

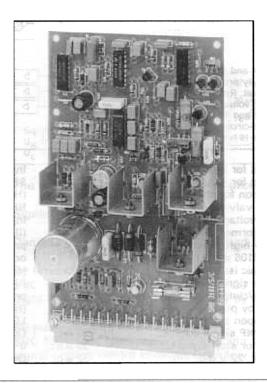


# Electronic Control Unit Type SRB 3106

**Data sheet** 

8-1988

#### **Application**



SRB 3106 can control Danfoss step units, type SRA.

External signal sources provide the SRB 3106 with information to control the starting and stopping of the SRA.

The SRB 3106 gives the following functions:

- Start and stopsignal from the same signal source.
- Start and stopsignal from two signal sources.
- Control of 2x1 or 2x2 valves.
- Free mode (SRA on/off).
- Supply voltage for signal sources.
- Status signal (brake/clutch mode).

#### Ordering

Туре	Code no.
SRB 3106	080B1050

## Technical data

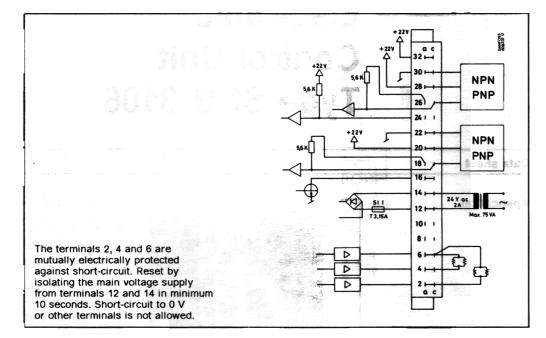
Supply voltage	24 V a.c. +10/-15%
Mains frequency	50 - 60 Hz
Consumption	max. 55 W
Ambient temperature	0 - 40°C*
Fuse	1 pc. 3.15 A slow blow fuse

<sup>\*</sup> By control of only 2x1 valves; max. ambient temperature 50°C.

#### **Data sheet**

## **SRB 3106**

## Plug connection



2 a.c.: Output for brake valves.

Output for clutch valves. 4 a.c.:

Common for clutch and 6 a.c.: brake valves.

12/14 a.c.: Main voltage supply.

Transformer; 24 V a.c. Max. 75 VA safety high isolating transformer.

SRB 3106 must have separate galvanic isolated supply.

16 a.c.: Status signal

(brake/clutch) clutch-(Only by pulse control)

NPN open collector max. 50 mA. 18 a.: NPN/PNP signal source.

Input for stop signal . Output; 22 V d.c.\* 18 c.: 20 a.c.:

22 a.c.: 0 V. 24 c.: Input for free mode;

SRA on/off.

(HIGH = ON, LOW = OFF)NPN/PNP signal source.

26 a.: Input for start signal. 26 c.:

(If pulse control has been

programmed).

Input for start/stop signal. (If level control has been

programmed).

(HIGH = brake mode, LOW = clutch mode).

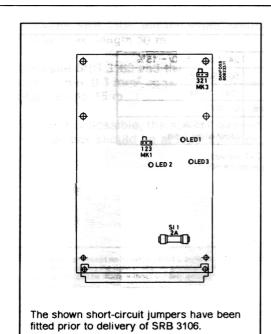
28 a.c.: Output; 22 V d.c.\*

30 a.c.: 0 V.

Output; 22 V d.c.\* 32 a.c.:

\* The max. permissible load on terminals 20, 28 and 32 is 100 mA.

## **Programming**



Pos.	Function	Notes
MK1	Pos. 1-2 Pos. 2-3	Control of 2x1 valves* Control of 2x2 valves**
мкз	Pos. 1-2 Pos. 2-3	Level control Pulse control

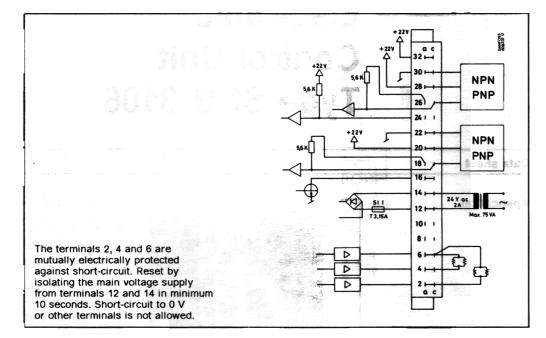
By the control of 2x1 valves; max. cycling frequency 50 Hz.

By the control of 2x2 valves; max. cycling frequency 20 Hz.

#### **Data sheet**

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## Plug connection



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Output for clutch valves. 4 a.c.:

Common for clutch and 6 a.c.: brake valves.

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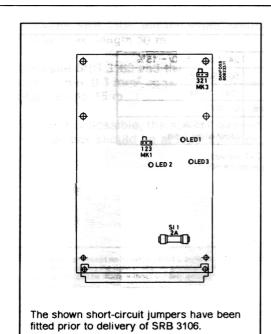
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## **Programming**



Pos.	Function	Notes
MK1	Pos. 1-2 Pos. 2-3	Control of 2x1 valves* Control of 2x2 valves**
мкз	Pos. 1-2 Pos. 2-3	Level control Pulse control

By the control of 2x1 valves; max. cycling frequency 50 Hz.

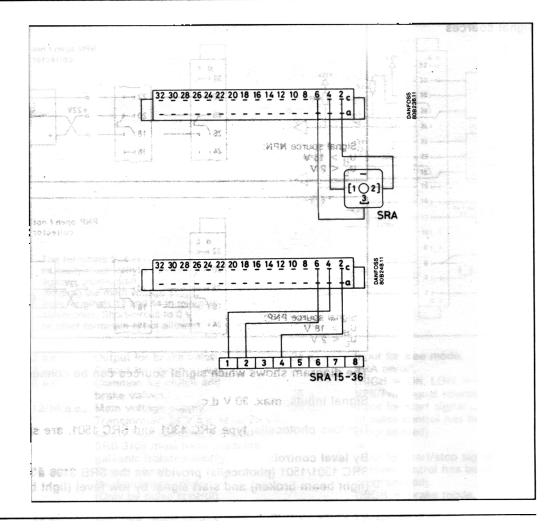
By the control of 2x2 valves; max. cycling frequency 20 Hz.



#### Data sheet

**SRB 3106** 

#### Connection of SRA



## Light-emitting diodes

LED 1 lights: if the valve outputs are short-circuited.

LED 2 lights: when the SRA is in clutch mode.

LED 3 lights: when the SRA is in brake mode.

The control always starts in this position by pulse control.

## **Connection cables**

Between SRB 3106 and the signal sources:

Cable, max. length 50 m.

Between SRB 3106 and the SRA:

Cable, min. 0.5 mm<sup>2</sup>, max. 0.25 ohm per conductor.

Max. length 15 m.

Where it is possible, the space between the connection cables and other installations should be at least 200 mm.



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