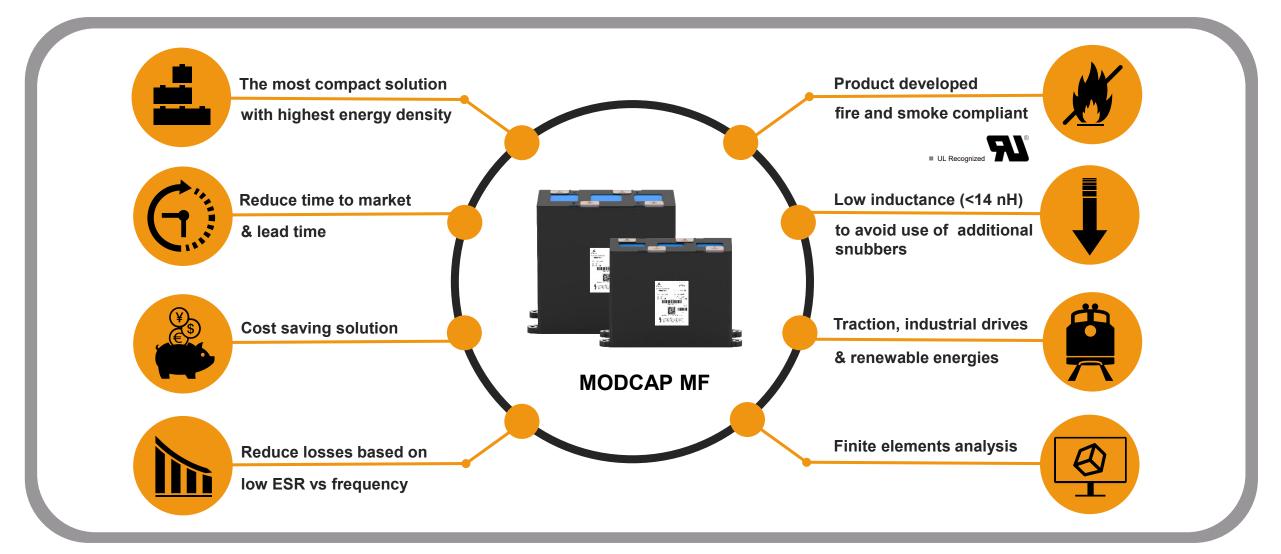
Attracting Tomorrow

Product presentation – ModCap MF

DCR Modular | New Modular Standard Series

TDK Electronics AG FILM ES PEC HP Málaga, Spain Sept 1st, 2022

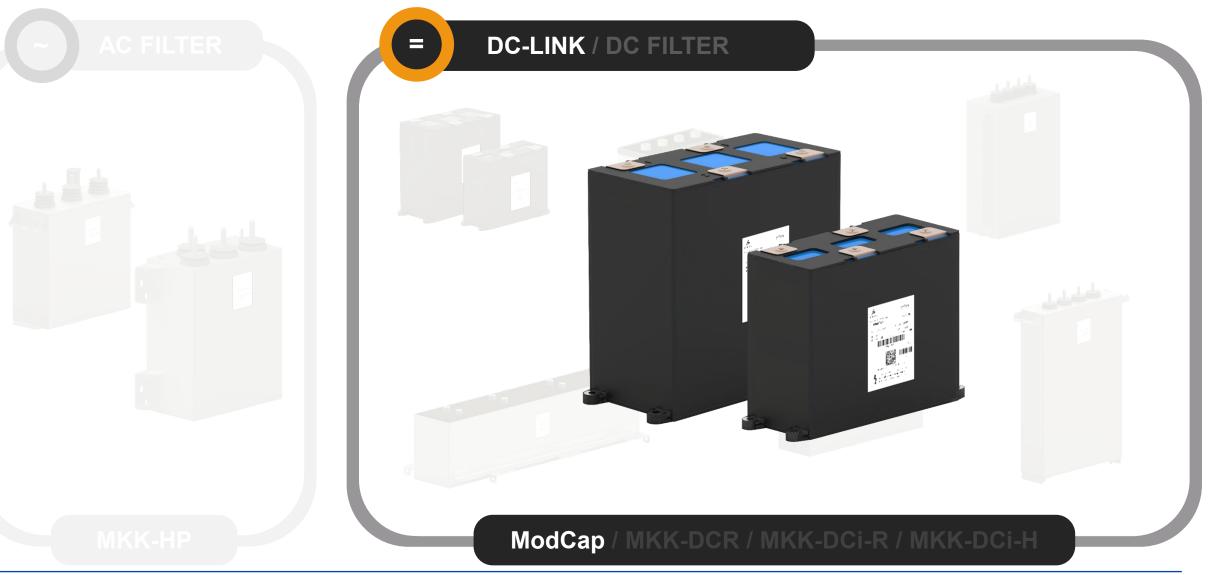
Introducing the New Modular Standard series Highligths



公TDK

Attracting Tomorrow

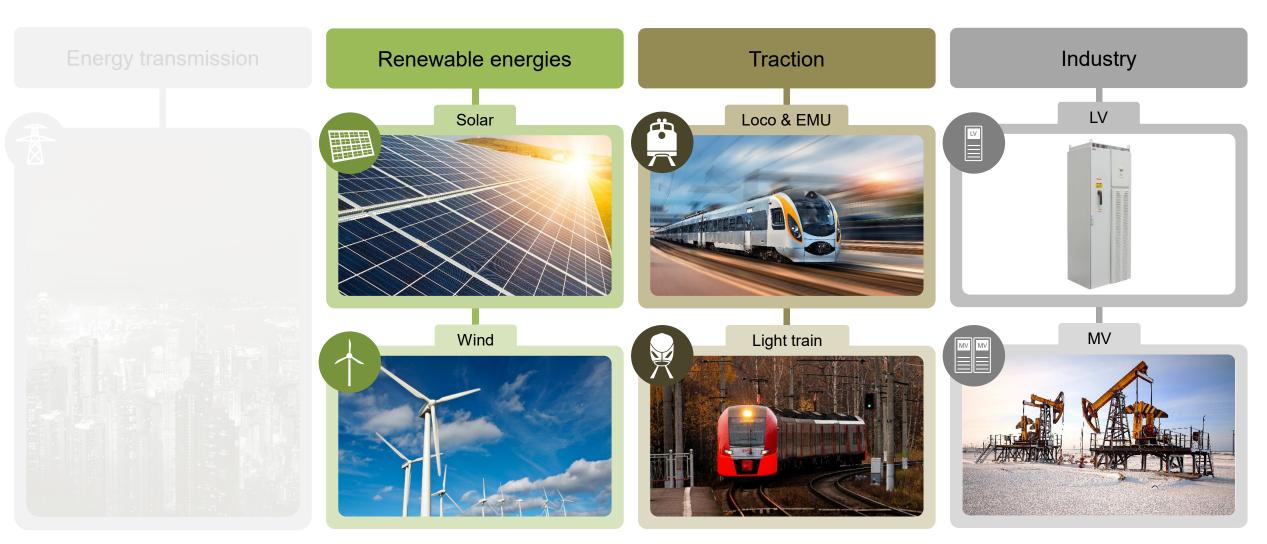
ModCap series | B25645



Product presentation · ModCap MF B25645

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ModCap series | B25645 DC-Link applications



General overview B25645 series

ModCap (dry-modular)

Features

- Capacitance range from 335 μF up to 3900 μF and voltage from 900 V up to 2,300 V
- Low ESL <14 nH</p>
- Temperature range up to 90 °C hotspot
- IEC 61071, IEC 61881-1, EN 45545-2 HL3 R23 (fire and smoke)
- Filled with polyurethane resin (dry technology)
- Plastic case (opened)
- Flat windings

Benefits

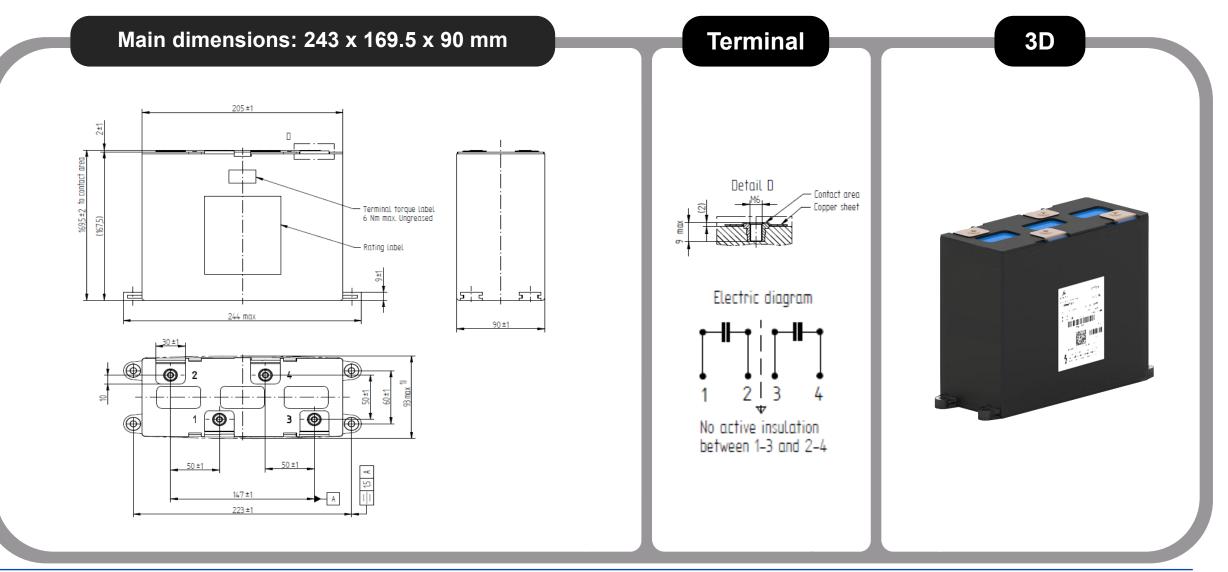
- High energy density, ultra compact solution
- Modular concept for parallelization
- Snubber avoidance / low voltage overshoot
- Lifetime up to 200,000 hours
- Finite elements analysis available for the whole series
- Cost oriented solution
- Reduced time to market & lead time

a and a second

Recommended applications

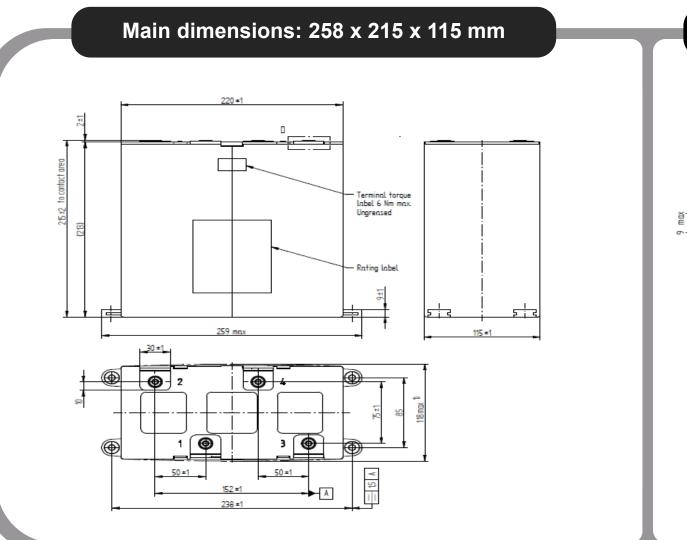
Construction A Simplified drawing & 3-D

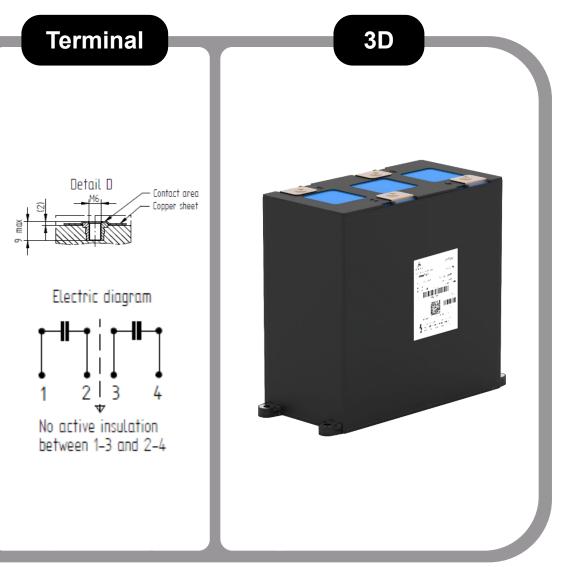




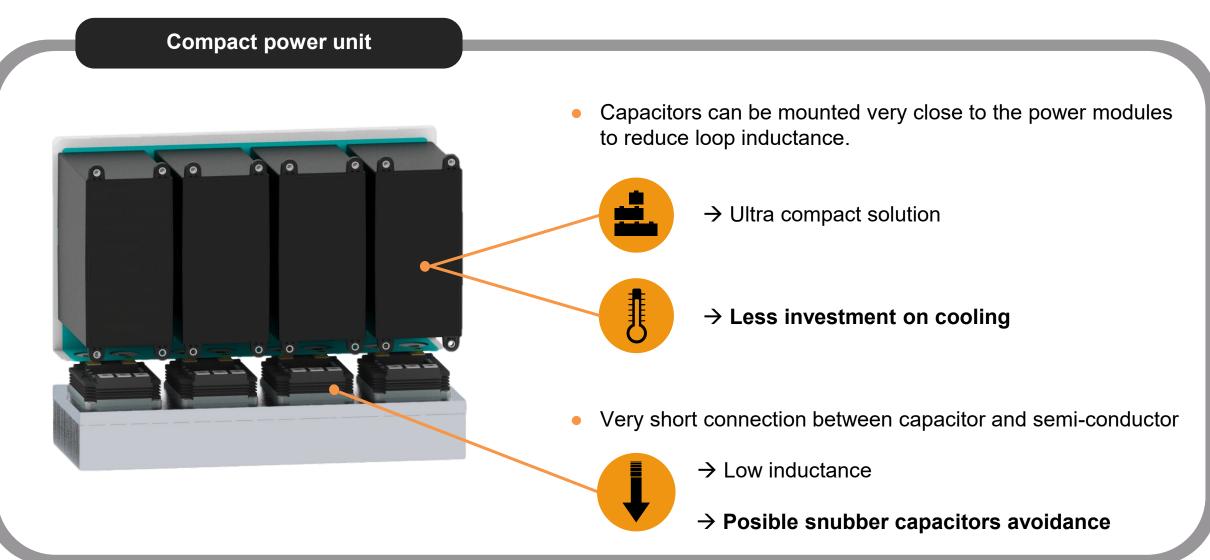
Construction B Simplified drawing & 3-D







Highlights: Compactness, low ESL & higher operation temperature

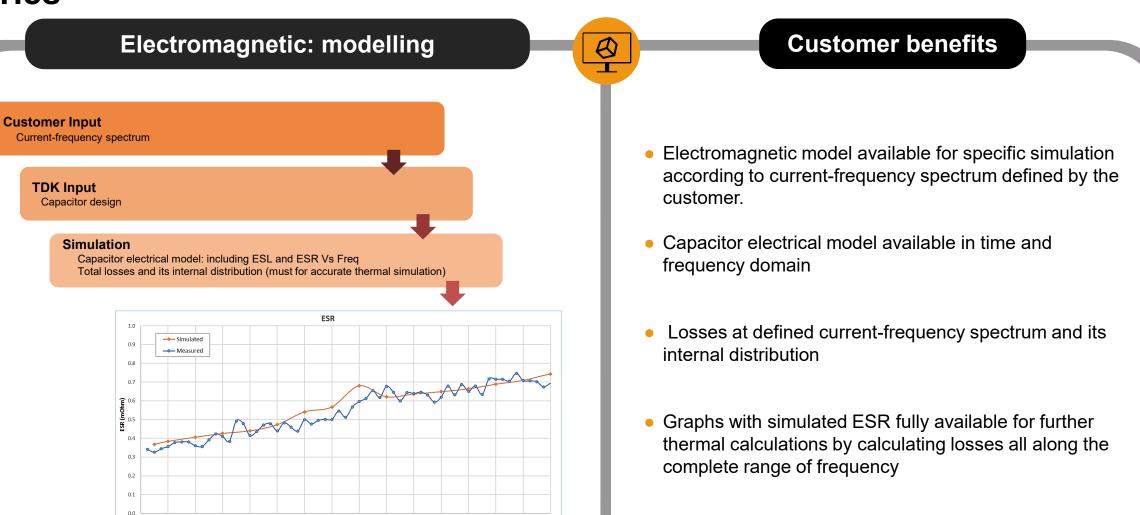


Electromagnetic behavior of Modular Standard Series

70

Frequency (kHz

90

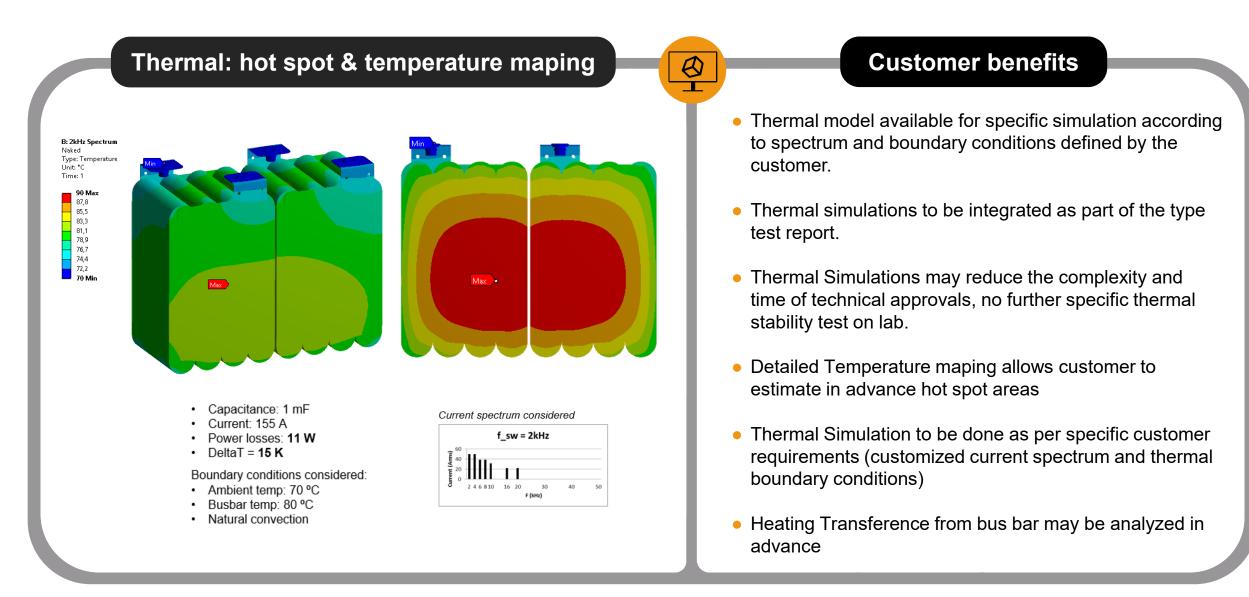


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Thermal behavior of Modular Standard Series





ModCap Ordering Code System

Nominal voltage (V)	Capacitance ±10% (µF)	Nominal current (A)	Surge current (kA)	Repetitive peak current (kA)	Dimensions (LxWxH, mm)	Construction	Part Number
900	2075	200	225	5	205x90x170	А	B25645A9218K003
	3900	155	250	5	220x115x215	В	B25645A9398K003
1000	1705	190	220	5	205x90x170	А	B25645A1178K003
	3210	150	245	5	220x115x215	В	B25645A1328K003
1100	1330	180	215	5	243x169.5x90	А	B25645A1138K003
	2525	140	240	5	258x215x115	В	B25645A1258K003
1250	1045	170	210	5	243x169.5x90	А	B25645A1118K003
	1985	135	235	5	258x215x115	В	B25645A1198K003
1350	980	160	205	5	243x169.5x90	А	B25645A1108K013
	1865	130	230	5	258x215x115	В	B25645A1188K003
1600	710	150	200	5	243x169.5x90	А	B25645A1757K003
	1375	120	225	5	258x215x115	В	B25645A1138K013
1800	525	140	195	5	243x169.5x90	А	B25645A1567K003
	1025	115	220	5	258x215x115	В	B25645A1108K003
2000	415	130	185	5	243x169.5x90	А	B25645A2447K003
	820	110	210	5	258x215x115	В	B25645A2827K003
2300	335	120	175	5	243x169.5x90	А	B25645A2367K003
	670	105	200	5	258x215x115	В	B25645A2677K003

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