



See ST AN4999 "STSPIN32F0 overcurrent protection"
for choice of bias resistor for single-shunt over-current protection
-3 dB point is 106 kHz $\approx 5 \times 20$ kHz (PWM)
OC current threshold is OC voltage threshold (PF6/7) + 10 mΩ

$$3.3 \text{ V} + ((1 + (150 + 10)) \times 10 \text{ m}\Omega) = 20.6 \text{ A full range}$$

Up to 8S (33.6V)
Sensorless brushless motor controller
hackshack
Sheet: /
File: Grits.sch

Title: Grits

Size: USLegal | Date: 2020-01-05
KiCad E.D.A. | kicad (5.1.5-0-10_14)

Rev: v1.3a
Id: 1/1