

AX1 IN A STANDARD CONTAINER IN MALMBERGET, SWEDEN

In addition to standard setups AX1 can also be delivered in interesting applications. Below you can read an example of this. Through its compact design it is possible to install AX1 switchgear in a standard container, giving many advantages. For instance, during mining operations one wants to be able to move the switchgear forward in coordination with the mining progress. Most certainly there are also other use areas where container installed switchgears can be an interesting solution.

AX1 in Alliansen mine, Malmberget

In 2000, a container-mounted AX1 switchgear was installed in LKAB's mine Alliansen in Malmberget in northern Sweden. The switchgear is located 1000 m below surface level in an environment tough and demanding for both mining workers and for the mechanical and electrical equipment involved in the ore mining.

Why did LKAB then choose a container-mounted AX1 switchgear?

In a mine you are continuously drilling further and further into the rock. In situations with feeding from a permanent switchgear the cable run sooner or later becomes too long, and you will have to move the switchgear, which costs money and causes operative disturbances. Therefore a need for a mobile solution arose, enabling the switchgear to be moved quickly and easily in coordination with the mining progress.

Due to its compact design the AX1 bays can easily fit in a 24-foot standard container. Since the cubicle door is pushed down vertically when opened, no additional space is needed in front of the bays and the demands for maneuver space width are thus fulfilled. A total of 7 AX1 bays are included in the container.

Another crucial advantage with AX1 was the active arc eliminator, which prevents pressure increase in the event of an arc fault, making pressure release systems unnecessary. This greatly simplifies the installation of the switchgear.

LKAB also has other AX1 installations in Malmberget. A standard installed AX1 switchgear is isoperating and also two other container-mounted AX1.

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