Hiko Power Engineering

CUSTOMER INSTALLATION INSTRUCTIONS

Reliability by Design.

IN0049 (R2) E2.2 Single Supply in ETEL Arc Fault Kiosk Installation Instructions

31 May 2024

1 Purpose

The purpose of this document is to provide guidelines for the installation of the Hiko Power Engineering range of pre-assembled Deep Square Leg E2.2 Single Supply LV Frames.

In addition to these instructions, installation must comply with any other relevant general or site specific: regulations, standards, and environmental and safety requirements, including safe work practices, as specified in local and/or national work instructions or codes.

2 Scope

This instruction is for qualified and competent installers of LV frame products in an ETEL Arc Fault Kiosk.

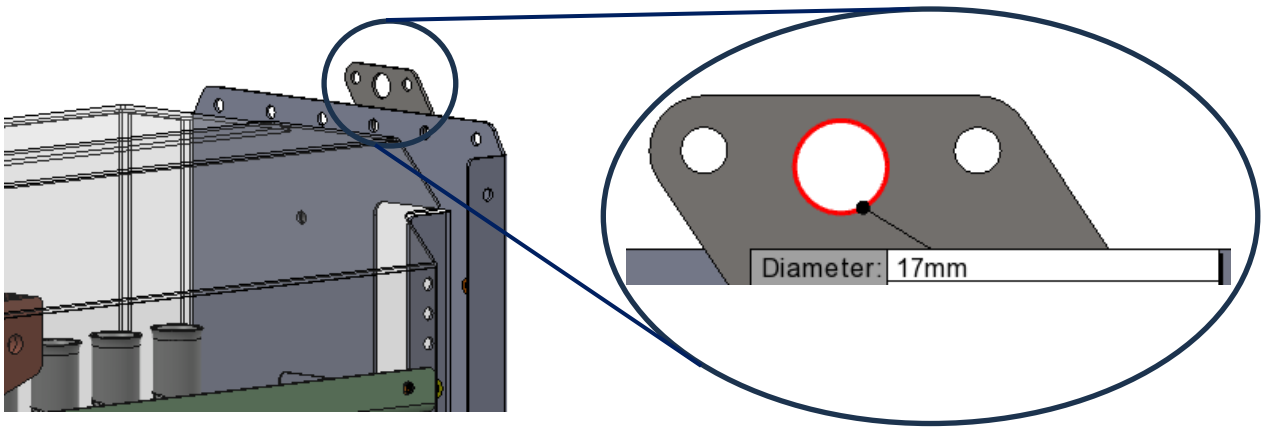
3 Important Safety Information

- Wear appropriate personal protective equipment
- Ensure all electrical components are isolated before making connections. Do not work on energised system
- Complete a risk assessment prior to commencing site work
- Adhere to this instruction for the installation of the single supply LV frame

4 LV Information for Handling

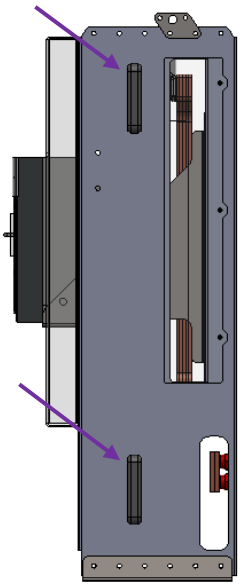
Upon unboxing, inspect product for damage prior to installation. The LV frame design includes lifting eye and handles for ease of handling and transport. Note that the LV frame may be unstable when unbolted from the pallet.

Lifting Eye
A 17mm hole located on top of each leg bracket intended to be used in conjunction with up to 16mm D-shackle. The D-shackles must have a minimum working load limit of 200kg (0.22 Tonnes). It is required to use a spreader bar to safely lift the LV frame for transport.



Carrying Handles

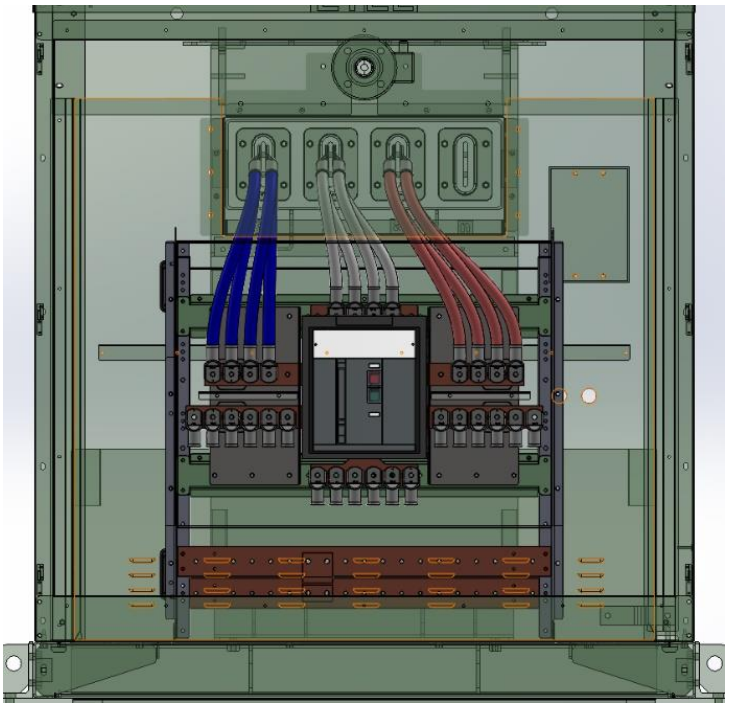
Each LV frame is fitted with carrying handles on either side of the frame for ease of handling.

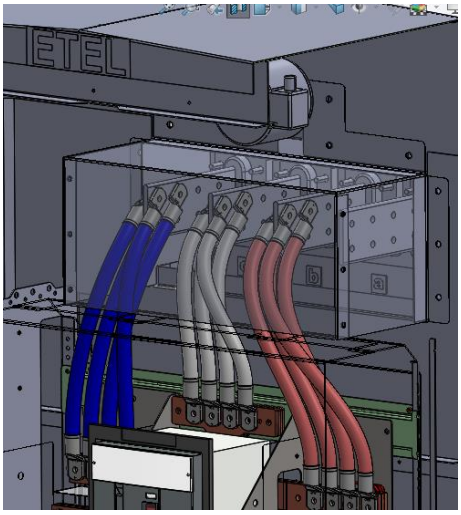


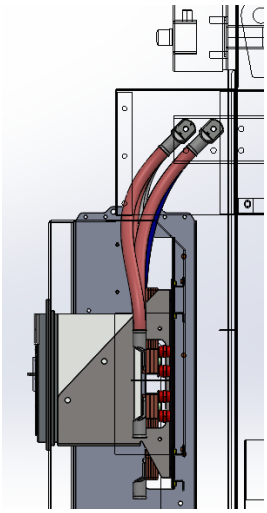
5 Installation

Installing the connector

1. Fit the cables in the orientation shown below and tilt the lugs at an angle away from the bushings. Cables are labelled with “Bushing – R” or “Bushing – L” to indicate intended orientation of the cables for ease of installation.



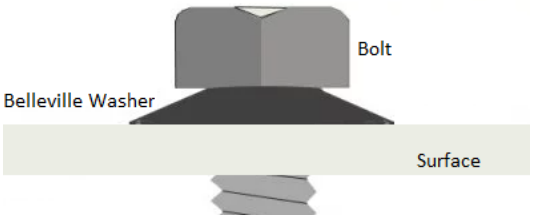




6 LV Disconnect Installation Summary

1. Disconnect bolts are required to be torqued in two key locations:
    a. Disconnect bolts fastening to the busbar
    b. Outgoing terminal bolts of the disconnect with cable fitted. If no cable is fitted onto the outgoing terminal bolt, only finger tight is required.

Note: Ensure the Belleville washers are installed the right way around when re-fastening the bolts.



2. Depending on the size of the disconnect and/or bolts, follow the torque requirements below.

Torque Requirement for Disconnect Bolts on the Busbar

DIN Size	Bolts Size	Torque (Nm)
DIN 2, 3	M12	40
DIN 00	M8	12

Torque Requirement for Outgoing Terminal Bolts of the Disconnect with Cable Fitted

DIN Size	Bolts Size	Torque (Nm)
DIN 2, 3	M12	40
DIN 00	M8	12