

SECONDARY CABINS WITH INSULATED IMS IN SF6 APPROVED ENEL TYPE DY 800

TERMS OF SERVICE

Room temperature limits

- 1) temperature not exceeding 40 ° C with average value, for a period of 24 hours not exceeding: 35 ° C
- 2) Minimum temperature for inside installation : - 15 ° C

The other features are compliant with CEI EN 60298. The line and ground switches comply with CEI EN 62271-102.

RATED CHARACTERISTICS

Maximum insulation voltage 24 Kv

Rated insulation level, sealing tensions:

- Lightning impulse to earth and between phases: 125 kV
- Pulse between open contacts of the switch: 145 kV
- power frequency to earth and between phases: 50 kV

Industrial frequency between open contacts of the switch: 60 kV

Rated frequency 50 Hz

Rated current in continuous service for the bars: 400 A

Permissible rated short duration for the bars and the derivations 12.5 kA

the permissible current peak value of short duration for the bars and the derivations 31.5 kA

Rated duration of short circuit s 1

degree of external protection IP3X

accessibility class (internal arc) A

MV CIRCUIT BREAKER CHARACTERISTICS (INT)

Rated Tension 24 KV

Rated atmospheric air tightness voltage 125 Kv

Rated frequency 50 Hz

Rated thermal current 400A

Permissible rated short duration for the bars and the derivations 12.5 Ka

Electrical life class (Ref. to tab. UE DY1501)

The permissible current peak value of short duration for the bars and the derivations 31.5 kA

Rated duration of short circuit s 1

Nominal short-circuit interruption power 12,5 kA

Nominal maneuver sequence: 10000 maneuver

Mechanical life

Nominal circuit currents

Of a predominantly active circuit 400A

Of a vacuum transformer 6,3A

Of empty line 10A

Of empty cable 16A

The switch must be of the fixed type with lateral control. Unless otherwise specified, the circuit breaker must comply with CEI 17-01.

Manual Control Switch Features (SEZ)

Nominal current 400A

Short-term nominal current permissible 12,5 kA

Rated nominal ripple current 31,5 kA

Eligible duration of short circuit 1s

Mechanical life (class) M0

Disconnecter class E0

The disconnecter must be of the two-position type (ground-line). The blade control must be manual; The pole backs movement must be simultaneous.

Ground Control Switch Features (ST)

Short-term nominal current permissible 12,5 kA

Rated nominal ripple current 31,5 kA

Short circuit power 31,5 kA

Eligible duration of short circuit 1s

Mechanical life (class) M0

Disconnecter class E1

Characteristics of electrical switch control

The switch command must be made, as applicable, as specified by type DY1537, type "A". Taking into account the mechanical and electrical interlocks referred to in paragraph 6.3 and having the following characteristics:

Auxiliary power rating 24 Vcc

Maximum absorption 300W

Soft charging time: max 30s

Connections with the remote control unit, the type of connector and the pinion must be in compliance with the requirements of the DY1050. The closing and opening controls and the status tele signals refer to the switch. On the front of the compartment must be the green (green) and red (red) buttons and the statuses of the circuit breaker must be visible. The closing and opening buttons must be protected against accidental pressures and fitted with a nameplate with the indication of the function performed. The switch must only be closed electrically. There must also be a command to allow the switch to operate without the use of electrical circuits. This command must be accessible from the front of the compartment and must be equipped with protection against accidental pressures. The O-0.3-CO fast reclosing cycle is not required in the absence of voltage.

CONSTRUCTION FEATURES

Enclosure Width 500 mm

The compartment enclosure DY800 / 1 and DY800 / 2 must conform to EU DY809 "line" compartment.

Enclosure Width 700 mm

The compartment of the DY800 / 3 compartment must conform to EU DY411, compartment "I-TM-U-IM"

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TERMS OF SERVICE

Room temperature limits:

- 1) temperature not exceeding 40 ° C with average value, for a period of 24 hours not exceeding: 35 ° C
- 2) Minimum temperature for inside installation : - 5 ° C and Minimum temperature for inside installation for DY803/4 -15 ° C

The other features are compliant with CEI EN 60298.

RATED CHARACTERISTICS EQUIPMENT CHARACTERISTICS

Maximum insulation voltage 24 kV

Rated insulation level, sealing tensions:

Lightning impulse to earth and between phases: 125 kV

Pulse between open contacts of the switch: 145 kV

power frequency to earth and between phases: 50 kV

Industrial frequency between open contacts of the switch: 60 kV

Rated frequency 50 Hz

Rated current in continuous service for the bars: 400 A

Permissible rated short duration for the bars and the derivations 12.5 or 16 KA

the permissible current peak value of short duration for the bars and the derivations 31.5 or 40 KA

Rated duration of short circuit s 1

degree of external protection IP3X

accessibility class (internal arc) A

SWITCHES AND DISCONNECTORS

Switches and disconnectors must be class E3 and SF6 insulated.

RATED CHARACTERISTICS

Rated Tension 24 KV

Normal insulation level

Sealing voltages:

At atmospheric impulse to earth and between phases 125 kVc

At atmospheric impulse on the cutting distance 145 kVc

For 1 minute at ground frequency and between phases 50 kV

For 1 minute at operating frequency on the cutting distance 60 kV

Rated frequency 50 Hz

Rated current 400A

Possible Short-term nominal current 12,5 o 16 kA

Peak rated nominal current rating 31,5 o 40 kA

Rated duration of short circuit s 1

Nominal breakdown currents

Of a predominantly active circuit 400A

Of a vacuum transformer 6,3A

Of empty line 10A

Of empty cable 16A

Current rated short circuit current 31,5 o 40 kA

Short circuit current setting number 5 2

For every switch and disconnector must be provided a sealed plug of the panel compartments, protected against accidental shocks, next to which a self-adhesive label must be applied with the words "remove the cap at the end of the operational life of the switch sole for any operation of Gas recovery ". The nameplate must have the yellow background and the black writing. If the appliance is not fitted with a cap, a plate must be affixed on which there are indications of how to recover the gas, or alternatively a reference to the user manual.

GROUND SWITCHES

Ground Switches for line and power line compartments

Possible Short-term nominal current 12,5 o 16 kA

Peak rated nominal current rating 31,5 o 40 kA

Rated nominal ripple current 31,5 kA o 40 kAc

Eligible duration of short circuit 1s

Number of short circuit current enclosures 2

Ground Switches ST1 and ST2 for transformers and user compartments

Possible Short-term nominal current 1 kA

Peak rated nominal current rating 2,5 kA

Rated nominal ripple current 2,5 kAc

Eligible duration of short circuit 1s

Number of short circuit current enclosures 2

Characteristics of ST1 and ST2 are the minimum required. It is possible to use also ST with increased performance.