查询B44066S3210J230供应商



Film Capacitors – Power Factor Correction

Key components – Capacitor contactors

Series/Type: Ordering code:

Date: Version: B44066S B44066S....J230/J110/N230/N110 August 2010 10

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Key components – Capacitor contactors

- Excellent damping of inrush current
- Improved power quality (e.g. avoidance of voltage sags)
- Longer useful life of main contacts of capacitor contactor
- 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 capacitors for B44066S****J***
- Approvals
 - cUL approval
 - CCC (China Compulsory Certification) up to 75 kvar

Series B44066S....J230/J110 for conventional PFC-systems without reactors

Features	
Resistors	Tamper-proof and protected
Leading contacts	With wiper function
Pre-contacts	Snap function
Aux-contacts	For all types
Usage	In applications with or without reactors

Series B44066S....N230/N110 for de-tuned PFC-systems with reactors

Features	
Aux-contacts	For all types
Usage	In applications with reactors only



B44066S....N230/N110

B44066S9010J230

B44066S9910J230

B44066S....J230/J110

B44066S

B44066S....J230/J110/N230/N110







B44066S....J230/J110/N230/N110

Key components – Capacitor contactors

B44066S

Type / Main contacts		B44066S1810	B44066S2410	B44066S3210	B44066S5010
Capacitor power at 50 °C 380 400 V 415 440 V 660 690 V	kvar	0 12.5 0 13 0 20	10 20 10.5 22 17 33	10 25 10.5 27 17 41	20 33.3 23 36 36 55
Capacitor power at 60 °C 380 400 V 415 440 V 660 690 V	kvar	0 12.5 0 13 0 20	10 20 10.5 22 17 33	10 25 10.5 27 17 41	20 33.3 23 36 36 55
Coil operating voltage at 50 Hz ¹): Type 230 Type110	V AC	220 240 110	220 240 110	220 240 110	220 240 On request
Coil operating voltage at 60 Hz ¹⁾ : Type 230 Type 110	V AC	230 264 110 120	230 264 110 120	230 264 110 120	230 264 On request
Rated op. current AC6b at 50/60 Hz ■ 50 °C ■ 60 °C	A	0 18 0 18	14 28 14 28	14 36 1436	30 48 30 48
Power loss contactor at max. rated capacitor current	W	4.1	5.7	7.5	12.6
Rated insulation voltage	V AC	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾
Max. frequency of operations:	1/h	120	120	120	120
Contact life: without reactors with reactors	Million opera- tions	0.25 0.40	0.15 0.30	0.15 0.30	0.15 0.30
Cable cross section for contactors without thermal overload relay 1 cable per clamp Main connector Solid or stranded Flexible Flexible with multicore cable end 2 cables per clamp Solid or stranded	mm ² mm ² mm ² mm ²	0.75 - 6 1 - 4 0.75 - 4 6+(1-6) / 4+(0.75-4) 2.5+(0.75-2.5) / 1.5+(0.75-1.5)	1.5 - 25 2.5 - 16 1.5 - 16 16+(2.5-6) / 10+(4-10) 6+(4-6) / 4+(2.5-4)	1.5 - 25 2.5 - 16 1.5 - 16 16+(2.5-6) / 10+(4-10) 6+(4-6) / 4+(2.5-4)	4 – 50 10 – 35 6 – 35 50+4 / 35+6 / 25+(6-16) 16+(6-16) / 10+(6-16)
Flexible	mm²	6+(1.5-6) / 4+(1-4) 2.5+(0.75-2.5) / 1.5+(0.75-1.5)	16+(2.5-6) / 10+(4-10) 6+(4-6) / 4+(2.5-4)	16+(2.5-6) / 10+(4-10) 6+(4-6) / 4+(2.5-4)	50+(4-10) / 35+(4-16) 25+(4-25) / 16+(4-16)
Cables per clamp 1) Suitable at 690 V for: earthed-neut		2	2	2	2

1) Suitable at 690 V for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry): V_{imp} = 8 kV. Data for other conditions on request.

2) Operating range of magnet-coils 0.85 V_s (min. value of rated control voltage) up to 1.1 • V_s (max. value of rated control voltage).



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Key components – Capacitor contactors

B44066S

Type/Main contacts		B44066S1810	B44066S2410	B44066S3210	B44066S5010
For main connector Solid AWG Flexible AWG Cables per clamp Solid AWG	mm²	18 - 10 18 - 10 2 10+(16-10) / 12+(18-12) 14+(18-14) / 16+(18-16)	16 - 10 14 - 4 1 10+(16-10) / 12+(18-12) 14+(18-14) / 16+(18-16)	16 - 10 14 - 4 1 10+(16-10) / 12+(18-12) 14+(18-14) / 16+(18-16)	12 - 10 10 - 0 1 10+(12-10) / 12+12
Flexible AWG	mm ²	10+(14-10) / 12+(18-12) 14+(18-14) / 16+(18-16)	4+(18-12) / 6+(18-8) 8+(18-8) / 10+(18-12)	4+(18-12) / 6+(18-8) 8+(18-8) / 10+(18-12)	1+(12-10) / 2+(8-12) 3+(12-8) / 4+(10-6)
Cables per clamp		2	2	2	2
Weight including auxiliary contact: TypeN TypeJ	kg	0.26 0.37	0.51 0.67	0.51 0.67	0.88 1.03
Fuses gL (gG) from / to	А	35 / 63	50 / 80	63 / 100	80 / 160
Auxiliary contacts					
Normal Open (NO)		1	1	1	1
Rated insulation voltage	V AC	690 ²⁾	690 ²⁾	690 ²⁾	690 ²⁾
Rated operational current AC15 at 230 V / 400 V	A	3/2	3/2	3/2	3/2
Rated operational current AC1 at 690 V	A	10	10	10	10

 Suitable at 690 V for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry): V_{imp} = 8 kV. Data for other conditions on request.

2) Operating range of magnet-coils 0.85 V_s (min. value of rated control voltage) up to 1.1 • V_s (max. value of rated control voltage).



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B44066S....J230/J110/N230/N110

Key components – Capacitor contactors

B44066S

Type/Main contacts		B44066S6210	B44066S7410	B44066S9010	B44066S9910
Capacitor power at 50 °C ■ 380 400 V ■ 415 440 V ■ 660 690 V	kvar	20 50 23 53 36 82	20 75 23 75 36 120	3380 3682 57120	33 100 36 103 57 148
Capacitor power at 60 °C 380 400 V 415 440 V 660 690 V	kvar	20 50 23 53 36 82	20 60 23 64 36 100	3375 3677 57120	33 90 36 93 57 148
Coil operating voltage at 50 Hz ¹): Type 230 Type110	V AC	220 240 110	220 240 110	220 … 240 On request	220 240 On request
Coil operating voltage at 60 Hz ¹): Type 230 Type 110	V AC	230 264 110 120	230 264 110 120	277 On request	277 On request
Rated op. current AC6b at 50/60 Hz ■ 50 °C ■ 60 °C	A	30 72 30 72	30 108 30 87	50 115 50 108	50 144 50 130
Power loss contactor at max. rated capacitor current	W	21	38.7	29	36
Rated insulation voltage	V AC	690 ¹⁾	690 ¹⁾	1000 ¹⁾	1000 ¹⁾
Max. frequency of operations:	1/h	120	80	80	80
Contact life: without reactors with reactors	Million opera- tions	0.15 0.30	0.12 0.20	0.12 0.20	0.12 0.20
Cable cross section for contactors without thermal overload relay; 1 cable per clamp Main connector Solid or stranded Flexible Flexible	mm ² mm ² mm ²	4 – 50 10 – 35 6 – 35	4 - 50 10 - 35 6 - 35		
2 cables per clampSolid or stranded	mm²	50+4 / 35+6 / 25+(6-16) 16+(6-16) / 10+(6-16)	50+4 / 35+6 / 25+(6-16) 16+(6-16) / 10+(6-16)	Top Below 0.5–95+10 120	Top Below 0.5-95+10 120
Flexible	mm²	50+(4-10) / 35+(4-16) 25+(4-25) / 16+(4-16)	50+(4-10) / 35+(4-16) 25+(4-25) / 16+(4-16)	0.5-70+10-95	0.5-70+10-95
Cables per clamp For main connector Solid AWG Flexible AWG	mm ² mm ²	2 12 – 10 10 – 0	2 12 - 10 10 - 0	1+1	1+1
Cables per clamp Solid AWG	mm ²	1 10+(12-10) /	1 10+(12-10) /	Top Below 18–10 –	Top Below 18-10 -
Flexible AWG	mm²	12+12 1+(12-10) / 2+(8-12) 3+(12-8) / 4+(10-6)	12+12 1+(12-10) / 2+(8-12) 3+(12-8) / 4+(10-6)	18—3⁄0 8—4⁄0	18–30 8–40
Cables per clamp 1) Suitable at 690 V for: earthed-neutr	al systems	2	2 v I to IV pollution dea	1+1 ree 3 (standard-indust	1+1 (rv): View = 8 kV. Data

Suitable at 690 V for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry): V_{imp} = 8 kV. Data 1) for other conditions on request.

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2) Operating range of magnet-coils 0.85 Vs (min. value of rated control voltage) up to 1.1 • Vs (max. value of rated control voltage).

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Key components – Capacitor contactors

B44066S

Type/Main contacts		B44066S6210	B44066S7410	B44066S9010	B44066S9910	
Weight including auxiliary contact: TypeN TypeJ	kg	0.88 1.03	0.88 1.03	2.2 2.3	2.23 2.33	
Fuses gL (gG) from / to	А	125/160	160/200	160/200	160/250	
Auxiliary contacts						
Normal Open (NO)		1	1	1	1	
Rated insulation voltage	V AC	690 ²⁾	690 ²⁾	690 ²⁾	690 ²⁾	
Rated operational current AC15 at 230 V / 400 V	A	3/2	3/2	3/2	3/2	
Rated operational current AC1 at 690 V	A	10	10	10	10	

1) Suitable at 690 V for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry): V_{imp} = 8 kV. Data for other conditions on request.

2) Operating range of magnet-coils 0.85 V_s (min. value of rated control voltage) up to 1.1 • V_s (max. value of rated control voltage).

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Key components – Capacitor contactors

Connection diagram for all types B44066S...J...

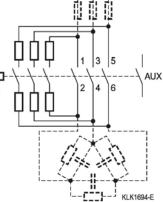
(with preload resistors). (B44066S1810J230 and B44066S1810J110 with wires on the bottom only; B44066S9010J230 and B44066S9910J230 with resistors inside housing)

Connection diagram for all types B44066S...N...

L1

(without preload resistors)

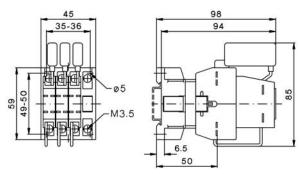
EPCOS



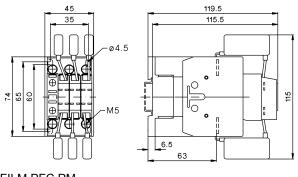
L2 L3

Dimensional drawings

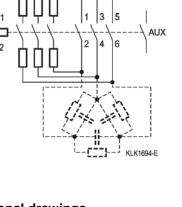
B44066S1810J230, B44066S1810J110



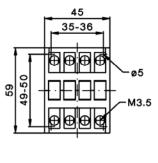
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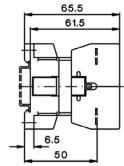


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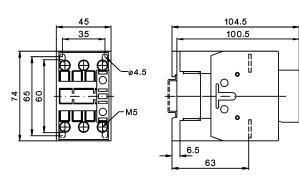


B44066S1810N230





B44066S2410N230, B44066S3210N230



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B44066S



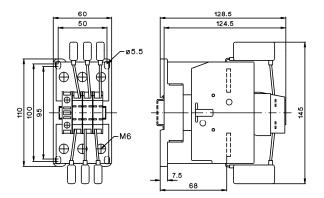
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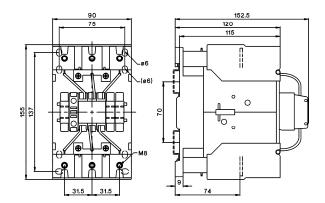
Key components – Capacitor contactors

B44066S

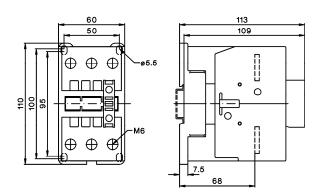
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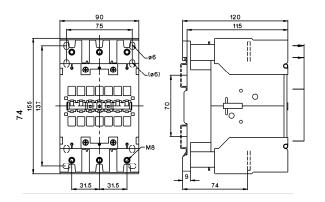
B44066S9010J230, B44066S9910J230



B44066S5010N230, B44066S6210N230 B44066S7410N230



B44066S9010N230, B44066S9910N230





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Key components – Capacitor contactors

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

In the area of capacitor switching contactors, difficultly inflammable and self-extinguishing materials may be used only, because abnormal temperatures within the area of the resistance spirals cannot be excluded.

<u>Note</u>

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

Please refer to "Installation and Maintenance Instructions for Capacitor Contactors", available in the Internet. Important: Please note that the "General Safety Recommendations for Power Capacitors" by ZVEI (German Electrical and Electronic Manufacturers' Association (ZVEI) have to be observed in addition to the caution guidelines stated in the data sheet (Internet: www.epcos.com/pfc).

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August 2010





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