

# Medium Voltage Soft Starter Panel

## Receiving, Storage and Unpacking

### 1. Receiving and Storage

#### 1.1 ShockWatch®

Two ShockWatch® impact indicators are attached to the outer packing of every medium voltage soft starter leaving the factory. If a ShockWatch® indicator is red, the package may have been handled roughly and should be inspected carefully.

Inspect both indicators when the shipment is delivered. If an indicator is red, please write this clearly on the delivery document. You should still accept the shipment.

Inspect the package as soon as possible to identify any damage. If the starter has been damaged, inform the carrier immediately.



20632.A

Shockwatch - not activated



20701.A

Shockwatch activated - inspect carefully

#### 1.2 Receiving

Inspect equipment as soon as possible for any damage that may have occurred during transit. Before accepting delivery, examine packaging for any signs of damage. A damaged package may indicate that the panel and internal components may also be damaged.

Check that the shipping manifest accounts for all equipment delivered. Any missing or damaged equipment should be noted on the freight bill and the carrier notified immediately. A record of the missing or damaged equipment should also be sent to AuCom.

#### 1.3 Storage

If immediate installation is not possible, the equipment should be stored in its original packaging in a clean and dry area indoors.



##### NOTE

Equipment can be stored for a maximum of 12 months from the date of packaging as the quality of the packaging material degrades over time.

The following storage conditions should be met:

Temperature range	- 25 °C ~ + 70 °C
Relative humidity	5% ~ 95%
Rate of change of temperature	0.5 °C/min

## UNPACKING

The following general precautions should be followed when storing equipment indoors:

- Do not unpack the panel or other components until they are ready for installation.
- If electrical components such as circuit breakers are to be stored for more than three months in humid conditions, space heaters should be used in the storage area to limit condensation. Switchgear panels with in-built anti-condensation heaters may be powered from an external supply during storage.
- Rats and other vermin may cause considerable damage and periodic inspection is necessary to minimise the danger they pose.
- Ensure the floor of the storage area is smooth and level to prevent mechanical strain to the structure and components.



### STORAGE

The soft starter must be stored in its original packaging in a clean and dry environment. The soft starter should be unpacked only after the equipment room is ready for installation. Particular care should be taken to avoid exposure of the electronics to cement and/or concrete dust.

## 2. Unpacking



### NOTE

Avoid using heavy or sharp-edged tools while unpacking, as these may damage the equipment.

1. Remove the top of the wooden packaging.
2. Unscrew and remove the four wooden sides.
3. Lift off the plastic wrapper around the panel.
4. Remove the protective polystyrene sheets from the front and sides of the panel.
5. To remove the panel from the wooden pallet, unbolt the four corners. Keep the pallet and bolts for future use.

## 3. Lifting and Moving the Panels

### Models up to 6.6 kV

The recommended method of moving the panel is using a forklift or suitable pallet truck. Provision has been made underneath the panel for this.

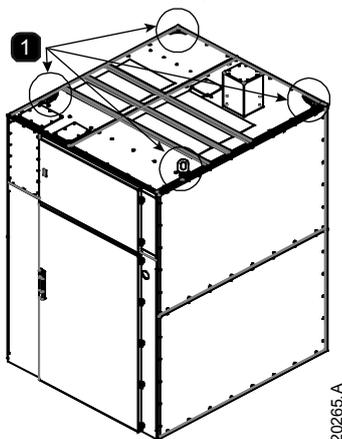
### Models 11 kV and 13.8 kV - Using a crane



### NOTE

The recommended method of moving the panel is using a crane. If height constraints prevent the use of a crane, a forklift or jack may be used before removal of the wooden pallet.

Use the four lifting eyes located on the roof of the enclosure to lift the panel.



Before moving the panel:

- Ensure that the crane is tall enough that the angle formed between the arms of the sling is no more than  $60^\circ$  when viewed from the front or rear of the panel.
- Always use lifting equipment that is rated for the prescribed load. Only use a crane of sufficient lifting capacity to bear the weight of the equipment to be lifted.
- Plan the path along which the switchgear will be moved, ensuring that it is free from obstructions.
- If moving more than one unit at a time, disconnect bus connections between panels to prevent damage to the busbars.
- Ensure that adequate precautions have been taken to protect personnel before moving the panel.