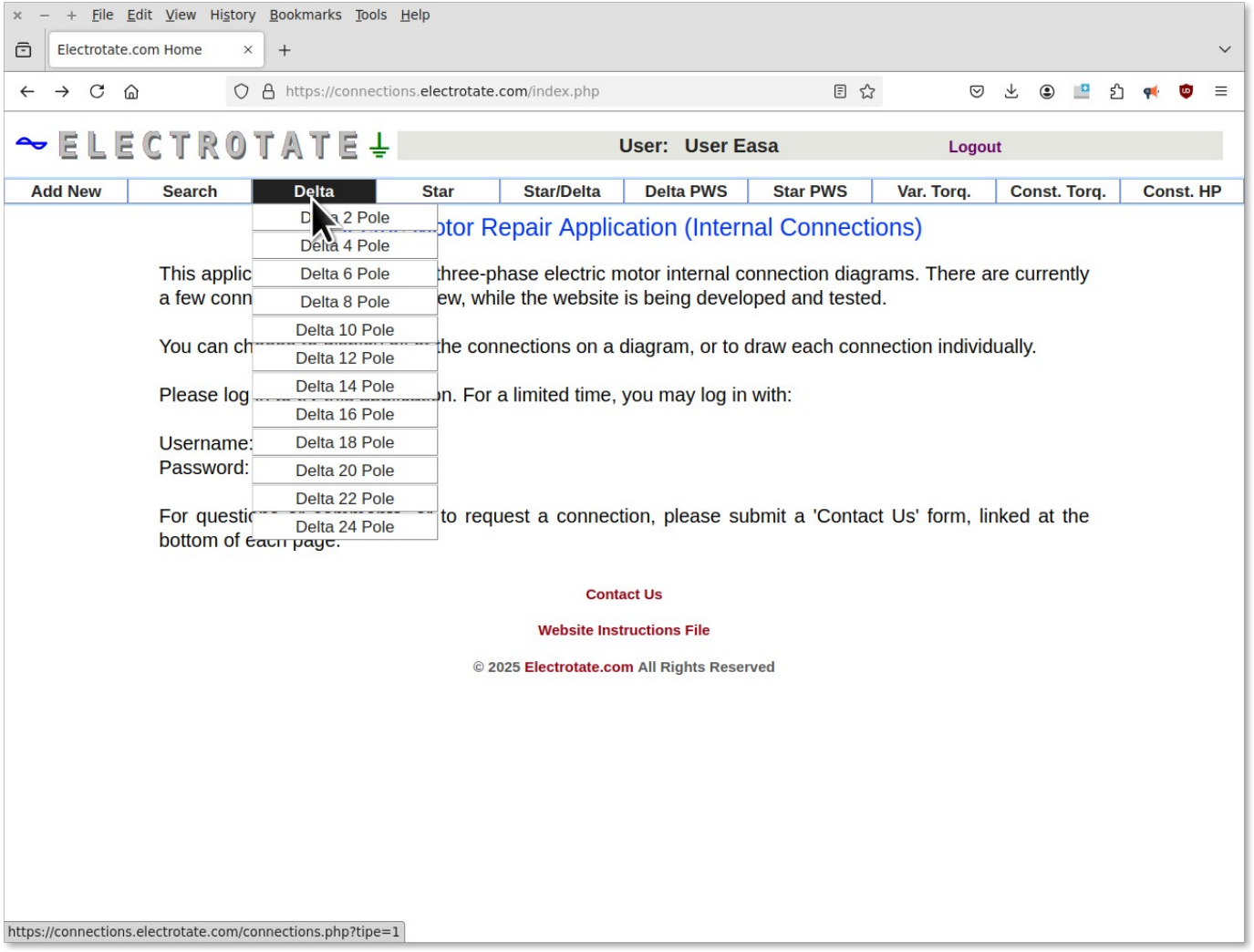

Navigate to: https:connections.electrotate.com



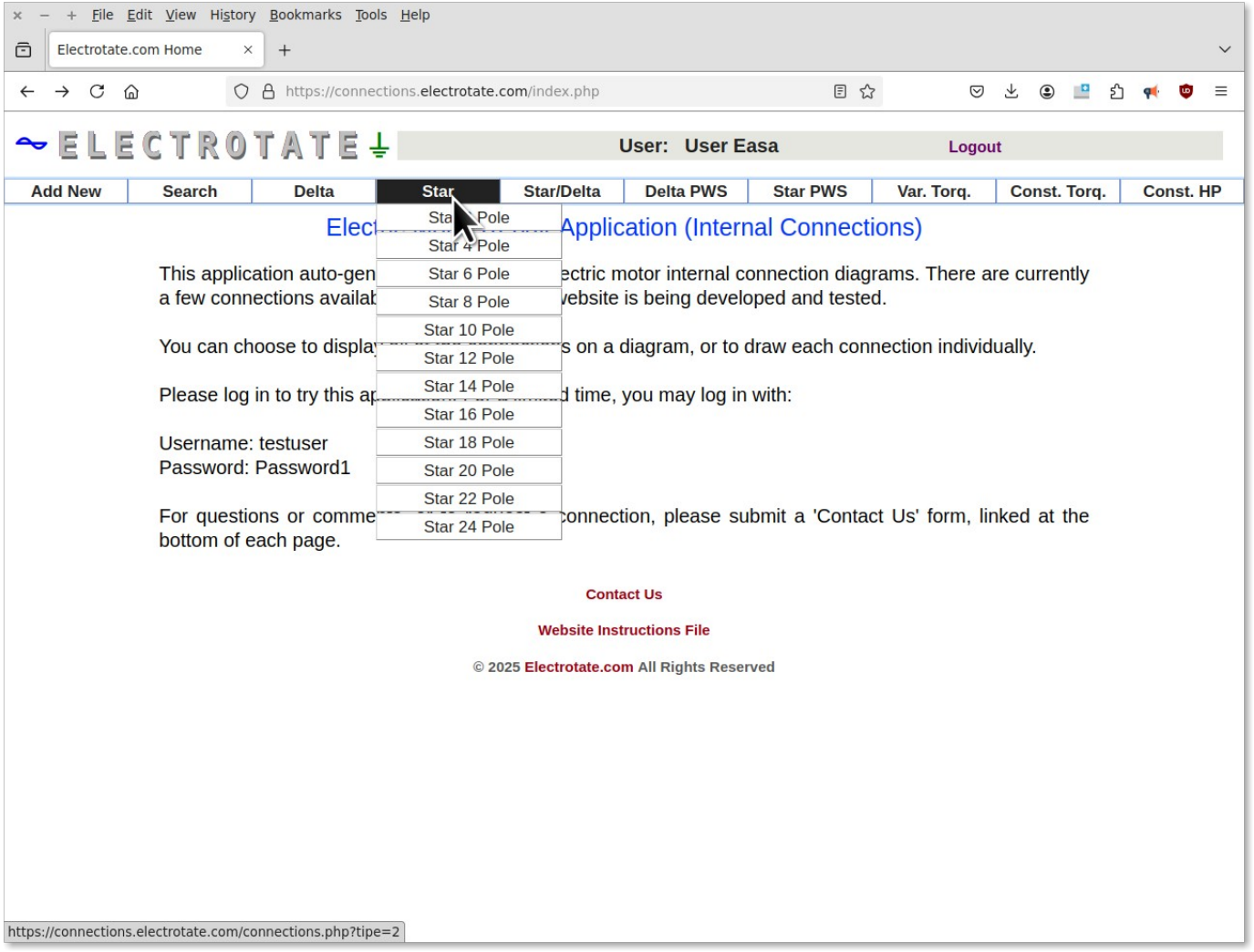

Enter username and password, and click the ‘Login’ button to log in.



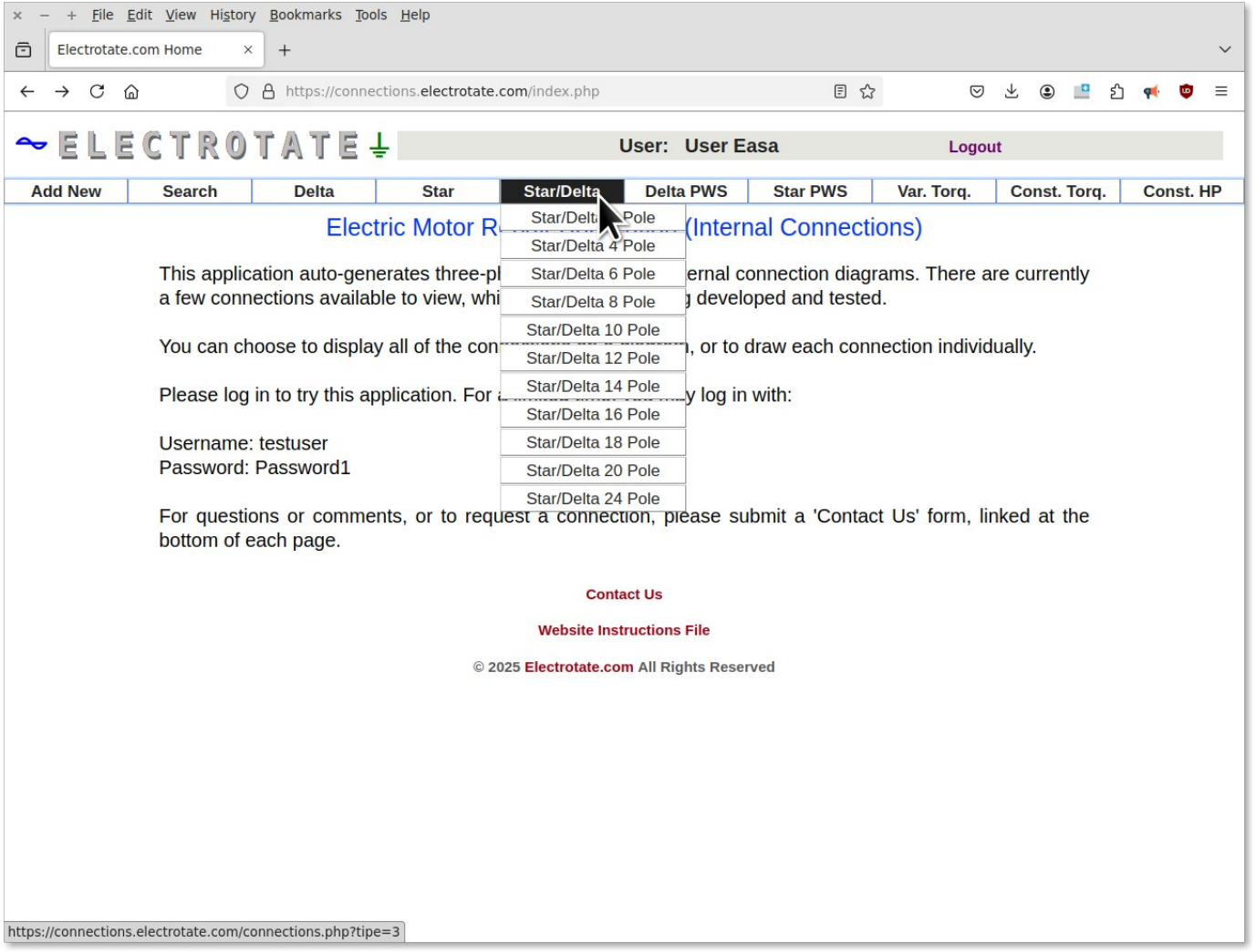

Navigation links include:  ‘Add New’ to add a new connection . . .



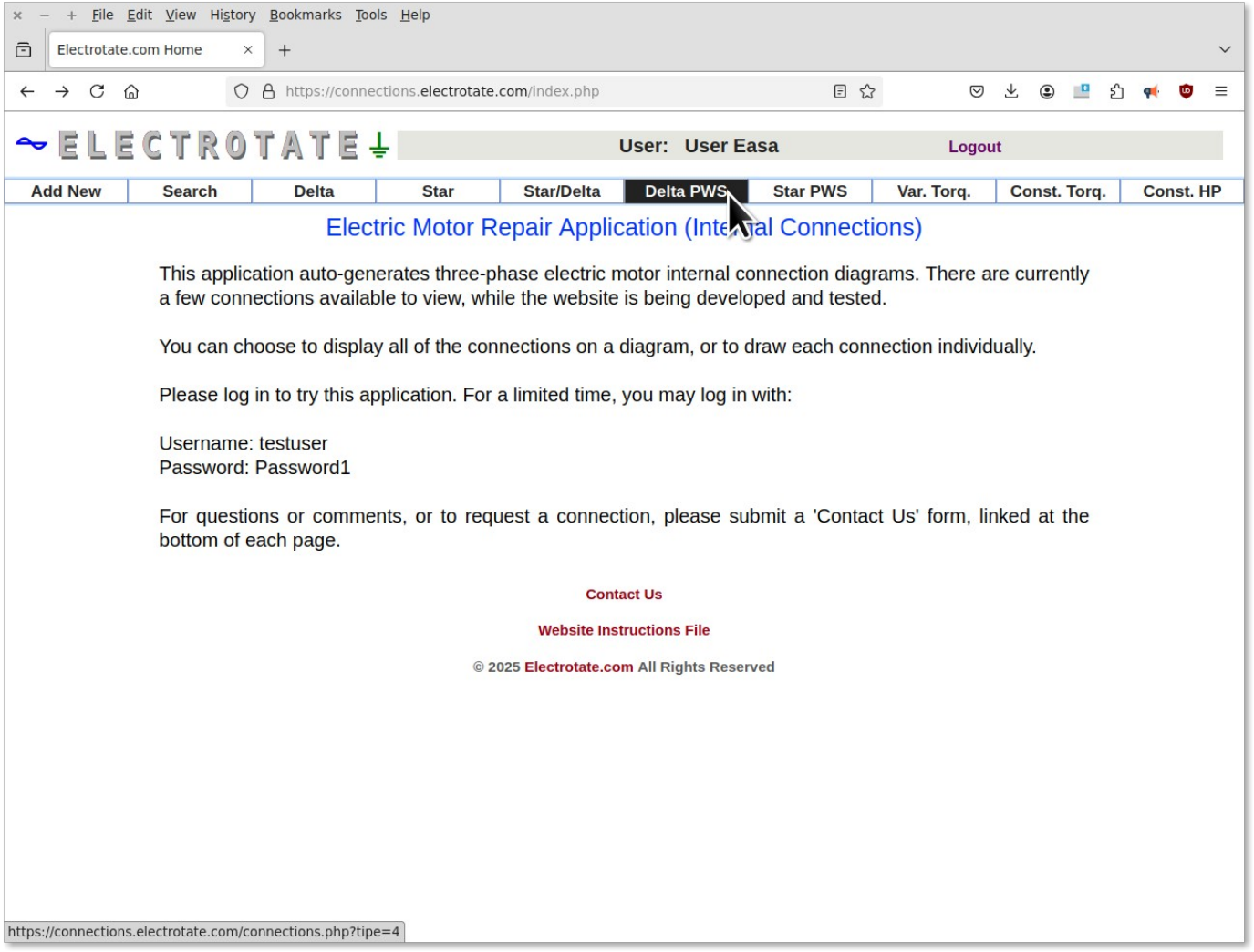

. . . drop down menu for Delta connections . . .



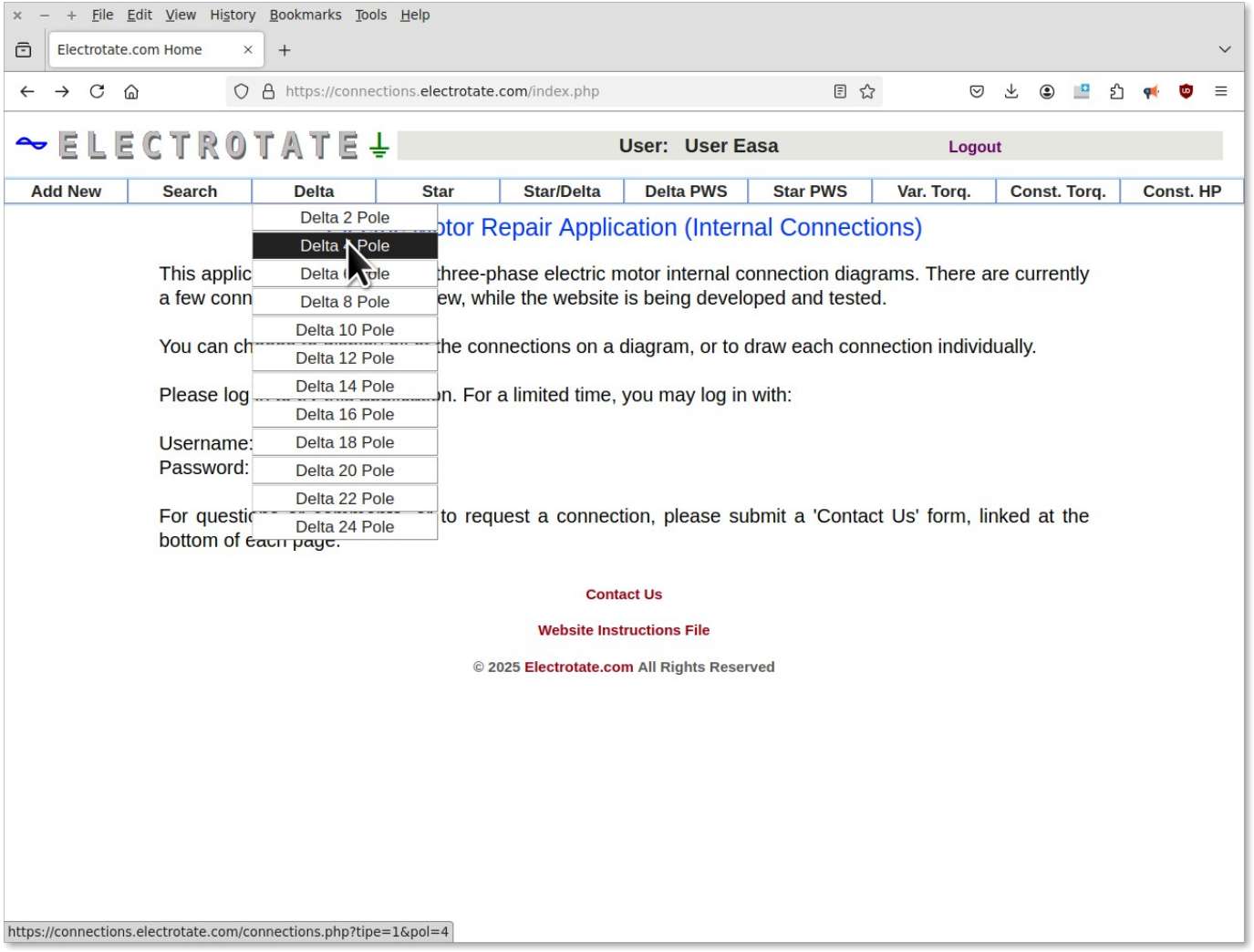

. . . drop down menu for Star connections . . .



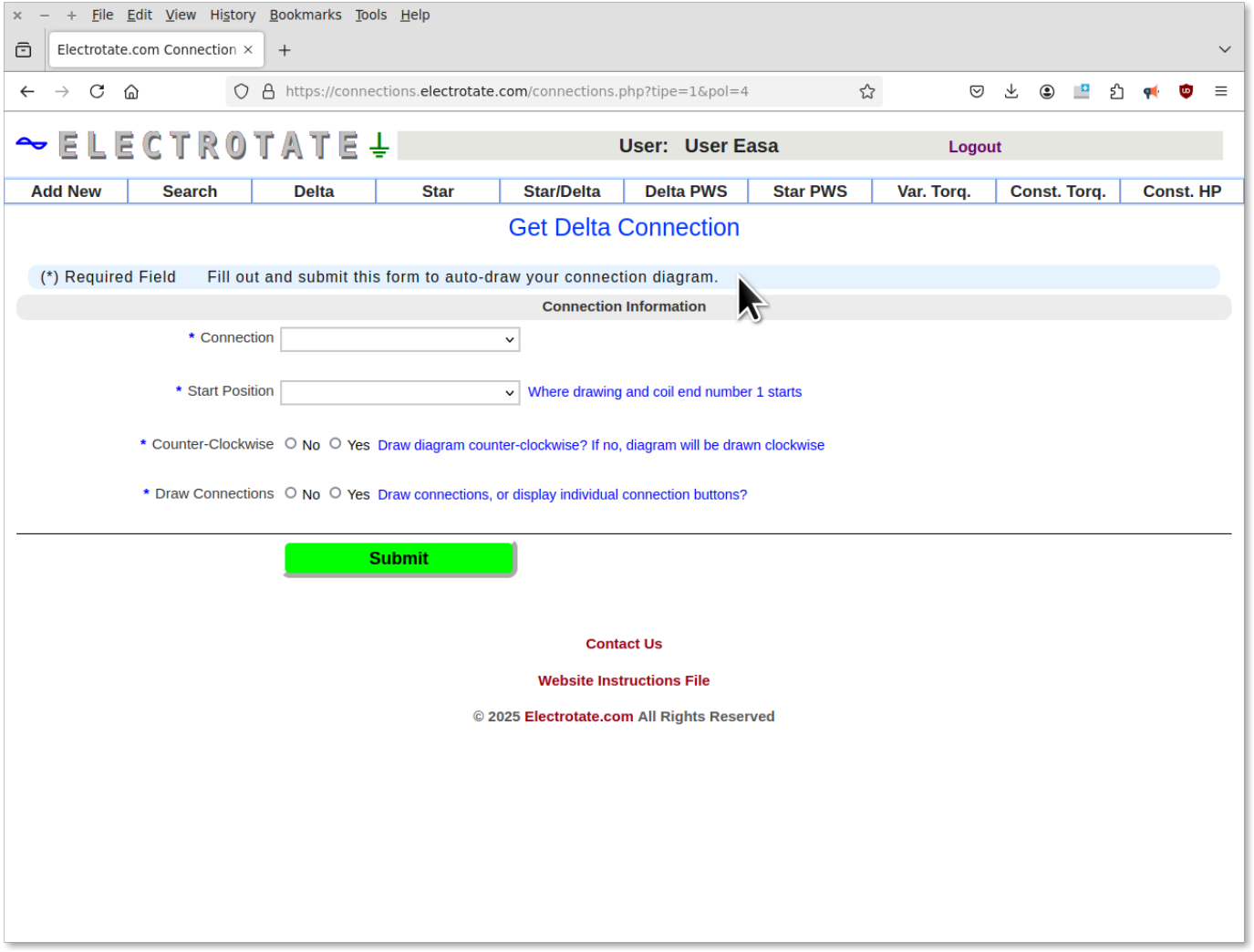

. . . drop down menu for Star/Delta connections . . .



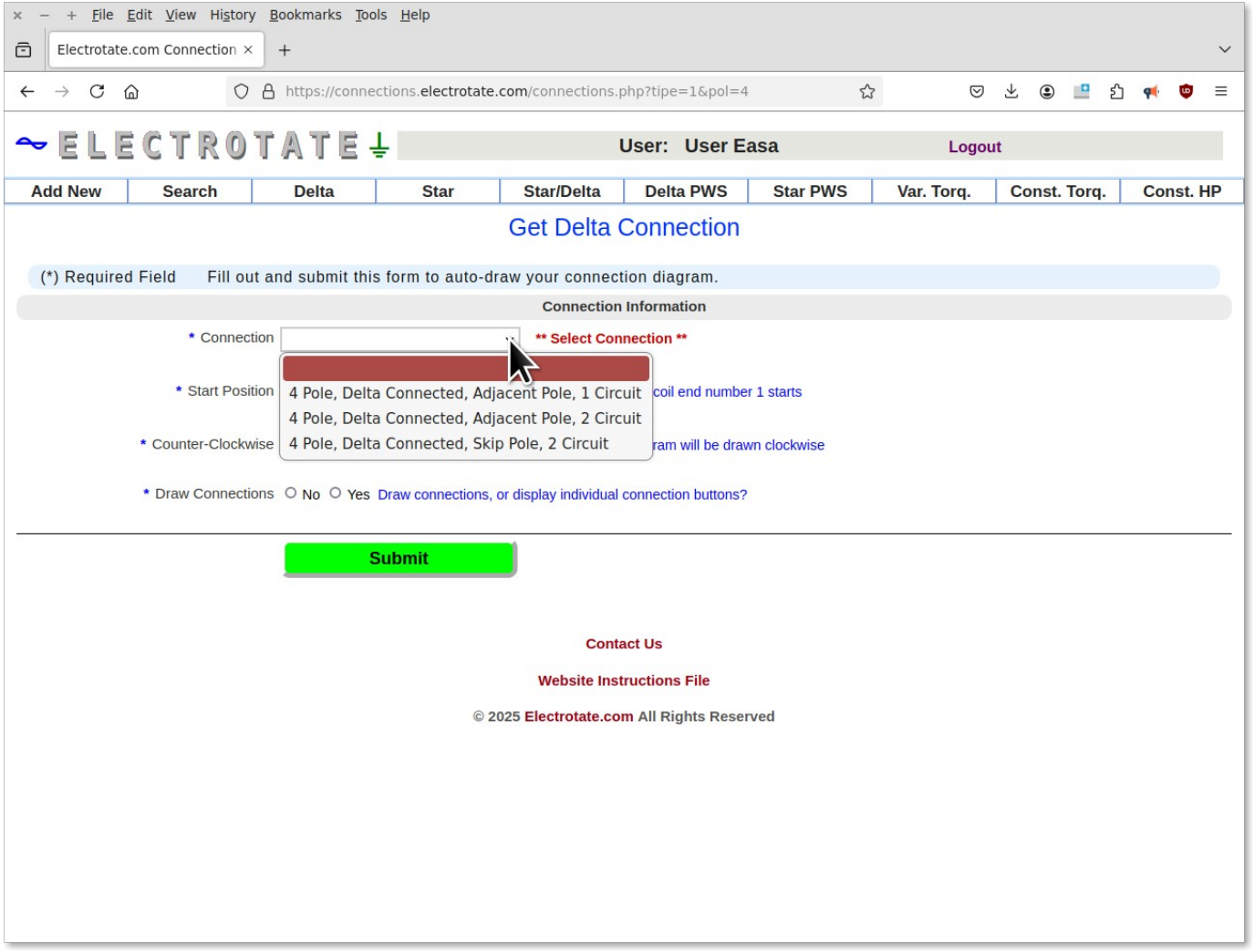

. . . and menus for Delta PWS, Star PWS, Variable Torque, Constant Torque, and Constant HP.



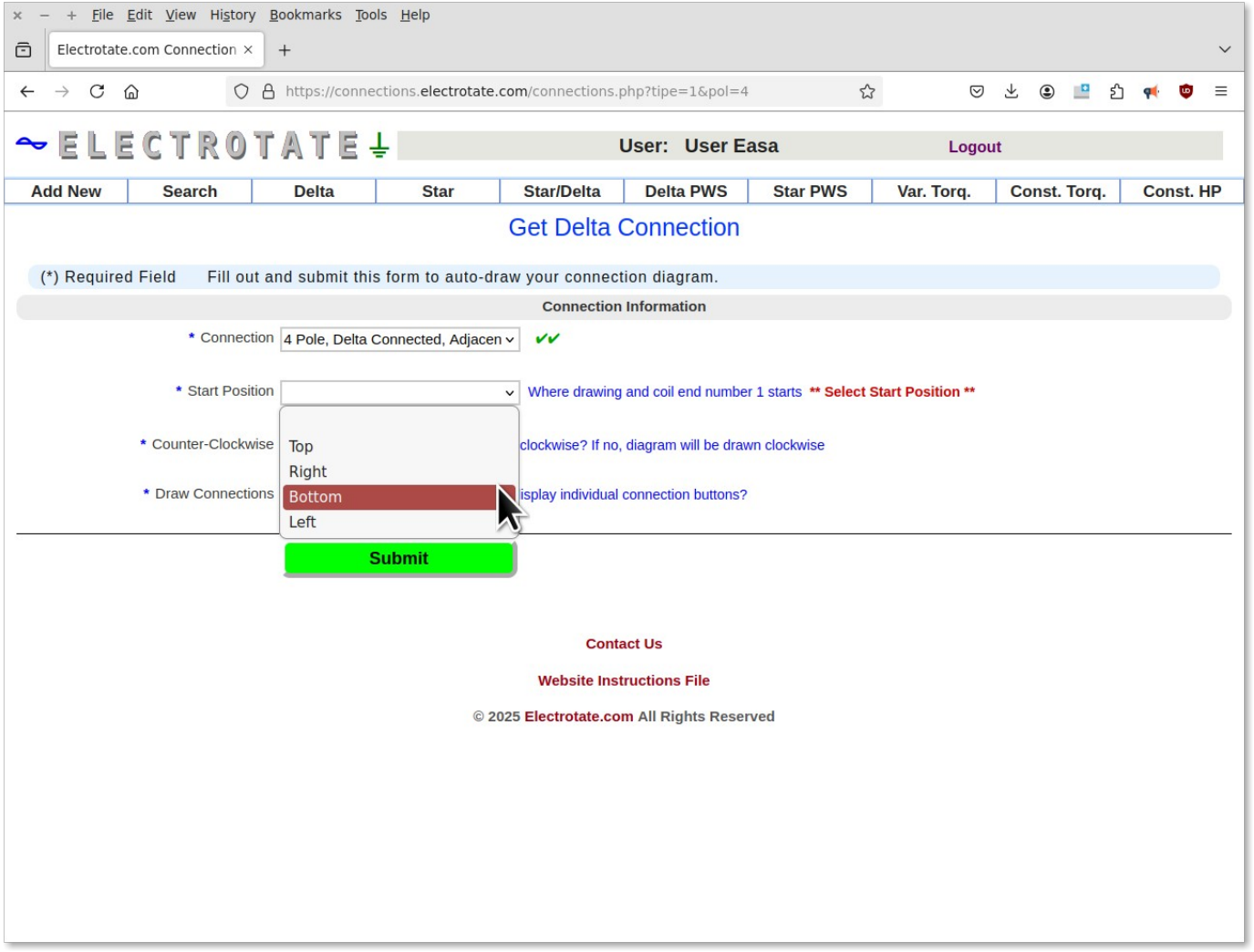

Select the Delta drop down menu, and click on Delta 4 Pole navigation link.



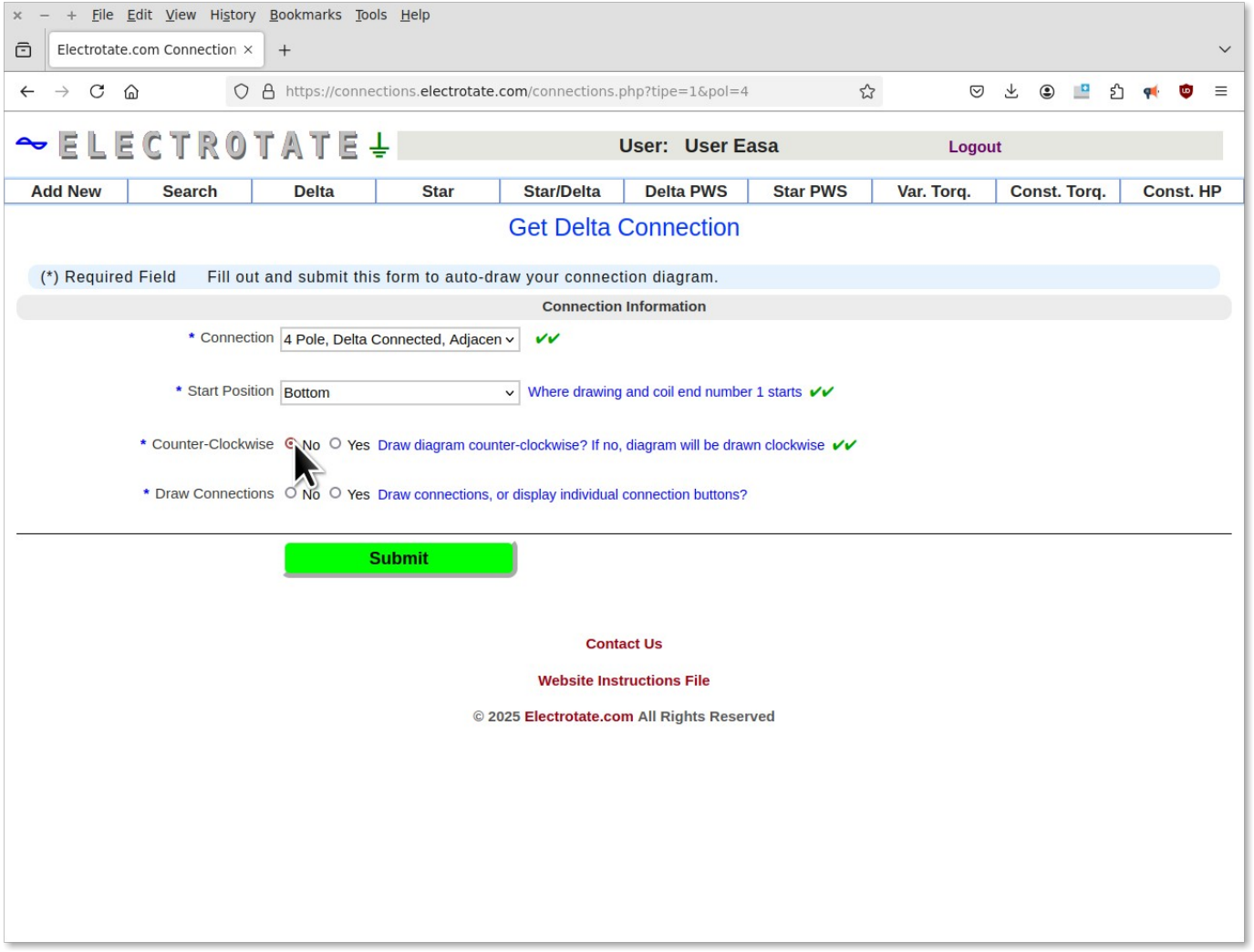

The next page displays a form. You can select a Delta connection, Start Position, Counter-Clockwise (or not), and whether to draw all connections, or display connection buttons.



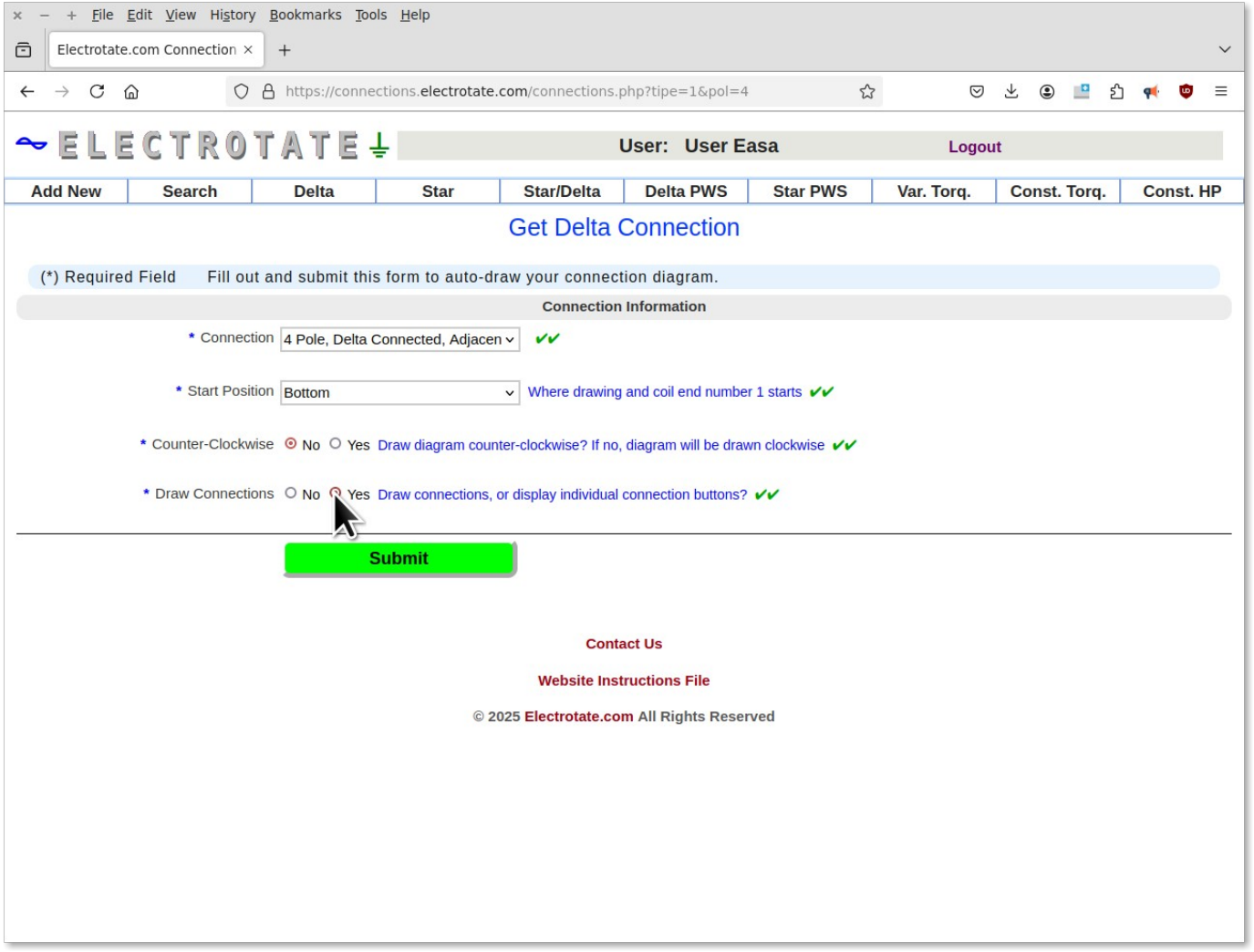

Click on the Connection select entry, and select ‘4 Pole, Delta Connected, Adjacent Pole, 1 Circuit’ connection.



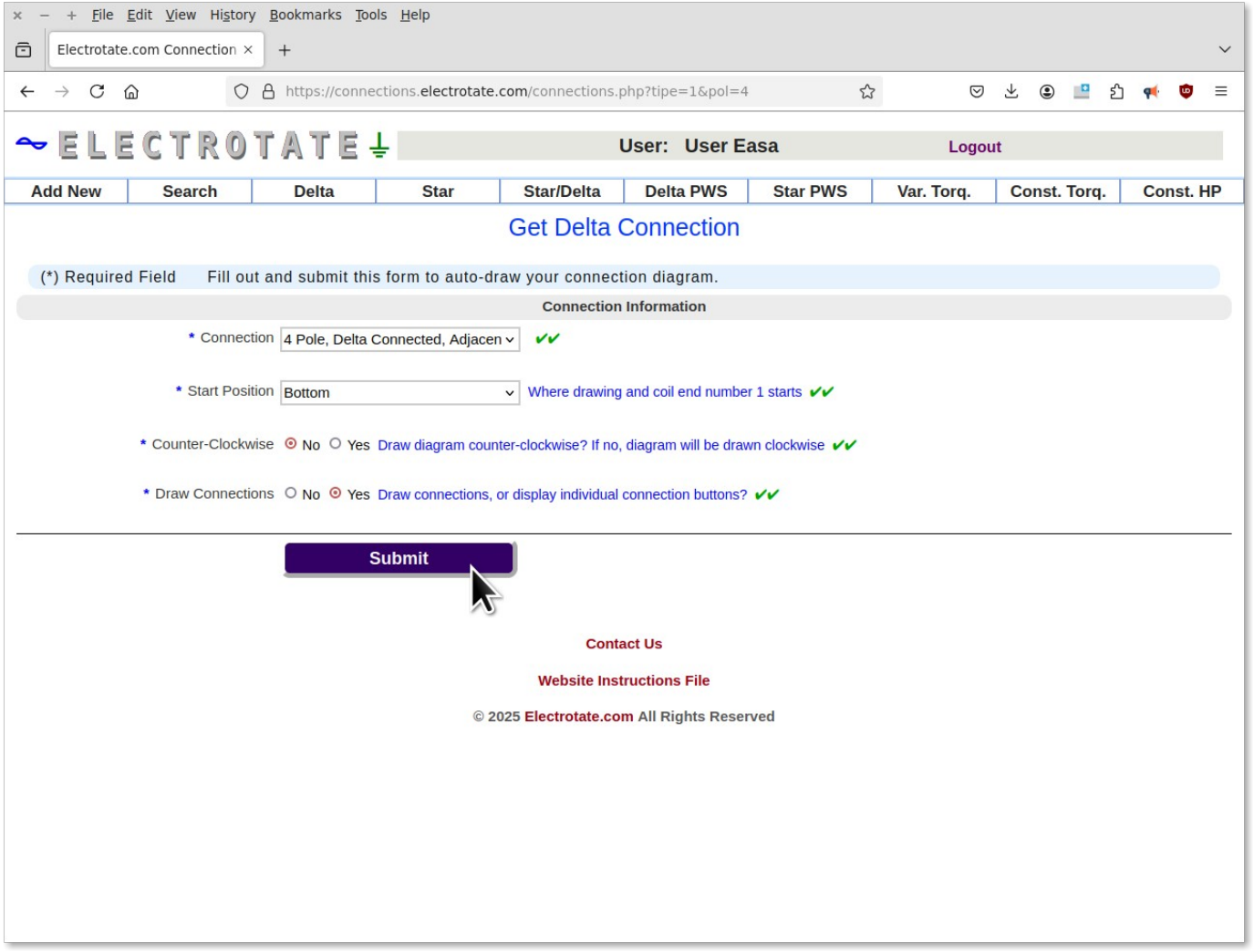

Select the drawing orientation, Top, Right, Bottom or Left. In this case, select Bottom. This determines where the start of the drawing, and the number 1 coil end appears.



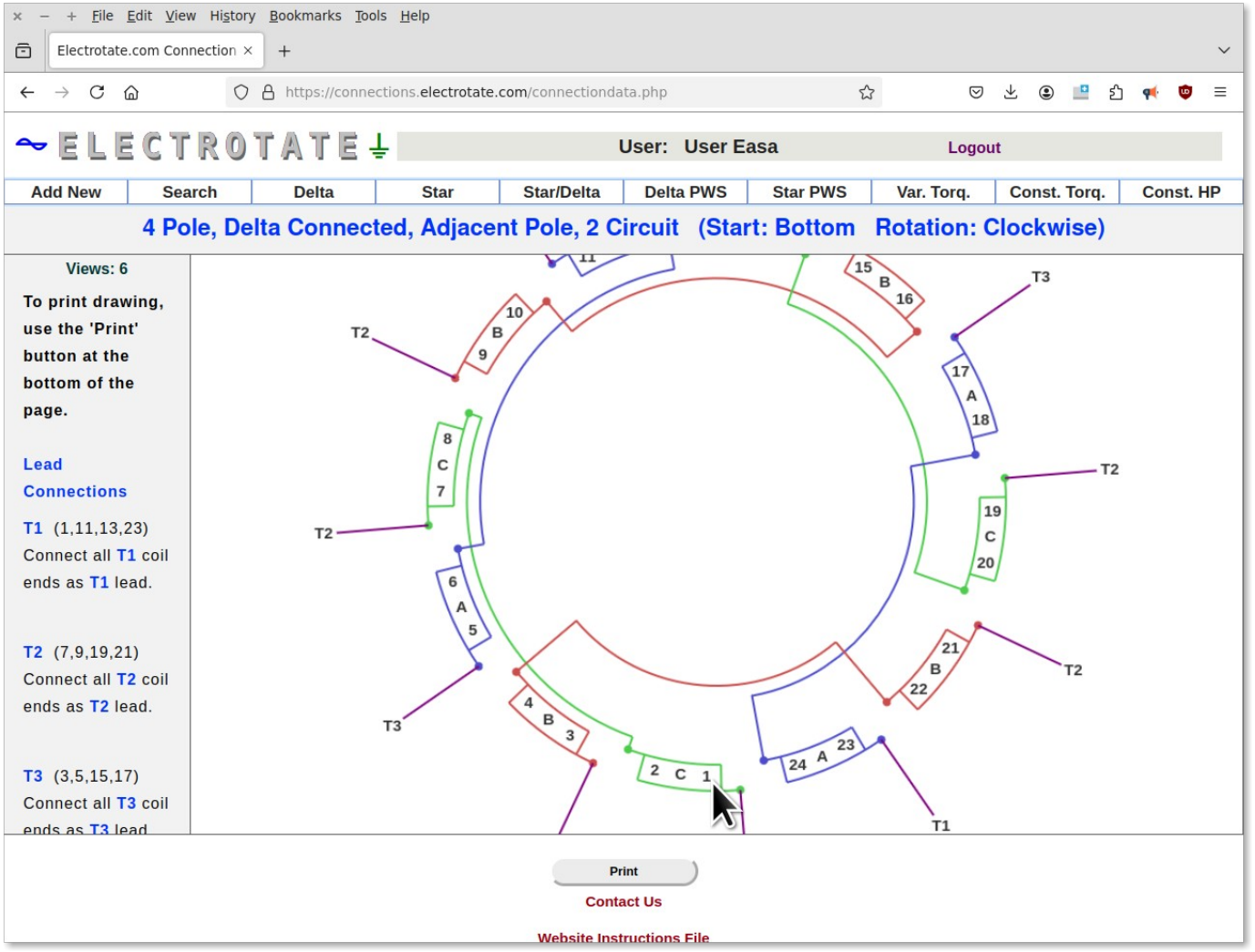

Choose whether connection diagram is drawn clockwise (Yes), or counter-clockwise (No).



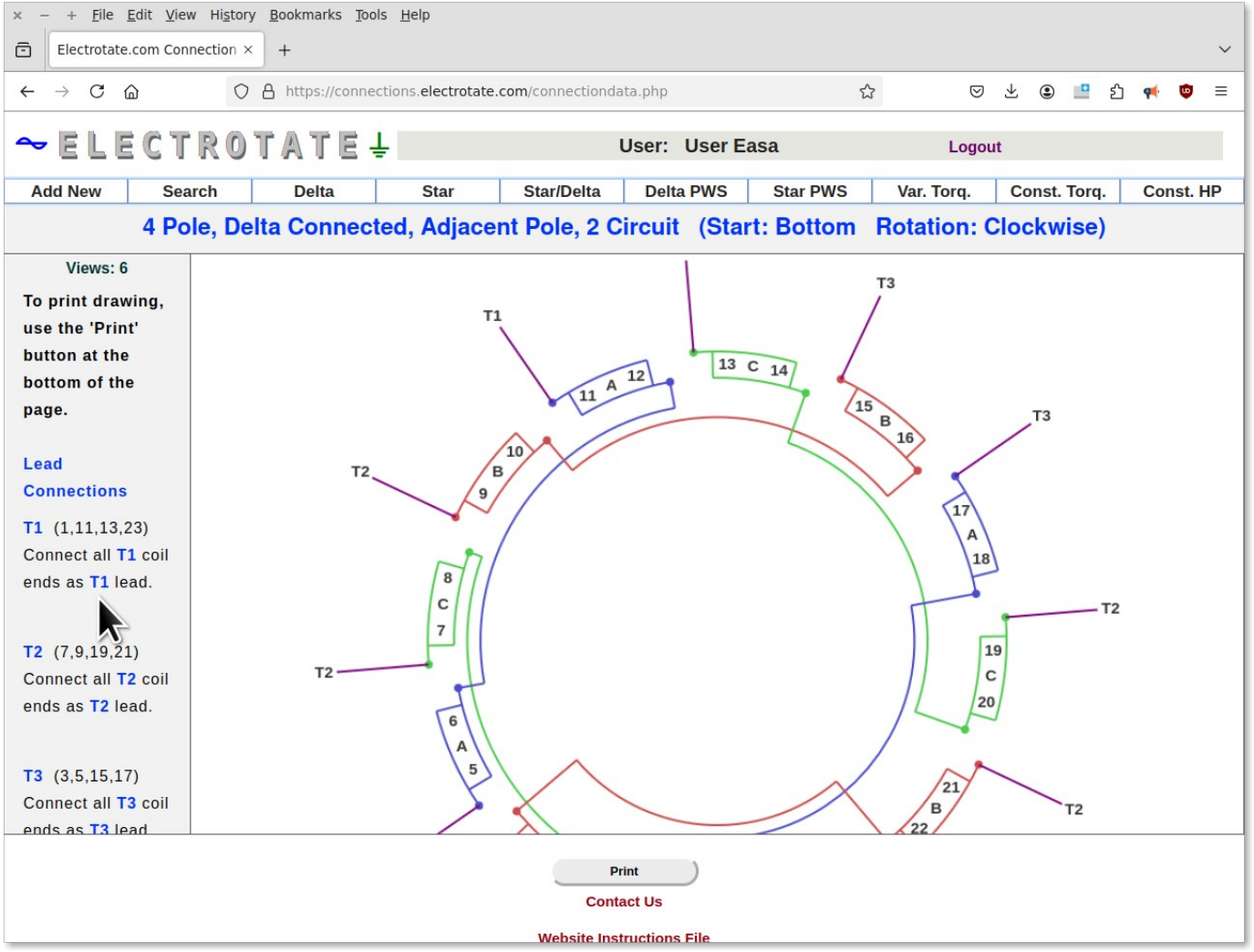

Choose to draw and show all of the connections on the connection diagram.



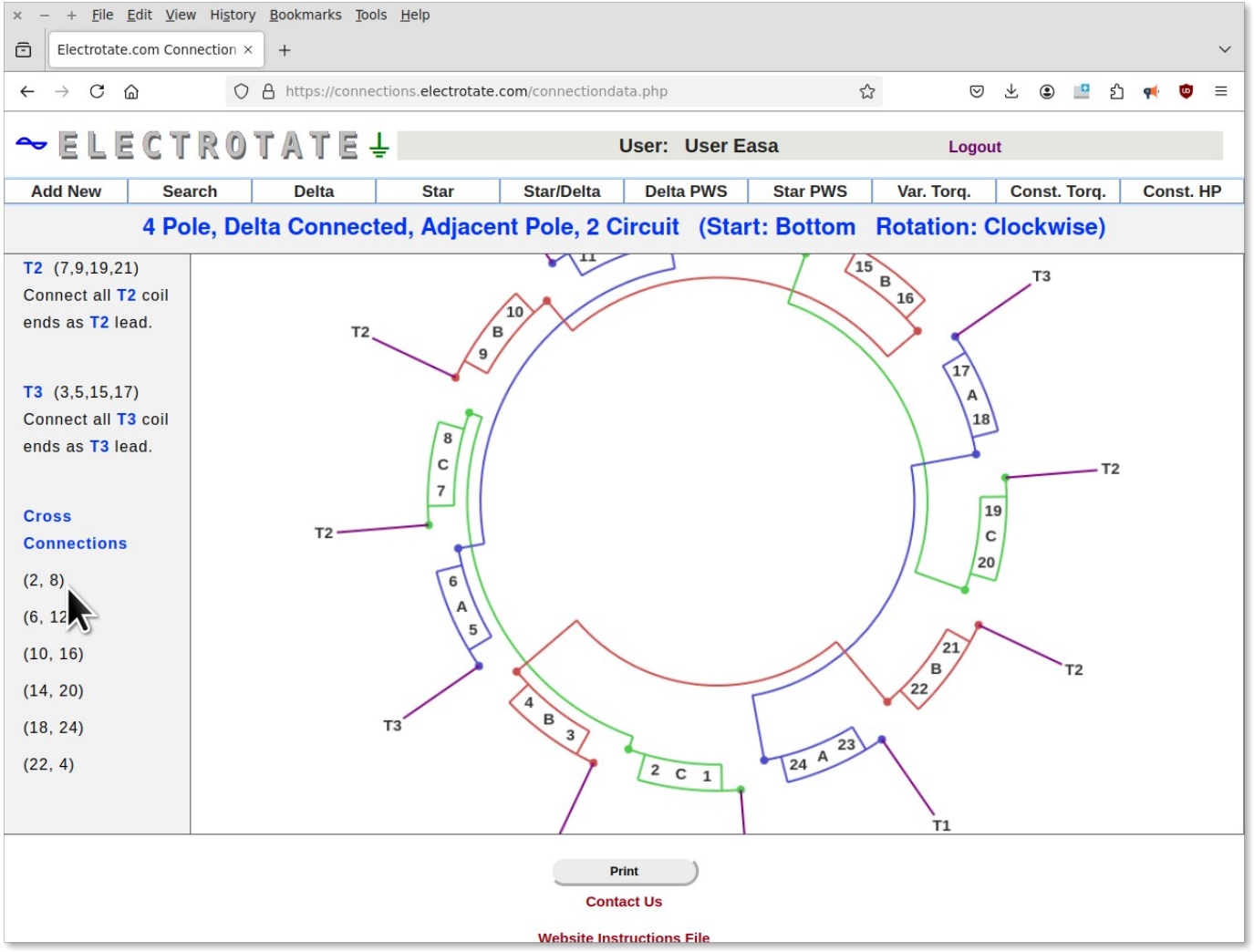

We selected ‘4 Pole, Delta Connected, Adjacent Pole, 1 Circuit’ connection’, Bottom orientation, clockwise rotation, and display all of the connections. Click Submit button.



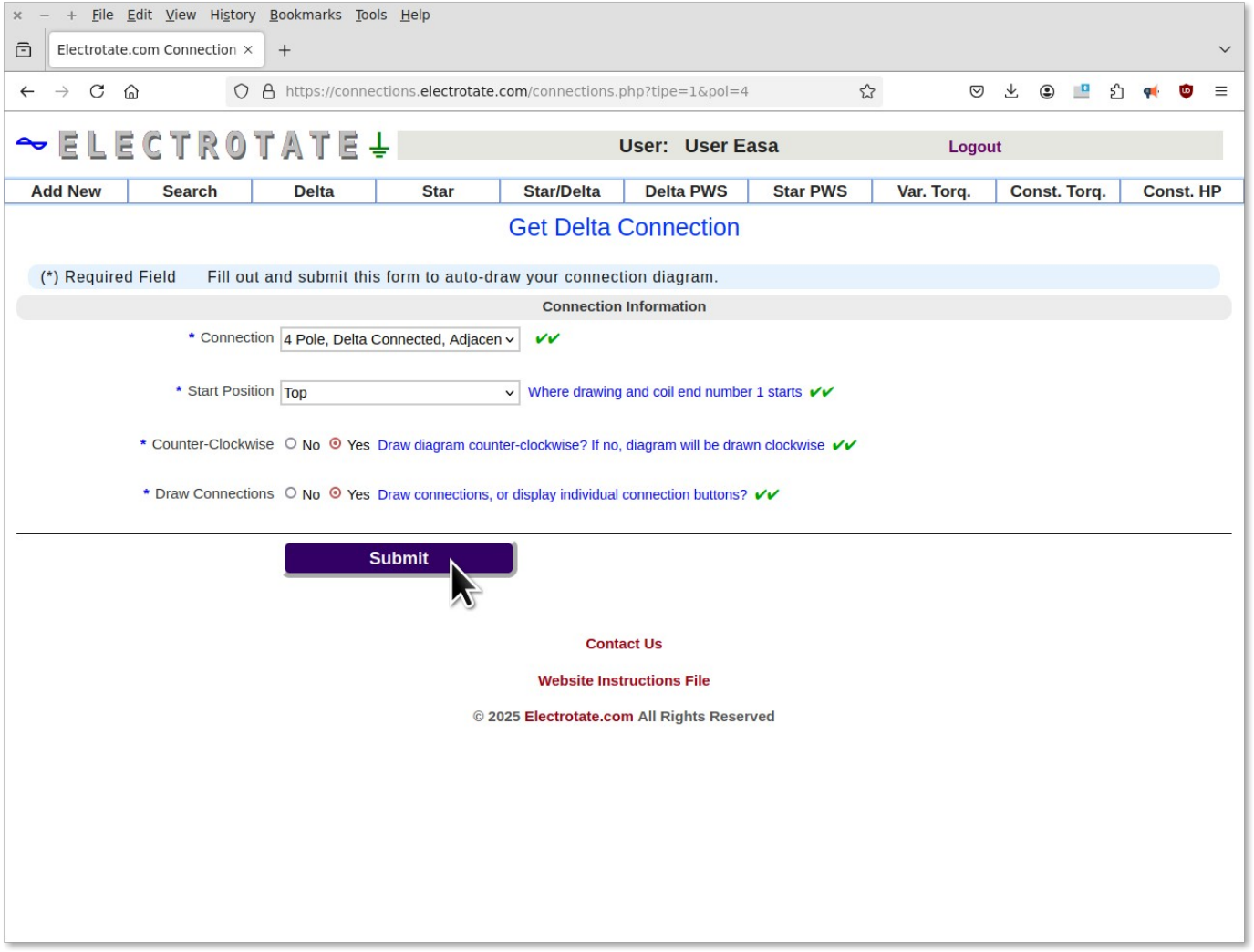

The connection diagram is displayed on the right side of the screen, and the written connections on the left. The drawing starts at the bottom, and is drawn clockwise.



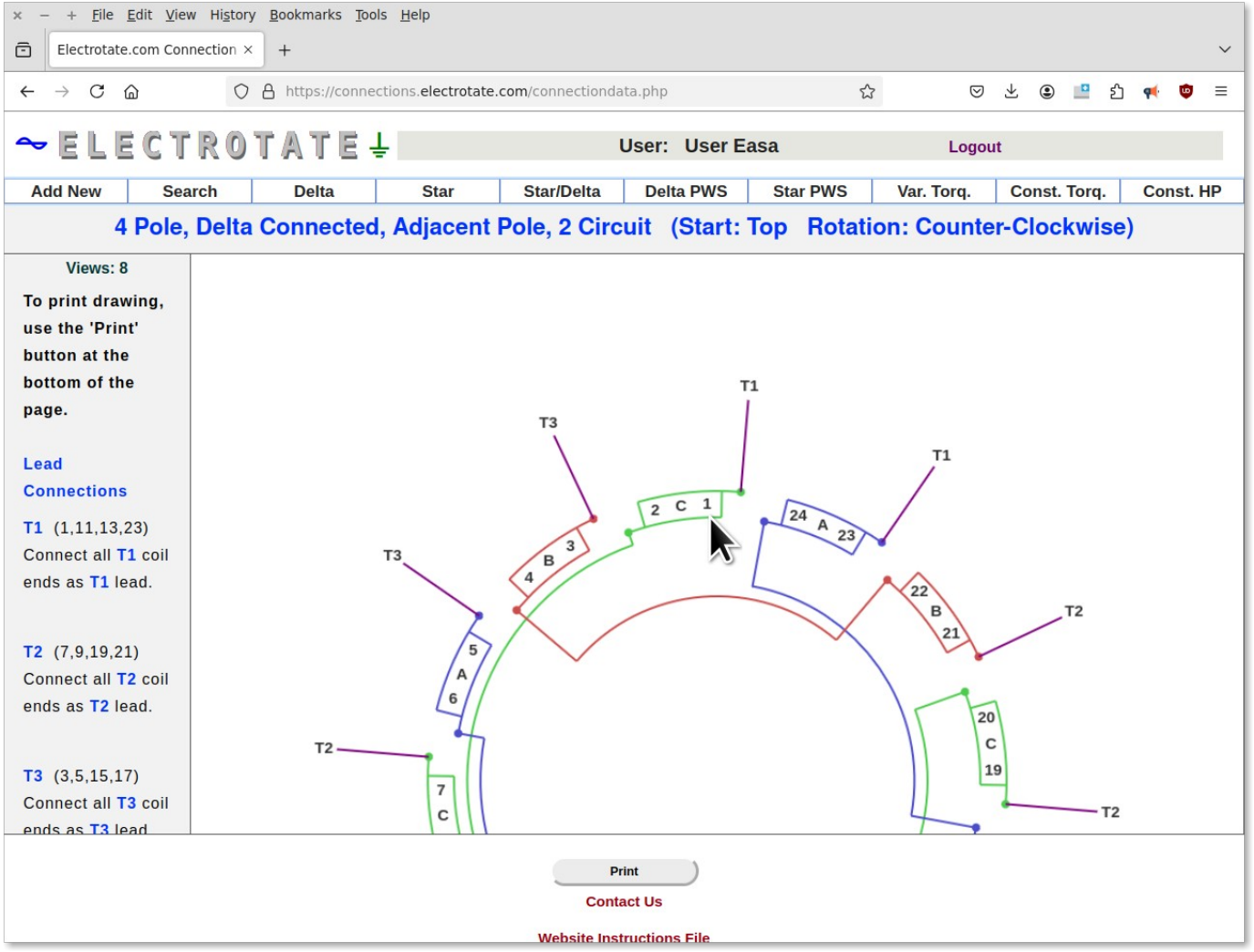

The written connection key is displayed in a scrollable window on the left side of the page.



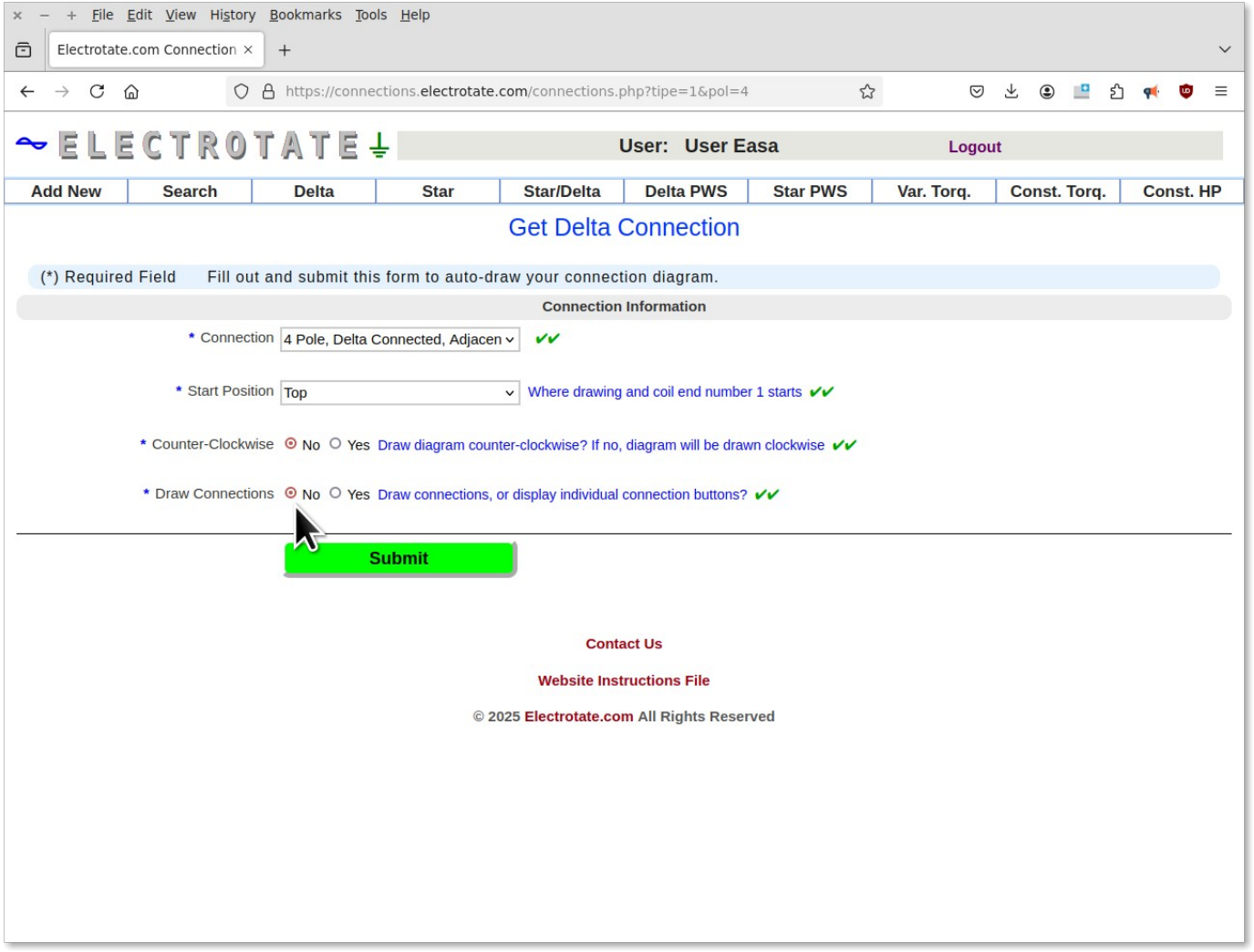

Scroll down to view the connections. Notice the connection (2,8), is drawn in green on the drawing. Each phase is colored either green, red or blue.



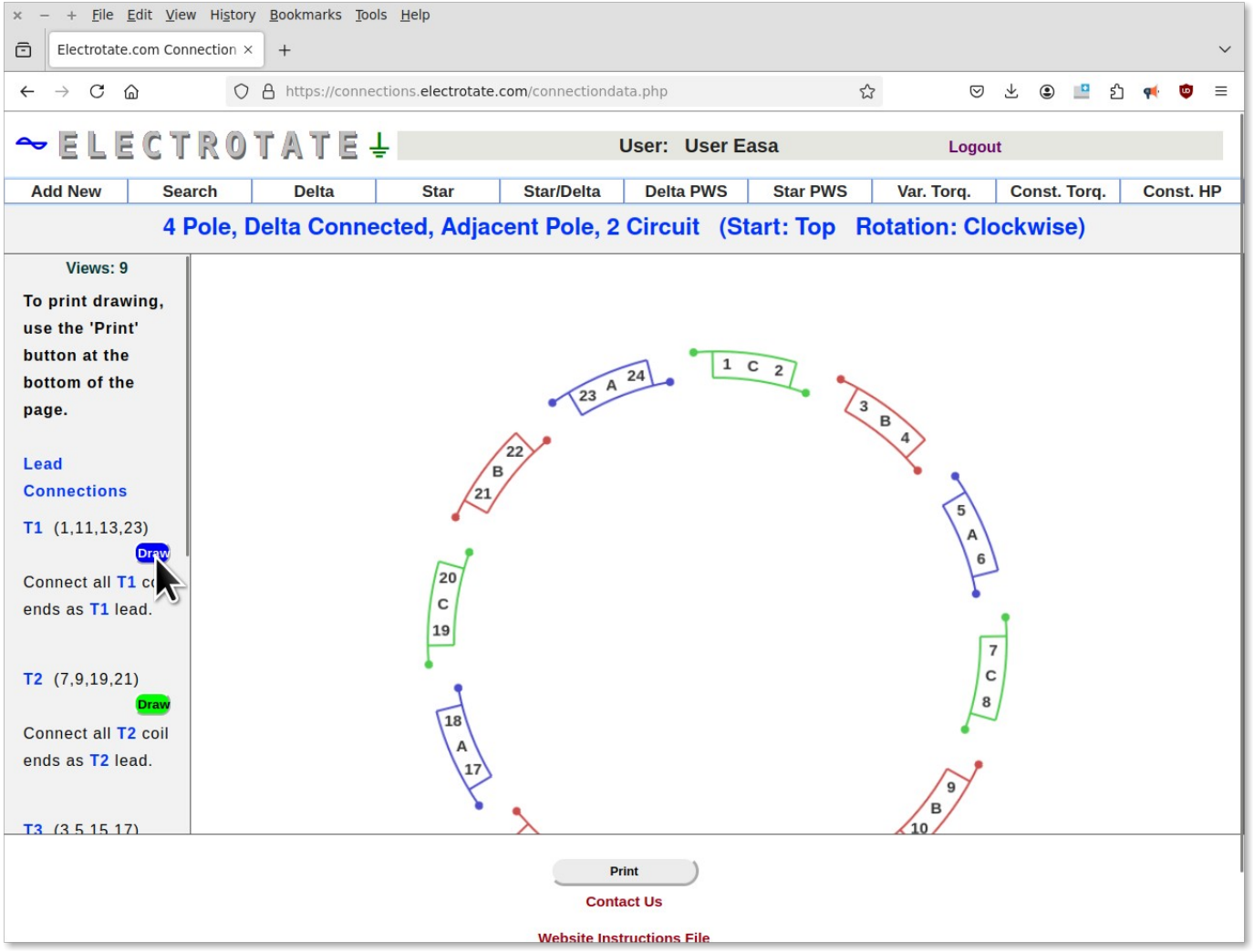

Return to the form, and select Top start position, Yes for counter-clockwise rotation, and click the Submit button.



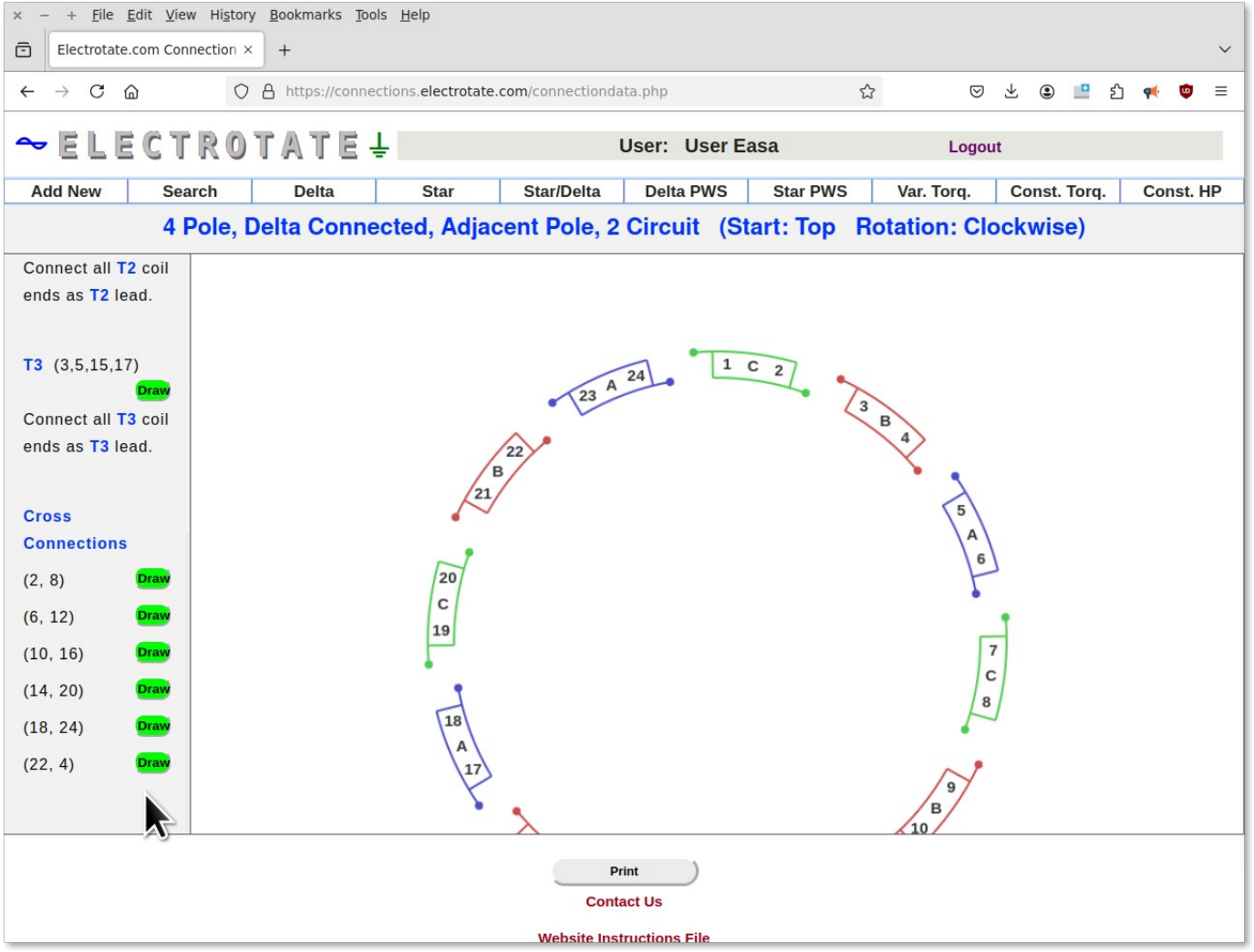

The connection diagram is now shown with a start position at the top, and counter-clockwise rotation. Some winders connect clockwise, and others counter-clockwise.



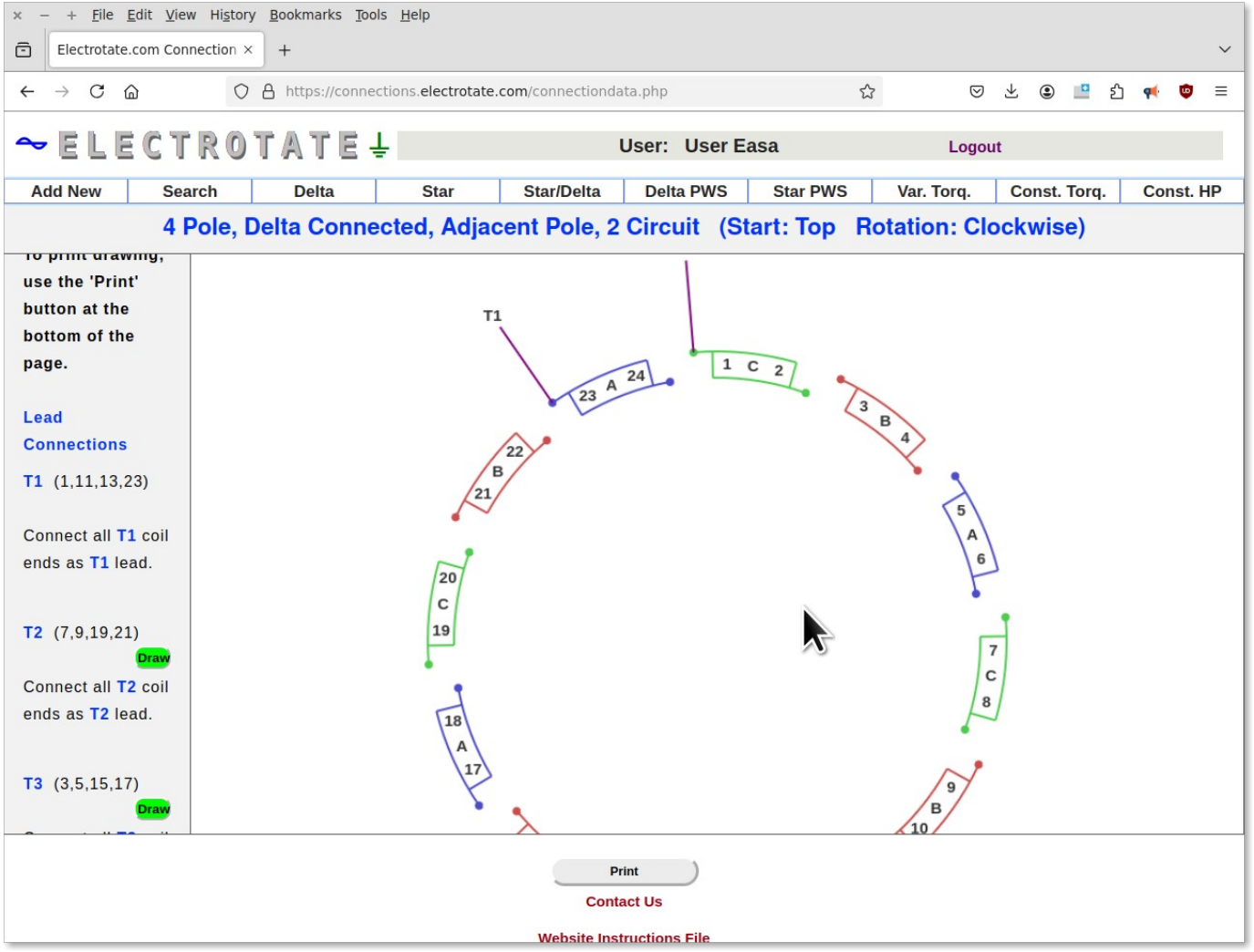

Return to the form and select Top orientation, No for counter-clockwise, and No for Draw Connections, then click the Submit button.



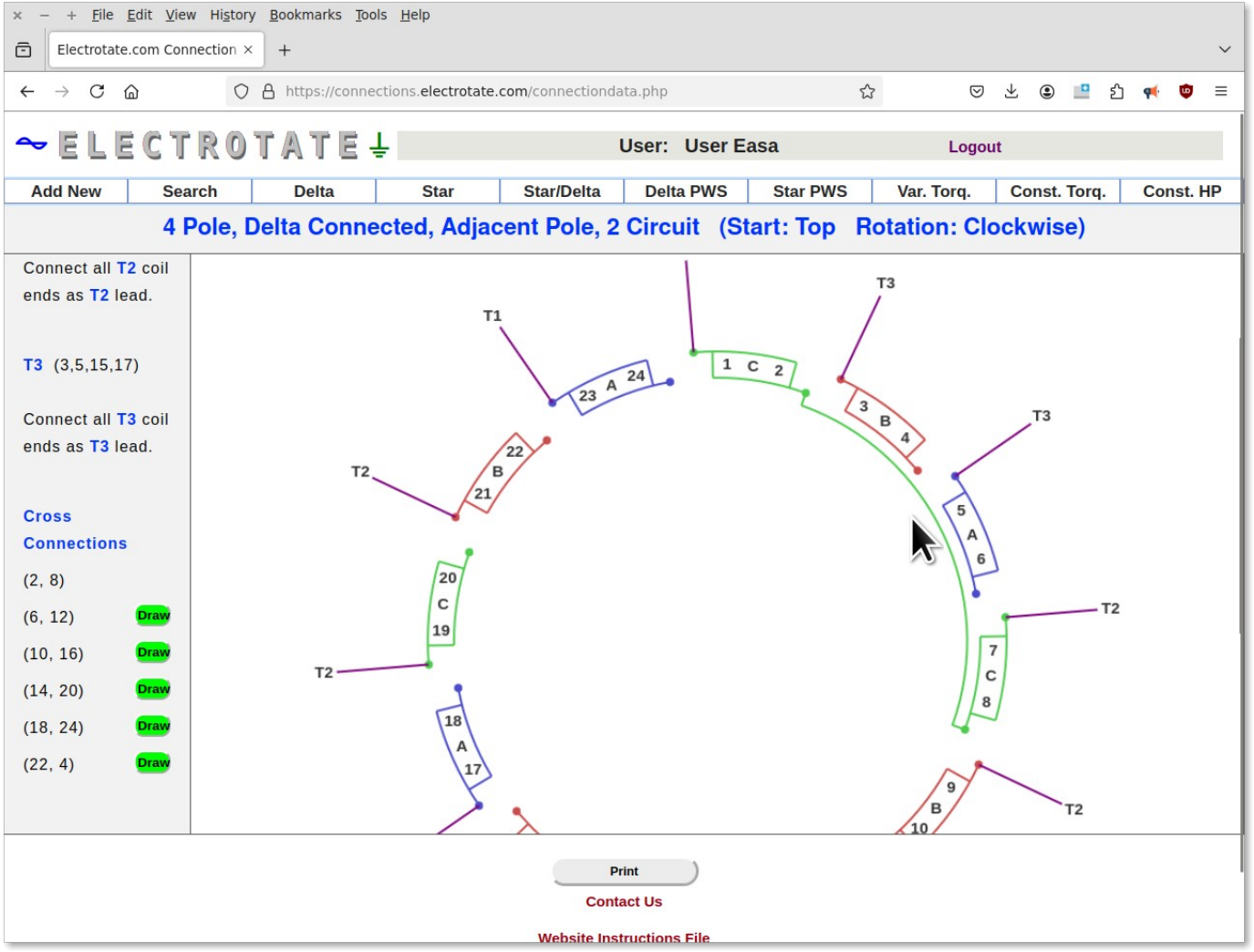

The drawing is shown with no connections. On the written connection key, there is a green ‘Draw’ button next to each connection.



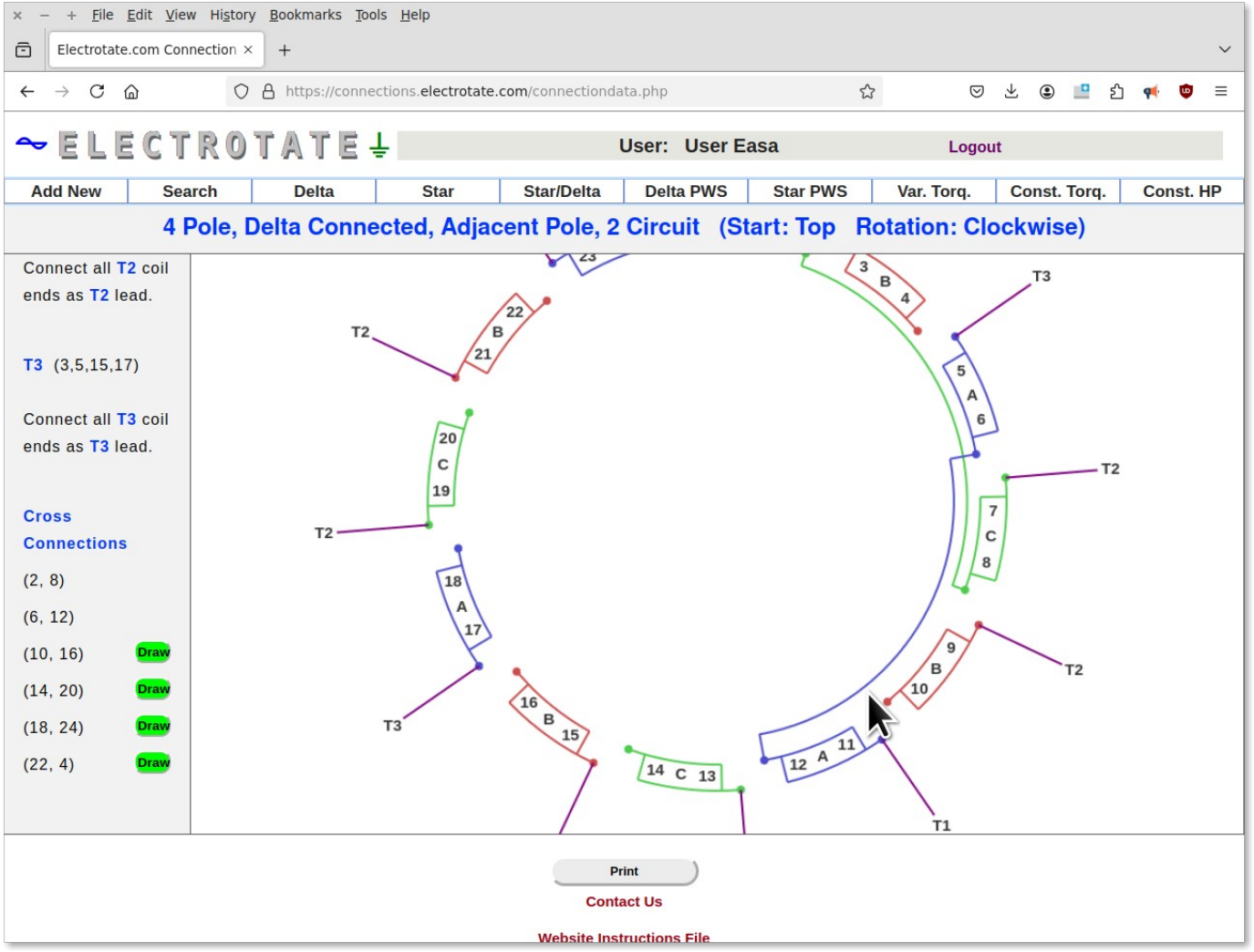

Scroll down the connection key window to see all of the connection buttons. Clicking these buttons will draw the corresponding connection on the diagram.



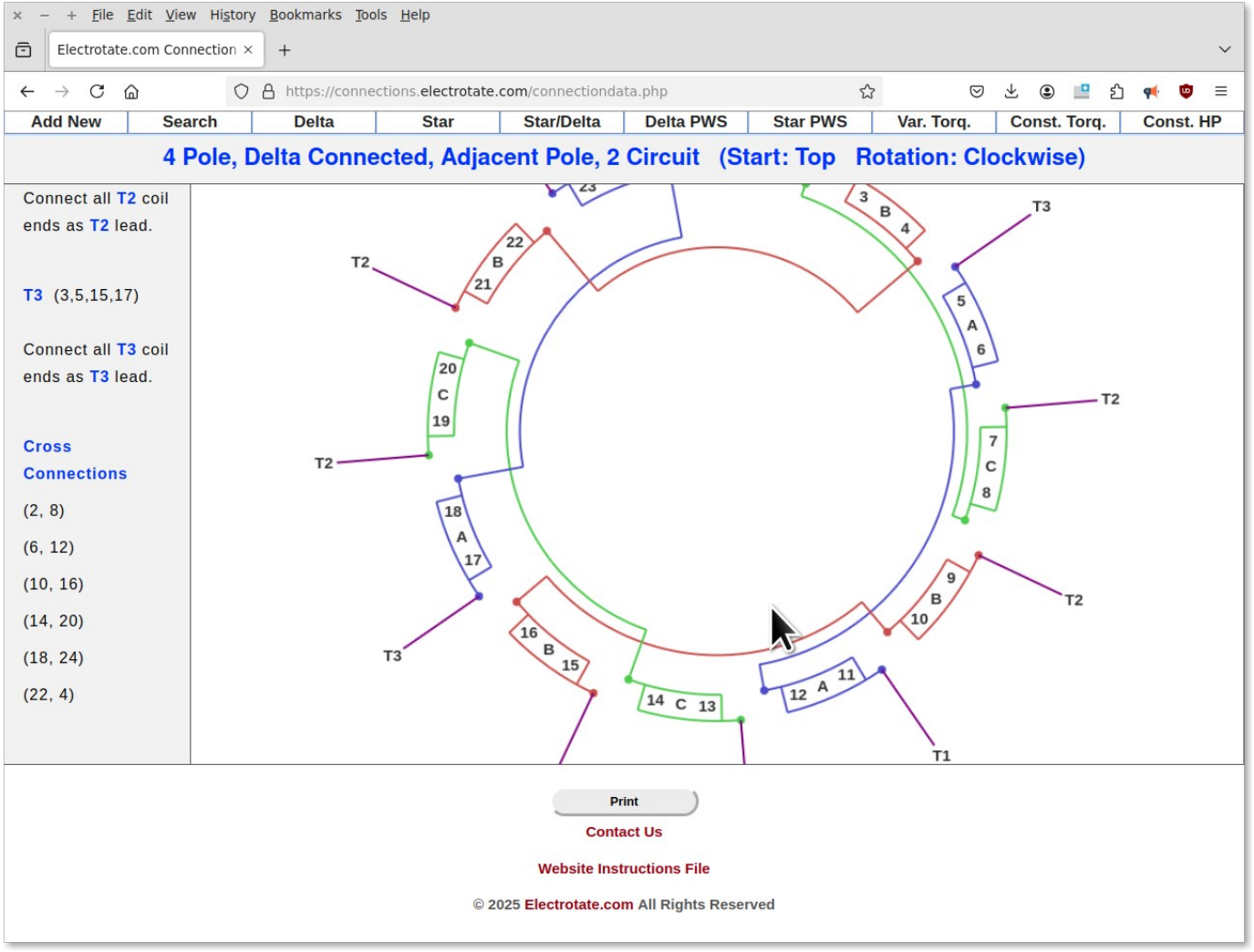

The button for ‘T1’ has been clicked, and the ‘T1’ connection is now shown on the drawing. The Draw button disappears once the connection has been drawn.



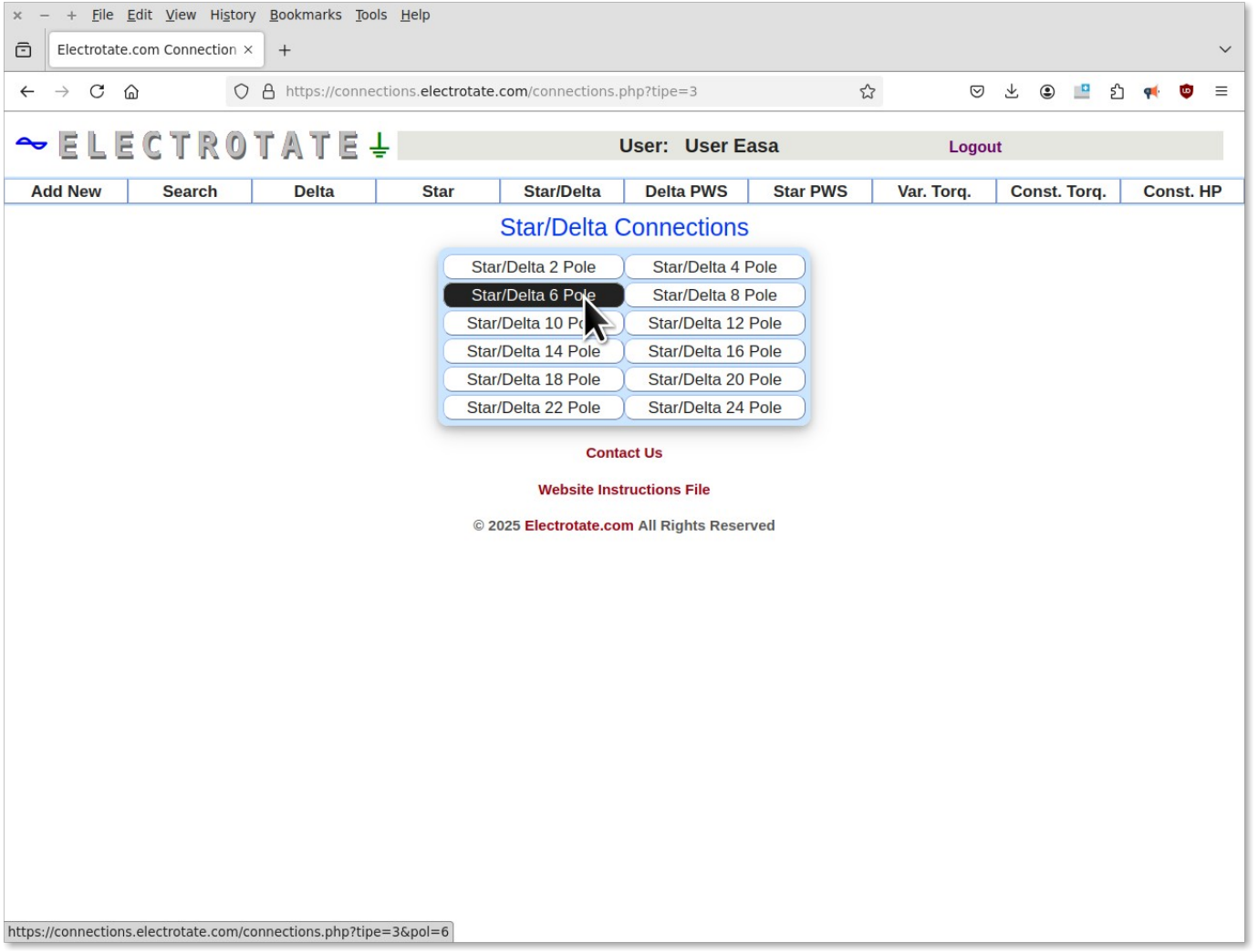

The buttons for ‘T2’ and ‘T3’ leads have been clicked, and the connections are now shown on the drawing. The cross connection (2,8) has also been drawn.



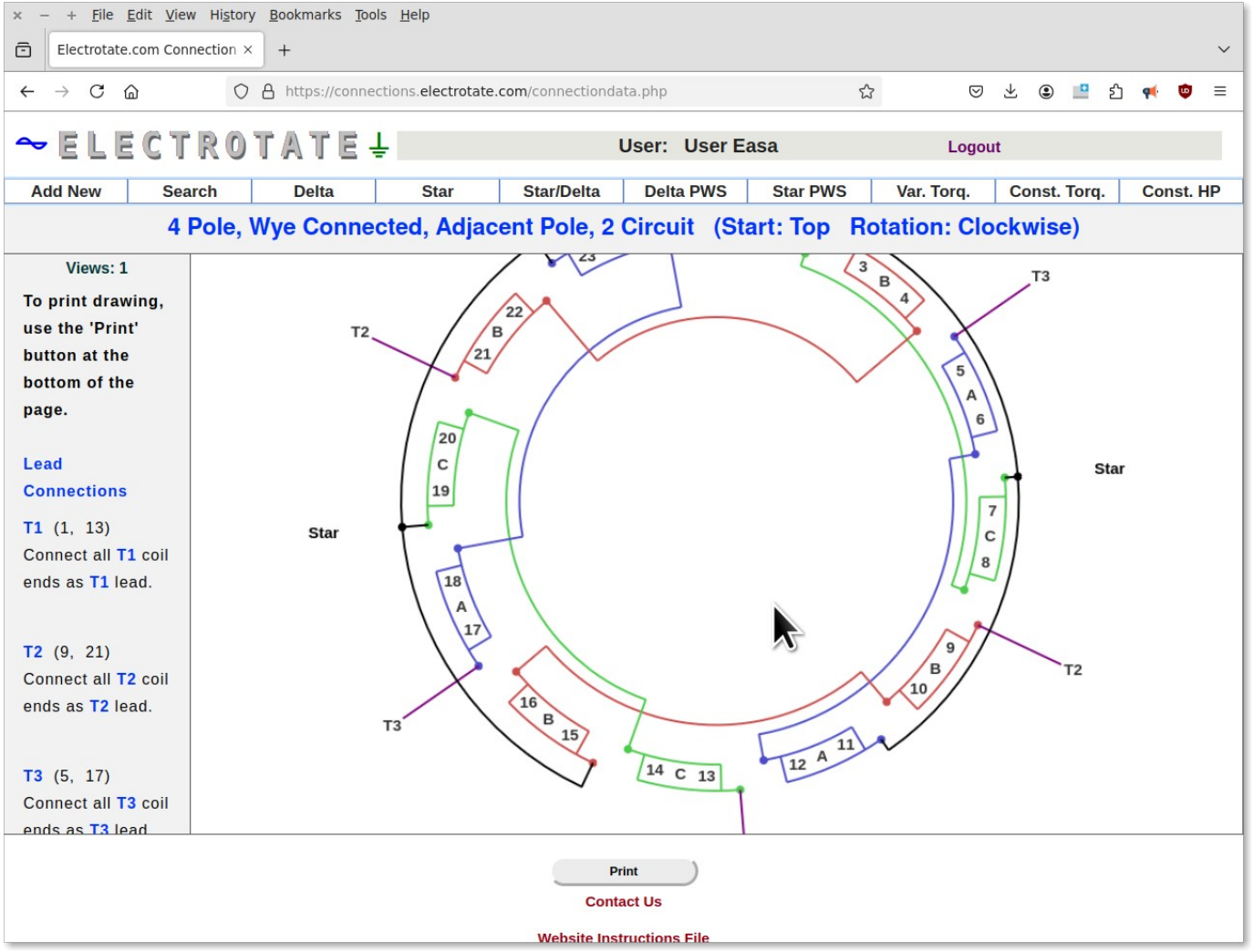

The button for the (6,12) connection has been clicked, and it is now shown on the drawing in blue.



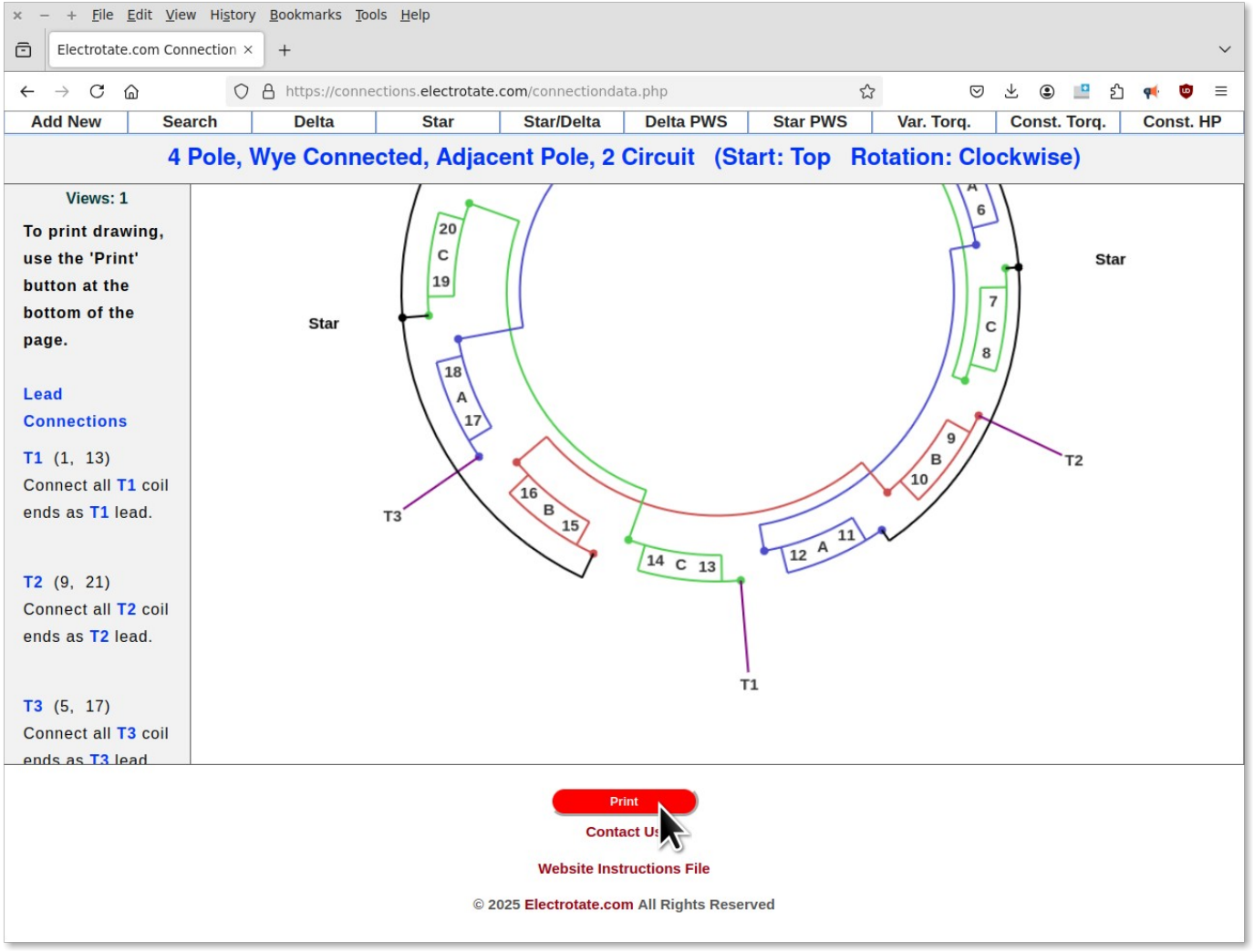

The connection buttons have all been clicked, and all the connections are shown on the diagram.



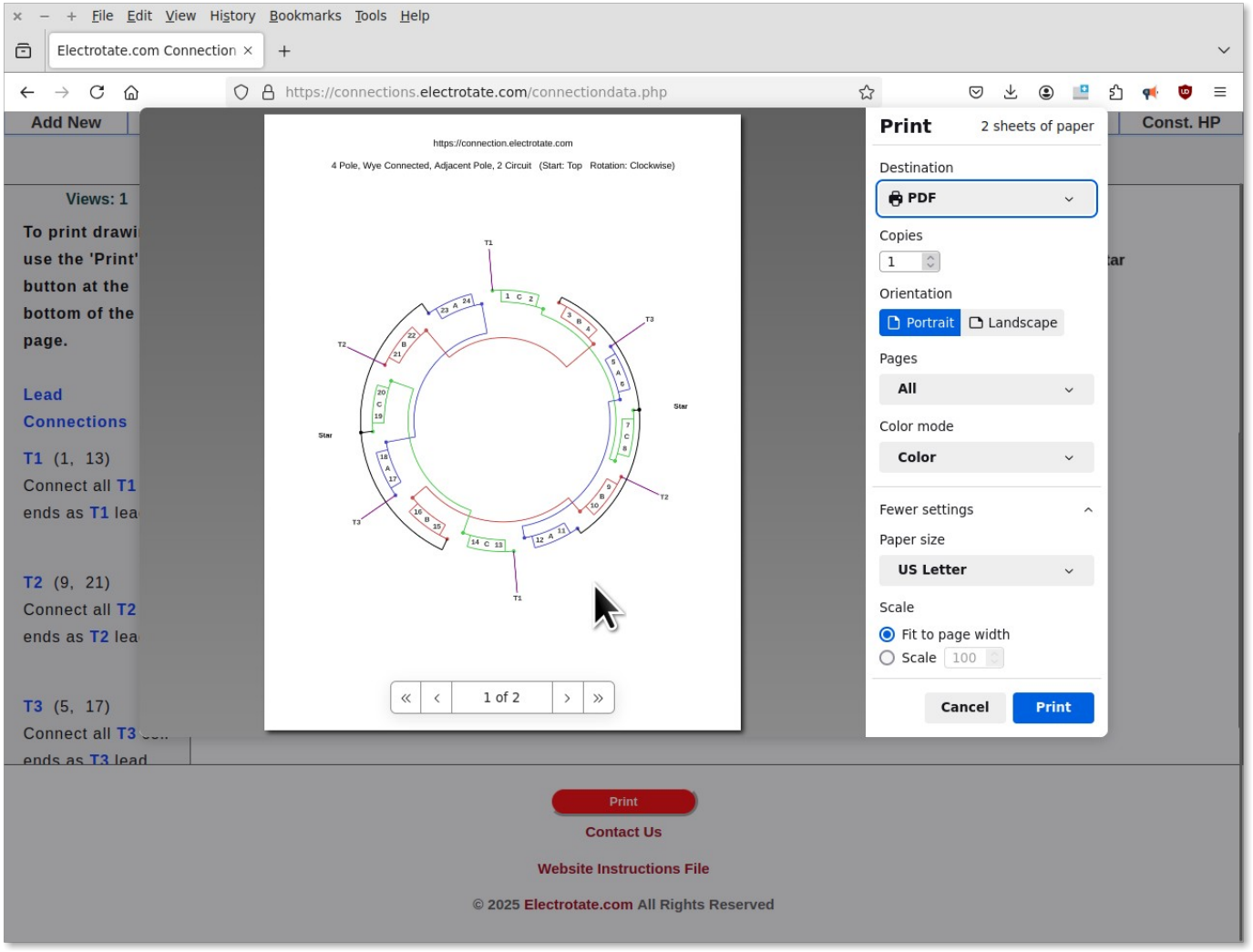

If the top level navigation link is clicked instead of a drop down link, the page displays a table of links for that connection type.  Click on the Star/Delta 6 Pole connection link.



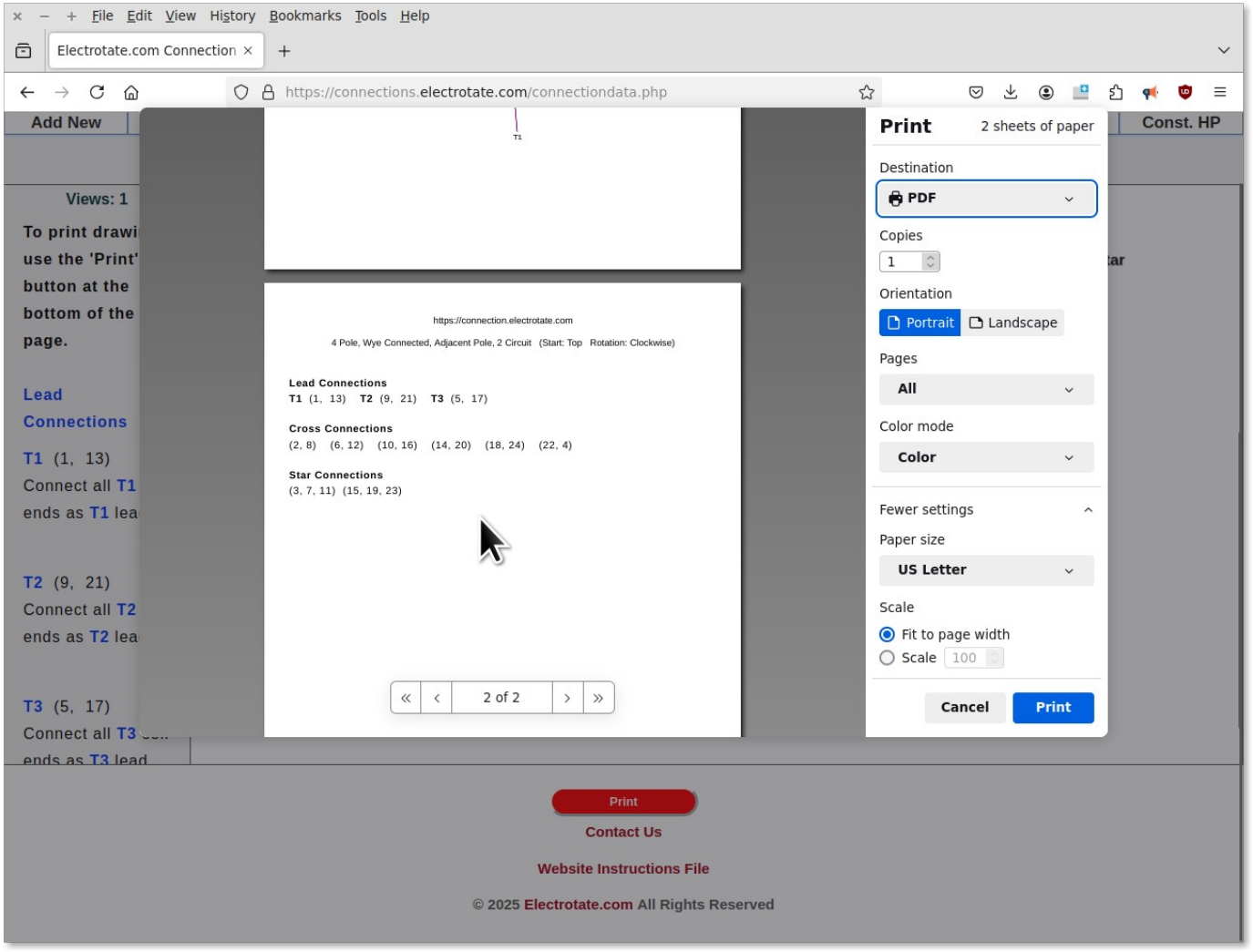

A 4 Pole, Wye Connected, Adjacent Pole, 2 Circuit connection is shown here. The wyes are labeled ‘Star’.



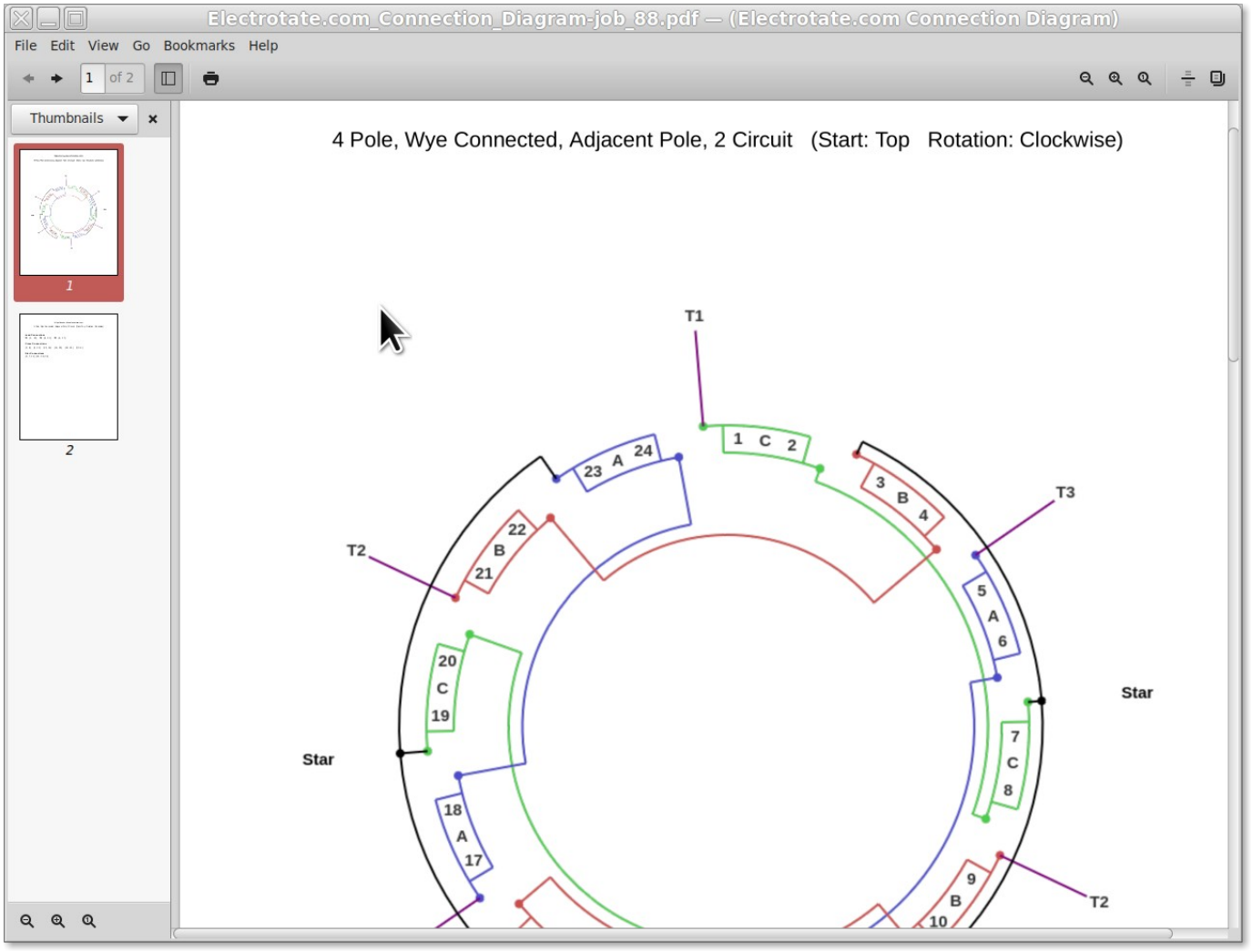

To print the connection diagram and written connection key, click the ‘Print’ button at the bottom of the page.



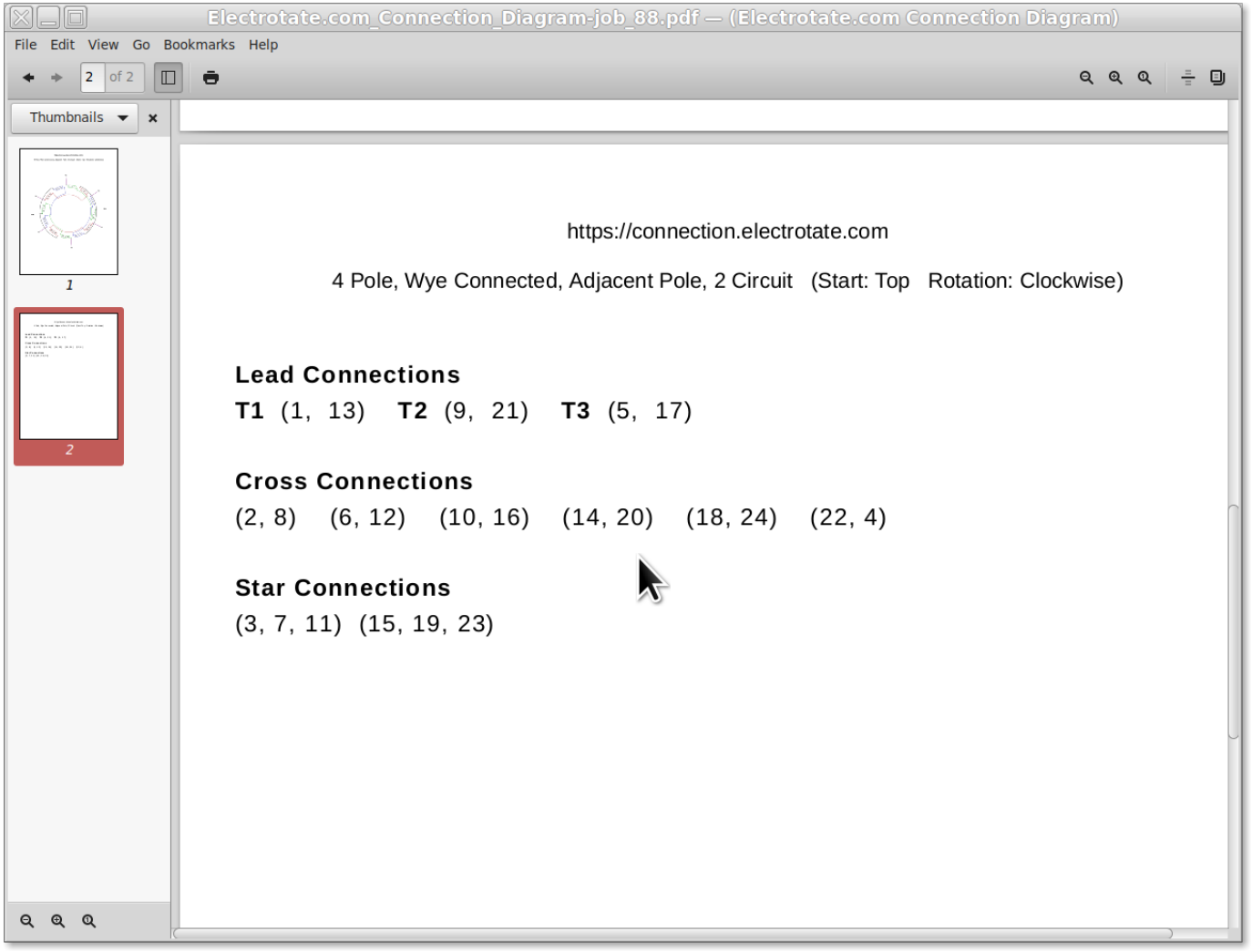

This brings up the print dialog. Choose to print, or save as pdf file. The first page shows the drawing . . .



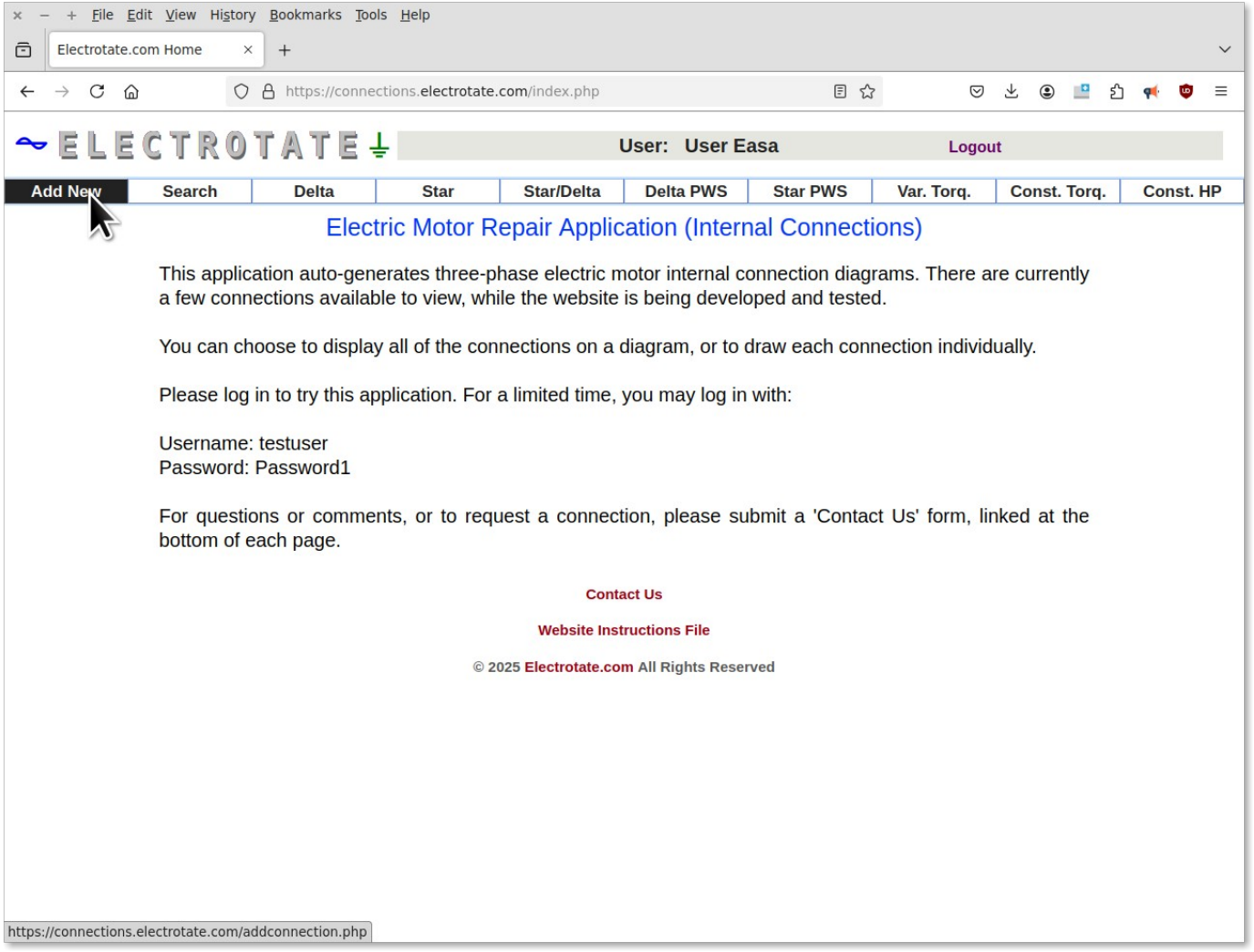

. . . and the second page displays the written connection key.



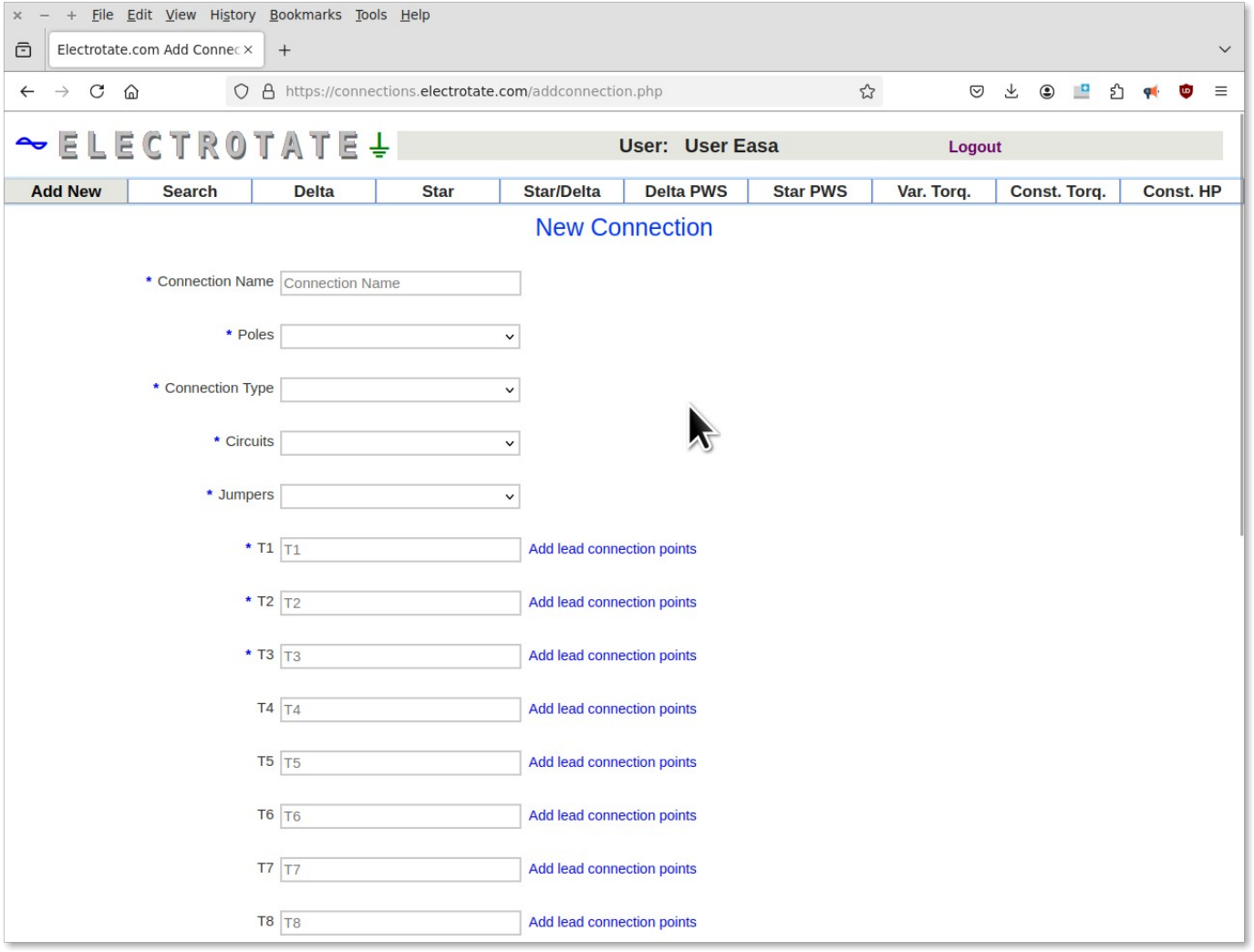

Shown here is the first page of the saved pdf file, showing the diagram.



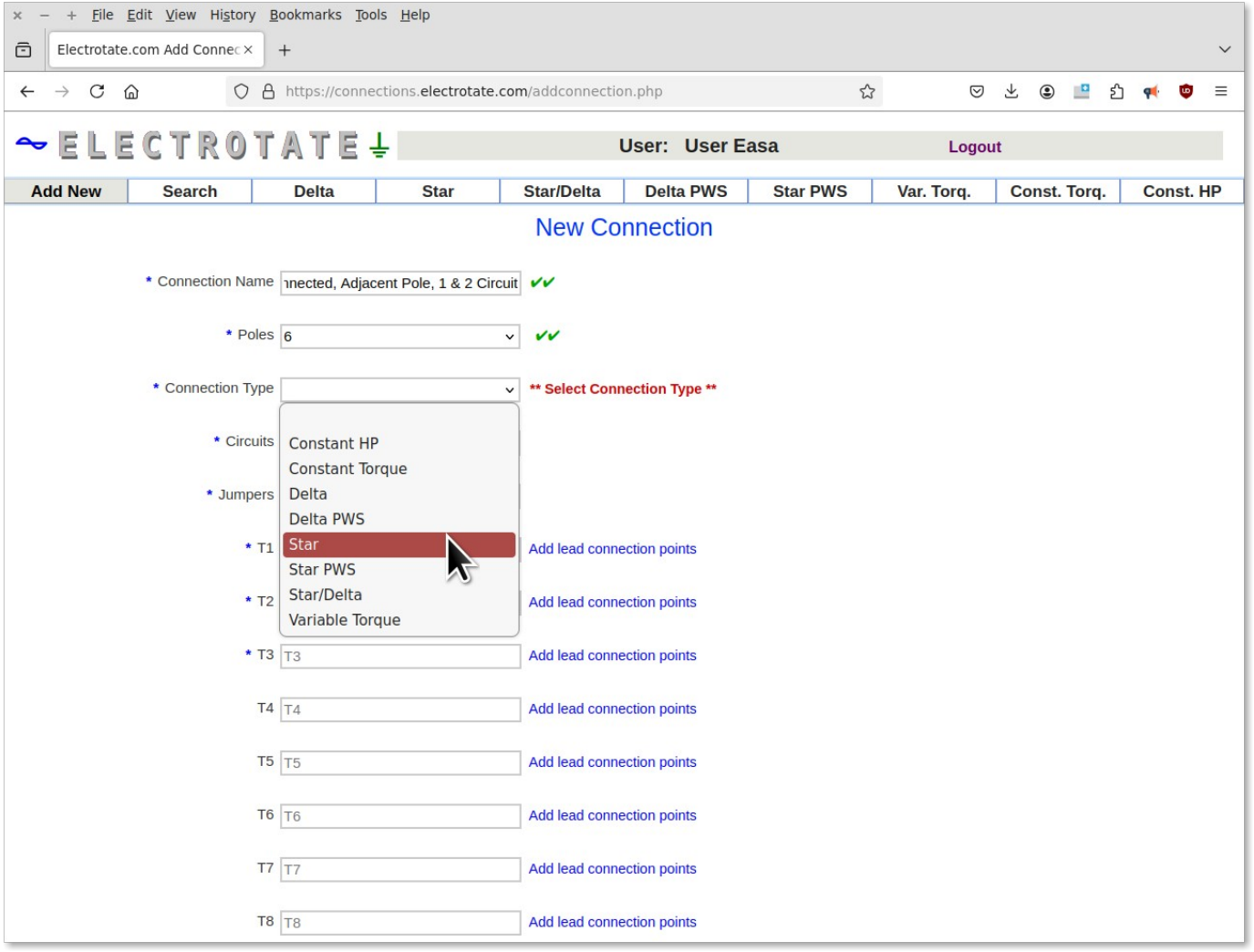

The second page of the pdf file shows the written connection key.



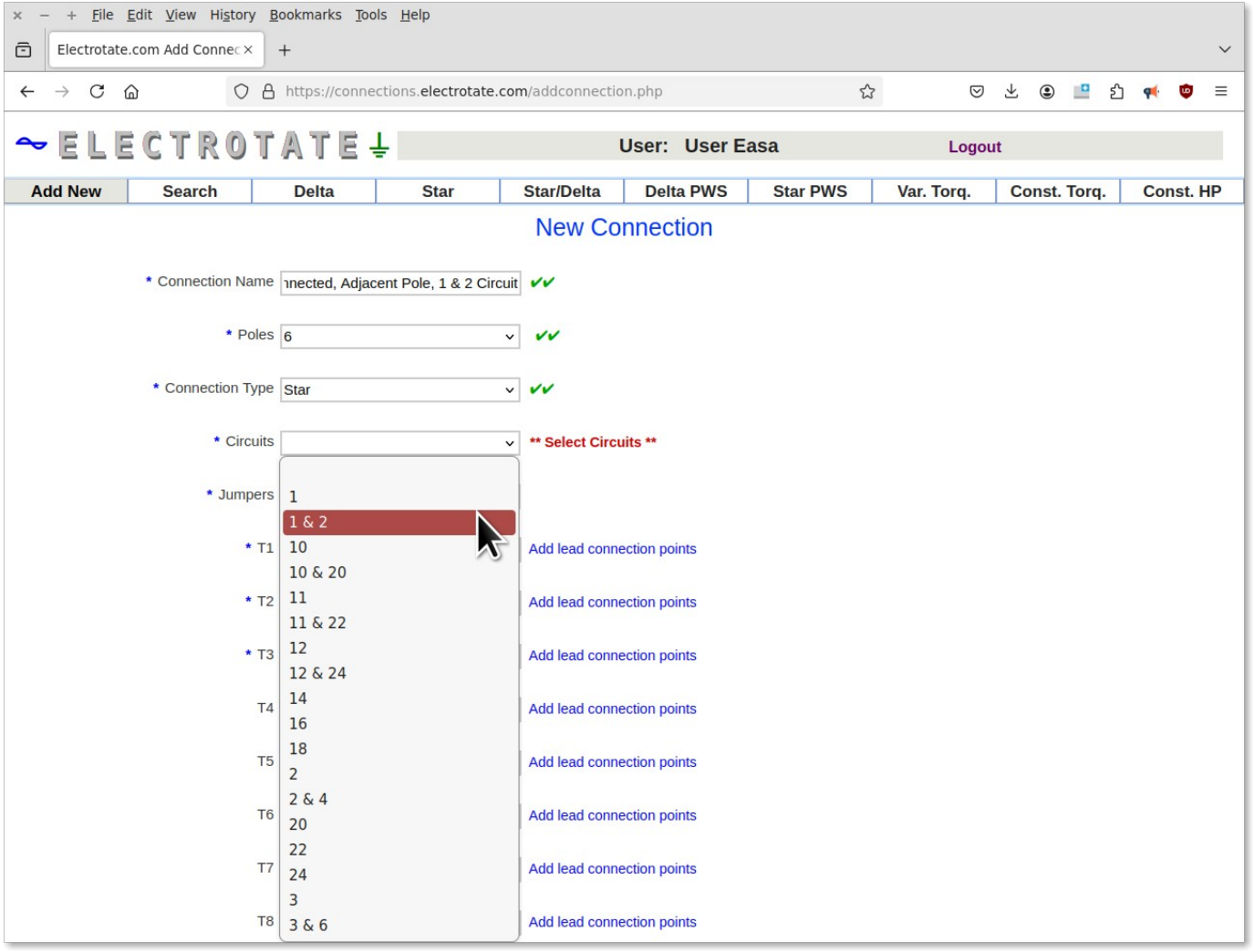

Click on the ‘Add New’ navigation link, to add a new connection.



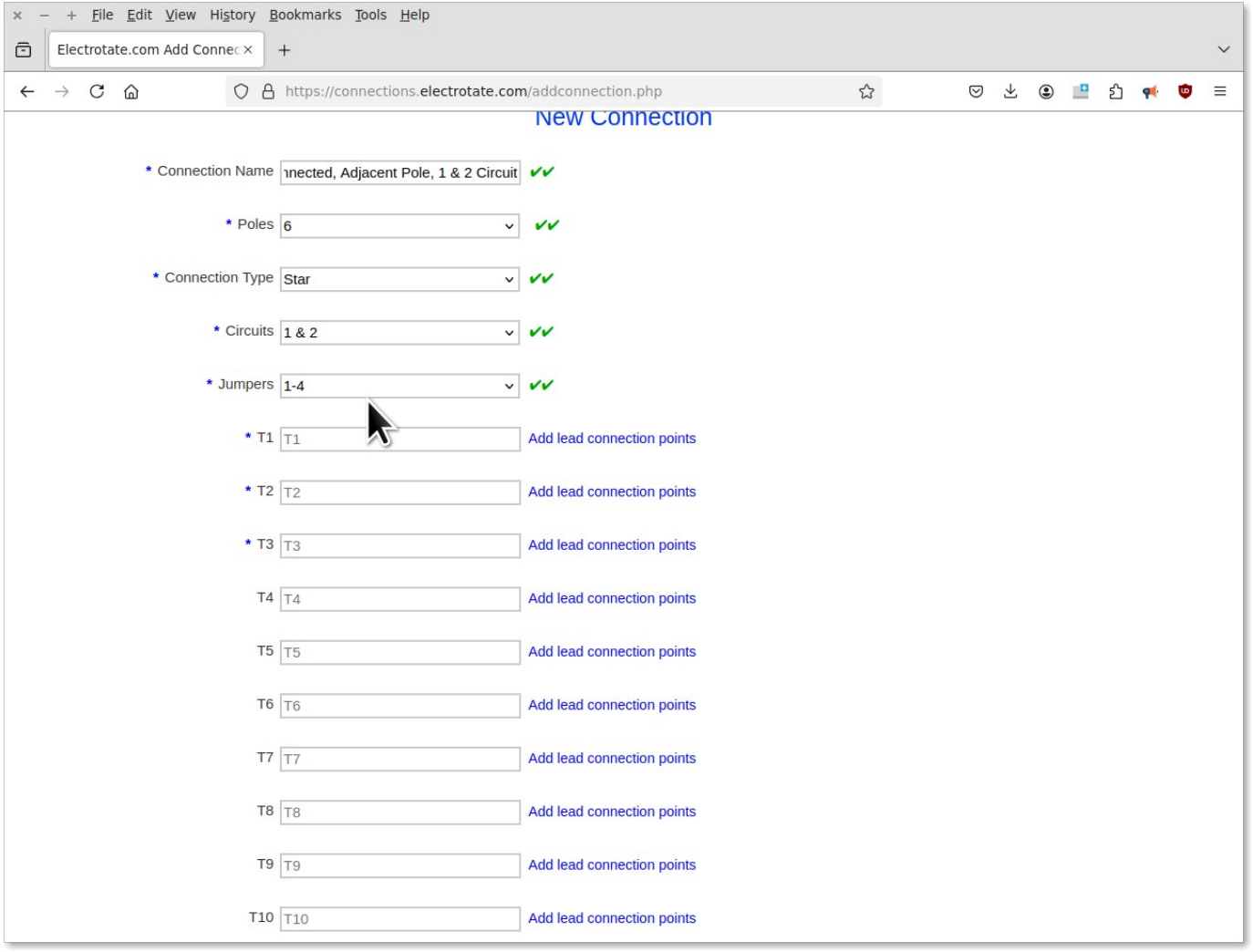

The form has several required fields, Name, Poles, Type, Circuits, Jumpers, T1, T2, and T3 leads. The rest of the fields are optional, depending on the connection entered.




The Connection Name has been added, and the poles selected (6). Select the type of connection, in this case, Star.




Select ‘1 & 2’ from the Circuits selection form entry.




The Jumpers selected is 1-4, which is the cross connection parameter for ‘Adjacent Pole’ connections.

Adding leads, stars/wyes and cross connections must be done in the following manner.

For stars, please use a comma separated list for each coil end, separated by a forward slash.  Example:

3, 7, 11 / 15, 19, 23

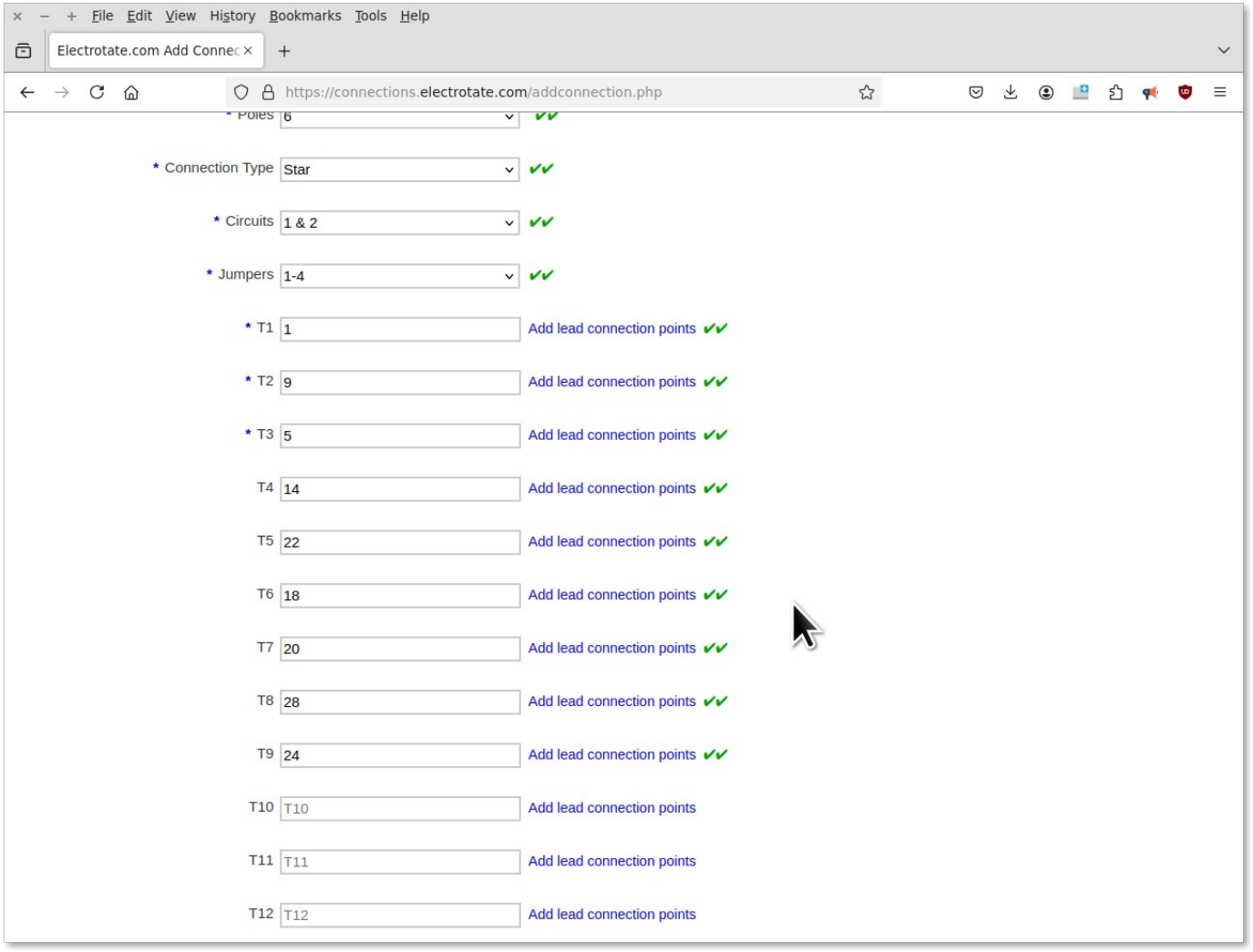
For cross connections, please separate each coil end number with a dash, and each connection with a comma.  Example:

2-8, 6-12, 10-16, . . . etc.

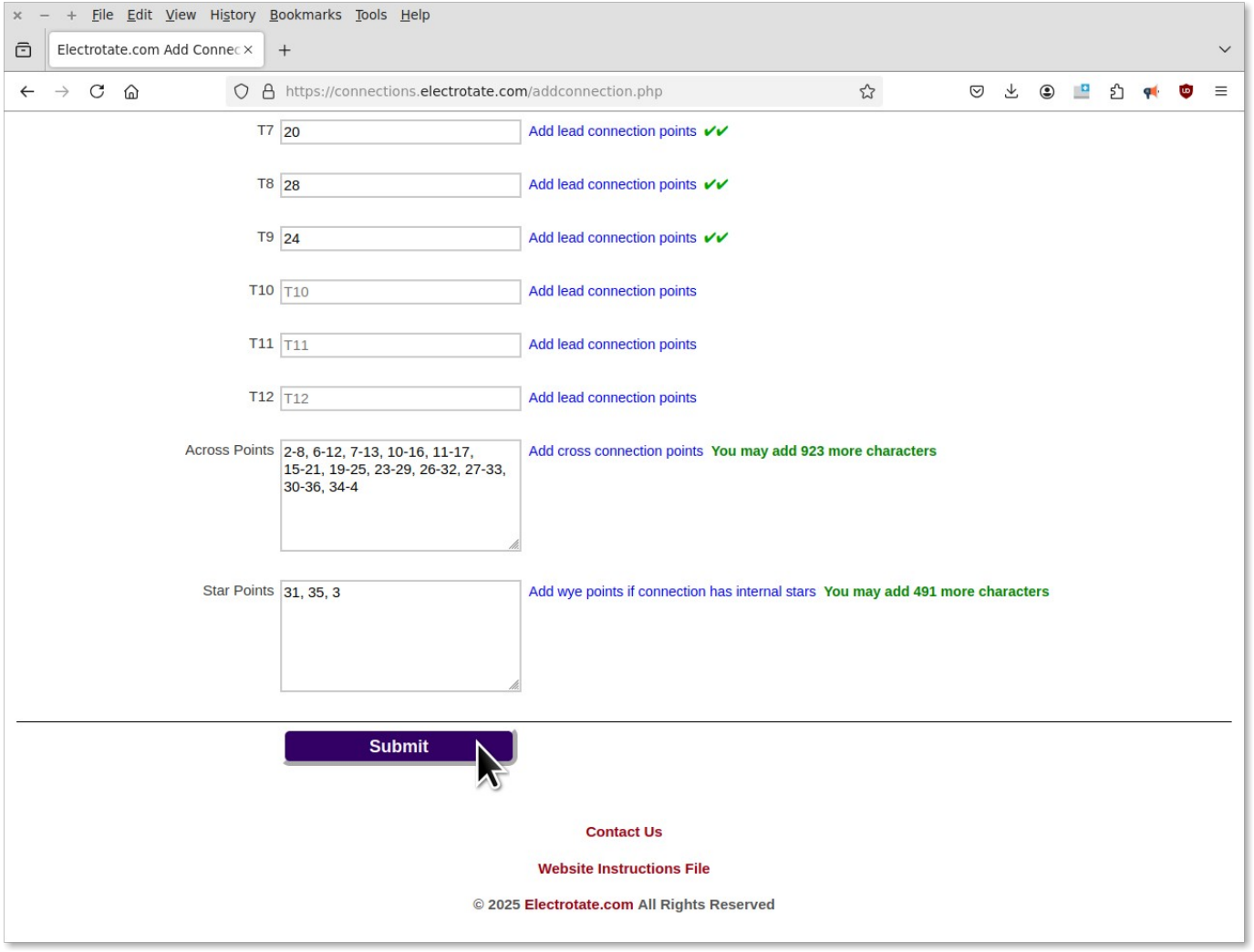
Cross connectons such as 71 and 5 must be entered as 71-5, which is the shortest distance between the two coil ends.  If it is entered as 5-71, it will not display correctly.

For leads, use a comma separated list for each lead.  Example:

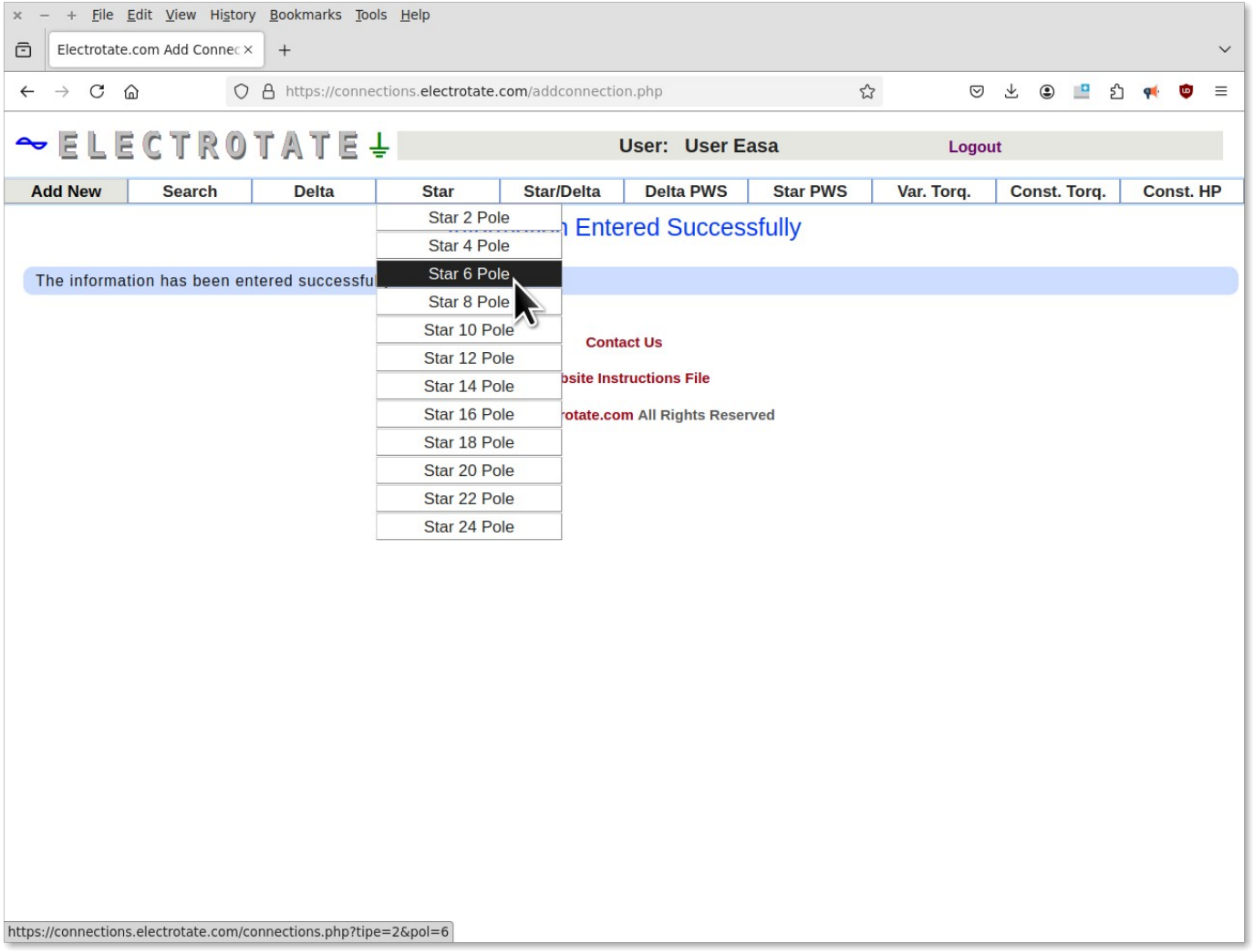
1, 8, 13, 20



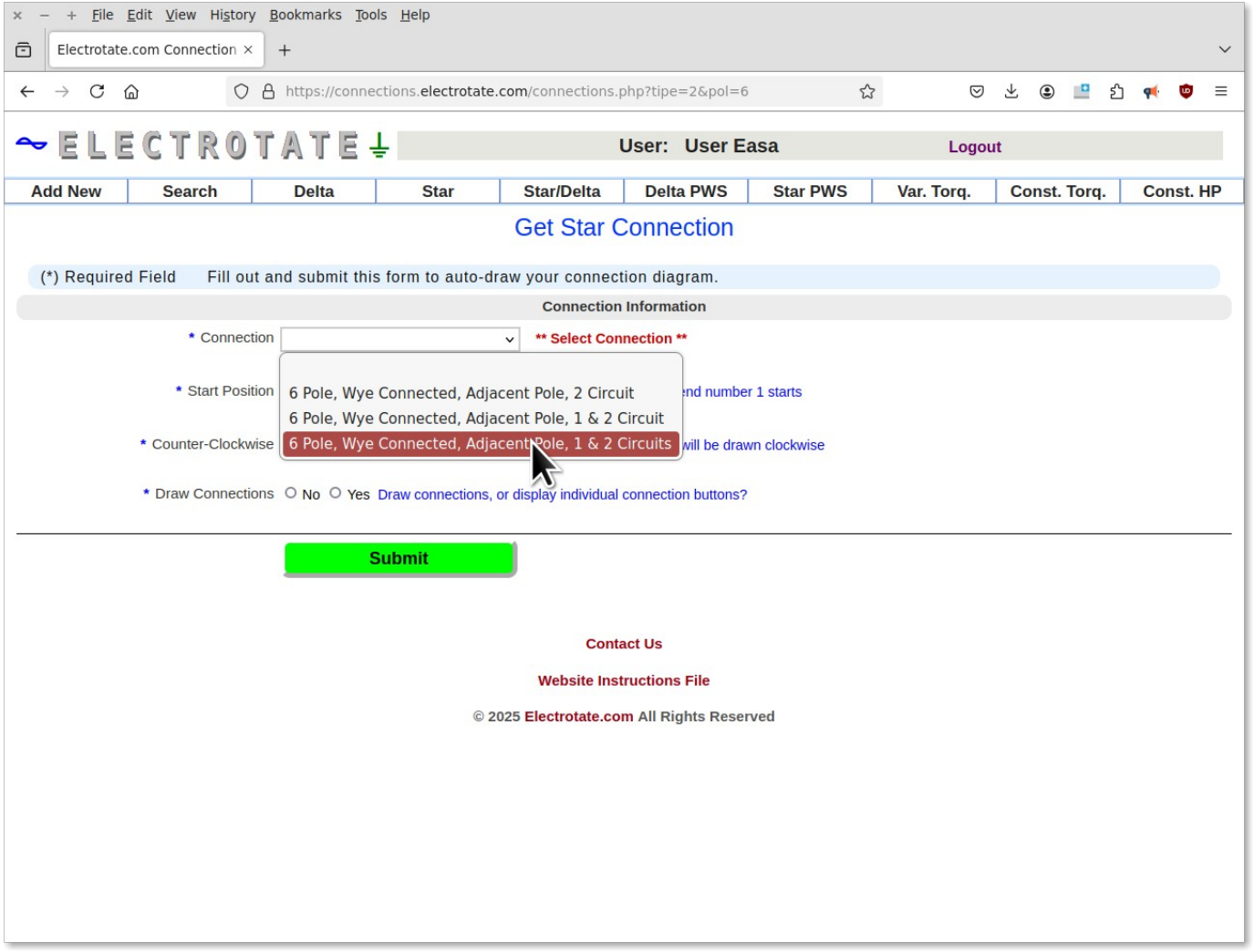

Enter the coil end numbers for each lead T1-T9.



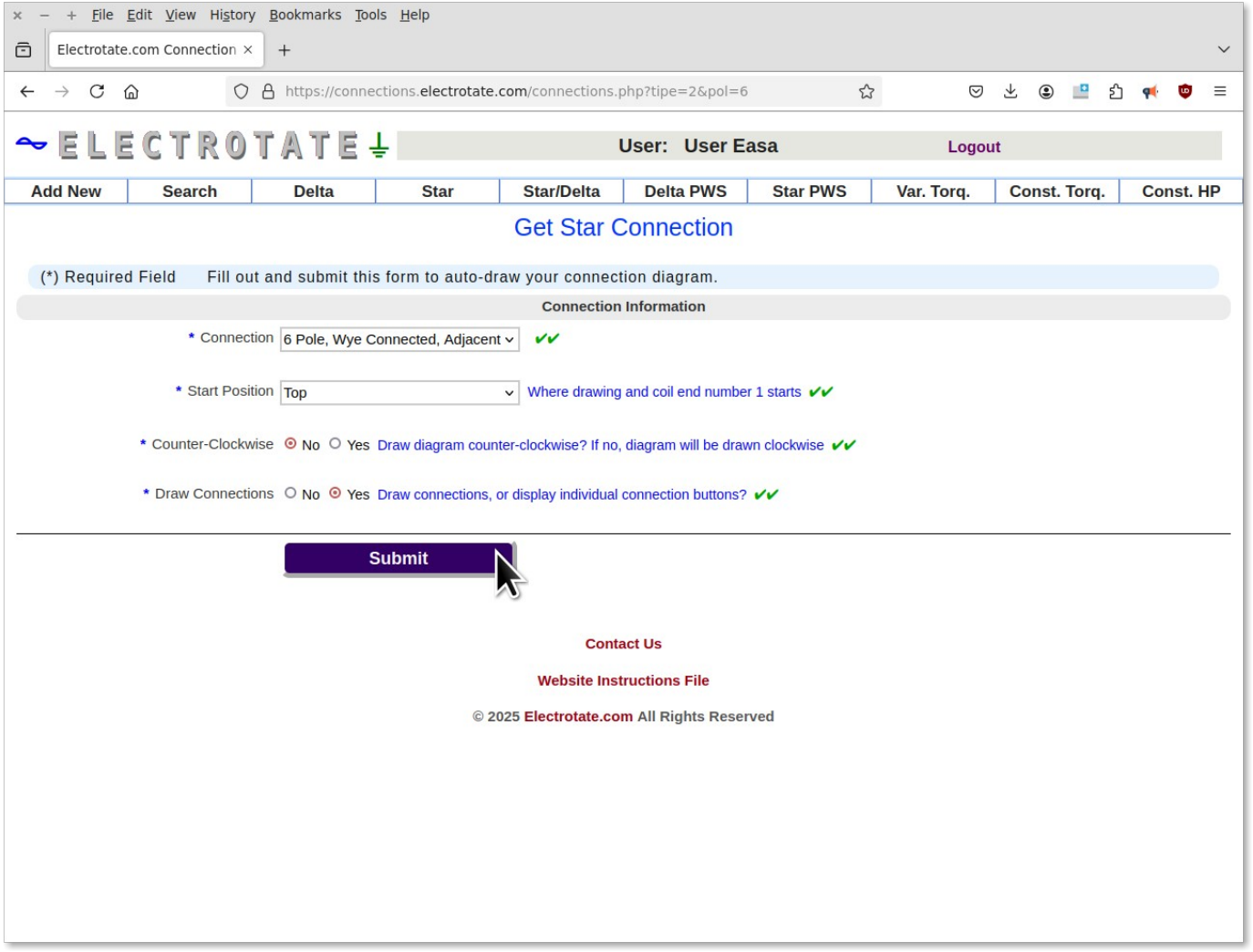

Type in the cross connections in the ‘Across Points’ field, and the star connections in the ‘Star Points’ field.  Then click the Submit button to save the connection in the database.



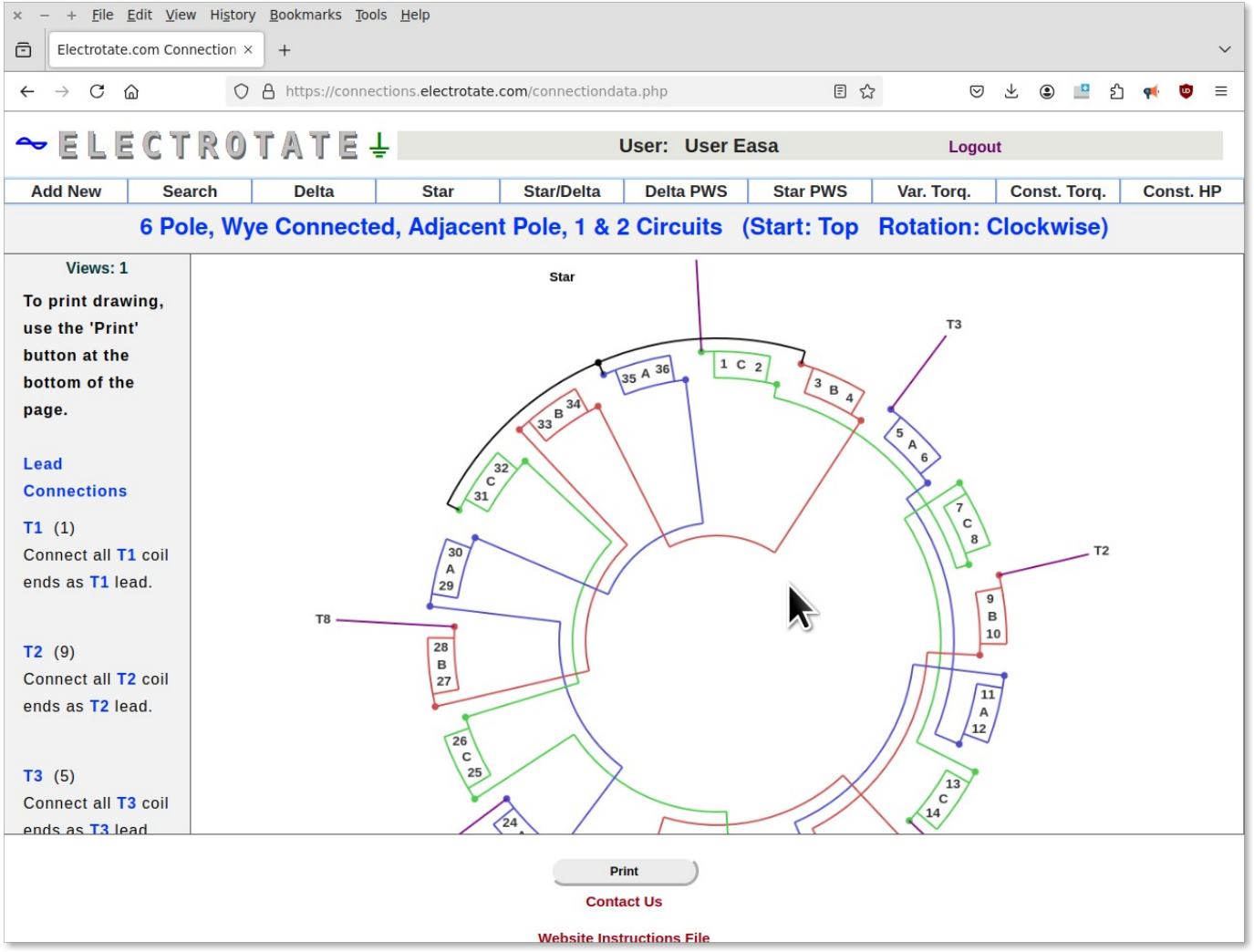

To view the just-added connection, click on the Star 6 Pole drop down menu.



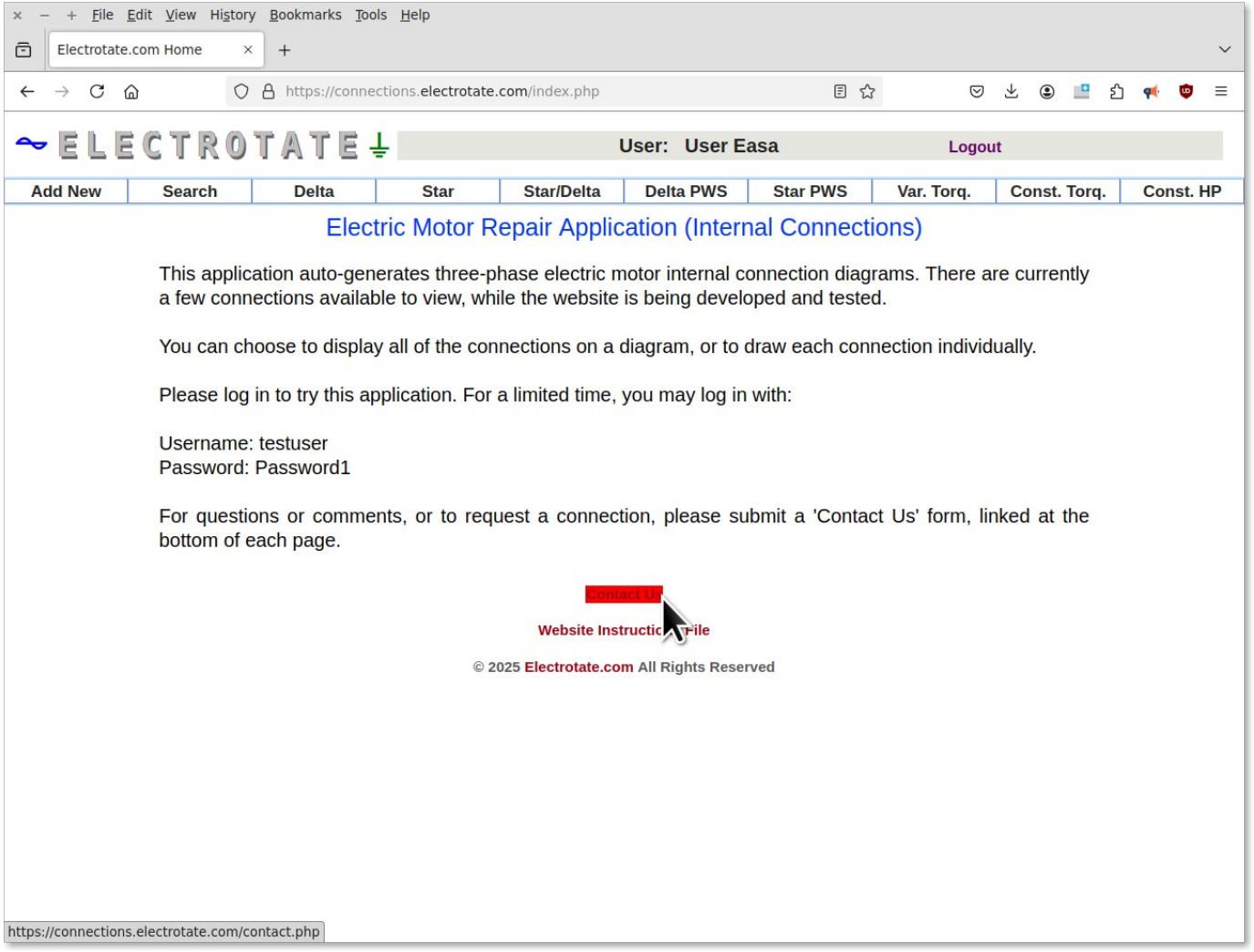

Select the ‘6 Pole, Wye Connected, Adjacent Pole, 1 & 2 Circuit’ from the Connection select entry.



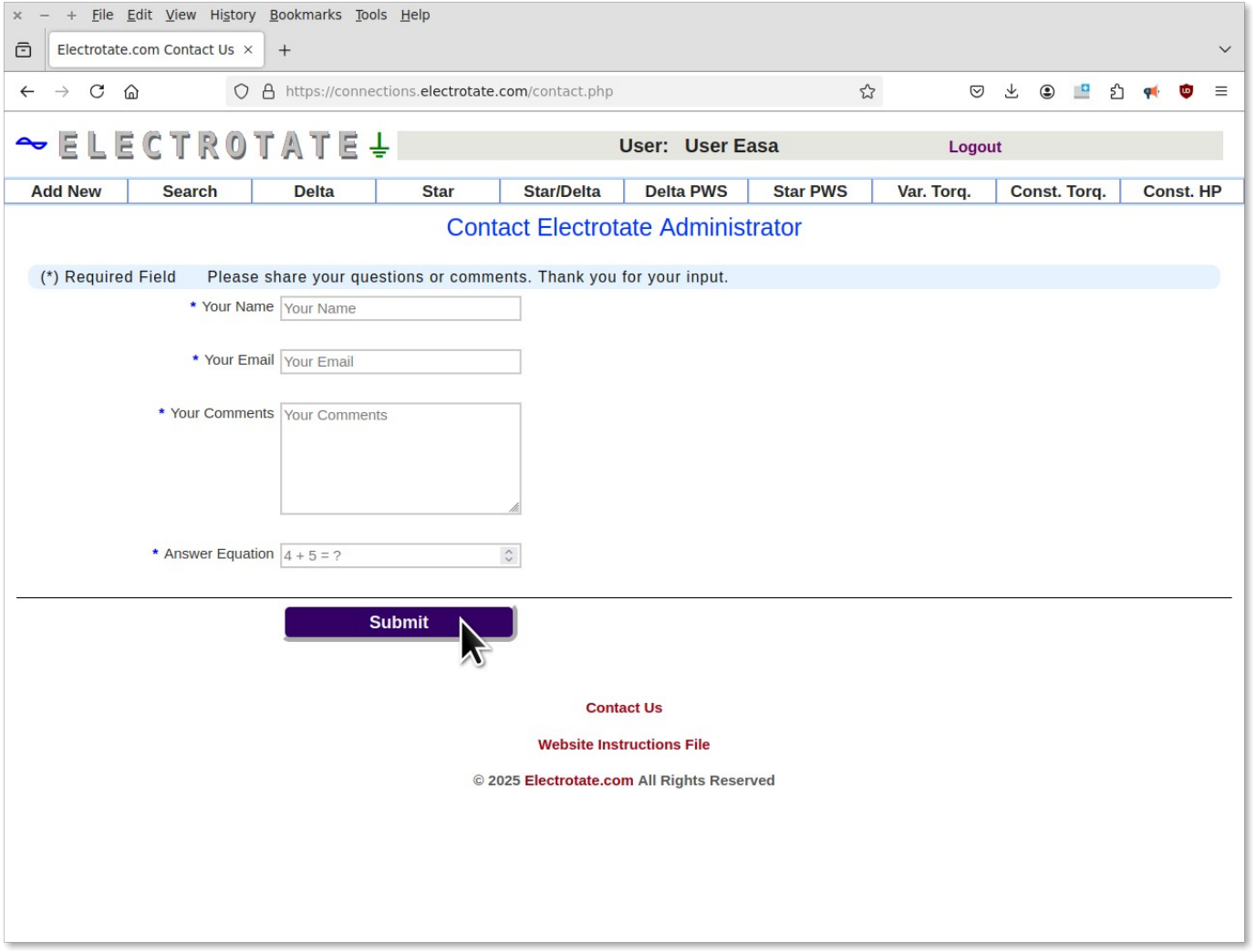

Select Top for orientation, No for Counter-Clockwise, and Yes for Draw Connections, then click the Submit button.




The drawing is shown starting at the top, with a clockwise rotation.




To send questions, comments, or request a connection be added, please click the Contact Us link at the bottom of the page.




Fill in the form with your question, comment, or connection request, and submit. We will respond as soon as possible.