## **SERIES 2811 – COMPACT BLDC CONTROLLER**

#### WITH INTEGRATED BATTERY MONITORING



### **ADVANTAGE**

**Highly integrated BLDC solution** 

Easy integration into existing systems

Flexible design for multiple power applications

High level of safety and reliability

# PRODUCT FEATURES

- Motor control electronics for 3-phase BLDC motors, integrated trigger switch and forward and reverse function
- → Compact design reduces wiring efforts, adaptable for various power tools
- → Multiple heat sink options to meet optimal cooling requirements; motorspeed adjustable by software; supports 3 to 6 Li-lon battery cells
- Monitoring of voltage, overcurrent, battery temperature and MOSFETtemperature

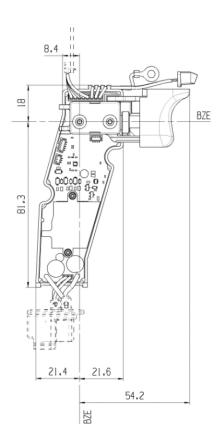
### **EXAMPLES OF APPLICATION**

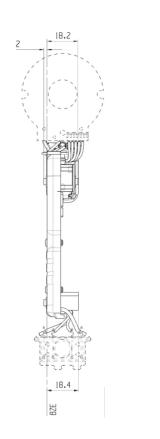
- → Power tools
- Industrial screwdrivers
- > Garden tools
- → Household appliances

	Min.	Typical	Max.	
Nominal operating voltage	5 V 8 V 8 V 8 V	10.8 V 14.4 V 18 V 21.6 V	14 V 16 V 21 V 25 V	
Nominal operating current	30 A continuous 180 A peak (locke	30 A continuous 180 A peak (locked-rotor current)		
Sleep current	Max. 40 μA (<5μA	Max. 40 μA (<5μA version available)		
Mechanical life endurance  → Actuator  → Reversing lever	300,000 (3E5) 50,000 (5E4)			
Actuator travel  → ON contact  → Total	2.0 mm 8.5 mm			
Software features	<ul> <li>→ Switching with €</li> <li>→ Current control</li> <li>→ Various braking</li> <li>→ Self-protection</li> <li>→ LED brightness</li> </ul>	<ul> <li>→ Hall-sensored six-step commutation</li> <li>→ Switching with electrical angle displacement</li> <li>→ Current control and limitation</li> <li>→ Various braking methods (Hard-to-Soft)</li> <li>→ Self-protection</li> <li>→ LED brightness software with afterglow functionality</li> <li>→ Parameterization (Development/Production)</li> </ul>		
On request	<ul><li>→ Electronic torque control</li><li>→ Data logging</li></ul>			

### **DRAWINGS**

(Dimensions in mm)





### **BLOCK DIAGRAM**

