

Low-Voltage Power Distribution System with xEnergy Shopping and Entertainment on 36,000 m²



Affordable and standardised power distribution systems must be adaptable to customer requirements through which efficient planning, assembly, installation and operation are ensured. xEnergy meets all these requirements and stands for maximum flexibility, economy and reliability.



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THE COMPANY

Galeria Kazimierz, a modern shopping and entertainment centre is in the heart of Cracow near the historic part of the town. The shopping and entertainment centre run by the Globe Trade Center (GTC) in Cracow consists of more than 36,000 square metres of floor space on two levels. Galeria Kazimierz will accommodate 160 chain stores and several restaurants, as well as offering various entertainment facilities, such as a Multiplex Cinema City with ten cinemas. 1700 car parking spaces are provided.

Reliable, safe, with high availability

Globe Trade Center (GTC) is the company that built and runs the Galeria Kazimierz in Cracow, Poland, a combined shopping and entertainment centre with 36,000 square metres of floor space. Panel builders Hulanicki Bednarek Sp. z o.o. are Moeller's partner for xEnergy and MODAN in this project. Both project partners, Hulanicki Bednarek and Moeller Poland, have enjoyed good relations for a long time. Furthermore, the panel builders appreciate the competent support provided by Moeller in Poland.

The low-voltage power distribution system designed for the Galeria Kazimierz consists of 62 xEnergy sections (around 50 metres) distributed over three main power distribution boards. The main busbars transfer currents of

2500A, 3200A and 4000A. xEnergy power sections with IZM and NZM4 with mechanical interlocks and busbar links are also installed. xEnergy outgoing sections with NZM1 to 3 power feeders are used for substations, as well as motor starter combinations with PKZ and DIL contactors. xEnergy sections with power factor compensation are also provided with the xEnergy corner sections.

xEnergy: one technical unit

xEnergy is Moeller's new system range, and consists of power distribution systems specially designed for the building infrastructure up to 4000 A. The individual switching and protective devices, the associated mounting system design and also the switchgear form one technical unit on the Moeller power distribution system. This kind of system is both economical and reliable at the same time, as perfectly matched and type-tested functional units have been developed as a modular system. Exactly tailored function modules that have been type-tested in accordance with IEC 60439 with an internal separation from Form 1 to Form 4, comply with local installation requirements (DIN VDE, CEI, NF, UNE).

The xEnergy range consists of:

- Feeder and coupling sections for circuit-breakers up to 4000 A,
- Individually equipped outgoer sections with fixed compartment modules for switching

and protective devices including motor starter combinations up to 630 A,

Outgoing sections up to 630 A for flush-mounted switch-fuse strips, fuse rails and fuse switch-disconnectors,

Control sections and empty sections for ancillary components such as motor starters, PFC modules, frequency inverters, soft starters or for automation solutions,

Mounting systems for rail-mounted service installation devices for conventional service distribution boards up to 630 A.

Varied software tools

Moeller offers software tools for the panel builder to plan and document their projects simply. These range from tools for network calculation, configuration, quotations, system engineering to order handling. The Moeller tools, which have the system data of both the power distribution system and the switchgear integrated, allow the system required to be selected and configured precisely and quickly, in accordance with international standards.

CONCLUSION

On project completion, the end customer, Globe Trade Center (GTC), was very satisfied how professionally and reliably the project partners had worked. The entire modular power distribution system was supplied in just one week, the individual switchgear and mounting systems fitted together perfectly, enabling the partners to commission the system without any problems. "xEnergy meets our requirements in all that we expected, we can fully recommend the system".