OPERATING INSTRUCTIONS

NON LOAD ISOLATOR SWITCHES TYPE DTP MANUAL MECHANISM.
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1. **Warning**

Read these instructions and get acquainted with the recommendations given herein before installing the switch. **DO NOT** operate the switch until you have finished reading this. High voltage equipment must be operated by trained authorized personnel only.

2. **Introduction**

DRIWISA™ three-pole non load isolator switches are used for isolating medium voltage circuits up to 38 KV.

Non-Load isolator switches type DTP have the following parts:

3. **Upon Verification**

1. **DO NOT** operate the switch without having applied paraffin wax as a lubricant over the contact areas. Never use organic grease, oil or industrial lubricant.
2. Make several open and close operations through its operator tab lever before installing.
3. When doing so, check that the shaft turn limiting device (swivel stop) located at the end of the shaft reaches its final position when the switch is either in open or in closed position (see detail A fig. 1).
4. To facilitate any necessary adjustments to the transmission (i.e. making it longer or shorter), we suggest installing the DW-900 OPERATOR MECHANISM. Operate it according to the DW-900 OPERATOR MECHANISM MANUAL.
5. Verify that the bus bars or cables connected to the switch terminals do not exert undue stress upon them, since such stress may affect the alignment of the pole and cause incorrect operation.
6. In any operator option (right / left) the operating tab lever has to be 12° from the vertical position when the switch is in open position (Fig. 3). This allows 90° rotation for opening and closing. Make sure to tighten the operating tab lever 5/16” screws to 7.5 lb-ft (10 Nm) (fig.2).
7. Make sure the blades are completely entered into the contacts, otherwise verify the transmission because it could be wrongly installed.
4.- To Operate the Equipment

1. When operating an energized switch, it is recommended that you always use insulated gloves, boots and mats.
2. Antes de operar el equipo párese firmemente sobre el piso, inserte completamente la palanca de mando en el accionamiento de disco y opere el equipo con un movimiento continuo y firme en la dirección deseada.

WHEN OPERATING THE SWITCH, ALWAYS DO SO WITH A STRONG AND DECISIVE STROKE. NEVER HESITATE AS LEAVING THE SWITCH IN HALFWAY POSITION (BETWEEN OPEN AND CLOSED POSITION) WILL DAMAGE THE EQUIPMENT.

3. Taking figure 3 as a reference, the switch has a two-step operating cycle:

OPEN: Complete stroke from position 1 to 2 using the operating tab lever.

CLOSE: Complete stroke from position 2 to 1 (this returns the blades to their original position).

5.- Device Settings

1. Minor adjustments to its operation in conjunction with the operating mechanism (disc type or other) should always be made to the transmission rod.
2. Refer to the instruction manual of the operating mechanism, if necessary (DW-900 manual). (As long as the operating disc mechanism is acquired from DRIWISA™).
3. For more details, consult the cabinet or switchgear manufacturer.

NOTE: This switch was designed to operate under NON-LOAD conditions, make sure the system is NOT energized before making any operation. Do not hesitate to contact us as soon as possible with any doubt and / or question regarding these operating instructions. This also applies if you need more detailed information. Our contact details are at the end of the limited warranty page.

6.- Preventive Maintenance (At least once a year or every 30 operations):
1. Be sure the switch is NOT ENERGIZED.
2. Follow the basic safety rules and use the required safety devices (insulated mat, gloves, boots, grounding devices).
3. Open the switch. Clean the dirty contact surfaces and apply only DRIWISA™ paraffin wax as a lubricant over the contact areas.
   NEVER use organic grease or any other type of electrical or industrial lubricant on the contact areas.
4. Use industrial lubricant to oil the moving parts of the operating mechanism (bearings, turning points, joints, etc.).
5. Make several close-open operations through the disc operator mechanism. When doing so, check that the shaft turn limiting device (Fig.1 detail "A") located at the end of the shaft reaches its final stop when the switch is either in open or closed position.

7.- Corrective Maintenance

In case of trouble or malfunctioning, do not try to repair it by yourself, contact your nearest DRIWISA Distributor / DRIWISA Factory or the switchgear manufacturer. If spare parts are required, see the catalog pages F30-1 and F30-2.