



# CURRENT ROUTER DATASHEET

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CurrentCDS



by Schneider Electric

# About

The Current Router is the replacement of conventional mechanical breakers. With solid state protection, a current router can ensure fast fault clear and selectivity.

# Applications

- Office
- Greenhouse
- Grid

# Features

- Bidirectional current limiting
- Short Circuit protection
- Earth fault protection
- Mechanical lockable separation switch
- Powerline communication
- Modbus on RS485
- DC Soft connection
- Internal power supply
- Backup fuse

# Current Router 16A 700V

## Logistical data

Specification item	Value
Product name	CRN-700V-16A-1P-700V-OMO1PLC1R1RCD1SW6
Minimal order quantity MOQ	20

## Electrical input data

Specification item	Value	Unit	Condition
Nominal input voltage	700	V dc	
Maximal input voltage	760	V dc	
Minimal input voltage	640	V dc	
Nominal Current	16	A dc	
Overcurrent fast trip level	>32	A dc	
Overcurrent shutdown time	<1	µs	Direct short circuit
Overload capability	32	A	1 second duration
	17	A	16 seconds duration
Pre-charge current	120	mA	For 60ms
Earth leakage trip level	30	mA	
Earth leakage trip clear	1	mA	
Standby power consumption	3,5	W	Active, no current
Total losses	15W	W	@15A 700V dc

## Electrical connections

Specification item	Value	Unit	Condition
Incoming busbar	12,15,20,25,30	mm <sup>2</sup>	
DC Outgoing cable	1,5...4	mm <sup>2</sup>	3 connections in parallel
Rs485 cable	0.3-0.75	mm <sup>2</sup>	

## Mechanical data

Specification item	Value	Unit	Condition
Height	295	mm	Separation Switch
Width	63	mm	
Depth	156	mm	
Weight	1472	grams	
IP rating enclosure	IP20		

## Environment conditionals

Specification item	Value	Unit	Condition
Max ambient temperature	70	°C	Standby
Max ambient temperature 100%	40	°C	Full power w/o derating
Min ambient temperature	-20	°C	Standby
Ambient temperature (T-Life)	35	°C	
Storage temperature	10...30	°C	
Humidity operation	95	%	Non-condensing
Humidity storage	80	%	

# Current Router 16A 350V

## Logistical data

Specification item	Value
Product name	CRN-350V-16A-1P-350V-OMO1PLC1R1SW6
Minimal order quantity MOQ	20

## Electrical input data

Specification item	Value	Unit	Condition
Nominal input voltage	350	V dc	
Maximal input voltage	380	V dc	
Minimal input voltage	320	V dc	
Nominal Current	16	A dc	
Overcurrent fast trip level	>32	A dc	
Overcurrent shutdown time	<1	µs	Direct short circuit
Overload capability	32	A	1 second duration
	17	A	16 seconds duration
Pre-charge current	120	mA	For 60ms
Earth leakage trip level	30	mA	
Earth leakage trip clear	1	mA	
Standby power consumption	3,5	W	Active, no current
Total losses	9W	W	@15A 350V dc

## Electrical connections

Specification item	Value	Unit	Condition
Incoming busbar	12,15,20,25,30	mm <sup>2</sup>	
DC Outgoing cable	1,5...4	mm <sup>2</sup>	3 connections in parallel
Rs485 cable	0.3-0.75	mm <sup>2</sup>	

## Mechanical data

Specification item	Value	Unit	Condition
Height	295	mm	Separation Switch
Width	63	mm	
Depth	156	mm	
Weight	1472	grams	
IP rating enclosure	IP20		

## Environment conditionals

Specification item	Value	Unit	Condition
Max ambient temperature	70	°C	Standby
Max ambient temperature 100%	40	°C	Full power w/o derating
Min ambient temperature	-20	°C	Standby
Ambient temperature (T-Life)	35	°C	
Storage temperature	10...30	°C	
Humidity operation	95	%	Noncondensing
Humidity storage	80	%	



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For more information, visit  
[www.dc.systems/applications/products](http://www.dc.systems/applications/products)

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