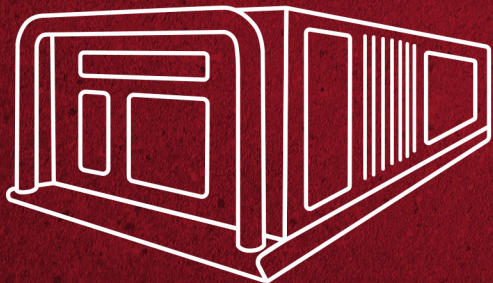




Power center



#EnergyThatTransforms



General information

- The MinePower POWER CENTER or commonly known as the mine substation, is the total integration of the medium voltage supply system, power transformer and low voltage distribution, including its own services in 220 and 110 volts.

The MinePower POWER CENTER is the first equipment to integrate a fire detection and suppression system, based on Ecaro-25 (HFC-125) clean agent, for the mine interior.

Manufactured with high quality steel plate, profiles and sheet metal, it guarantees resistance to impacts and effective protection of the elements inside the mine.

Description

- The MinePower POWER CENTER can be integrated in its initial phase by a power switch with vacuum contacts or by an air disconnect power switch and fuses.

Dry type power transformer, with copper-copper windings and protected with VPI (VACUUM PRESURE IMPREGNATED) system.

- In low voltage, there are distribution components for 480-volt loads, whose number of probable combinations depends on the customer's needs and ranges from a simple voltage tap with switch to a complete starting and speed variation system.
- The transformer, load center and receptacles are also located at this stage. Its connection or voltage supply in medium voltage, by glands and GGC or SHDGC type cables, provide safety and simplicity in the connection and interconnection of the equipment.
- The MinePower POWER CENTER enclosure is welded at key points and reinforced to improve the strength of the structure, which is welded with MIG and stick welding equipment as required.
- To give it greater resistance in humid environments, the equipment is cleaned with an abrasive, which is shot blasted, in order to create an anchoring base on the surface for the initial two-component epoxy coating. It is coated with yellow or white high solids polyurethane paint to visualize the substation inside the mine.





Product features

- Capacity 300, 500, 750, 750, 1000, 1250, 1500 and 2000 kVA.
- Operating voltage: 4.16, 15, 24 or 34.5 kV.
- Feeder circuit breaker with vacuum tube insulated contacts.
- Vacuum arc extinguishing medium.
- Operating height: 2600 MASL.
- Set of surge arresters for operating voltage level.

Application

- Power distribution inside the mine.
- Can be used outdoors, with minimum special considerations.
- Effective protection of users and machinery by ground fault and/or loss of ground wire without pilot wire (depends on user's configuration).

Equipment specifications

Degree protection	Material	Weight	Finish
Nema 1 o N3R	ASTM A36 carbon steel plate, A36 structural steel, caps are worked from high quality pickled steel plate.	From 6.06 to 7.71 (short ton), depending on configurations.	Epoxy primer coating, painted in high solids polyurethane finish.



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Benefits

Safety and ease of connection and interconnection of the equipment.
Protection and control.

Vacuum impregnation (VPI) of the insulating varnish eliminates winding gaps, reducing the generation of corona effect.

Other advantages of the VPI system:

- Design flexibility.
- Elimination of cracking problems.
- Reduced weight.
- Easy handling

Standards

Applicable standards:


- NOM-001-SEDE-2012 electrical installations.
- Some of its components are certified under international standards such as UL, IEC, NEMA, IEEE.

Complementary product

- MINE POWER specialist in repair, reconditioning and upgrading of underground equipment.
- Schneider's new generation MTZ circuit breaker, which offers great advantages for electrical maintenance teams.
- In addition, we have the most updated technology in low voltage circuit breakers.



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