

## NEW!



## PRODUCT INFORMATION

C310A/..., C310S/...

Bidirectional DC NO contactors for 150 A, 300 A and 500 A

The C310 is a single pole bidirectional DC NO contactor. It was designed to ensure safe switching of high loads and to protect reliably in case of a system malfunction. The new bidirectional contactors are suitable for typical applications such as the DC end of inverters, combiner boxes of photovoltaic installations, battery storage systems and electric vehicles.

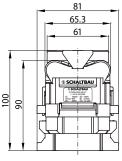
The key features and benefits of the C310 series are the compact design, double-break contacts, very efficient newly developed arc chamber as well as the high breaking capacity.

### **Features**

- DC bidirectional with permanent magnetic blowout
- Conventional thermal current 150 A, 300 A or 500 A
- High making and breaking capacity
- High rated short-time withstand current
- High resistance to shock and vibration
- Compact and robust, low weight
- Low energy consumption: standard magnetic drive – optimized thanks to electronic coil controller; bistable magnetic drive – no power consumption in open/closed position

### Dimension diagram C310A/300, circuit diagram

# 146.2 96 Coil terminal 6.3×0.8 Aux. 5880 Aux. 5880 Aux. 5880 Aux. 5880 Aux. 5880 S SCHALTBAU S SCHALTBAU S SCHALTBAU



Standard magnetic drive



Bistable magnetic drive



### Specifications

Series	/150/3	00/500
Type of voltage Main contacts, configuration	DC bidirectional, AC (f ≤ 60 Hz) 1 NO	
Nominal voltage U <sub>e</sub>	PD2: C310A: 1,500 V / C310S: 60 V PD3: C310A: 1,000 V / C310S: 60 V	
Rated insulation voltage U <sub>i</sub>	PD2: 1,500 V PD3: 1,000 V	
Rated impulse withstand voltage $U_{\text{imp}}$	8 k	V
Pollution degree Overvoltage category	PD2, PD3 OV3	
Conv. thermal current I <sub>th</sub> @ T <sub>a</sub> = 40° C	150 A 300	A 500 A
Rated short-time with stand current $I_{cw}$	3,000 A / 1 sec	
Rated short-circuit breaking capacity $I_{cr}$ @ $L/R = 0.1$ ms, $U_e = 750$ V, $I_e = 500$ A	60 switching cycles	
Auxiliary contacts	1x SPDT, single-break, S880 series, AC-15: 230 VAC / 1.0 A; DC-13: 60 VDC / 0.5 A	
Coil control supply voltage U <sub>s</sub>	Standard: 1 Bistable: 1	2 24 V DC 2 / 24 / 48 V DC
Mounting orientation	horizontal, vertical exception: do not mount upside down	
Temperature range	-40° C +85° C	
Mechanical endurance	2 million op. cycles (standard magnetic drive) 100,000 op. cycles (latch magnetic drive)	

Schaltbau GmbH Hollerithstrasse 5 81829 Munich Germany Phone Fax Email Internet +49 89 93005-0 +49 89 93005-350 contact@schaltbau.de www.schaltbau-gmbh.com

108.2

Dimensions in mm