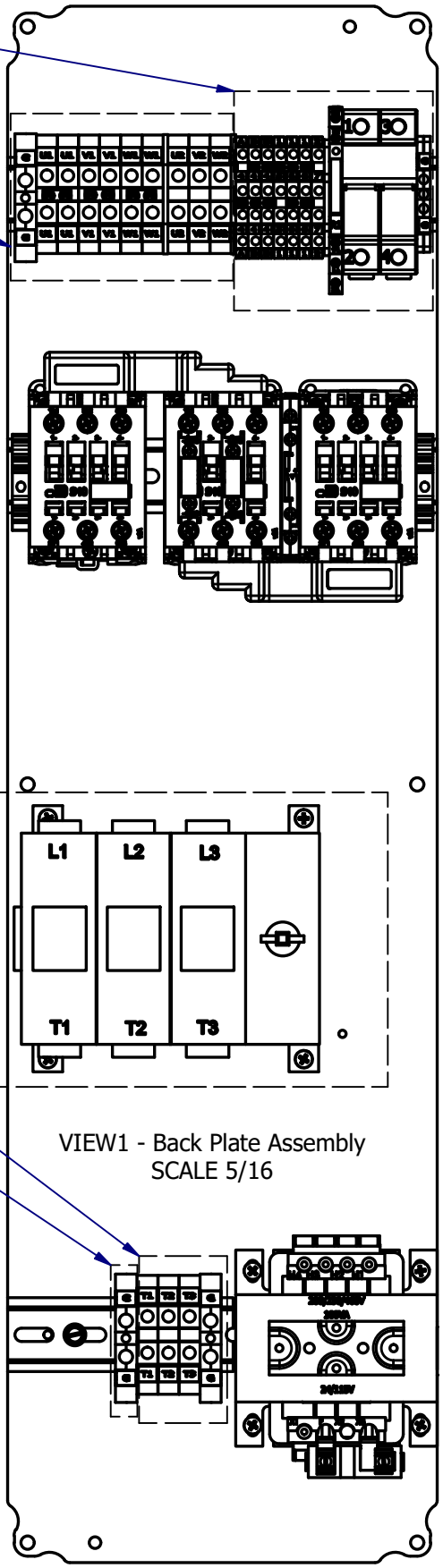
c3controls
P.O. BOX 496
BEAVER, PA 15009
PH: 724-775-7926
FX: 724-775-5283
www.c3controls.com
e-mail: info@c3controls.com

Installation Instructions

IL100198 - Enclosed VFD Bypass,
ECP-BPX-XXXV3P-XXXX-M4-XX (Frame 2)

series ECP BP



VIEW1 - Back Plate Assembly
SCALE 5/16

WARNING

* Risk of electrical shock. More than one disconnect may be required to de-energize the device before servicing.
* Bypass input & output terminal blocks remain live with disconnect switch in off position.
* Disconnect Power before proceeding with any work on this equipment.
* Installation and maintenance by technical personnel only.
* Installation of c3controls product must be in accordance with the NEC (U.S. National Electrical Code) regulations or local codes/standards per your application.
* Any violation of these safety requirements could result in a personal injury and/or result in damage to the equipment.

AVERTISSEMENT

* Risque de choc électrique. Plus d'une déconnexion peut être nécessaire pour mettre l'appareil hors tension avant l'entretien.
* Les borniers d'entrée et de sortie de bypass restent sous tension avec le sectionneur en position d'arrêt.
* Débranchez l'alimentation avant de procéder à tout travail sur cet équipement.* Installation and maintenance by technical personnel only.
* L'installation du produit c3controls doit être conforme aux réglementations NEC (U.S. National Electrical Code) ou aux codes/normes locaux selon votre application.
* Toute violation de ces exigences de sécurité pourrait entraîner des blessures corporelles et/ou endommager l'équipement.

Notes:
- Use UL 1015 VW-1 600V MTW 75°C Solid or Stranded Copper Conductors.
- Intended for use with VFDs corresponding to Category Control Number NMMS. The VFD must be installed according to its corresponding installation instructions, including proper fuse selection where applicable, and the rated SCCR of the VFD must meet or exceed that of the panel.
- To maintain type rating, use field installed equipment that meet the same type ratings as the enclosure.

COMPONENT INFO			
TERMINAL / SCREW LOCATION	TORQUE (LBF-IN)	WIRE SIZE (AWG)	STRIP LENGTH (IN)
Disconnect Switch Terminals (30A Non-Fused)	55	14-4	0.79
Disconnect Switch Terminals (30A Fused)	17	18-8	0.79
Disconnect Switch Terminals (60A Fused)	30	14-10	0.79
Disconnect Switch Terminals (60A Fused)	35	8-4	0.79
Terminal Block W4 (Control Circuit)	7	22-10	0.40
Terminal Block W2 - GND (Control Circuit)	7	22-12	0.40
Terminal Block ZS16 (I/O)	16	24-4	0.53
Terminal Block ZS16-PE - GND (I/O)	16	24-4	0.53

CONFORMITY TO STANDARDS
- UL 508A

CERTIFICATIONS

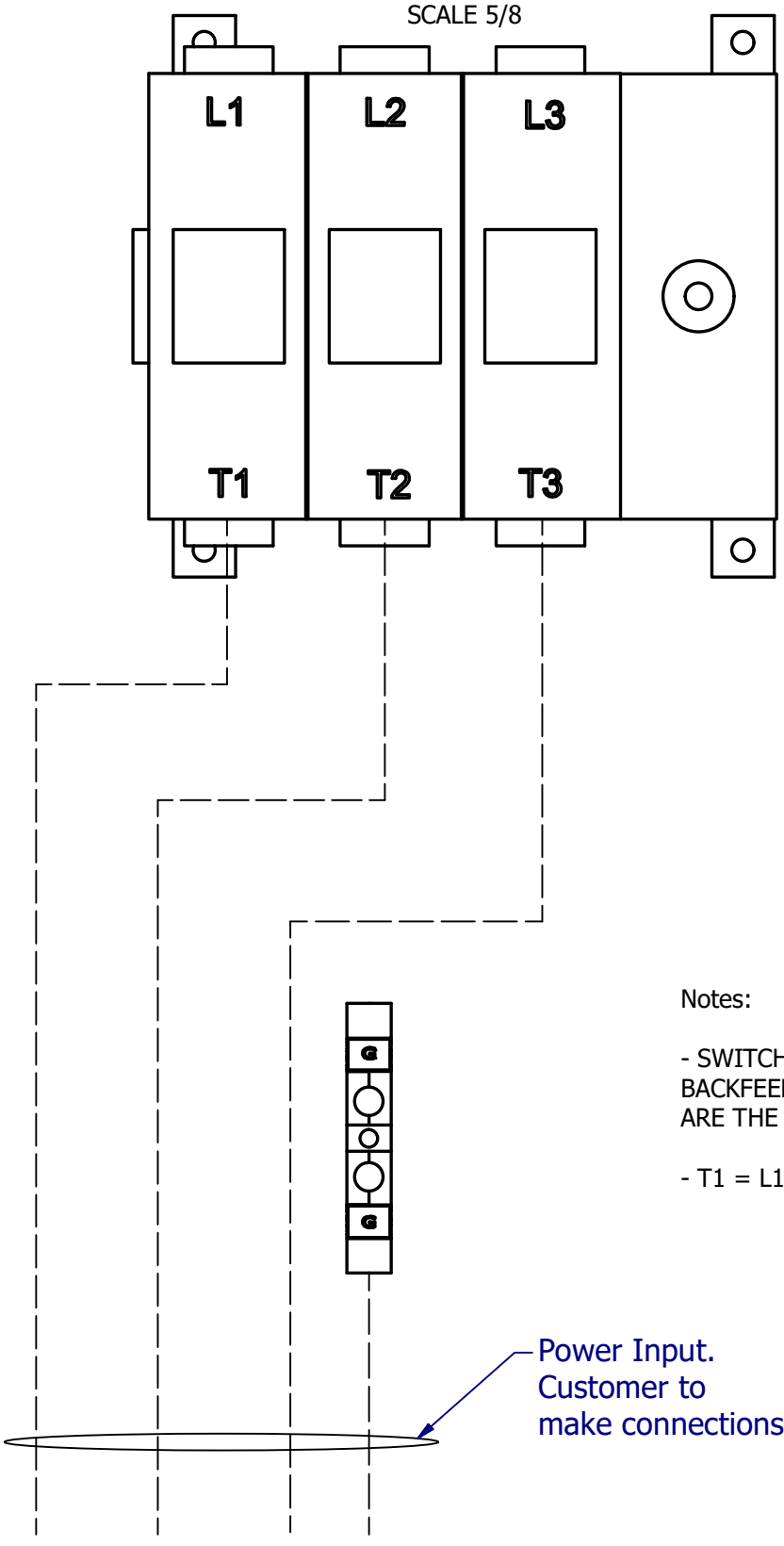
Product installation instructions and wiring schematics may be downloaded from our website, www.c3controls.com.

c3controls
P.O. BOX 496
BEAVER, PA 15009
PH: 724-775-7926
FX: 724-775-5283
www.c3controls.com
e-mail: info@c3controls.com

Installation Instructions

IL100198 - Enclosed VFD Bypass,
ECP-BPX-XXXV3P-XXXX-M4-XX (Frame 2)

VIEW2 - Main Circuit - Power Input
SCALE 5/8



Notes:

- SWITCH IS ENERGIZED BY BACKFEED. TERMINALS T1, T2, T3 ARE THE LINE SIDE OF THE SWITCH.

- T1 = L1 , T2 = L2 , T3 = L3

CONFORMITY TO STANDARDS
- UL 508A

CERTIFICATIONS

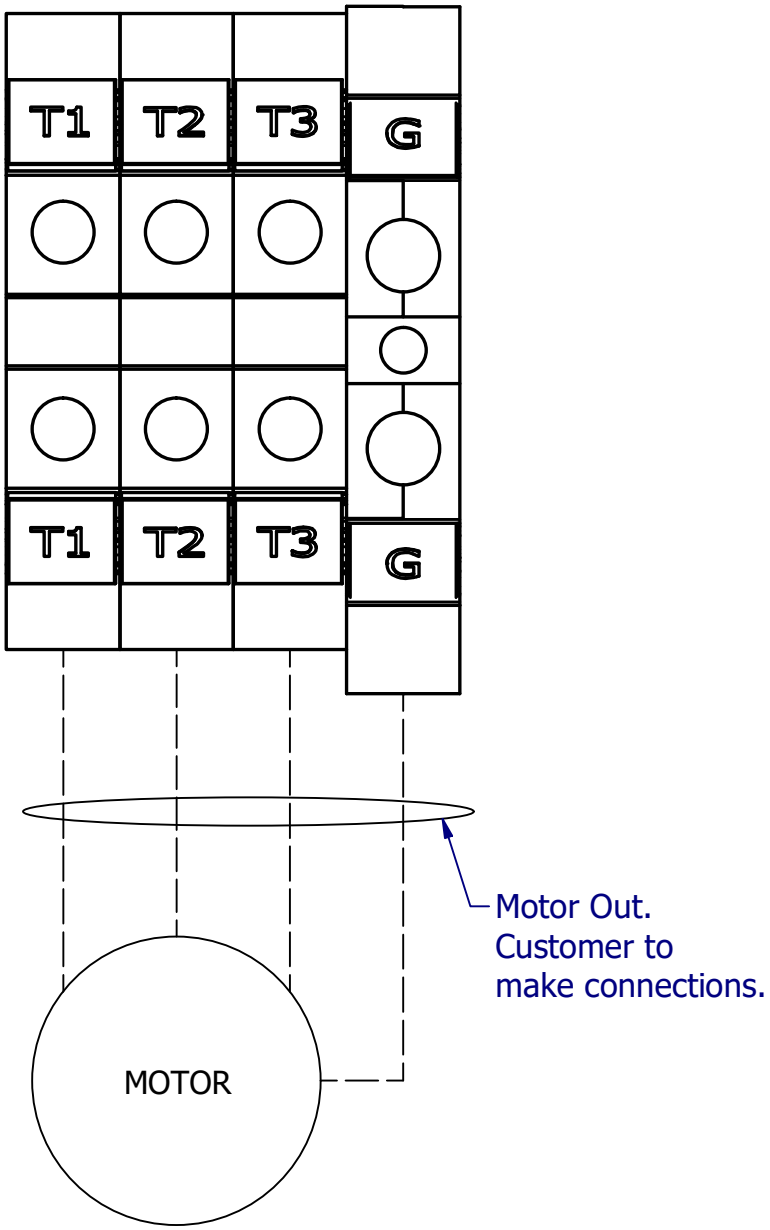
Product installation instructions and wiring schematics may be downloaded from our website, www.c3controls.com.

c3controls
P.O. BOX 496
BEAVER, PA 15009
PH: 724-775-7926
FX: 724-775-5283
www.c3controls.com
e-mail: info@c3controls.com

Installation Instructions

IL100198 - Enclosed VFD Bypass,
ECP-BPX-XXXV3P-XXXX-M4-XX (Frame 2)

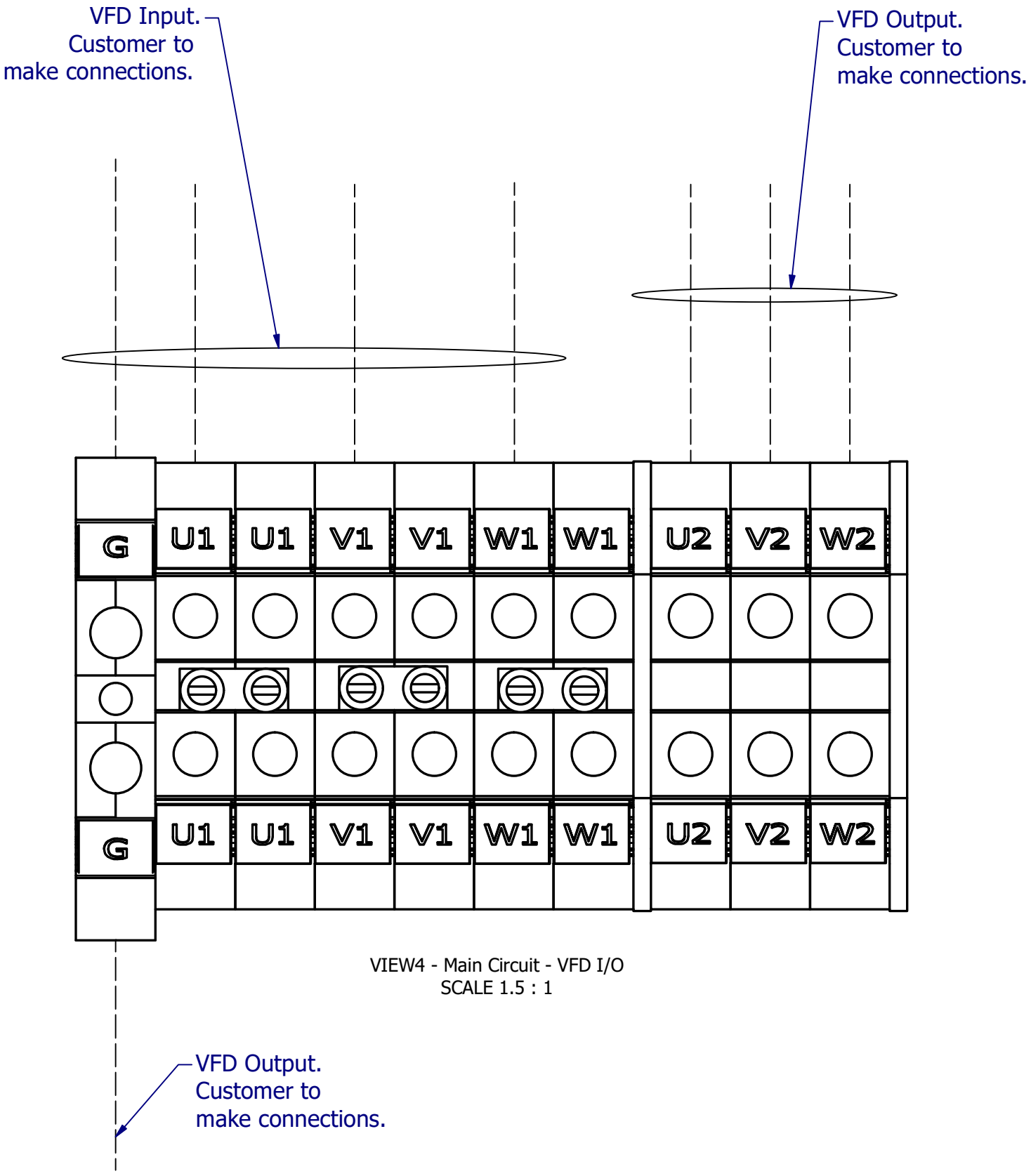
VIEW3 - Main Circuit - Motor Out
SCALE 1.5 : 1



c3controls
P.O. BOX 496
BEAVER, PA 15009
PH: 724-775-7926
FX: 724-775-5283
www.c3controls.com
e-mail: info@c3controls.com

Installation Instructions

IL100198 - Enclosed VFD Bypass,
ECP-BPX-XXXV3P-XXXX-M4-XX (Frame 2)



VIEW4 - Main Circuit - VFD I/O
SCALE 1.5 : 1

CONFORMITY TO STANDARDS
- UL 508A

CERTIFICATIONS

Product installation instructions and wiring schematics may be downloaded from our website, www.c3controls.com.

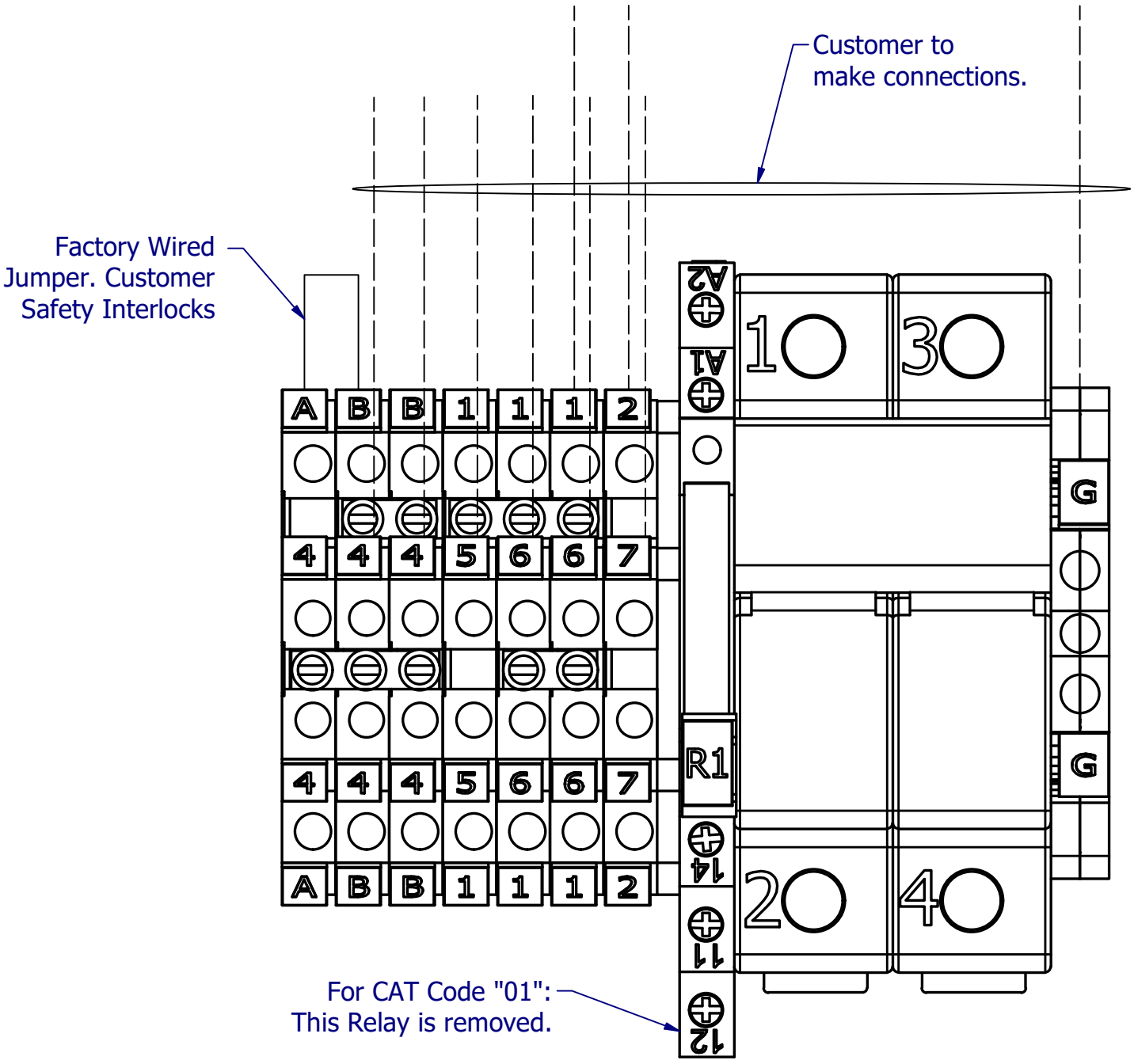
c3controls
P.O. BOX 496
BEAVER, PA 15009
PH: 724-775-7926
FX: 724-775-5283
www.c3controls.com
e-mail: info@c3controls.com

Installation Instructions

IL100198 - Enclosed VFD Bypass,
ECP-BPX-XXXV3P-XXXX-M4-XX (Frame 2)

Notes:

- See schematic for specific connection details.



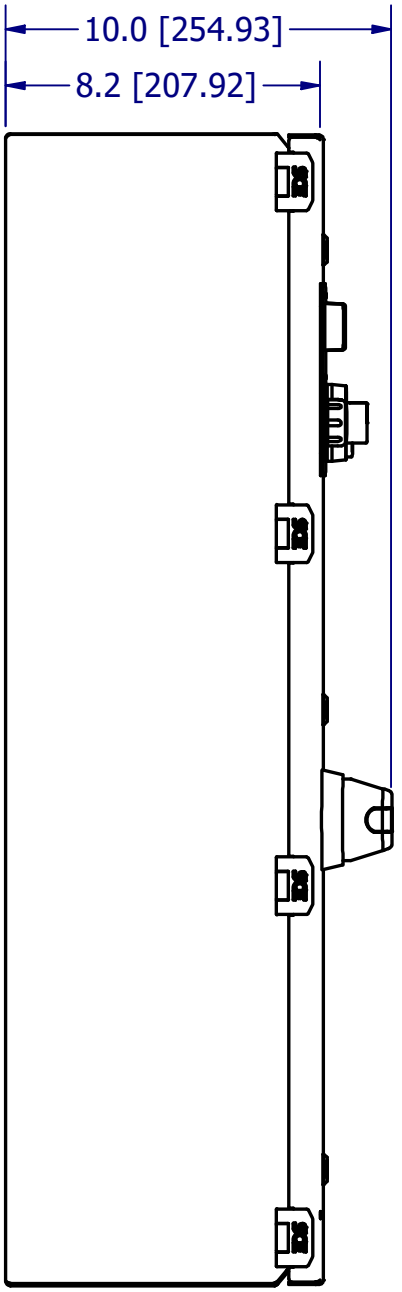
VIEW5 - Control Circuit
SCALE 1.5 : 1

c3controls
P.O. BOX 496
BEAVER, PA 15009
PH: 724-775-7926
FX: 724-775-5283
www.c3controls.com
e-mail: info@c3controls.com

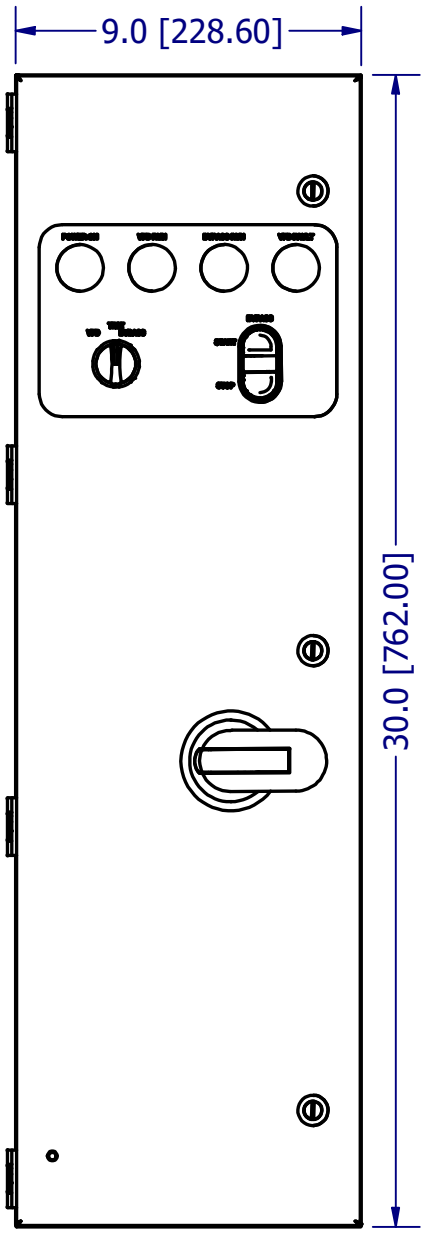
Installation Instructions

IL100198 - Enclosed VFD Bypass,
ECP-BPX-XXXV3P-XXXX-M4-XX (Frame 2)

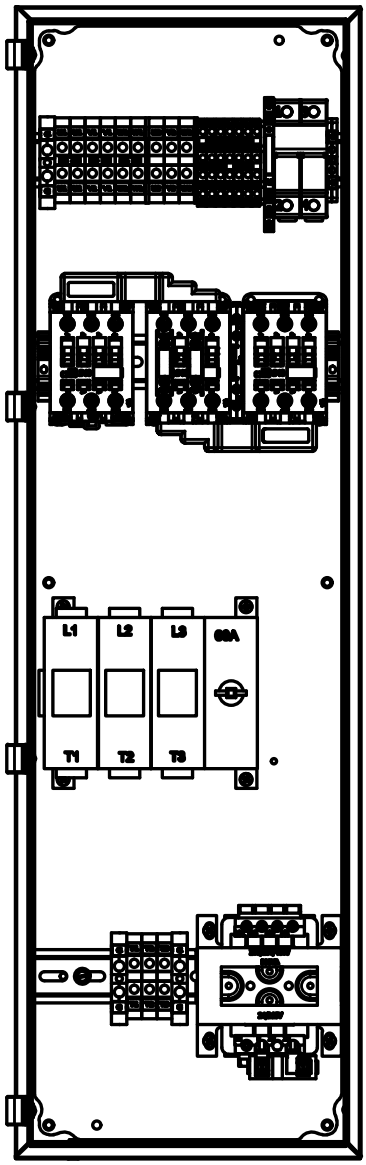
ENCLOSURE MOUNTING



Left Side View
SCALE 1 / 5



Front View
SCALE 1 / 5



Front View (Cover Off)
SCALE 1 / 5

TOLERANCE

Dimensions: in [mm]
X.X +/- 0.040 [1.00]
X.XX +/- 0.010 [0.25]
X.XXX +/- 0.005 [0.13]
X.XXXX +/- 0.001 [0.03]
ANGLES +/- 0.5 DEG
UNLESS OTHERWISE
SPECIFIED

CONFORMITY TO STANDARDS
- UL 508A

CERTIFICATIONS

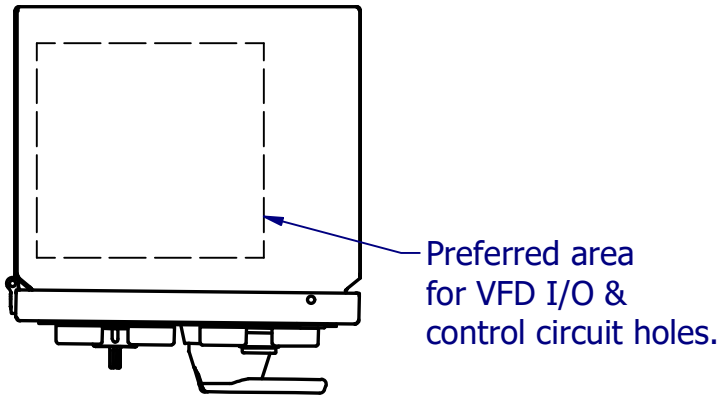
Product installation instructions and wiring schematics may be downloaded from our website, www.c3controls.com.

c3controls
P.O. BOX 496
BEAVER, PA 15009
PH: 724-775-7926
FX: 724-775-5283
www.c3controls.com
e-mail: info@c3controls.com

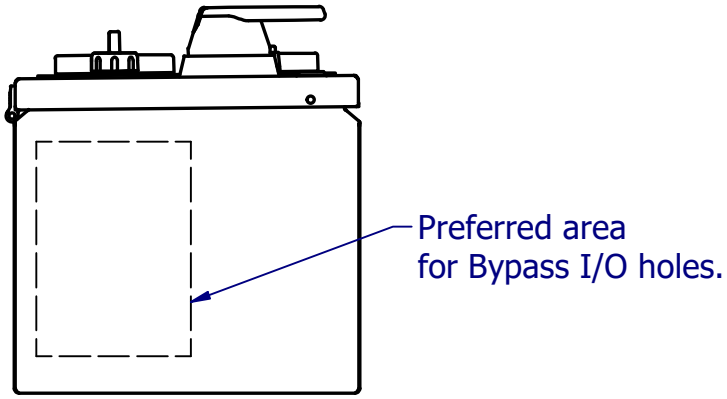
Installation Instructions

IL100198 - Enclosed VFD Bypass,
ECP-BPX-XXXV3P-XXXX-M4-XX (Frame 2)

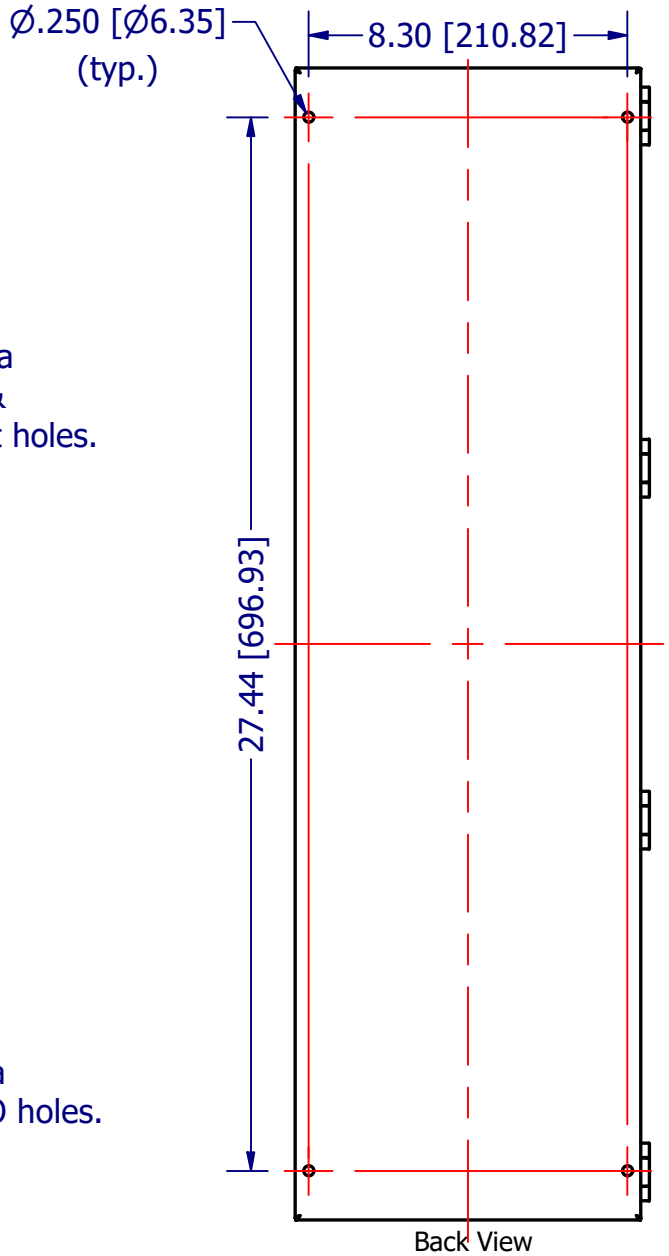
ENCLOSURE MOUNTING



Top View
SCALE 1 / 5



Bottom View
SCALE 1 / 5



Back View
SCALE 1 / 5

Note:

- When cutting the Bypass and VFD I/O holes, ensure that no metal shavings get into the enclosure. The metal shavings could cause mechanical & electrical issues within the enclosure.

TOLERANCE
Dimensions: in [mm]
X.X +/- 0.040 [1.00]
X.XX +/- 0.010 [0.25]
X.XXX +/- 0.005 [0.13]
X.XXXX +/- 0.001 [0.03]
ANGLES +/- 0.5 DEG
UNLESS OTHERWISE
SPECIFIED