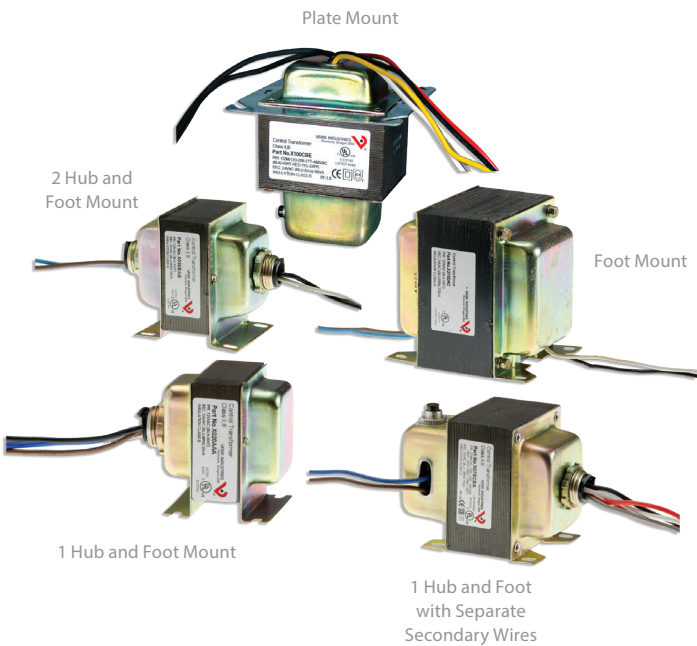


X SERIES



Veris X Series Control Transformers are a convenient source of control power for HVAC control and building automation applications. A wide variety of UL Listed transformers are available with single and dual threaded hub mounting options. Multiple current limiting options are available, including a circuit breaker in some models. Save ordering time and purchase order costs when buying other Veris sensors by including transformers in your order.

SPECIFICATIONS

|                         |                              |
|-------------------------|------------------------------|
| Frequency               | 50/60 Hz                     |
| Operating Temperature   | -40 to 65 °C (-40 to 149 °F) |
| No Load Voltage         | 27 to 28 Vac                 |
| Hub Style               | Fits 1/2" electrical k.o.    |
| Wire                    | UL 1015, 18 AWG*             |
| Wire Length             | 8 inches                     |
| <b>WARRANTY</b>         |                              |
| Limited Warranty        | 5 years                      |
| <b>AGENCY APPROVALS</b> |                              |



\*X085AAA, X375DAC have 14 AWG secondary wires.

UL Listings

UL listings for all models simplify panel building requirements

One-stop shopping

Save time by ordering along with other Veris products

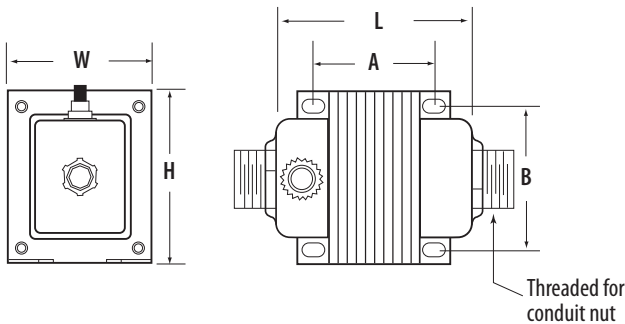
Threaded hub options

Threaded hub options maximize installation flexibility

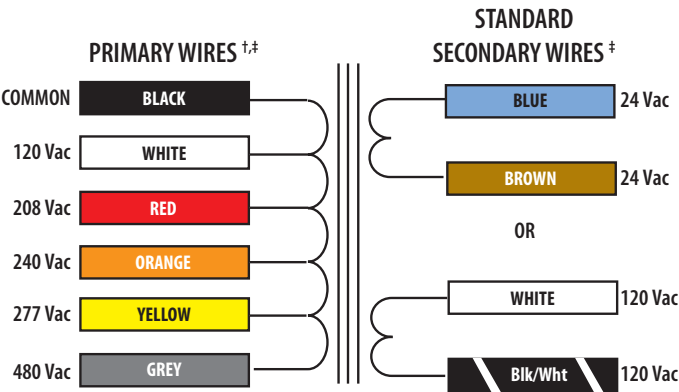
APPLICATIONS

- Controller power
- Powering sensors
- Driving relays and other digital I/O circuits

DIMENSIONAL DRAWING

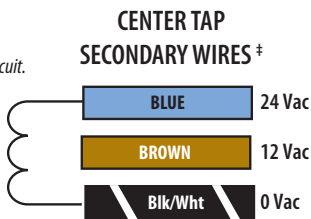


WIRE COLORS



<sup>†</sup> Primary of 24 V isolation transformers = Red/Red

<sup>‡</sup> Colors refer to the transformer wiring, not the external circuit.



## ORDERING INFORMATION

| MODEL      | VA              | PRIMARY VOLTAGE (VAC) | SECONDARY VOLTAGE (VAC) | CURRENT LIMITING METHOD | CLASS   | MOUNTING             | SEPARATED PRIMARY & SECONDARY WIRES | UL | CE  | L   | W   | H    | A    | B    |
|------------|-----------------|-----------------------|-------------------------|-------------------------|---------|----------------------|-------------------------------------|----|-----|-----|-----|------|------|------|
| STANDARD   |                 |                       |                         |                         |         |                      |                                     |    |     |     |     |      |      |      |
| X020AAA    | 20              | 120                   | 24                      | Inherent                | 2       | 1HUB+FT              |                                     | •  | •   | 2.3 | 1.9 | 2.6  | 1.59 | 1.69 |
| X020ACA    |                 | 277                   |                         | Inherent                | 2       | 1HUB+FT              |                                     | •  | •   | 2.3 | 1.9 | 2.6  | 1.59 | 1.69 |
| X020ADA    |                 | 24                    |                         | Inherent                | General | 1HUB+FT              |                                     | •  | •   | 2.3 | 1.9 | 2.6  | 1.59 | 1.69 |
| X040AAA    | 40              | 120                   |                         | Inherent                | 2       | 1HUB+FT              |                                     | •  | •   | 2.7 | 2.2 | 2.9  | 1.98 | 1.81 |
| X040AAB    |                 | 120                   |                         | Inherent                | 2       | 2HUB+FT              | •                                   | •  | •   | 2.7 | 2.2 | 2.9  | 1.98 | 1.81 |
| X040ACA    |                 | 277                   |                         | Inherent                | 2       | 1HUB+FT              |                                     | •  | •   | 2.7 | 2.2 | 2.9  | 1.98 | 1.81 |
| X040ADA    |                 | 24                    |                         | Inherent                | 2       | 1HUB+FT              |                                     | •  | •   | 2.7 | 2.2 | 2.9  | 1.98 | 1.81 |
| X040AMB    |                 | 120/208/240/277       |                         | Fuse                    | 2       | 2HUB+FT              | •                                   | •  | •   | 2.7 | 2.2 | 2.9  | 1.98 | 1.81 |
| X040BNA    |                 | 120/208/240           |                         | Fuse                    | 2       | 1HUB+FT              |                                     | •  | •   | 2.7 | 2.2 | 2.9  | 1.98 | 1.81 |
| X050BAA    | 50              | 120                   | 24                      | Fuse                    | 2       | 1HUB+FT              |                                     | •  | •   | 2.8 | 2.2 | 2.9  | 2.06 | 1.81 |
| X050BAB    |                 | 120                   |                         | Fuse                    | 2       | 2HUB+FT              | •                                   | •  | •   | 2.8 | 2.2 | 2.9  | 2.06 | 1.81 |
| X050BCA    |                 | 277                   |                         | Fuse                    | 2       | 1HUB+FT              |                                     | •  | •   | 2.8 | 2.2 | 2.9  | 2.06 | 1.81 |
| X050BGB    |                 | 208/240               |                         | Fuse                    | 2       | 2HUB+FT              | •                                   | •  | •   | 2.8 | 2.2 | 2.9  | 2.06 | 1.81 |
| X050CAA    |                 | 120                   |                         | Circuit Breaker         | 2       | 1HUB+FT              |                                     | •  | •   | 3.5 | 2.5 | 3.1  | 1.91 | 2.03 |
| X050CBA    |                 | 120/240/277/480       |                         | Circuit Breaker         | 2       | 1HUB+FT              |                                     | •  | •   | 3.5 | 2.5 | 3.1  | 1.91 | 2.03 |
| X050CBB    |                 | 120/240/277/480       |                         | Circuit Breaker         | 2       | 2HUB+FT              | •                                   | •  | •   | 3.5 | 2.5 | 3.1  | 1.91 | 2.03 |
| X050CCA    |                 | 277                   |                         | Circuit Breaker         | 2       | 1HUB+FT              |                                     | •  | •   | 3.5 | 2.5 | 3.1  | 1.91 | 2.03 |
| X050CEB    |                 | 208/240/277/480       | 120                     | Circuit Breaker         | General | 2HUB+FT              | •                                   | •  | •   | 3.5 | 2.5 | 3.1  | 1.91 | 2.03 |
| X050CEG    |                 | 208/240/277/480       |                         | Circuit Breaker         | General | Plate, 90° Sec Elbow | •                                   | •  | •   | 3.5 | 4.0 | 4.0  | 3.38 | 3.38 |
| X050CHA    | 75              | 120/208/240/480       | 24                      | Circuit Breaker         | 2       | 1HUB+FT              |                                     | •  | •   | 3.5 | 2.5 | 3.1  | 1.91 | 2.03 |
| X050CHB    |                 | 120/208/240/480       |                         | Circuit Breaker         | 2       | 2HUB+FT              | •                                   | •  | •   | 3.5 | 2.5 | 3.1  | 1.91 | 2.03 |
| X050CNA    |                 | 120/208/240           |                         | Circuit Breaker         | 2       | 1HUB+FT              |                                     | •  | •   | 3.5 | 2.5 | 3.1  | 1.91 | 2.03 |
| X050CNB    |                 | 120/208/240           |                         | Circuit Breaker         | 2       | 2HUB+FT              | •                                   | •  | •   | 3.5 | 2.5 | 3.1  | 1.91 | 2.03 |
| X050COA    |                 | 120/208/240/277/480   |                         | Circuit Breaker         | 2       | 1HUB+FT              |                                     | •  | •   | 3.5 | 2.5 | 3.1  | 1.91 | 2.03 |
| X050COB    |                 | 120/208/240/277/480   |                         | Circuit Breaker         | 2       | 2HUB+FT              | •                                   | •  | •   | 4.3 | 2.5 | 3.1  | 2.70 | 2.00 |
| X075CAA    |                 | 120                   |                         | Circuit Breaker         | 2       | 1HUB+FT              |                                     | •  | •   | 3.9 | 2.5 | 3.1  | 2.31 | 2.03 |
| X075CAB    | 120             | Circuit Breaker       |                         | 2                       | 2HUB+FT | •                    | •                                   | •  | 3.9 | 2.5 | 3.1 | 2.31 | 2.03 |      |
| X075CBA    | 120/240/277/480 | Circuit Breaker       |                         | 2                       | 1HUB+FT |                      | •                                   | •  | 3.9 | 2.5 | 3.1 | 2.31 | 2.03 |      |
| X075CHA    | 120/208/240/480 | Circuit Breaker       |                         | 2                       | 1HUB+FT |                      | •                                   | •  | 3.9 | 2.5 | 3.1 | 2.31 | 2.03 |      |
| X085AAA    | 85              | 120                   |                         | Inherent                | General | 1HUB+FT              |                                     | •  | •   | 3.2 | 3.8 | 3.2  | 2.2  | 3.14 |
| X100CAA    | 99              | 120                   |                         | Circuit Breaker         | 2       | 1HUB+FT              |                                     | •  | •   | 4.1 | 2.5 | 3.1  | 2.51 | 2.03 |
| X100CAB    |                 | 120                   |                         | Circuit Breaker         | 2       | 2HUB+FT              | •                                   | •  | •   | 4.1 | 2.5 | 3.1  | 2.51 | 2.03 |
| X100CBA    |                 | 120/240/277/480       |                         | Circuit Breaker         | 2       | 1HUB+FT              |                                     | •  | •   | 4.3 | 2.5 | 3.1  | 2.70 | 2.03 |
| X100CBB    |                 | 120/240/277/480       |                         | Circuit Breaker         | 2       | 2HUB+FT              | •                                   | •  | •   | 4.3 | 2.5 | 3.1  | 2.70 | 2.03 |
| X100CBE    |                 | 120/208/277/480       |                         | Circuit Breaker         | 2       | Plate                |                                     | •  | •   | 4.3 | 4.0 | 4.0  | 3.38 | 3.38 |
| X100CHB    |                 | 120/208/240/480       |                         | Circuit Breaker         | 2       | 2HUB+FT              | •                                   | •  | •   | 4.3 | 2.5 | 3.1  | 2.70 | 2.03 |
| X100CKB    |                 | 480                   | 120                     | Circuit Breaker         | General | 2HUB+FT              | •                                   | •  | •   | 4.1 | 2.5 | 3.1  | 2.51 | 2.03 |
| X100CLB    | 220             | 24                    |                         | Circuit Breaker         | 2       | 2HUB+FT              | •                                   | •  | •   | 4.1 | 2.5 | 3.1  | 2.51 | 2.03 |
| X150CAA    | 150             |                       | Circuit Breaker         | General                 | 1HUB+FT | •                    | •                                   | •  | 3.5 | 3.8 | 3.2 | 2.08 | 3.26 |      |
| X175BAB    | 175             |                       | 120                     | Fuse                    | General | 2HUB+FT              | •                                   | •  | •   | 4.1 | 3.8 | 3.2  | 3.19 | 3.14 |
| X175CAB    |                 |                       | 120                     | Circuit Breaker         | General | 2HUB+FT              | •                                   | •  | •   | 4.1 | 3.8 | 3.2  | 3.19 | 3.14 |
| X175DGC    |                 |                       | 208/240                 | None                    | General | Foot                 | •                                   | •  | •   | 4.1 | 3.8 | 3.2  | 3.19 | 3.14 |
| X240DAA    | 240             |                       | 120                     | None                    | General | 1HUB+FT              | •                                   | •  | •   | 3.7 | 3.8 | 4.5  | 3.24 | 3.18 |
| X375DAC    | 375             |                       | 120                     | None                    | General | Foot                 | •                                   | •  | •   | 4.3 | 3.8 | 4.5  | 3.83 | 3.18 |
| X500DMC*   | 500             |                       | 120/208/240/277         | None                    | General | Foot                 | •                                   | •  | •   | 5.2 | 4.2 | 4.4  | 4.44 | 3.64 |
| CENTER TAP |                 |                       |                         |                         |         |                      |                                     |    |     |     |     |      |      |      |
| X020APC    | 20              | 24                    | 12/24                   | Inherent                | 2       | Foot                 | •                                   | •  | •   | 2.3 | 1.9 | 2.6  | 1.59 | 1.69 |
| X040BQC    | 40              | 120/208/240           |                         | Fuse                    | 2       | Foot                 | •                                   | •  | •   | 2.7 | 2.2 | 2.9  | 1.98 | 1.81 |
| X100CRC    | 100             | 120/240               |                         | Circuit Breaker         | 2       | 1HUB+FT              | •                                   | •  | •   | 4.3 | 2.5 | 3.1  | 2.70 | 2.03 |

\*X500DMC UL Recognized.