



The future of charging, delivered today

Innovative DC contactors engineered for rapid megawatt charging – compact, customer-driven, and ready for stationary and mobile applications.

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The C305/C330 and C805/C830 series meets the growing demand for high-performance, compact solutions that align with rapid electrification. Handling up to 3,000 amps in a compact design the series supports both stationary infrastructure and mobile applications. Engineered for seamless integration, they're optimized for Level 2 and Level 3 megawatt-class charging, accelerating development timelines and reducing system complexity. With built-in energy-saving features, integrated thermal design, and consistent performance under continuous load, the new contactors C305/C330 and C805/C830 reduces operational costs without compromising reliability.

- **No explosion risk:** permanent magnetic arc quenching without gas encapsulation to prevent overheating and overpressure at all times
- **Best-in-class performance:** silver alloy contact pills with a contact resistance of just μOhm 35 for low power losses and less cooling
- **High longevity:** separate contact systems for making and breaking as well as for carrying the current ensure high safety and endurance
- **Maximum protection:** high breaking capacity up to 15,000 amps for 5 milliseconds without contact welding
- **Low power consumption:** integrated economizer ensures ideal pull-in behavior when switching on and minimized energy consumption in holding mode

	C305 (stationary use)	C330 (stationary use)	C805 (mobile use)	C830 (mobile use)
				
Type of voltage Main contacts, configuration	DC bi-directional / AC, $f \leq 60 \text{ Hz}$ 1 NO	DC bi-directional / AC, $f \leq 60 \text{ Hz}$ 1 NO	DC bi-directional 1 NO	DC bi-directional 1 NO
Switching voltage, max. Rated insulation voltage Rated imp. withstand voltage PD rating / OV rating	$U = 1,500 \text{ V}$ $U_i = 1,500 \text{ V}$ $U_{\text{imp}} = 10 \text{ kV}$ PD2 / OV2	$U = 1,000 \text{ V}$ $U_i = 1,500 \text{ V}$ $U_{\text{imp}} = 8 \text{ kV}$ PD2 / OV2	$U = 1,500 \text{ V}$ $U_i = 1,500 \text{ V}$ $U_{\text{imp}} = 10 \text{ kV}$ PD2 / OV2	$U = 1,000 \text{ V}$ $U_i = 1,500 \text{ V}$ $U_{\text{imp}} = 8 \text{ kV}$ PD2 / OV2
Con. free air thermal current @ cross section Pole impedance, typical Rtd. short-time withstand current	1,500 A 2x 500 mm ² 50 $\mu\Omega$ $I_{\text{cw}} = 10,000 \text{ A} @ 20 \text{ ms}^{**}, L < 50 \mu\text{H}$	$I_{\text{th}} = 2,000 \text{ A} (3,000 \text{ A} @ 95^\circ \text{ C}^*)$ 3x 500 mm ² 35 $\mu\Omega$ $I_{\text{cw}} = 15,000 \text{ A} @ 5 \text{ ms}^{**}, L < 50 \mu\text{H}$	1,500 A 2x 500 mm ² 50 $\mu\Omega$ $I_{\text{cw}} = 10,000 \text{ A} @ 20 \text{ ms}^{**}, L < 50 \mu\text{H}$	$I_{\text{th}} = 2,000 \text{ A} (3,000 \text{ A} @ 95^\circ \text{ C}^*)$ 3x 500 mm ² 35 $\mu\Omega$ $I_{\text{cw}} = 15,000 \text{ A} @ 5 \text{ ms}^{**}, L < 50 \mu\text{H}$
Aux. contact Mirror contact	1x Snap-action switch S880 IEC 60947-4-1, annex F	1x Snap-action switch S880 IEC 60947-4-1, annex F	optional	optional
Magnetic drive (monostable) Coil control (economizer)	$U_s = 24 \text{ V DC} / 16 \dots 32 \text{ V DC}$ PWM module, integrated	$U_s = 24 \text{ V DC} / 16 \dots 32 \text{ V DC}$ PWM module, integrated	$U_s = 24 \text{ V DC} / 16 \dots 32 \text{ V DC}$ PWM module, optional	$U_s = 24 \text{ V DC} / 16 \dots 32 \text{ V DC}$ PWM module, optional
Shock, vibration	EN 61373	EN 61373	ISO 16750-3 Test VII	ISO 16750-3 Test VII
Mechanical endurance	200,000 operations	200,000 operations	200,000 operations	200,000 operations
Temperatures	-40 °C ... +85 °C	-40 °C ... +85 °C	-40 °C ... +85 °C	-40 °C ... +85 °C
Dimensions (L x W x H)	149.5 x 91 x 92 mm	134.8 x 114.5 x 116.2 mm	149.5 x 91 x 92 mm	134.8 x 114.5 x 116.2 mm

* The maximum terminal temperature must be ensured by the system integration.

** Contactor stays fully functional, no contact welding

Technical data are subject to change without prior notice.
For updated product information visit www.schaltbau.com