



DSS2d – Microprocessor speed controller for one phase motor

Microprocessor speed controller type DSS2d is applied to keep constant and variable speed of asynchronous single phase motors. Speed controller assures motor speed controlling by knob setting. SOFTSTART algorithm is included especially required for fan motor with high static torque. DSS2d is applied mostly to fan motor speed regulation in HVAC systems.

DSS2d has very innovation solution of fan motor speed regulation. This solution is based on very high switching of IGBT transistors. This type of speed controlling is called AC Chopping. The DSS2d is a suitable solution for asynchronous single phase motors. It assures very low harmonics distortion and very silent and comfortable work of controlled fan.

Technical details:

- | | |
|--|-----------------------|
| - one phase supply | 230VAC/50Hz |
| - max. continuous load current | 1,5A |
| - fast fuse protection | F2.5A |
| - type of regulation | PWM AC chopping |
| - switching frequency | 20kHz |
| - suggested maximum load | 350W |
| - protection | IP20 |
| - mounting | wall mouting |
| - aux. digital input | TK-thermal protection |
| - two poles power switch | |
| - alarm indication in case of motor thermal protection | |
- (return to normal work by 10 sec. ALARM LED blinking after thermal protection realeased)

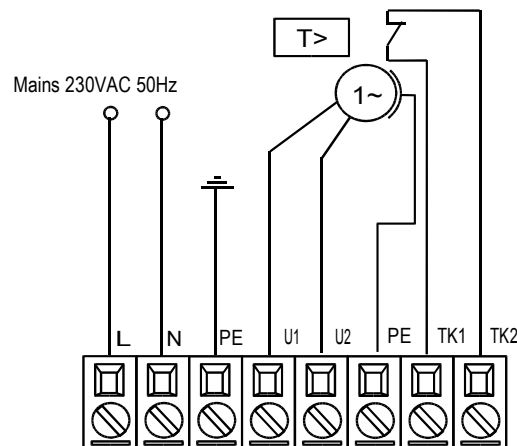


Fig.1 One phase motor connection

Manual:

After DSS2d is plugged in, turn on supply switch and set desired speed. Red LED indicates ALARM state from motor thermal protection TK, dreen LED indicates motor control..

CAUTION:

- take cares that power supply is switched off before cover removal
- devices has to be set up by skilled staff

