

E-LINEKX



E-LINEKX



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Please read the instructions contained in this publication thoroughly and follow the directions provided carefully.

Dear Customer,

EAE Elektrik A.S. Products are designed and manufactured to provide the maximum benefit in efficiency and service. Our products are manufactured in accordance with Management Systems standards and EAE quality standards at our modern production facilities in Istanbul.

The components that you have purchased are manufactured by an environmental conscious team, with the relevant knowledge of the Environmental Management Standards. Our employees work strictly in accordance to the principles of the information Security Management systems, and conform to the rules of the occupational health and safety act.

Installation, handling and operation of products should only be conducted by highly skilled, trained and authorized personal utilizing all affiliated equipment such as rubber gloves, helmet, flame resistant clothing and glasses or face shields in accordance with the prevailing safety procedures.





1- Installation and planning of the Busbar system, and collaboration with other distribution systems (mechanical, heat, steam, air installation etc.) are crucial for the success of the project.

2- Operational Success of the Busbar systems are ensured by adhering to the right cartage, design and proper installation. Incorrect installation may cause malfunctioning, personal injury and damage to the operating systems.

3- The installation, operation and maintenance of the Busbar systems should only be performed by qualified personnel who are aware of the dangers associated with installation, construction, operation and intended usage, according to the manual.

* Know the requirement of applicable electrical laws, other laws and standards.

* Be trained and authorized to test, energize clean, ground, label and lock the system and equipment suitable for occupational safety applications.

* Be trained in the use and maintenance of personal protective equipment such as rubber gloves, helmets, protective goggles or face shields and flame resistant clothing in accordance with the relevant safety practices and potential hazardous levels.

* Must be trained in first aid.

WARNING:

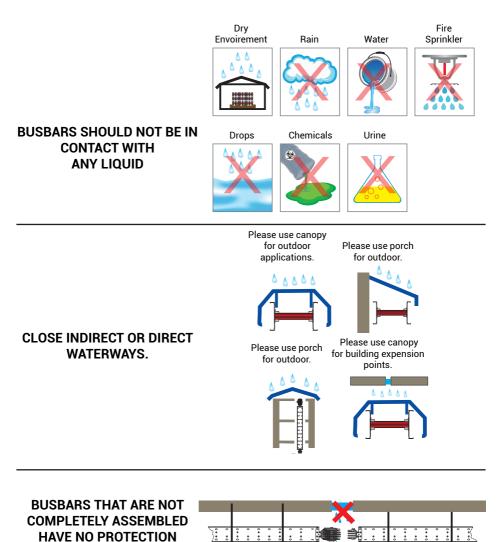
High voltage levels in the electrical components may result in serious injury or death.

Installation, monitoring and maintenance must be preformed on a de-energized Busbar. Therefore, unintentional contact with energized equipment is prevented. All warnings and instructions must strictly be adhered to.

WARNING :

High voltage levels in the electrical components may result in serious injury or death.Operation of the Busbar, that is damaged by moisture or water can cause serious personal injury or death and damage to property. To ensure proper installation and to remove the moisture source, refer to the notes on page 16 item number 13. KXMANUAL → General





AGAINST WATER

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KXMANUAL Handling & Storage



1- General guidelines are provided to protect the Busbar lengths and modules, thereby reducing the risk of personal injury and equipment damage handling on site.

2- As soon as the container or trucks arrives on site, a suitable forklift is required for essay and convenient unloading.The pallets must not pulled with a rope, etc. material.

3- All pallets should be checked by unpacking them to inspect for possible transit damage and to determine that the shipment is correct as per Packing List.

* If any of the items are missing from the consignment or any items are damaged during transportation. The insurance Company must be notified immediately and all required documents completed.

4- All Busbar lengths and modules should be handled with care to avoid damage to internal components and the distortion of the housing or its finish.







KXMANUAL → Handling & Storage



5- When the Busbars and modules are required remove them from the pallets by inserting metal rods through the 2 sets of holes situated at the ends of the housings, therefore ensuring that the load is balanced and safely secured. By using adequate slings and the slinging method the components can be moved safetly from one place to another.

6- The moving of products from one floor to another floor must be performed by means of a suitable electric, mechanical crane or elevator.

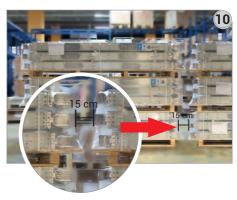
7- If storage is required before installation and repacking is necessary it should be performed as close as possible to the point of installation however it should not be disassembled, until it reaches its final installation position depending on various conditions. (Refer to chapter 5)

8- The Storage area should be clean and dry with a constant temperature to prevent condensation, having adequate air circulation and has to be protected from dust, fumes and moisture. The storage area should be vehicle free to prevent damage to the products.

9- When the Busbar straight lengths and modules are to be stored for a certain period of time before installation. The packaging should be repacked (if necessary) on wooden or plastic pallets for protection during that period. It should be stored in a protected area and covered with a waterproof canvas which offers protection against dust and any form of liquid contamination.

10- The Busbars that are designed for outdoor use is not weatherproof until the installation is completed. The above recommended storage parameters must be adhered to for any remaining busbars.





KXMANUAL Installation Points to be taken into consideration before installation



IMPORTANT!

1- Please read the instruction manual before commencing the Busbar installation. Incorrect or rudimentary installation may caused damage to the equipment or systems.

2- Installation of the Busbar systems should only commence after understanding and interpreting the Busbar application drawings. Locate the positions of individual components such as expansion units, feeder units, feeder unit ends and transformer panel connections, etc. These should always be executed according to the project drawings

3-All busbar products are 100% isolation resistance tested before shipment to our valued customers world wide. Unloading and storage must conform to our policies, pertaing to environmental conditions and construction sites. All Busbar products must be isolation resistance tested hefore installation commences, these include individual Busbar products, single conductors (between phases: phases and neutral and neutral and earth) Isolation Resistance Test (min. 1000V AC) is recommended. The measured value must not be less than 1(one) Megaohm. All products above 1(one) Megaohm may be installed.

Results may differ from country to country due to environmental conditions. Commencement of Installation without a isolation resistance test may lead to product failure, consequently the manufacturer (EAE Elektrik A.Ş) will not accept liability. **4-** Seismic support systems should be used in high risk earthquake areas. Please contact our knowledgeable sales staff for details of seismic support products and project planning. The recommended distance between supports are 1.5m and the maximum is 2m. Ensure that support positions do not obstruct joint covers and tap off points.

5- DDT modules that are used on a concrete floor should be positioned at intervals of 20cm.

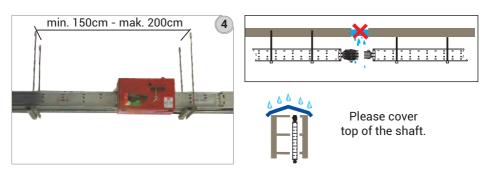
6- If the Busbar lines are used in the transition of the building dilatations, appropriate dilatation modules should be chosen. Please contact our knowledgeable staff for support.

7-Busbar systems should be installed with care when using a forklift, crane or pallet trolleys to avoid any damage. When transporting the products ensure that the weight is evenly distributed. Generally vertical installation is provided in vertical lines.

8- Please read the additional installation instructions.

9- When installing horizontal and vertical systems, ensure that it is aligned correctly to prevent distortion and collapsing.

Protect the Busbar against water and moisture from unfinished roofs and walls during installation.



KXMANUAL Installation Points to be taken into consideration before installation



10- Tools required for the installation,

Micrometer, adjustable / calibrated torque wrench

1/2 inch drive 10mm, 13mm and 19mm socket

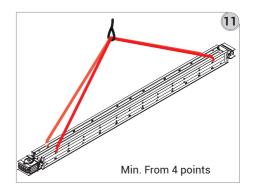
Electric Drill

10mm Spanner/Socket

Screwdriver

Hoist with cloth sling

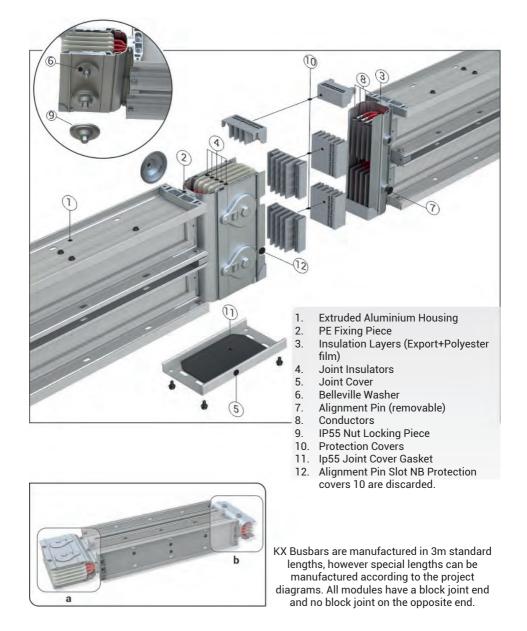
11- The Busbar to be installed must be secured and hoisted as shown in the picture below.









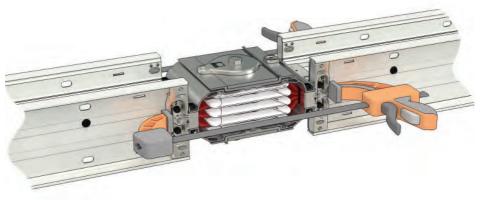


KXMANUAL Installation General Overview Of The Joint



 Bolt-on Box Mounting Point

 Plug-in Box Mounting Point



Use special clamps if installation is restricted.

KXMANUAL Meret Determination of Special Lengths of Offset Sizing



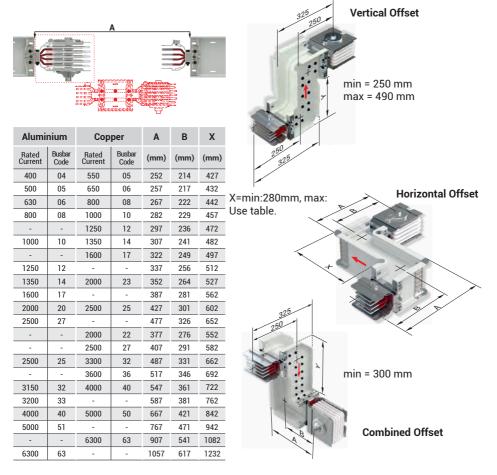
1- Special lengths (particular or custom size) busbars are used in places where standard sizes do not fit. The minimum length for these special modules are 35cm. Please measure the lengths of these modules as shown below

2- Length A is measured between housing of 2 busbars in cm. "A" The special length is calculated by deducting 25cm from this measured length.

X=A-25 (cm) X=Length of Special Busbar (The busbar module will be manufactured as per X value.)

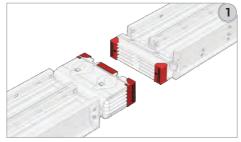
3- In the case where custom made intermediate size Busbars are required, both ends of the intermediate size Busbars can be produced with or without block joints. In such cases, please contact our knowledgeable sales staff for technical information and support.

Note: Please supply a drawing for combined offsets when ordering. Indicate bolted and unbolted ends on the drawing.

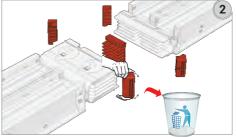


KXMANUAL ▶ Installation Mounting Instructions For Joints (Bolt-on / Plug-in)

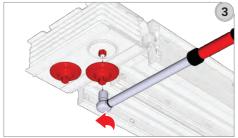


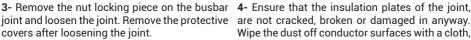


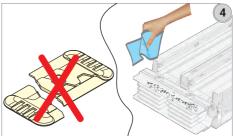
1- Align the two Busbars so that the sections with and without block joints are opposed.



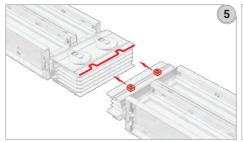
2- Remove the protective side covers on the no block joints.

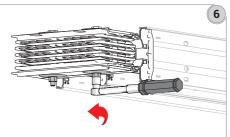






are not cracked, broken or damaged in anyway. Wipe the dust off conductor surfaces with a cloth, so that no serious damage can be caused.





5- Align the block joint to the opposite busbar's 6- Loosen the nut at the connection point. end.

12

KXMANUAL ▶ Installation Mounting Instructions For Joints (Bolt-on / Plug-in)



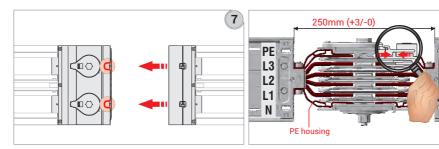
8

PE

L3

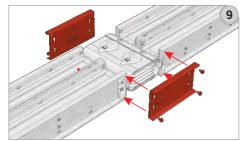
L2

L1

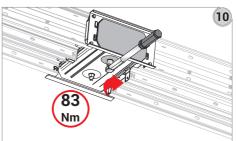


7- Adjust the channel in order to pivot the 8- Coerce the two Busbars until they rest on each alignment component to the housing.

other



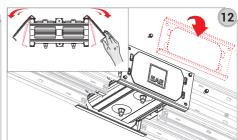
9- Assemble both the joint covers with the gaskets facing outward.



10- Adjust the torgue wrench to 83 Nm (60 lbft) and tighten the joint nut.



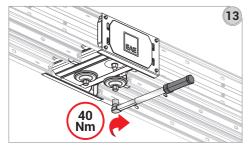
11- If there is more than one bolt per phase, the bolts should be tightened by hand to approximately 20-30 Nm as per the sequence shown above. Then finally torque to 83Nm using the same sequence.



12- Remove the joint covers and reverse mount them with the gaskets facing inwards.

KXMANUAL Mounting Instructions For Joints (Bolt-on / Plug-in)





13- Finally tighten the locking piece to 40 Nm to complete the installation.



14- Please complete the label attached to the joint cover to verify that you are performing torque settings according to the specifications.

KXMANUAL Installation Points To Be Taken Into Consideration After Installation



1- When the installation has been completed, please check the position of the neutral conductor along the busbar run. (Taking special care at locations where the run bends and offsets)

2- Carry out insulation test (minimum 1000V AC). Make sure that no protective device (switch, connector, etc.) is connected to the system and that the earth - neutral line is separate. All tap off boxes on the line must be set to «0». Keep in mind that the results can vary according to the Busbar length, width or number of bars. The results may also vary according to the moisture content.

Values should not be less than 1 MegaOhm / 30 meters. It is recommended that no energy is supplied to the line even if the insulation test is is completed successfully.

Rated Insulation Voltage (Busid Megger Test Voltage (Dygulana *(Test Voltage must be 1000V	an Meger Test Geri for busbars rated	(mi) :		tage must be 690V fo
rated insulation voltage up to *(Anma izolasyon genilimi 1000V *(Measured resistances must i *(Ölçülmüş resistans değerleri IE	Pa kadar olan busb be suitable for IEC	61439-1/11.9 standard		ilari busbarlar içiri test
L1-L2 : Ohm >	1,0 MQ		L3-N	Ohm
L1-L3 : Ohm >	1.0 MΩ		L1-PE :	Ohm
L2-L3 :	1.0 MD		L2-PE :	
L1-N	1.0 MD		L3-PE	
L2-N : Ohm >	10 MO		N.PE -	Ohm

2.1- When the Busbar system is energized for the first time, qualified electrical personnel must be present. If short circuits and earth faults are detected due to any damage or faulty installation practices, serious damage can occur if the power is turned on.

2.2- When the power is supplied, there must be no electrical load in the Busbar.

2.3- After the Busbar system is energized, loads must be switched on in sequence (main and sub feed).

2.4- When the Busbar is used properly, it will have a moderate hum. Excessive noise may be an indication of hardware that has not been extruded or incorrectly mounted metal parts.

2.5- Spark formation at any point along the Busbar is abnormal. The Busbar must be deenergized until the spark situation is rectified.

3- Do not try to install five conductor units to four conductor units or vice-versa.

4- Do not apply any kind of oil or chemical at the joints or to the contacts of tap off boxes.



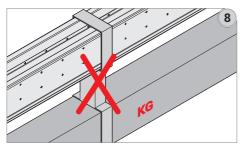
KXMANUAL Installation Points To Be Taken Into Consideration After Installation



5- Do not use any other means than original tap off boxes to supply energy from the Busbar.

6- Current rating of the Busbar run should be equal to the rating of the breaker. Do not exceed Busbar nominal current during operation.

7- Make sure that any additional loads to the system do not exceed the nominal current capacity of the Busbar.



8- Do not use busbar system as a supporting structure for other systems.

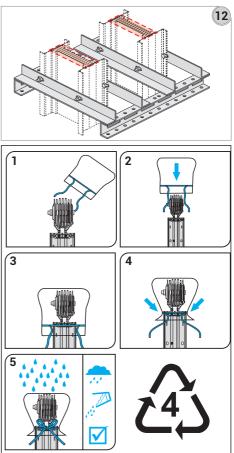
9- Do not use the Busbar system as a walk way.

10- Do not light a fire or use welding equipment near the Busbar.

11- Take care when handling the system components. Do not drop the units.

12- Do not cut or drill the busbar units. Please take into consideration the picture below when installing the Busbar for vertical applications. Please do not drill the Busbar at any place where it is marked with red on the picture.

13- Take precautions against adverse environmental conditions such as rain and snow an in addition, the Busbar dripping cement etc. inside the building. Protect from water, malfunctioning piping and all fluids that may come from water jets. Cover if necessary. Cap the ends of the Busbar joint points that have not been installed after completion of the work.



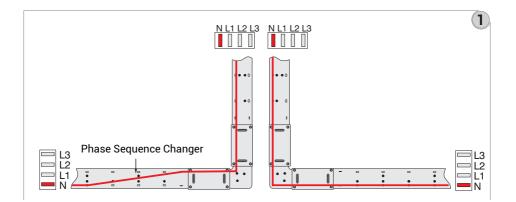
14- Ensure the selected degree of protection (IP rating) of the system is suitable for the working environment.

15- You can remove paint defects on product surfaces which could happen during transporting and installation operation by touching up with spray paint. (Information is also available about the paint color that you have ordered from the manufacturer). We recommend you clean the surfaces with a dry cloth in advance where the painting process will be.



WITHSTAND PERIODS AGAINST TO WATER AS PER STANDARD IP55 & IP65 **IP67** Under water Pressure Water 3 Min. 30 min.

When installation of the Tap-Off Boxes are needed after the phase changer box, a customer representative needs to approve it in advance.



Vertical Shaft Application

1- The neutral bar of KX Busbar shall be at the bottom for horizontal Busbar lines and on the left for vertical Busbar lines. (Figure 1)

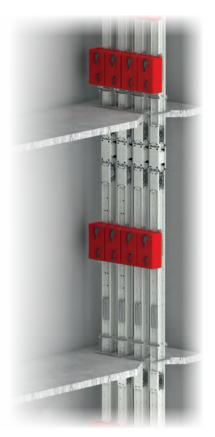
2- In order to maintain the neutral bar at the bottom and in the vertical Busbar on the left, it is required to use the phase changing module. (Figure 1)

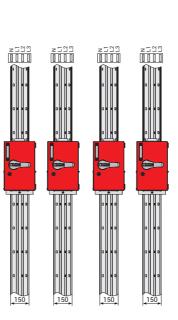
KXMANUAL Installation Riser & Vertical Applications

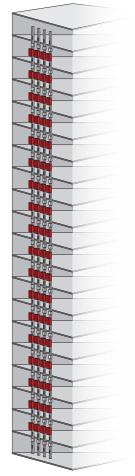


As each building's structure is different. For vertical applications of the E-Line KX special projects need to be designed.

The details on this page briefly explains the necessary information for drafting a vertical application project.







In multi-path Busbars in high-rise vertical shaft applications; Due to floor heights, floor thickness and product tolerances, the window or additional point alignments on the upper floors may not be the identical. In order for the Tap off boxes to be aligned and the joint point not to coincide with the floor transitions, the assembly should be continued by creating measurements on each floor.

■ EAE is not responsible for the potential risks that may occur in cases where the products in our catalogue are used outside the standard phase sequences as demonstrated in the catalogue.

KXMANUAL ► Installation ▶ "Plug-in" Busbar Tap Off Boxes (KXP Box)

Vertical Application

Warning!

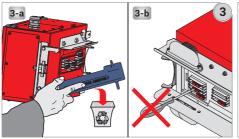
* Do not try to install plug-in tap off boxes to bolt-on the Busbar or vice versa.

1

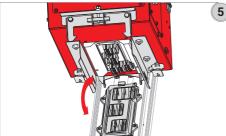
* Do not try to install 4 wire tap off boxes to 5 wire the Busbar or vice versa.



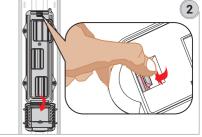
1-Remove the fixing screw of the "plug-in" tap off point cover using a star screw driver.



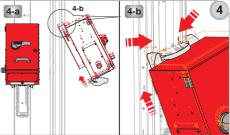
switch to zero position. As seen on figure 3-b, do not interference with the jawed contacts. Do not deform box upwards as shown in figure 4-b. them.



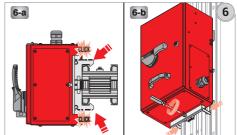
5-Check the alignment of the contacts. Push the box towards the Busbar.



2-Open and push the cover back. The "plug-in" tap off point cover should be opened to a position which will not block the way for installation of the box. Do not remove the cover plate.



3-Throw the contact protection cover to the recycling 4-Place the KXP Plug-in tap off box into the waste bin. Make sure that you have brought the holes on the Busbar at an angle. Push the tap off



6-Push the box into the Busbar housing a "click" sound will be heard from the locking parts of the box ensure that it interlocks with the box and the housing thereafter tighten the screw.

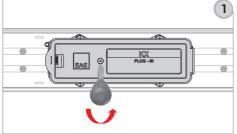




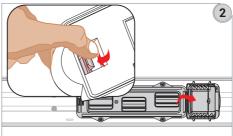
★ Installation ▶ "Plug-in" Busbar Tap Off Boxes (KXP Box)



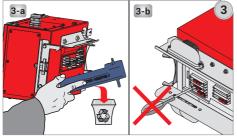
Horizontal Application

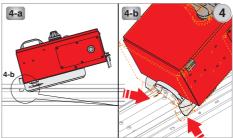


1-Remove the fixing screw of the "plug-in" tap off point cover using a star screwdriver.



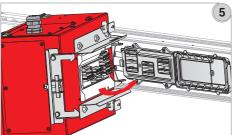
2-Open and push the cover back, the "plug-in" tap off point cover should be opened to a position which will not block the way for installation of the box. Do not remove the cover plate



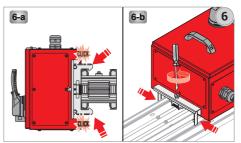


3-Throw the contact protection cover to the recycling waste bin. Make sure that you have brought the switch to zero position. As seen on <u>figure 3-b</u>, do not interference with the jawed contacts. Do not deform them.

4-Place the KXP Plug-in tap off box on the holes of the Busbar at an angle.Push the tap off box upwards as shown in figure 4-b.



5-Check the alignment of the contacts. Push the box towards the Busbar.



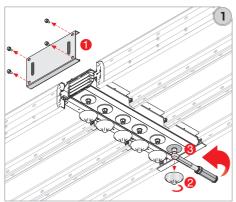
6-Push the box towards the Busbar housing a "click" sound will be heard from the locking parts in the box, ensure the interlock between the box and the housing and thereafter tighten the screw.

★ KXMANUAL ▶ Installation ▶ "Bolt-on" Busbar Tap Off Boxes (KXB Box)

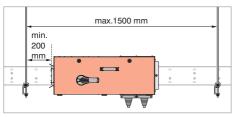


Important!

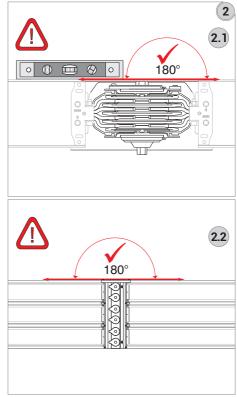
Busbar system must be de-energised before mounting or removing a "bolt-on" tap off box. Always use a properly rated voltage sensing device to confirm that the power is off.



1-Remove the locking pieces. Remove the joint side cover plate and keep the plate and the screws for future use



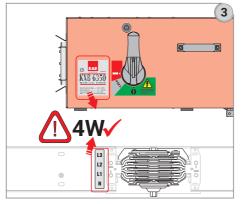
- Do not try to install bolt-on tap-off boxes to plug-in points of the busbar or vice versa.
- Do not try to install 4 wire tap-off boxes to 5 wire busbar or vice versa.



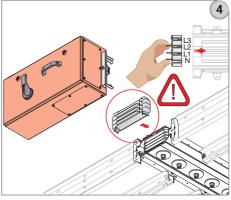
2-Remove the joint cover (1). Remove the locking piece for the nut from the joint where the tap-off box is mounted (2). Loosen the main bolt from nut using a torque wrench (3).

★ Installation ▶ "Bolt-on" Busbar Tap Off Boxes (KXB Box)

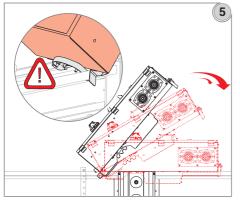




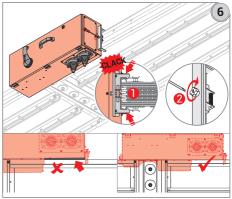
3- Check the phase sequence of the Busbar and tap-off box.



5- Fix the KXB Bolt-on tap-off box to the holes on the Busbar in the correct direction. (Be sure that the breaker's handle is in the off position.)



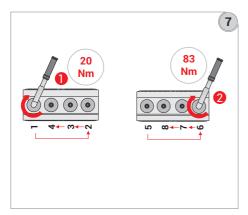
4- Use the alignment plastic piece to fix the joint set. Make sure the direction of the neutral.



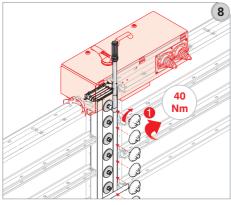
6- Be sure for proper clamping of KXB tap off box's claws (1). Complete assembly by tightening the plastic headed screw (2). Ensure that there is no gap between the Busbar and the tap-off box.

★ Installation ▶ "Bolt-on" Busbar Tap Off Boxes (KXB Box)

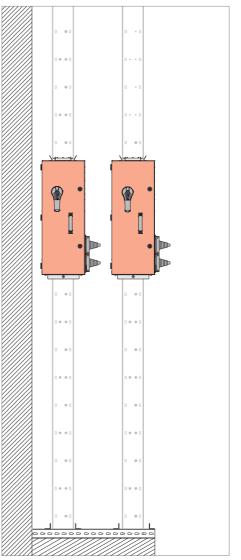




7- If there are more than one bolt for the same phase, bolts shall be tightened by hand to approximately 20-30Nm as per above illustration, then 83Nm shall be applied for the final torque using the same sequence.



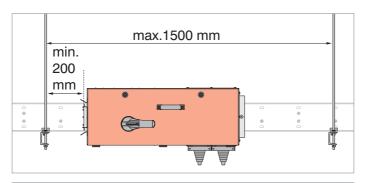
8- Then tighten the locking piece to 40Nm to complete installation(1).

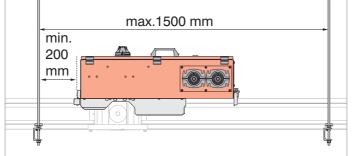


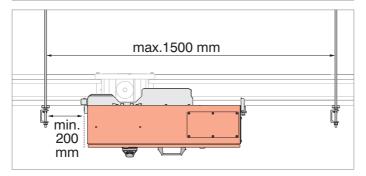
VERTICAL APPLICATION



HORIZONTAL APPLICATIONS







★ Installation ➡ Cable Feed Box Installation (B10, B11)



1- When installing the feeder boxes B10, B11 make sure that the phase sequence of the feed box matches the phase sequence of the Busbar. (Care is to be taken to ensure that the neutral is correctly connected).

2- For multi-way Busbars check the position of the matching conductor link, make sure that they are available and fitted correctly. Do not remove these conductor links.

3- Cable glands should be selected according to the size and number of feeder cables. Please consult the factory for requirements other than standard ones supplied

4- Make sure that the incoming feeder cables to the box are all the same length for each phase.

5- Do not cut or drill the feeder units.

Energizing Before Energizing

WARNING: HIGH VOLTAGE VALUES CAN CAUSE DEATH OR SERIOUS INJURIES. MAINTENANCE, INSTALLATION AND OBSERVATIONS IN THE CONSEQUENTIAL CONDITIONS; THE ENERGY AND THE CONNECTION MAY BE DONE ON THE BUSBARS CUT OFF AND ELECTRICAL ISOLATED. THEREFORE, ACCIDENTAL CONTACTED CAN BE AVOIDED. FOLLOW ALL MANUFACTURER'S WARNINGS AND INSTRUCTIONS

1- Make sure that all joint zone connections are correct. Follow the manufacturer's recommended torque settings.

2- Make sure that all bolt-on and plug-in boxes are in the "off" position. Boxes without power must be removed from the Busbar if they cannot be isolated with auxiliary power breakers.

3- Make sure that the connections between the Busbar and the panel, transformer and other connections are interrupted..

4- Resistance testing is to be carried out with a resistance tester of 1000 volts per part of the Busbar to ensure that the system does not contain short circuits and ground faults. (Phase earth, phase-neutral, phase-to-phase). Record the results of the test and provide it to the project manager. Note that the results may vary depending on the Busbar length, width, or number of bars. The results may also vary according to the humidity. If the values are less than 1 MegaOhm / 30 meters, please contact the manufacture

5.1- Before connecting the Busbar to the transformer, panel and other connections, make sure that the phase of the system and the phase of the Busbar overlap.

5.2- Make sure that the ventilation and drainage holes are open. Make sure that the screws and plugs in the drain holes for the outdoor Busbars are removed according to the manufacturer's instructions.

KXMANUAL Energizing Before Energizing

6.1- It is recommended that no energy is applied to the line even if the insulation resistance test successfully completed.

6.2- When the equipment is energized for the first time, qualified electrical personnel must be present. If short circuits and earth faults are present due to damage or poor installation practices are not detected in the exit procedure, serious damage may occur when the power is turned on.

6.3- When the power is supplied, the Busbar must not have an electrical load. Since the Busbar typically runs through several rooms at ground level, care must be taken to see that all devices supplied by the Busbar path are in the "OFF" position.

6.4- The equipment must be energized in sequence starting from the welding end of the system and working towards the load side. In other words, it energizes the main devices, then the feeder devices and then the branch-circuit devices. Turn the devices to the "ON" position with a solid positive motion.

6.5- Once all over current devices have been switched on, loads such as lighting circuits, contactors, heaters and motors can be turned ON.

6.6- When properly used, the Busbar will have a moderate hum. Excessive noise may be an indication of hardware that has not been extruded or incorrectly mounted metal parts.

7- Busbar current, route and hangers should be checked whether they are made according to the relevant isometries.



8- All Busbar system should be checked visually to be certain that they are clean and secure. Loose contaminated connections increase electrical resistance which can cause overheating.

9- Any type of blower or compressed air should not be used to avoid blowing dust into Busbar joints, tap off boxes or circuit breakers. If there is accumulation of dust and dirt, clean it off by using a soft brush, vacuum cleaner, or clean lint free rags.

10- All joints should be correctly tightened according to the torque value given and should be marked. Then install the locking plates correctly. Systems should be checked as per final isometric drawings.

11- I Tap Off boxes fed from the Busbar should be on "OFF" position.

12- The Busbar runs should be isolated by disconnecting all connections to transformers, switchboards, meters, etc.

13- Insulation resistance test using insulation resistance test equipment rated 1000V AC should be conducted to verify the integrity of the system. This test should be performed between phases, neutral and earth. Permanent records should be kept of resistance readings. If the insulation reading appears to be lower than 1 mega-ohm, then the cause should be investigated.

14- The system phase sequence should be checked in order to match the Busbar phases sequence before reconnecting all connections to transformers, switchboards, meters, etc.

KXMANUAL Energizing Energizing The Equipment



Energizing The Equipment

1- The equipment should be only energized by authorised personnel.

2- There should be no electrical load on the Busbar system when it is energized

3- High voltage in electrical equipment can cause severe personal injury or death. Energizing a Busbar run for the first time is potentially dangerous. Therefore system operational voltage should be checked

4- The connected equipment should be energized in sequence by starting at the source and proceed to end of the system

5- After all over-current devices have been turned on, loads such as lighting, contactors, heaters and motors may be turned "ON".

6- EAE Busbar system are particularly quiet when operating normally. In some installations however there may be a moderate hum. Excessive noise may be an indication of hardware that has not been tightened or of metal parts that have been improperly assembled and this should be checked after de- energizing the system and isolating it safety.

KXMANUAL ► Maintenance ► Busbar Runs



▲ Important!

High voltages in electrical equipment can cause severe personal injury or death unless otherwise specified. Installation, inspection and preventive maintenance should only be performed on Busbar system of which the power has been turned off, disconnected and electrically isolated so that no accidental contact can be made with energized parts.

Operation of the Busbar trunking which has been water or moisture damaged can cause property damage, severe personal injury, or death. Observe the precautions to assure adequate insulation resistance and that sources of moisture are eliminated. Latest IEC 61439-6 and locally applicable safety related work practices should be followed at all times.

△ Important!

Hydrocarbon spray propellants and, hydrocarbon based sprays or compounds will cause degradation of certain plastics. Contact EAE before using these products to clean, dry, or lubricate components during installation or maintenance.

1- An external inspection of the system should be carried out once a year.

2- Any dripping or other source of moisture onto the Busbar modules should be eliminated from the installation area.

Tap Off Boxes With Protective Devices

1- EAE tap off boxes are not equipped with any protective device unless they are required by customer. Any type of devices can be fixed in tap off boxes providing specific information about device prior to manufacture in order to adjust interlock mechanism.

2- Tap off boxes operating mechanisms of all electrical & mechanical interlocks should be energized to determine that they operate freely to their full on and off positions.

3- The total continuous load current should be measured by using proper instruments that does not exceed the current rating on the Busbar name plate or the designated design current.

4- After performing all of the above inspections and necessary repairs, it may be desirable to perform an infra-red temperature test on all electrical connections after the Busbar system is re-energized and reaches a stabilized operating temperature.

PRODUCT TYPES

BUSBAR ENERGY DISTRIBUTION SYSTEMS

CABLE TRAYS

TROLLEY BUSBAR ENERGY DISTRIBUTION SYSTEMS

INDOOR SOLUTIONS















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