eddicy A Schaltbau Brand

Safeguarding Test Benches

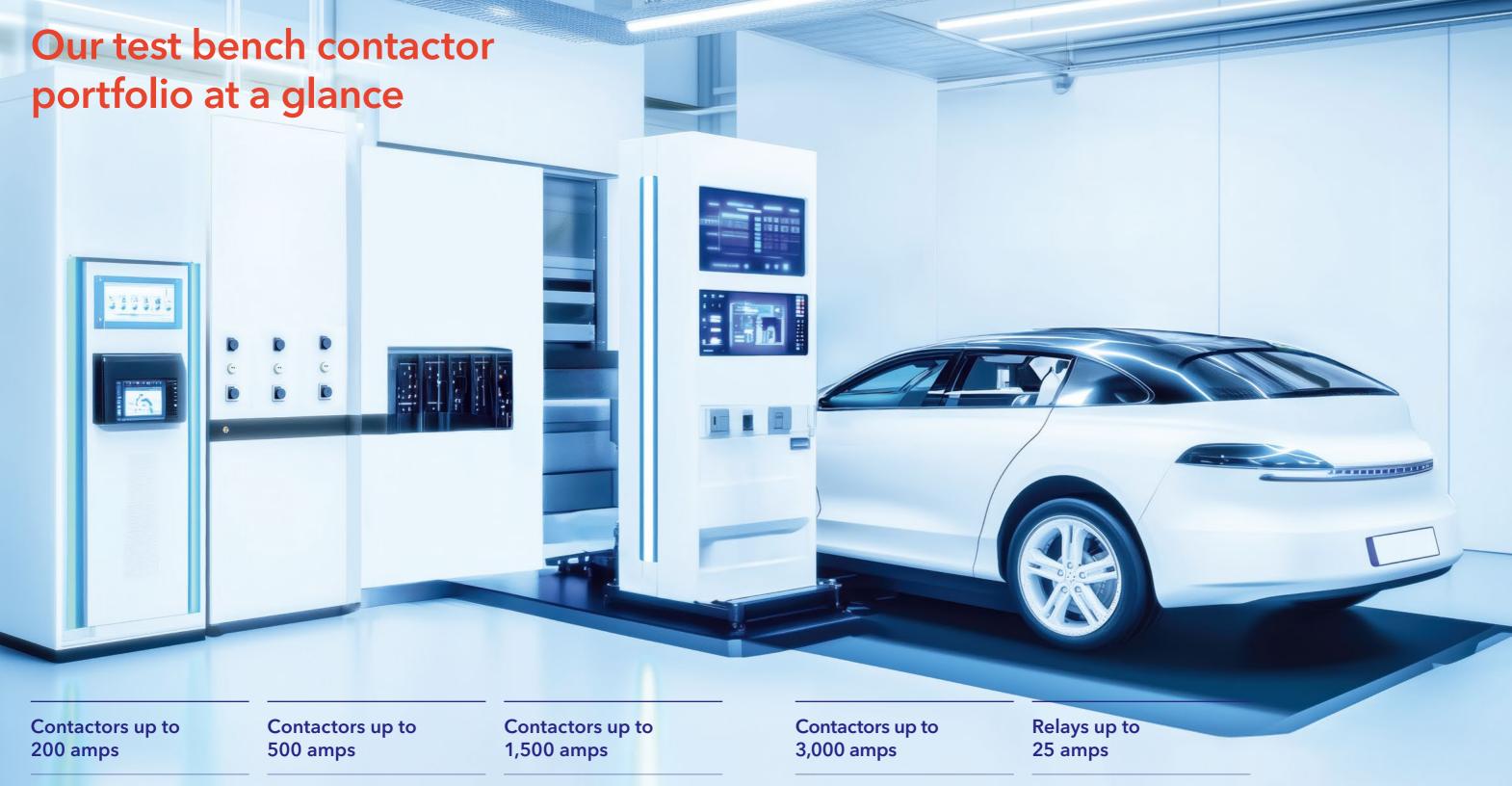
AC and DC contactors overview

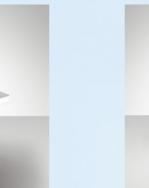






DC













Contactors up to 200 amps

C294

1x / SPDT S870

-40° C ... +70° C

> 3,000,000 operating cycles

IEC 60947-1, IEC 60077-2

Contact configuration

Nominal voltage Un /

Rated op. voltage Ue

Conv. thermal current

Type of Voltage

PD Rating

Coil Voltage

Coil suppression

Aux Contact(s)

Mechanical

Temp Range

Standards

Coil Power (Holding)

C193

1x / SPDT S870

-40° C ... +70° C

> 5,000,000 operating cycles

IEC 60947-1, IEC 60077-2

Contactors up to 500 amps

2x SPST-NO	1x SPST-NO	2x SPST-NO	1x SPST-NO or SPST-NC
DC, uni-directional	DC, uni-directional AC, $f \le 60 \text{ Hz}$ $U_n = 1,000 \text{ V}$	DC, uni-directional AC, $f \le 60 \text{ Hz}$ $U_n = 1,200 \text{ V}$	DC, uni-directional AC, $f \le 60 \text{ Hz}$ $U_n = 1,500 \text{ V}$
U _n = 1,000 V			
40 A	50 A	120 A	NO: 200 A / NC: 120 A
PD3 / OV3	PD3 / OV3	PD3 / OV3	PD3 / OV3
24/36/72/110 V DC	24 / 36 / 72 / 110 V DC	24/36/48/60/72/84/ 96/110VDC	24/36/48/60/72/84/ 96/110 V DC
Varistor	Varistor	Varistor	Supressor diode
13 W	9 W	13.5 W	23.5 W

2x / SPDT S870

-40° C ... +70° C

> 3,000,000 operating cycles

IEC 60947-1, IEC 60077-2

C295

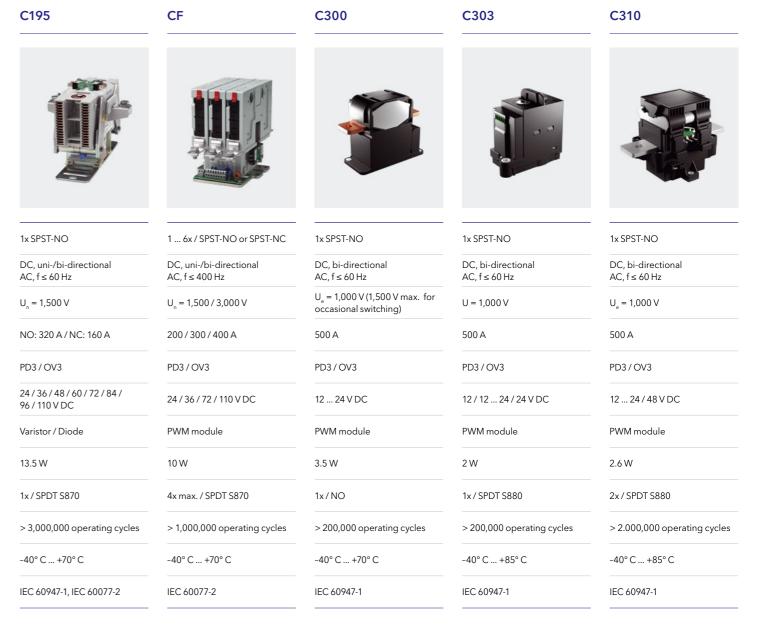
CPP

2x max. / SPDT S870

-40° C ... +70° C

IEC }60077-2

> 2,000,000 operating cycles



Contactors up to 1,500 amps

Contactors up to 3,000 amps

Relays up to 25 amps

СТ

C320

C305





Contact configuration	1 2x SPST-NO	1x SPST-NO	1x SPST-NO
Type of Voltage	DC, bi-directional AC, f ≤ 60 Hz	DC, bi-directional AC, f ≤ 60 Hz	DC, bi-directional AC, f ≤ 60 Hz
Nominal voltage Un / Rated op. voltage Ue	U _n = 1,500 / 3,000 V	U _e = 1,500 V	U _e = 1,500 V
Conv. thermal current	400 / 800 / 1,100 A	1,500 A	1,500 A
PD Rating	PD3 / OV2	PD3 / OV3	PD2 / OV2
Coil Voltage	24/36/48/72/110 V DC	24 V DC	12 / 24 V DC
Coil suppression	Double coil controller	PWM module	PWM module
Coil Power (Holding)	27 W	11 W	15 W
Aux Contact(s)	4x max. / SPDT 2x S870 + 2x S826 or 4x S826	4x max. / SPDT \$870	1x / NO or NC
Mechanical	> 2,000,000 operating cycles	> 1,000,000 operating cycles	> 200,000 operating cycles
Temp Range	-40° C +70° C	-40° C +60° C	-40° C +85° C
Standards	IEC 60077-2	IEC 60947-1	IEC 60947-1

СР

C330





R300



Contact configuration	1x SPST-NO, SPST-NC or SPDT-DB	1x SPST-NO	Contact configuration	1x or 2x SPST-NO 1x or 2x DPST (NC+NO)
Type of Voltage	DC, bi-directional AC, f ≤ 60 Hz	DC, bi-directional AC, f ≤ 60 Hz	Type of Voltage	DC, bi-directional AC, f ≤ 60 Hz
Nominal voltage Un / Rated op. voltage Ue	U _n = 1,500 / 3,000 V	U _e = 1,000 V	Switching voltage max.	5,000 V
Conv. thermal current	600 / 800 / 1,000 / 1,200 / 1,500 / 2,000 A	2,000 A (3,000 A @ 95° C)	Conv. thermal current	25 A
PD Rating	PD3 / OV3	PD2/OV2	PD Rating	PD3/OV2
Coil Voltage	24 / 36 60 / 72 110 V DC	24 V DC	Coil Voltage	24 V DC
Coil suppression	PWM module	PWM module	Coil suppression	PWM module
Coil Power (Holding)	10 W	14 W	Coil Power (Holding)	< 50 mA
Aux Contact(s)	4x max. / SPDT 2x S870 + 2x S826 or 4x S826	1x/SPDT S880	Aux Contact(s)	
Mechanical	> 1,000,000 operating cycles	> 200,000 operating cycles	Mechanical	> 5,000,000 operating cycles
Temp Range	-40° C +70° C	-40° C +85° C	Temp Range	-5° C +40° C
Standards	IEC 60077-2	IEC 60947-1	Standards	IEC 60947-1

Test benches require powerful contactors and relays to connect the different measurement instruments, power supplies and loads as well as to safely shut down the entire system in case of an emergency. For e-mobility, battery and many other energy applications, the challenge lies in safe extinguishing of the arc, insulation breakdown, and reliably withstanding thermal currents and short circuit currents during high-power testing.

Our high-voltage AC and DC contactors make, carry and break high currents safely and efficiently. Key features include a very low contact resistance, leading to low heat dissipation and high thermal currents, excellent isolation voltage up to 4,800 V as well as auxiliary contacts with normally-open and normally-closed functionality or mirror contacts functionality for a safe feedback loop according to IEC 60947-4-1, Annex F.



