Delco Elevator Products Ltd: Delco Standard Overspeed Governor

Delco is your Trusted Source for Elevator Projects!
WESTINGHOUSE TYPE OVERSPEED GOVERNOR

1. Purpose And Characteristic:

The function of Delco Standard Overspeed Governor (Factory Model XS19) type speed governor is to ensure the safe operation of the elevator. When the travel speed of elevator exceeds 115% of rated speed, the contact switch of speed governor will open to make traction machine stop. The speed governor will set and operate the safety gear to make the car stop.

2. Main Technical Parameter:

2.1 Rated speed V: 125 — 500 fpm
2.2 Rope tension: 400 lbs.
2.3 Rope diameter Φ: 3/8"

Supply various type products within above mentioned speed range as customers' requirement. There are various products within the speed range to meet customer's requirements.

3. Precautions:

3.1 Use the speed governor strictly according to the car rated speed and rope diameter indicated on the name plate of speed governor.
3.2 Do not remove seals and adjust speed governor haphazardly.
3.3 Applying lube on speed governor rope is forbidden.
3.4 The direction of the red arrow on the speed governor sheave shall be car down direction.
3.5 Do not run elevator without speed governor.

4. Speed Governor Installation:

4.1 The dimension of speed governor (see figure 1).
4.2 Open packaging box and remove shield of speed governor.
4.3 Install speed governor rope and adjust the front, back, left and right position of speed governor.
4.4 Install expansion bolts into holes (also can be installed on the frame) according to base 4- Φ15 hole position drilled on the base or on the floor. Note: make sure the direction of red arrow on the speed governor sheave points towards the cars down direction.
4.5 After adjusting horizontal & vertical position of speed governor, install and tighten nuts of expansion bolts.
4.6 Connect the wire of contact switch and to the controller terminals as specified in Fig 3.

5. Maintenance:

5.1 Grease pawl every 3 months. Time interval shall be less if the speed governor works under severe conditions (for example high humidity, etc.). After finishing greasing, rotate pawl several times to spread pawl grease evenly.
5.2 Inspect governor functionality every half year, check pawl and press claw to make sure they can rotate freely; hit plate shall move freely when pushing or pressing rope frame.
5.3 Speed governor reset:

After speed governor is set, move the car up slightly, causing the ratchet to rotate clockwise. Then raise the pawl and make press claw press on the small platform on the tail of pawl. Finally reset the governor’s overspeed switch.

*Fig 1 Fig 2*
6. Installation Guide:

The Delco governor overspeed switch is factory installed in the governor and is to be hooked up using CSA approved anti-shorts and insulated eyelet crimp connectors (as shown in fig 2). The flex is terminated in a CSA or UL approved junction box (not included) mounted adjacent to the governor (as shown in fig 3). The ground wire is to be bonded in the junction box (as shown in fig 4) and to the switch. CSA or UL approved ground wire and hook up wires are then to be connected through the controller through flex or EMT to meet local electrical codes.