

50A brushed PWM motor speed controller with adjustable current limiter

DATASHEET FOR:

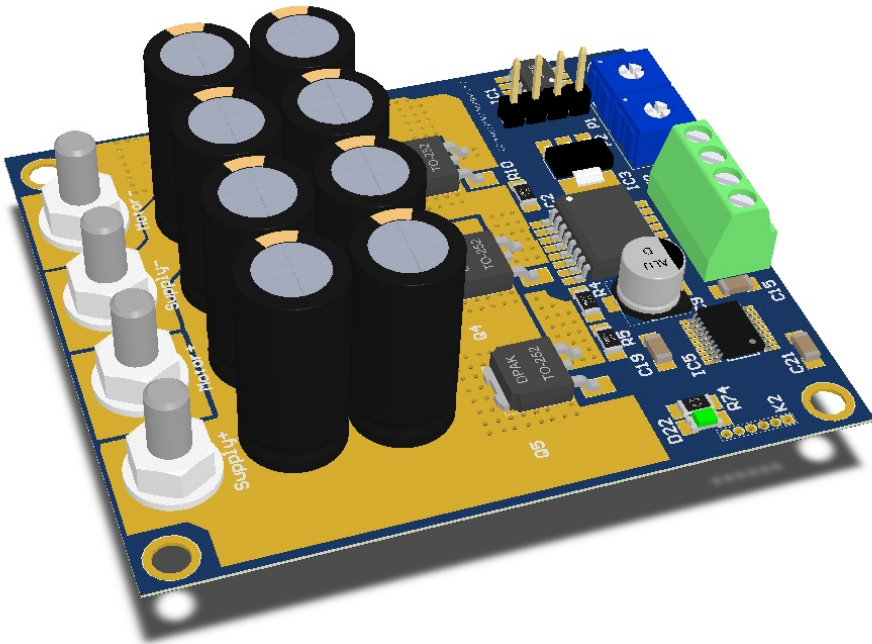
- Motor PWM HL4050 v1.2

TECHNICAL SPECIFICATIONS:

Working voltage: 10-40VDC supply
Maximal current: 50A @ 25°C

Minimal duty cycle: 0%
Maximal duty: cycle: 97%
Protections: Over current protection,
Output short protection

Switching requency: 20kHz



PIN DESCRIPTION:

M t r : The C motor negative connection.

M t r : The C motor positive connection.

upp : The positive power supply connection 10- 0V maximal voltage.

upp : The negative supply connection.

pee : round for the speed potentiometer

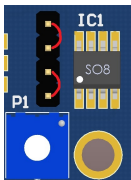
pee : peed potentiometer input. se 10kOhm linear potentiometer. t is voltage controlled input.

0, V or fewer 0 duty cycle.

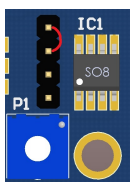
,5V or higher duty cycle.

: +5V reference voltage for the speed potentiometer. Max load current 10mA.

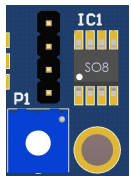
Brake/PWM input: You can use your own PWM controll signal from your PLC or microprocessor. The minimum controll PWM frequency is 100Hz. The step resolution 1us. The acceptable voltage level: 3,3-10V.



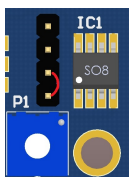
Hall throttle mode



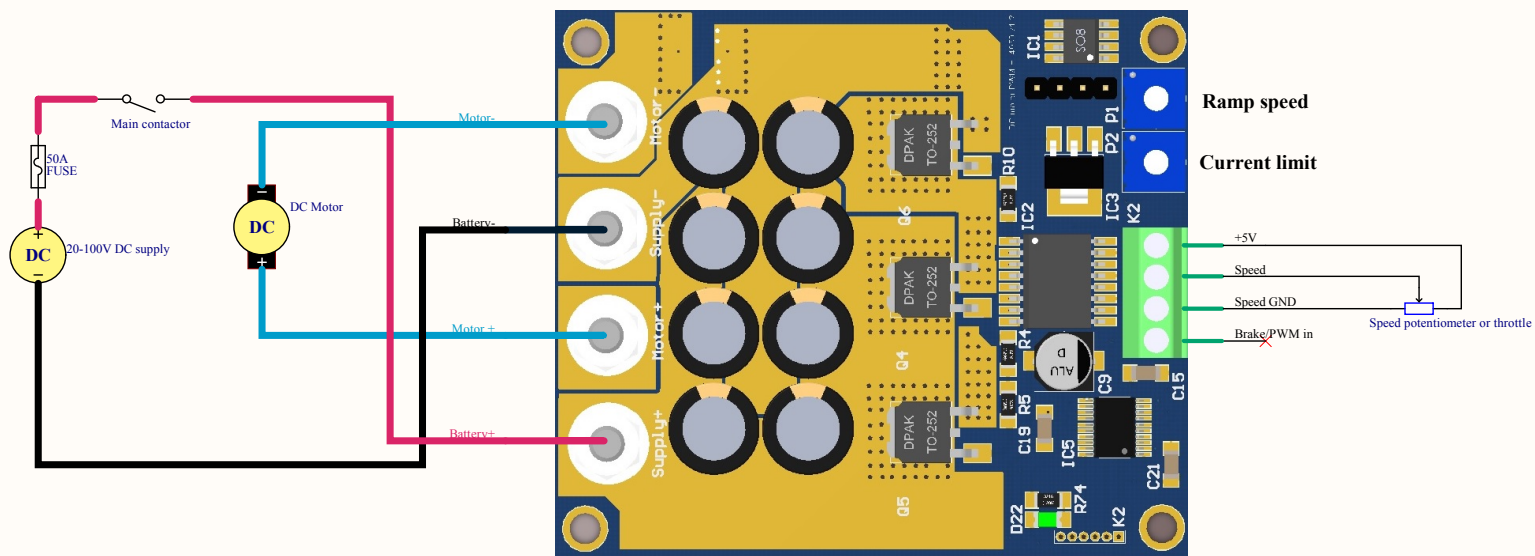
0-5V normal potentiometer mode



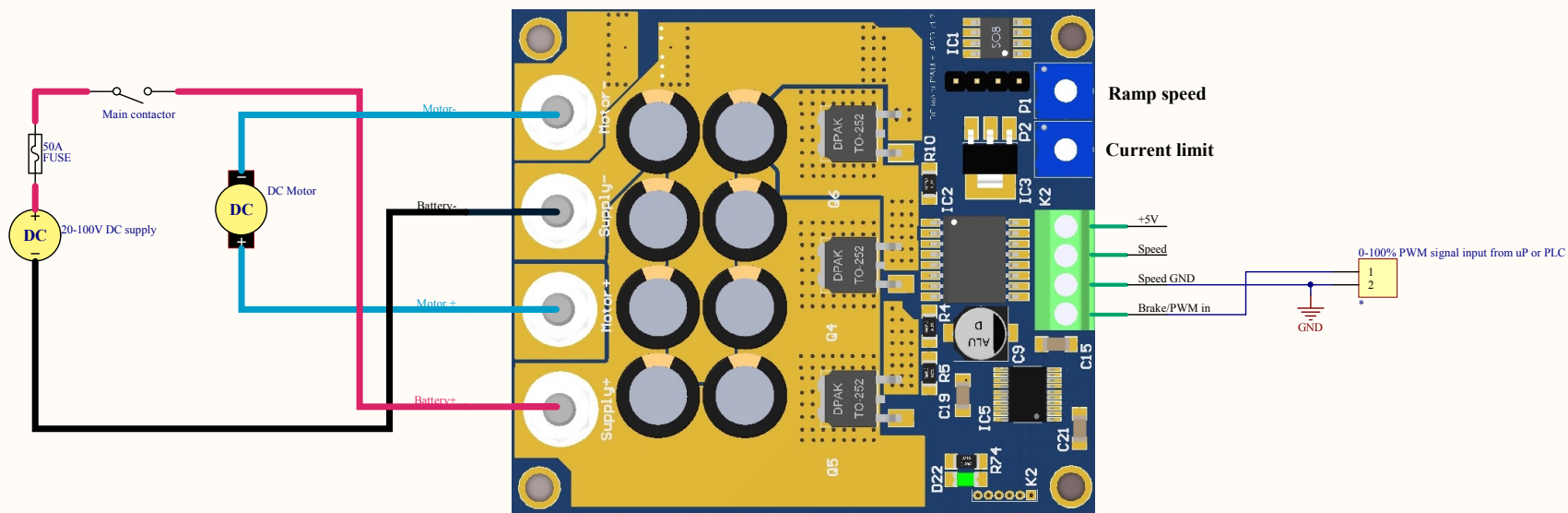
RC-receiver mode. For the 0% output you need 1,5msec PWM pulse. For the 97% output you need 2,5msec PWM pulse.



Normal PWM input mode.



Title			Standard potentiometer or throttle		
Size	Number	Revision			
A3	HL4050	Rev1			
Date:	2016.10.29.	Sheet of			
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Title			PWM input mode	
Size	Number	Revision		
A3	HL4050	Rev1		
Date:	2016.10.29.	Sheet	of	
File:	E:\Projekte\W3\SchDoc	Drawn By:		