

RFB B7152

Solid state starter relay with power distribution

Bitronix
Motorbike Electronics

- Replaces starter relay, two relays and fuses
- Softstart by current limiting to <175A
- Integrated 30A main fuse
- Integrated 15A Ignition/EMS/Fuel pump fuses
- Short-circuit and temperature protected

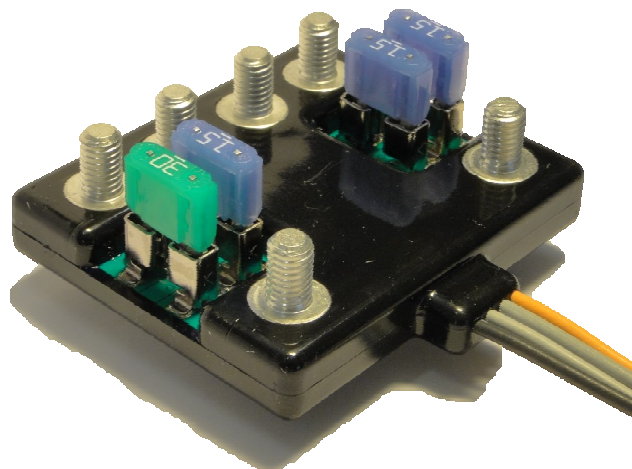
Characteristics

Rated voltage range	6.0V .. 16.0V
Time-out	10s
Circuit resistance	1.25mOhm
Power rating of starter motor	0.5kW .. 0.8kW
Boardnet fuse rating	30A, Mini-type
Ignition/Fuel pump fuse rating	15A, Mini-type
Reverse polarity protection	yes
Weight	47g
Size	45.5x53.6x9.0mm ³
Ambient temperature	-40°C .. +85°C
Connector	JST JWPF series
Receptacle	04R-JWPF-VSLE-S
Contacts	SWPR-001T-P025
Terminal type	bolt M5 x 8, 2.2Nm
Cable length	70mm

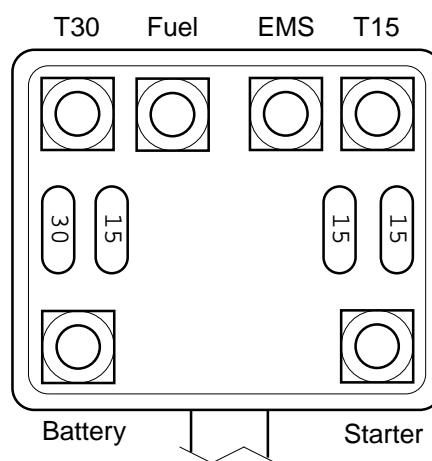
Switch logic

Inputs			Outputs					
Ign_In	Fuel_In	Start_In	Starter	Boardnet	Ignition	EMS	Fuel	
off	open	open	off	on	off	off	off	
off	open	ground	off	on	off	off	off	
off	ground	open	off	on	off	off	off	
off	ground	ground	off	on	off	off	off	
on	open	open	off	on	on	on	off	
on	open	ground	on	on	on	on	off	
on	ground	open	off	on	on	on	on	
on	ground	ground	on	on	on	on	on	

- „Boardnet“ is always connected to the battery
- „Ignition“ output is activated with the „Ign_In“ input pulled to battery voltage
- „Fuel“ and „Starter“ outputs are activated with their inputs „Fuel_In“ or „Starter_In“ pulled to ground and „Ign_In“ pulled to battery
- Output „Starter“ features a soft start and a time-out



Pin-out



Inrush current control

