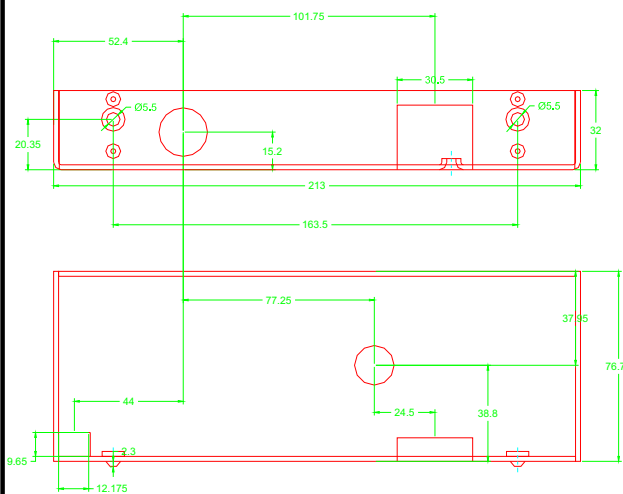
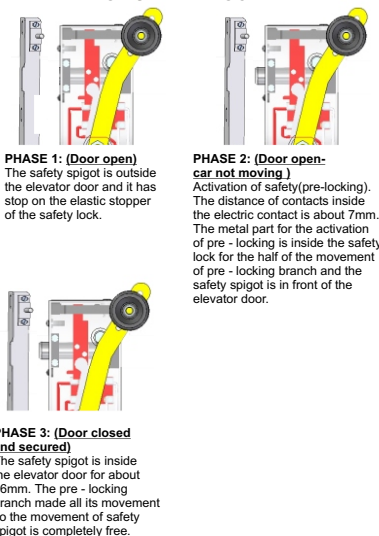


BASIC DIMENSIONS FOR INSTALLATION OF SAFETY LOCK TI



MAIN PHASES OF FUNCTION OF SAFETY LOCK TI



1. Introduction

The provision of the safety lock with pre-locking system type I (TI), which is constructed by "ELECTROMETAL" - G. MATTHAIYOU & SIA O.E.", is suitable for elevator's semi-automatic doors (single or multi panel)(elevator driven by electricity or hydraulic). The nominal elements of the safety lock's function is 42V / 0,45A D.C. & 110V / 0,15A D.C. It has provisions of mechanical & electrical control of the safety position. It has spring, adaptable to the safety spigot, which assures the compulsory return to its safety position, excluding this way the safety lock's jamming, because of external intervention. Also, the safety spigot, on its external side, has an angle cutting, which allows the safety lock to lock only from the returnable spring & the elevator's door closer. The safety lock type I (TI) satisfies the demands of prototype EN81.1&2 (safety rules for the construction & installation of the elevators, driven by electricity & hydraulic), EN60947-5-1 (devices of interruption & control of circuits control), EN 60529 (safety from accidents) & elevator's instruction 95/16/CE. The drawings that accompany every time the approval type "CE", are part of the installation's instructions.

2. Construction

There is a safety lock's construction drawing on page 1.

3. Description of function

According the three phases described on page 1.

4. Way of installation

At the door's frame, the door's manufacturer makes two holes with diameter $\Phi 8,5\text{mm}$ with drill in a distance between them $l=163,5\text{mm}$ & at the corresponded height from the under side of the door, at the frame's side, opposite the hinges. The safety lock is fastened in front with two screws M6X15 DIN965, which exist on the safety lock, so that when the safety spigot is getting in, to be at the same straight with the frame's side. The only thing that must be noted is the hole's center of spigot that exists on the door's leaf to be identical with the spigot's center of the lock. For this reason, the hole for the safety spigot on the door's leaf must have bigger diameter from the diameter of the safety spigot. The corresponded holes for the pre-locking branch & the door's contact must be noted, too. After the safety lock has been installed at the height of the door's contact, if this version exists, the door mechanism is installed too, that is, the right position of fastening are marked & simultaneously holes are opened so that the door's mechanism can be fixed. This last one, through the oval holes that it has, can be fixed in both shafts, so that the restoration of the circuit will be certain. The relative drawings on page 1.

5. Regulation-Wiring

The safety lock's wiring can be done through it's sevenfold terminal block. Where the electrical connections are made with the whole elevator's provision according to the relevant self-adhesive label that exists on the safety lock. As we are looking the safety lock at the two left receptions of the terminal block are connected the cables of the door contact (black cables), as the next two, the cables of the contact of the safety lock (red cables), the next reception is for ground (yellow-green cable) and finally at the two right receptions are connected the cables for car present contact (white cables). To be clarified that the distributed locks of the elevator's provision are connected in line among them. The safety lock type I (TI) has been controlled as far as the strength of the electric contacts concerns at a rate of 42V-0,9A D.C./110V-0,3AA.C. The nominal sizes of the lock are 42V-0,45A D.C. / 110V - 0,15A.A.C. The safety lock type I (TI) has been regulated during the production for the best function & attribution, that's why any interference or re-regulation of inside functioning mechanism is not allowed. Furthermore, the regulation of the door mechanism of the door's contact & the metallic outer branch is allowed through the holes that has.

6. Control-Maintenance

For the control of the situation of the safety lock type I (TI), the situation of the electric contact, should be checked in regular time, because their metal parts are always under tension, as well as the restoring of the electric circuit of the electric contact according to the position of the lock-unlock of the safety spigot. The lock type I (TI) doesn't have any other special demands of maintenance, because of the best materials & strict specifications that are used for its construction. In rare occasions the greasing of the moving parts is demanding or the blowing in the inside of the lock for the dust cleaning that may exist after its use for a long time. Anyway, the safety lock must be checked in the regular maintenances of the whole elevator's provision. To be clarified that some parts of the lock are possible to be replaced during these maintenances, either because of damage or because of time.