

ACCESSORY 35 ELEVATOR CONTROL

DESCRIPTION

This option provides two (2) sets of Dry Contacts, one (1) set Normally Open and one (1) set Normally Closed, which change state prior to transfer in either direction. The time delay between initiation of these contacts and switch transfer is field adjustable from .03 seconds to 30 minutes.

OPERATION

STYLE 2 AND T-200 AUTOMATIC TRANSFER SWITCH

When the transfer switch senses that the preferred power source is out of acceptable limits, a signal is sent by the transfer switch to start the on-site engine generator set. When the output of the engine generator set has attained an acceptable level, the automatic transfer switch energizes relay ECRE and timer ECTE.

When ECRE is energized, a set of dry contacts, one normally open and one normally closed, immediately change state. This sends a signal to the elevator controller that a transfer is about to occur. The time delay between the change in state of these contacts and actual transfer of the switch is field adjustable through timer ECTE. Once this timer has timed out, the automatic transfer switch transfers the load from the normal to the emergency power source, and ECRE and ECTE are de-energized allowing the set of dry contacts to revert to their original state.

Once the normal source has returned to within acceptable limits and associated time delays have been timed out to prepare for a return of the load to the normal source, relay ECRN and timer ECTN are energized. When ECRN is energized, a set of dry contacts, one normally open and one normally closed, change state signaling the elevator controller that a transfer of the power source is about to occur. When ECTN times out, the automatic transfer switch transfers the load from the emergency source to the normal source. Once the transfer is complete, ECRN and ECTN are de-energized and revert to their original state.

Please note that the engine maintain timer, EMT, is necessary for this option to function.

STYLE 3 AUTOMATIC TRANSFER SWITCH

Operation of the Elevator Control, accessory 35, when applied on a Lake Shore Electric Corporation Style 3 transfer switch is similar to that as described above for the Style 2 and T-200. However, instead of transferring to the Normal or Emergency positions after the ECT timers have timed out, the transfer switch transfers to a neutral position, which starts the Time Delay to Transfer (TDT) timer.

At this time the ECR relays and the ECT timers are de-energized and revert to their original state.

Once the TDT timer has timed out, the transfer switch completes the transfer operation.

For further information on the use of the Style 3 Transfer Switch, please see Bulletin 07300.

