

## Protect Your Elevator Machine from Over Heating

### WHAT IS THERMAL PROTECTION

Thermal Protection is mandatory for saving machines from getting damaged due to overheating. This entails the connection of Thermistor and Drive to the elevator machine. Thermistor will give signal to Drive once the temperature exceeds 130<sup>0</sup> C, causing the Drive to trip.

If due to any reason, the Drive does not trip, the winding will get burnt.

Following are different ways of ensuring Thermal Protection.

#### Usage of Fan with Thermostat for adequate cooling

Connect the fan with thermostat provided with the machine, so that it becomes automatically ON when it crosses a certain temperature.

Similarly, the fan will automatically stop after the temperature comes down.

#### Usage of PTC Connection with any Drive

For additional protection, Thermistor is provided in the winding.

The Drive manufacturer should be contacted for Thermistor connectivity to ensure the following:

- Proper connectivity of Thermistor with Drive
- Terminal configuration
- Switch configuration
- Parameter Setting

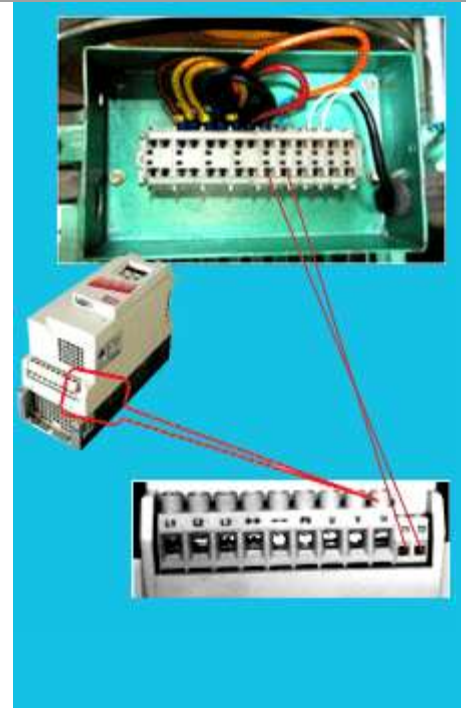
#### Usage of PTC Connection with KEB Drive

- Use Terminals T1 and T2 to connect the Thermistor
- Set parameter Lf-49 = "ON" to stop lift at floor level
- Set parameter Lf-50 = 3 sec



To the respective terminals for Thermistor and the Drive

If Thermistor Connection with the Drive is not possible usage of external device is required to avoid overheating.



**GreenStar** from Bharat Bijlee is a new generation gearless machine for elevators  
□ powered by a Permanent Magnet Synchronous Motor. It is available in the capacity of 22 passengers (1496 kg) and 24 passengers (1632 kg).

GreenStar machines also come as a package solution with Control Panel (3 Phase) and KEB Drive.

