

ELECTRONIC SPEED RELAY VRS



FUNCTION:

It is used to control the fall of speed at shaft rotation in machines below threshold value **V min**. At reaching of this threshold value a relay contact is switched on.

Information for speed of rotation is received from a non-contact proximity sensor which is mounted near the rotation shafts. The proximity sensor generate pulses proportional of rotation speed.

OPERATION:

On power-on (to A1 and A2) **VRS** switch on immediately N.O. contact 15 - 18. This enabled possibility for normal start of the motor, which speed of rotation is controlled.

The function of control of speed is started after delay time **t1**. If speed fall below threshold value, contact 15 - 18 is switch off. Power supply of asynchronous motor is interrupted, what prevent controlled machine from damages.

Setting and adjustment of time **t1** and threshold value **V min** is execute by 2 potentiometers on front panel.

CONNECTION DIAGRAM:

As shown on diagram below, the connection of non-contact sensor is to pins of VRS

B0, B1 and B2, as follows:

B0 - to (+) of sensor

B1 - to (\perp) of sensor

B2 - to active output wire of sensor

