

Capacitor Contactors

Series/Type: B44066S

Ordering code: B44066S....C242

Date: 2020-10-20

Version: 1

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Capacitor Contactors

B44066S

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
- AC6b utilization category for switching 3-phase capacitor



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

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Technical data and ordering codes

Ordering code	Frequency	Capacitor power at 55 °C 220 240 V	Capacitor power at 55 °C 400 440 V	Capacitor power at 55 °C 660 690 V	Max. current AC6b at 50/60 Hz, 50 °C
	Hz	kvar	kvar	kvar	Α
B44066S0711C242	50/60	0 4	0 7.5	0 9	8
B44066S1011C242	50/60	0 5.5	0 10	0 12.5	14
B44066S1211C242	50/60	0 6.7	0 12.5	0 18	18
B44066S1611C242	50/60	0 8.5	0 16.7	0 24	24
B44066S2011C242	50/60	0 10	0 20	0 30	29
B44066S2511C242	50/60	0 15	0 25	0 36	36
B44066S3312C242	50/60	0 20	0 33.3	0 48	48
B44066S4012C242	50/60	0 25	0 40	0 58	58
B44066S5012C242	50/60	0 27	0 50	0 62	70
B44066S6012C242	50/60	0 40	0 60	0 92	92
B44066S7512C242	50/60	0 45	0 75	0 120	108
B44066S8012C241	50	0 48	0 80	0 100	116 *)
B44066S9912C241	50	0 60	0 100	0 143	144 *)

UL listing for 5012, 7512, 8012 & 9912 are not available.

CE marking for 8012 & 9912 are not available.

^{*)} Represents coil available at only 50 Hz. Universal coil 50/60 Hz is not available as of now.



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Type/ main contacts		0711	1011	1211	1611	2011	2511	3312	4012	6012
Capacitor power at 55 °C 220 240 V 400 440 V 660 690 V	kvar	0 4 0 7.5 0 9	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 AC6b at 50/60 Hz	А	8	14	18	24	29	36	48	58	92
Coil voltage at 50/60 Hz	VAC	204264	204264	204264	204264	204264	204264	204264	204264	204264
Inrush/sealed VA of contactor at max. rated capacitor current	VA	70/8	70/8	70/8	70/8	100/8.5	100/8.5	245/26	245/26	245/26
Rated insulation voltage	VAC	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾
Max. frequency of operations	1/h	240	240	240	240	240	240	240	100	100
Contact life	Million operations	0.2	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	mm²	2.5	2.5	2.5	4	4	6	16	16	50
■ Flexible with cable end sleeve – 2 conductors		1.5	1.5	1.5	2.5	4	4	6	6	25
■ Solid without cable end sleeve – 1 conductor	mm²	4	4	4	6	10	16	25	25	50
Solid without cable end sleeve – 2 conductors	(max.)	4	4	4	6	6	10	16	16	35
Weight TypeC	kg	0.43	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).

 $[\]ensuremath{V_{\text{imp}}} = 8 \text{ kV}.$ Values for other conditions are available upon request.



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Type/ auxiliary		0711	1011	1211	1611	2011	2511	3312	4012	6012
contacts										
Normal Open (NO) Normal Closed		1	1	1	1	1	1	1	1	1
(NC)		1	1	1	1	1	1	2	2	2
Rated insulation voltage	VAC	690 ²⁾								
Rated operational current, utilization category AC15 220 240 V 380 400 V 440 V	A A A	2.09 1.25 1.14								
Thermal rated current at ambient temperature 40 °C 60 °C	A A	10 8								
Short circuit protection: Max. fuse size, slow, gL (gG)	А	10	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} = 8 kV. Values for other conditions are available upon request.

^{*)} Represents coil available at only 50 Hz. Universal coil 50/60 Hz is not available as of now.



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Type/ main contacts		5012	7512	8012	9912
Capacitor power at 55 °C 220 240 V 400 440 V 660 690 V	kvar	0 27 0 50 0 62	0 45 0 75 0 120	0 48 0 80 0 100	060 0 100 0 143
Max. current AC6b at 50/60 Hz ■ 50 °C	А	70	108	116	144
Coil voltage at 50/60 Hz	VAC	204264	204264	204264*)	204264*)
Inrush/sealed VA of contactor at max. rated capacitor current	VA	245/26	245/26	350/28	350/28
Rated insulation voltage	VAC	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾
Max. frequency of operations	1/h	100	100	100	100
Contact life	Million operations	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	mm²	16 6	50 25	50 25	50 25
 Solid without cable end sleeve 1 conductor Solid without cable end sleeve 2 conductors 	mm² (max.)	25 16	50 35	50 35	50 35
Weight: TypeC	kg	1.65	1.65	2.58	2.58

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

UL listing for 5012, 7512, 8012 & 9912 are not available.

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Type/ auxiliary contacts		5012	7512	8012	9912
Normal Open (NO		1	1	1	1
Normal Closed (NC)		2	2	2	2
Rated insulation voltage	VAC	690 ²⁾	690 ²⁾	690 ²⁾	690 ²⁾
Rated operational current, utilization category AC15 220 240 V 380 400 V 440 V	A A A	2.09 1.25 1.14	2.09 1.25 1.14	2.09 1.25 1.14	2.09 1.25 1.14
Thermal rated current at ambient temperature 40 °C 60 °C	A A	10 8	10 8	10 8	10 8
Short circuit protection: Max. fuse size, slow, gL (gG)	A	10	10	10	10

²⁾ Applies to networks with grounded star point, over voltage category I to IV, pollution severity 3 (industrial standard).

 $V_{imp} = 8$ kV. Values for other conditions are available on request.

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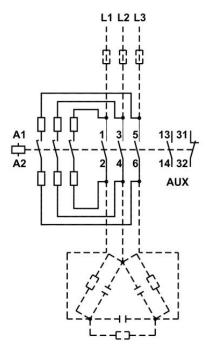
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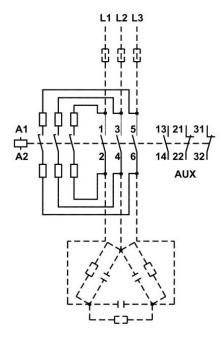
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Connection diagram for all types B44066S...1C242

0711..., 1011..., 1211..., 1611..., 2011..., 2511...



Connection diagram for all types B44066S...2C241 / C242 ...3312..., 4012..., 5012...,6012...,7512..., 8012..., 9912...



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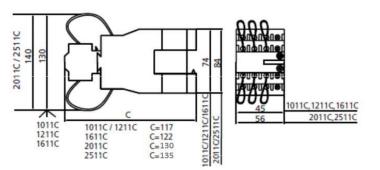


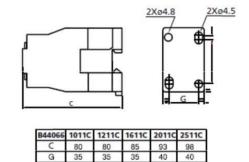
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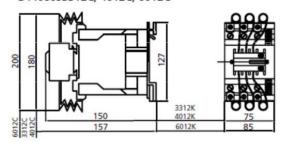
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Dimensional drawing

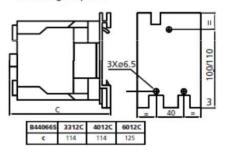




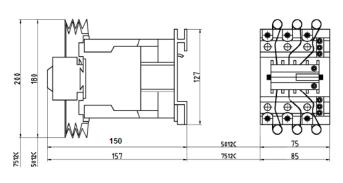
B44066S3312C, 4012C, 6012C

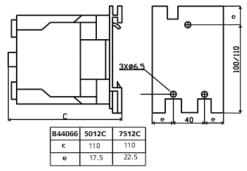




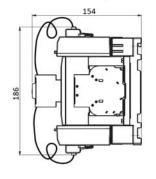


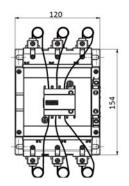
B44066S5012C, 7512C

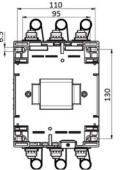


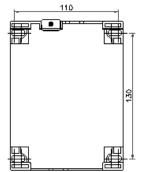


B44066S8012C, 9912C









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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.

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