

PRODUCT INFORMATION

DC Power Contactors

Main switches for
central inverters in PV systems



DC power contactors are needed to reliably interrupt the current during shutdown of central inverters in grid connected solar power systems.

The quality of a contactor is decided by how well it tackles electrical arcing at high voltages.

Schaltbau DC contactors are true masters in extinguishing the arc. With decades of experience in railway engineering, Schaltbau has realised sophisticated solutions and developed reliable power contactors for power plants.

Features:

- Compact, rugged design
- Double-break contacts
- Magnetic blowout
- Suitable for years of continuous service

Application:

- Solar power systems
- Wind power systems

Specifications :: Power Contactors

Series ▶	C155, C156, C157	C162	C193	C195	C294	C295	CT1000
Voltage rating	700 V ... 1.000 V 1,000 V ... 1,500 V 1,500 V ... 3,000 V	✓ --- ---	✓ --- ---	✓ --- ---	C195A, C195B --- ---	✓ --- ---	--- C295A, C295B C295K, C295L ✓ ✓
Type of voltage	DC / AC	DC / AC	DC / AC	DC / AC	DC	DC / AC	DC / AC
Nominal voltage U_n	750 V max.	750 V max.	750 V	750 V	1,000 V	1,200 V max.	1,500 V / 3,000 V
Rated insulating voltage U_i	1,000 V	1,000 V	1,000 V	1,600 V	1,200 V	1,600 V	4,800 V
Conv. thermal current I_{th}	250 A / 300 A	250 A / 300 A	50 A	250 A	40 A	120 A	400 A / 800 A
Main contacts	Number of Configuration 2 ... 4 or	1	1	1 or	2	2	1 ... 3
Auxiliary contacts	Number of Configuration 1 ... 4	1 ... 6	1	2 max.	1	2 max.	4 max. or
Coil voltage	12/24/48/60/ 80/96/110 V DC	12/24/48/60/ 80/96/110 V DC	24/36/48/ 72/80/110 V DC	24/36/48/ 72/80/110 V DC	24/36/ 72/110 V DC	24/36/48/60/ 72/110 V DC	24/110 V DC
Mechanical endurance (operating cycles)	> 2 million	> 5 million	> 5 million	> 3 million	> 3 million	> 3 million	> 3 million