

Single Power Rider Family

Sophisticated & Simple – Circuit Breaker, Relay, contactor

RD000112

Smart Single Circuit breakers - Advantages:

- 3 levels of protection:
 - Software – I^2t
 - Hardware – 1 μ second cutoff of over current
- Multi Task element – High end Technology in a “small box”
- Solid state-based technology
- High Reliability and MTBF
- 20 configurable parameters
- Intuitive GUI – “non developer” (no code needed)
- Scenario based logics (upon discrete Inputs)
- Cascade option – one communication line for multiple connected units (in the 25A)
- Events log for improved maintenance
- Automatic recovery plan configuration



Single Power Rider 150A
0-150A continuous current
8 MOSFET transistors, power switch
Data logger. Coulomb counter, High current situation
4 inputs/4 outputs
Single and double rout protection (one or two ways' protection)
<ul style="list-style-type: none"> • Data logger. Coulomb counter, High current situation • Discrete ON/OFF command and status output (open collector) • High reliability fuse replacement • Based on Redler's IP. (Patent pending PCT) • 8-48VDC • Communication: CAN BUS (50kbps-1Mbps- J1939) and RS 422/485 • Firmware upgrade via CAN BUS • MMI – Load/Read parameters and live graph monitor • Protections: Over current, i^2t, over Temperature, over voltage, Hardware tripped, more... • Fast 1μSec hardwired cutoffprotection - patented • Comprehensive error messages • Pilot LED <ul style="list-style-type: none"> • Reliable: high current, low RDS-on, 100V Power MOSFETs, Hardware fast short protection • New effective thermal solution • BIT • Black out and Power Down mode • 3 points overvoltage protection

Specifications:

Function	Parameter	
	Single Power Rider 150	
CPU and Memory		
CORE	STM32F091CCT7 - 32bits DSP	
Flash	256 Kbytes	
RAM	32 Kbytes	
CORE Speed	40Mhz	
MOSFET Interface		
Nominal channel resistance (room temp.)	Single route - <10mΩ	Dual route - <15mΩ
Charge Pump	>10	
Power MOSFET	2X100V@100A	
SwitchTurn ON	200nSec	
SwitchTurn OFF	300nSec	
Current measurement accuracy	2%	
General Purpose Interface		
Digital Input	1	
OC output	1	
Communication I	CANBUSj1939 - 2.0B 1Mbit/Sec	
Communication II	RS422/RS485 - 614400 bit/Sec	
Power Supply/Operating temperature		
Current consumption	20mA	
Operating Voltage	8V to 48V	
Ambient Operating Temperature	-40°C +71°C@ derating table	
Storage temp	-65°C +150°C	
I/O Connection		
Data and control connector	Norocomp 197-015-113-1 male	
Power In Power out	WE-7461059	
Ground	Harwin-R25-1001402	
Dimensions	124mmX67mmX28.6mm	
Weight	300g	



REDLER Technologies LTD. International Headquarters

Address: 5 Hgavish st., Kfar Saba 4442211, Israel
Mailing address: P.O.Box 916 Pardesia 4281500, Israel
Tel: +972-9-7672980 | **Fax:** +972-9-8652381

TollFree Number: 1-8337-REDLER
Contact us: contact@redler.co.il
Website: www.redler.co.il