



## Film Capacitors – Power Factor Correction

### Capacitor contactors

**Series/Type:** B44066S  
**Ordering code:** B44066S....C240  
**Date:** March 2012  
**Version:** 1

### Characteristics

- Excellent damping of inrush current
- Improved power quality (e.g. avoidance of voltage sags)
- Soft switching of capacitor and thus longer useful life
- Enhanced mean life expectancy
- Reduced ohmic losses
- Easy access for cable connection



Features	
Resistors	Protected with PTFE covering
Leading contacts	With wiper function
Aux-contacts	For all types
Usage	In applications with or without reactors

Type/ Main contacts		...1011...	...1211...	...1611...	...2011...	...2511...	...3312...	...4012...	...6012...
Capacitor power at 55 °C ■ 220 ... 240 V ■ 380 ... 440 V ■ 660 ... 690 V	kvar	0 ... 5.5 0 ... 10 0 ... 12.5	0 ... 6.7 0 ... 12.5 0 ... 18	0 ... 8.5 0 ... 16.7 0 ... 24	0 ... 10 0 ... 20 0 ... 30	0 ... 15 0 ... 25 0 ... 36	0 ... 20 0 ... 33.3 0 ... 48	0 ... 25 0 ... 40 0 ... 58	0 ... 40 0 ... 60 0 ... 92
Max. current at 50/60 Hz ■ 50 °C	A	14	18	24	29	36	48	58	92
Coil voltage at 50/60 Hz:	V AC	187...264	187...264	187...264	187...264	187...264	187...264	187...264	187...264
Inrush /Sealed VA of contactor at max. rated capacitor current	VA	70/8	70/8	70/8	100/8.5	100/8.5	245/26	245/26	245/26
Rated insulation voltage	V AC	690 <sup>1</sup>	690 <sup>1</sup>	690 <sup>1</sup>	690 <sup>1</sup>	690 <sup>1</sup>	690 <sup>1</sup>	690 <sup>1</sup>	690 <sup>1</sup>
Max. frequency of operations:	1/h	240	240	240	240	240	240	240	100
Contact life:	Million operations	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Cable cross section ■ Flexible with cable end sleeve – 1 conductor ■ Flexible with cable end sleeve – 2 conductors	mm <sup>2</sup>	2.5 1.5	2.5 1.5	4 2.5	4 4	6 4	16 6	16 6	50 25
■ Solid without cable end sleeve – 1 conductor ■ Solid without cable end sleeve – 2 conductors	mm <sup>2</sup> (max.)	4 4	4 4	6 6	10 6	16 10	25 16	25 16	50 35
Weight:	kg	0.43	0.43	0.45	0.60	0.63	1.3	1.3	1.65

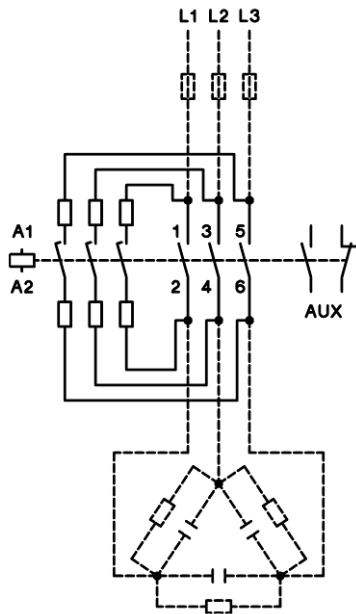
1) Applies to networks with grounded star point, over voltage category I to IV, pollution severity 3 (industrial standard).

V<sub>imp</sub> = 6 kV. Values f or other conditions are available upon request.

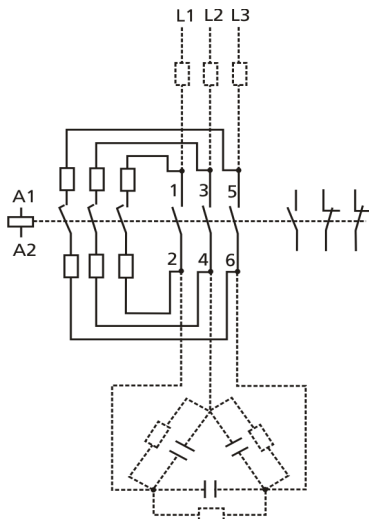
Type/ Auxiliary contacts		...1011...	...1211...	...1611...	...2011...	...2511...	...3312...	...4012..	...6012...
Normal Open (NO)		1	1	1	1	1	1	1	1
Normal Closed (NC)		1	1	1	1	1	2	2	2
Rated insulation voltage	V AC	690 <sup>2</sup>	690 <sup>2</sup>	690 <sup>2</sup>	690 <sup>2</sup>	690 <sup>2</sup>	690 <sup>2</sup>	690 <sup>2</sup>	690 <sup>2</sup>
Rated operational current, utilization category AC15:									
■ 220 ... 240 V	A	3	3	3	3	3	3	3	3
■ 380 ... 440 V	A	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Thermal rated current at ambient temperature:									
■ 40 °C	A	10	10	10	10	10	10	10	10
■ 60 °C	A	8	8	8	8	8	8	8	8
Short circuit protection: Max. fuse size, slow, gL (gG)	A	10	10	10	10	10	10	10	10

- 2) Applies to networks with grounded star point, over voltage category I to IV, pollution severity 3 (industrial standard).  
 $V_{imp} = 6$  kV. Values for other conditions are available upon request.

**Connection diagram for all types B44066S...1C240**



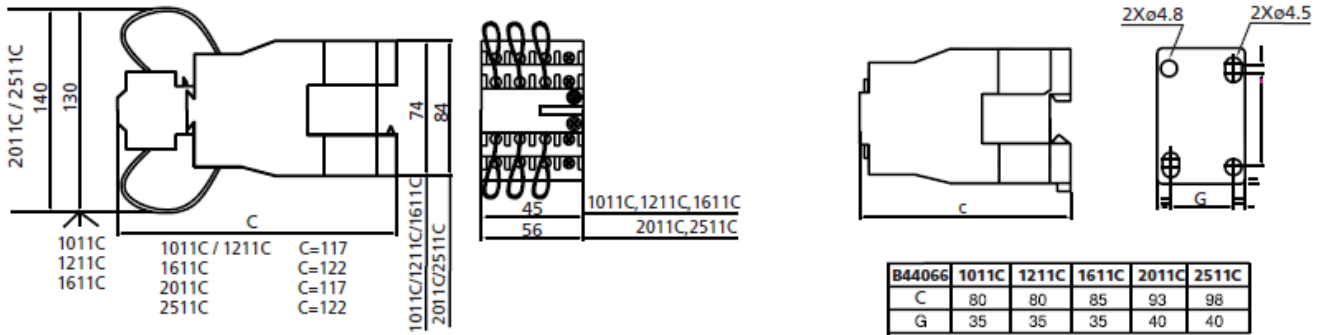
**Connection diagram for all types B44066S...2C240**



**Dimensional drawing**

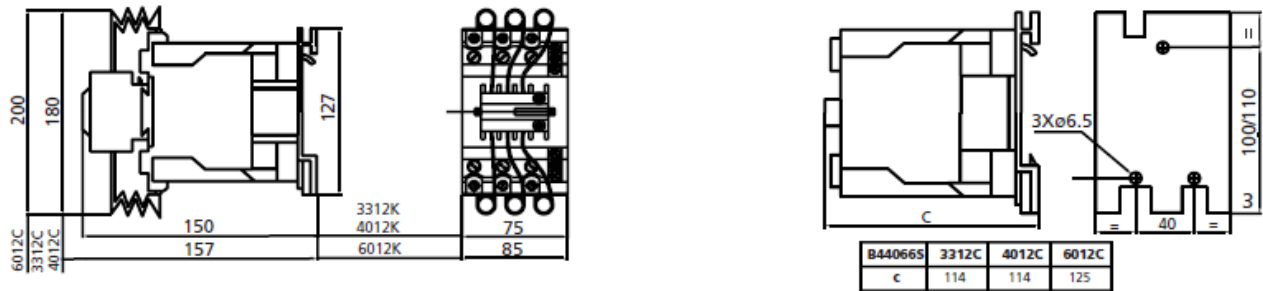
B44066S1011C, 1211C, 1611C, 2011C, 2511C

Mounting on panel



B44066S3312C, 4012C, 6012C

Mounting on panel



**Cautions and warnings**

In case auxiliary contacts are used for switching of discharge resistors (not in accordance with IEC 60831 standard), make sure that the current of the discharge resistors is not higher than the rated current of the auxiliary contacts.

**Mounting instructions**

No inflammable material or material sensitive to heat must be close-by the capacitor switching contactors because temperatures may increase around the resistance spirals.

**Note**

For detailed information about PFC capacitors and cautions, refer to the latest version of EPCOS PFC Product Profile.

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