

Application

The brake control module DCF is a rectifier and voltage switch device developed to power DC electro-brakes.

This device provides an initial overexcitation voltage and after a adjustable time, between 1 and 2 sec, can switch to a holding voltage. This is achieved rectifying the input voltage initially in full-wave and, sometime later, in half-wave.

The S_{DC} connection is a DC-side disconnection bridge for a shorter brake acting time.



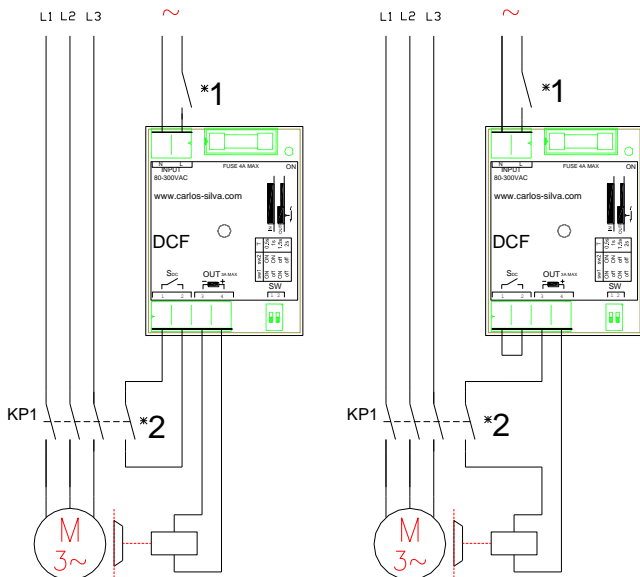
Configuration

The overexcitation time can be modified or disabled by the integrated DIP switch block.

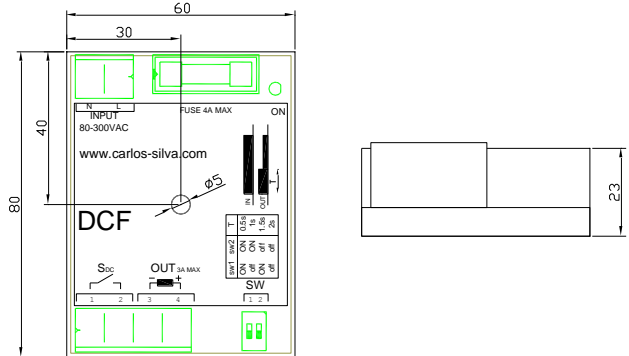


SW1	SW2	Time
ON	ON	Disabled
Off	ON	Disabled
ON	off	1s
Off	off	2s

Wiring examples



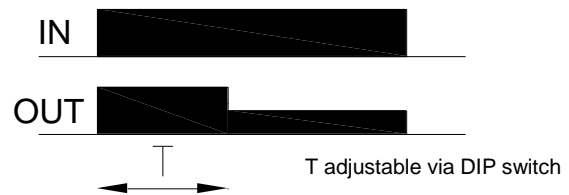
Dimensions (mm)



Technical data

Input voltage (INPUT)	80-300 VAC
Overexcitation voltage (OUT ₁)	~90% of Input voltage (Rectified in Full-wave)
Holding voltage (OUT ₂)	~45% of Input voltage (Rectified in half-wave)
Max. Output current	3A
Mounting mode	In plate with M4x30 screw or in DIN rail with supplied bracket

Time diagram



*1 Brake relay contact from controller. AC-side disconnection.

*2 Emergency brake DC-Disconnection. The switching power of the contact must be consistent with the brake current.



It is recommended a minimum cross section of 0.75mm² for the input and output voltage as well as the S_{DC} contact.

DC84501Q01

