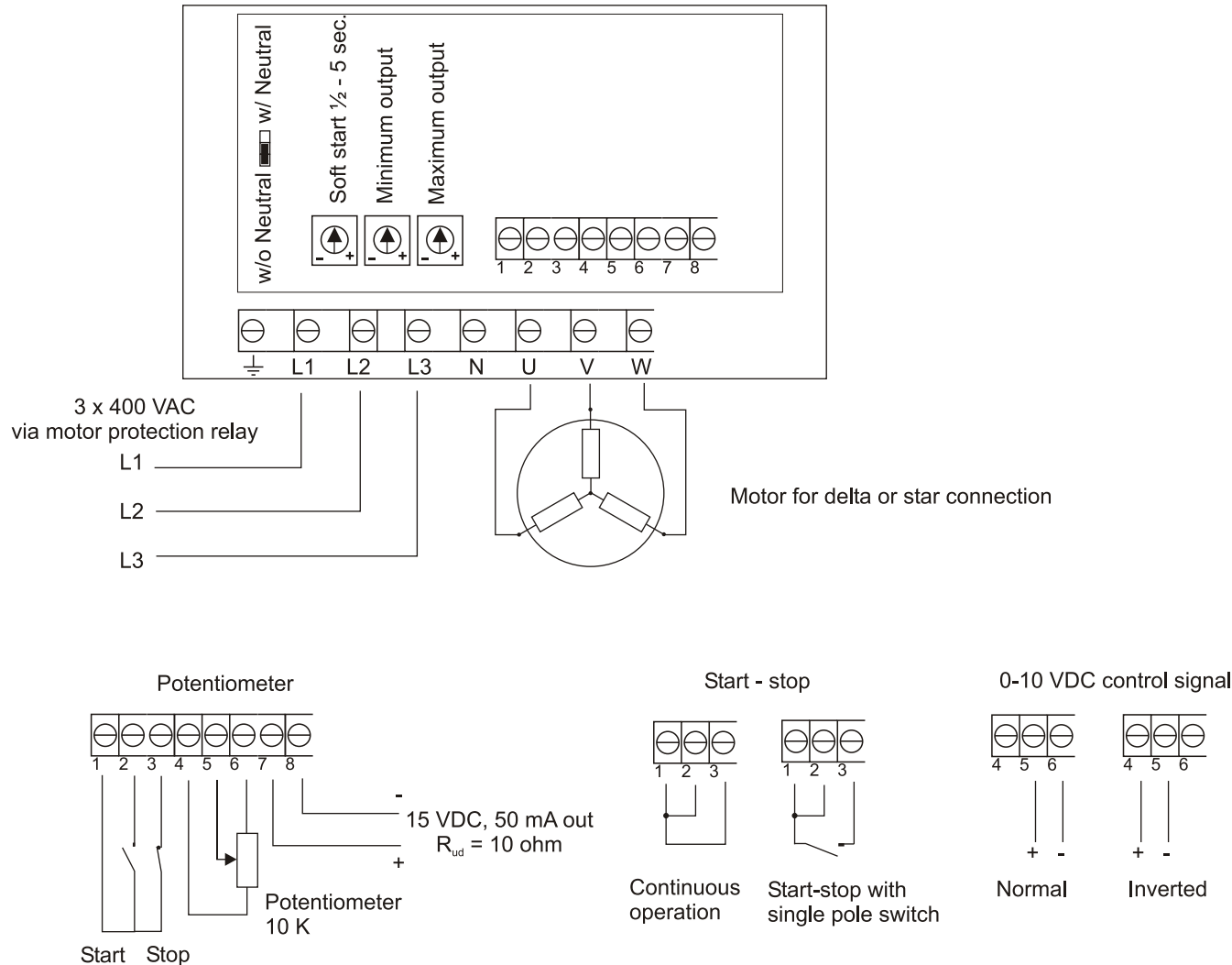


ES 196

3 phase controller 3 x 6A

Connection diagram:



Technical data :

Supply:	3 x 400V AC, 50 Hz
Mains fuse:	max. 16A
Load:	3 x 6A
Control signal:	0-10V or potentiometer 2K2 - 10K
Enclosure:	IP 00 / IP 54
Dimensions: (HxBxD)	170 x 170 x 90 mm
In box:	220 x 170 x 110 mm

Description:

3 phase voltage controller for fan motors up to 2,2 kW.

The controller is mounted in a metal housing for mechanical strength under difficult conditions. ES 196 can be mounted in boards or standard mounting boxes. It is possible to adjust minimum and maximum output voltage and soft start time.

The controller uses a floating neutral ensuring an equal load on the 3 net phases.

Without Neutral the motor voltage can be reduced to 50% which is a normal control range for motors and pumps.

A jumper makes it possible to operate in regulated Neutral (adjustment of lighting) making it possible to reduce the output voltage with approx. 20%.

Control signal options: Potentiometer, 0-10V normal and inverted, electronic start/stop. 15V DC output for control modules. The control unit is galvanic isolated from net.

Adjustment:

Place the jumper in correct position depending on whether the unit is operated with or without N.

Turn "Minimum" and "Maximum" trimmers counter clockwise (-). Set the potentiometer / control signal to minimum.

Adjust MIN-trimmer to the desired output voltage. The motor should be able to start up.

Set the potentiometer / control signal at maximum.

Adjust MAX-trimmer to the desired output voltage.

Adjust the soft start time.

Mounting:

Mounting according to current regulations.

Supply via motor protection relay.

Motor can be delta or star connected.

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Drawn by: JEH/PON

Rev.: 3.1

Manufactured by: **LS Control A/S**

LSCONTROL

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