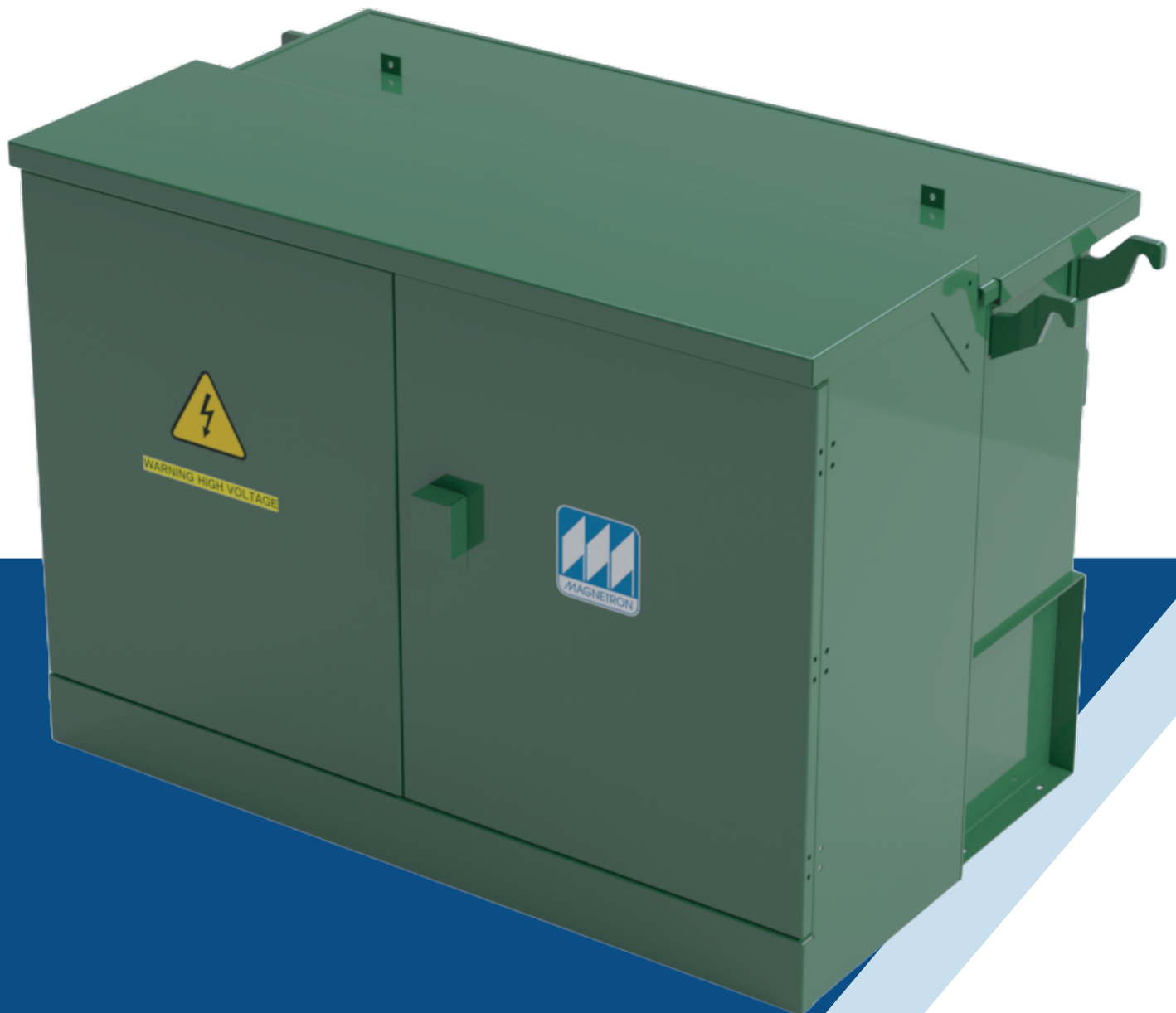




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SWITCHGEAR DATASHEET



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General:

A compartment-type switchgear is composed of a tank with a high-voltage cable compartment and its accessories. The enclosure is provided with latching/locking devices to prevent unauthorized access to the terminating compartment.

Switchgears are used to split the input lines in one or more branches for underground networks. Magnetron offers the following types depending on the intended application:

Sequential mesh type: They have an input, an output and a branch, connected through a four-position isolator, operating in sequence, under load and immersed in oil.

Selective loop feed:: One input, one output and one or more branches depending on the needs of the customer; connected through ON-OFF (one per output/branch), which allows flexibility to isolate each circuit independently, in addition to connecting multiple transformers.

Technical fundamentals:



BUSHING WELL: provides a secure and easy connection to a insert bushing at the air side. Bushing wells are manufactured compliance to the ANSI/IEEE 386 standard to ensure its compatibility with dead front connection accessories of the same class

BUSHING INSERT: Dead front loadbreak accessory to connect the bushing wells to the loadbreak elbow. Easy to install and replace on site.

ELBOW TYPE CONNECTOR: It is a component to which the exposed cable of the high voltage line is connected, so that it can be subsequently connected to the insulator or bushing in the switching gear. It is designed in such a way that when this joint is made, the axes of the conductor and the bushing are perpendicular to each other.

LOADBREAK SWITCH: open/close a circuit to isolate the load from the feed circuit whenever it is needed.

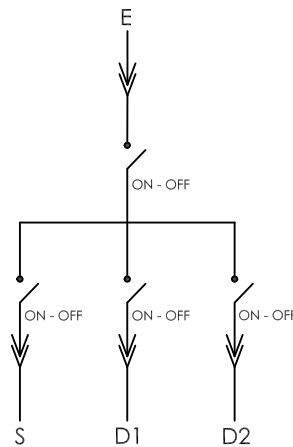
FOUR-POSITION LOADBREAK SWITCH: It is a four position loadbreak switch that allows different connection layouts between the input and the output/branch lines.

Magnetron switchgears:

Magnetron designs and manufactures switchgear equipment depending on the requirements of the customer, complying with the accessories and enclosure requirements listed by ANSI standards C57.12.28 and C57.12.29.

Equipped with front hinged doors to access the terminating compartment for easy handling and installation.

Single line diagram:



Standard accessories:

Main features when ordering:

- Design standard
- Insulating fluid
- Type
- Number of branches/outputs
- Class/BIL (kV)
- Rated current capacity

Standard accessories:

- Bushing well
- ON-OFF Loadbreak switch
- Four position loadbreak switch
- Filling plug
- Drain and sampling valve
- Pressure relief valve
- Oil level gauge
- Tank grounding
- ²Applies only to the selective loop feed
- ³Applies only to the sequential loop feed

Optional accessories:

- Bay-o-net fuse holder
- Bay-o-net fuse
- Elbow arresters

Routine Tests:

- Applied voltage
- Induced voltage
- Electrical continuity

Design tests:

- Lightning impulse

Documents to be delivered by Magnetron:

- Mechanical drawings
- Connections diagram
- Factory test report/certificate



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