

B mini contactors

K mini contactor relays

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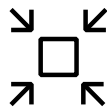
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B mini contactors

Flexibility in small spaces



Mini contactors are ideally suited for applications where reliability is a must and space is at a premium. The dimensions, technical features and the variety of the assortment provide customers a high flexibility in a wide-range of applications.



Space-saving

Designed to be mini

This type of contactor is a specialist for applications in small spaces. It comes with three different terminal types. Side or front auxiliary contact blocks can be mounted to match the requirements of width or depth limitations.



Optimum interface

Great flexibility

B mini offer many possibilities to adapt to any project. It offers screw terminals, soldering pins or flat pin connectors and different coil versions. This makes this contactor a perfect fit and simplifies the installation greatly.



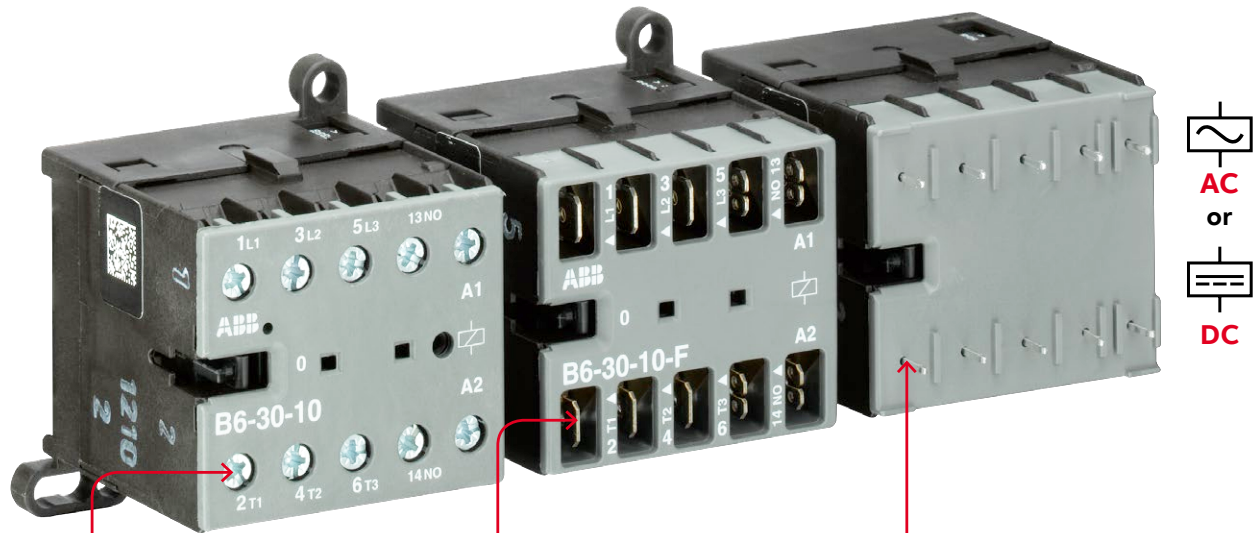
Speed up your projects

Simpler by design

You can easily combine a manual motor starter or overload relay with a mini contactor in order to create the solution of your choice. Reversing starters come pre-assembled from the factory, which saves time. With the right accessories, this range is simple to use.

B mini contactor

Smart - flexibility and diversity in a small size



Screw

Screw terminals

This conventional terminal type enables a quick connection to an installation using just a one size screwdriver. All terminal screws, from power to control, are aligned and accessible from the front for easy tightening.



Flat pins

Flat pin terminals

Thanks to really quick plug-in assembling, good reliability of the connection and low costs, the flat pin terminals are already the favorite choice in many industry sectors. The best option when high connection speed is required.



Soldering pins

Soldering pin terminals

This connection type allows an easy installation on PCB boards, where all components have to be soldered in place. The soldering pins sustain currents up to AC-1/AC-3 12 A.



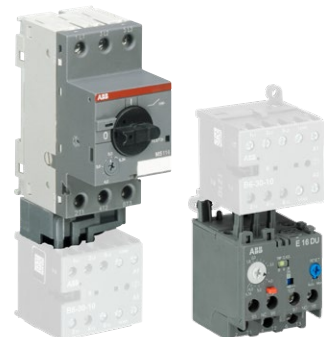
Mountable in just about any place

According to the available space, auxiliary contacts can be mounted on the front or at the side of the B mini. Also, additional surge protection can be fitted on any side of the contactor.



Save assembly time

This range offers reversing starters delivered as one piece from the factory. It avoids mounting mistakes and secures operation. It is also available with mechanical interlock for special demands.



Perfect fit

Mini contactors match manual motor starters or overload relays. This creates a space-saving and easy to install motor starting solution for a complete protection and control of your devices.

B mini contactor

Compact - a tiny specialist for specific needs

Choose your specialist.

No matter what kind of application - The B range includes contactors with low power consumption coils and integrated surge suppression for direct control by PLC. Dedicated relay versions for control functions or for small loads are also available.

Motors control

With a maximum rated operational power AC-3 of 5.5 kW at 400 V the B Mini Contactors are the best solution for controlling the small motors inside your products. If the both direction control is needed, the reversing contactors are always ready to help.



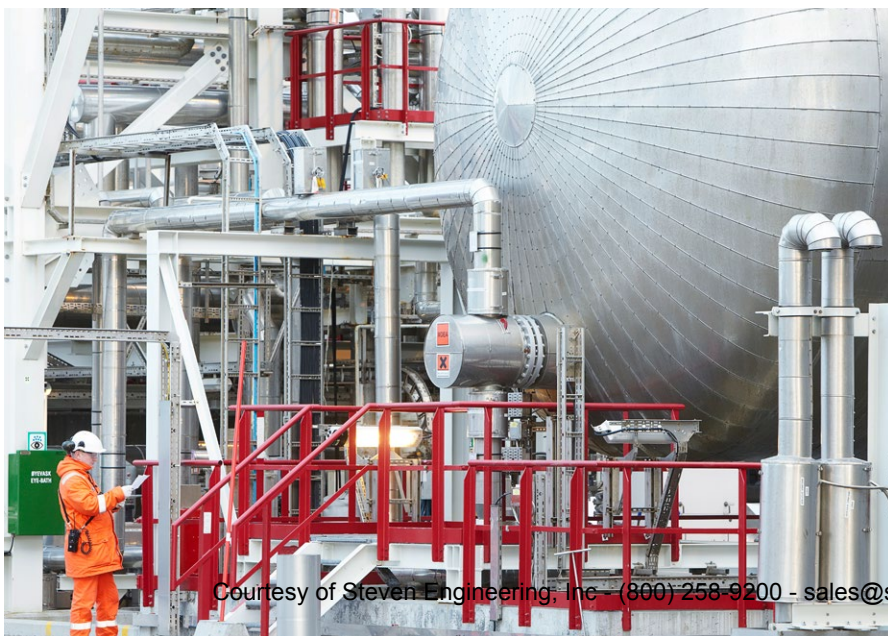
Resistive loads

Not only motors! The ABB Mini Contactors can be used for the activation of your AC-1 / DC-1 loads up to 20 A as well. Heaters, coffee machines and ovens are just examples of products in which it is possible to utilize this reliable and silent device as a component.



Extreme conditions

Manufactured with resistant and high performances materials, the B Mini Contactors can be precious allies even for applications in extreme conditions. Specific versions with wide operating temperature ranges and coil voltage ranges are part of our offer.



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Mini contactors



				Screw terminals			
AC Control supply							
							
3-pole contactors		Coil consumption 3.5 W	Type	B6	B7	-	-
3-pole reversing contactors		Coil consumption 3.5 W	Type	-	-	VB6 VB6A (2)	VB7 VB7A (2)
4-pole contactors		Coil consumption 3.5 W	Type	B6	B7	(3)	(3)
DC Control supply							
							
3-pole contactors		Coil consumption 3.5 W	Type	BC6	BC7 B7D (1)	-	-
3-pole reversing contactors		Coil consumption 3.5 W	Type	-	-	VBC6 VBC6A (2)	VBC7 VBC7A (2)
3-pole interface contactors		Coil consumption 1.4 ... 2.8 W	Type	BC6 B6S (1)	BC7 B7S (1)	(3)	(3)
4-pole contactors		Coil consumption 3.5 W	Type	BC6	B7D	(3)	(3)
IEC	Rated operational power AC-3	220-230-240 V	kW	2.2	3	2.2	3
		380-400 V	kW	4	5.5	4	5.5
UL/CSA	Rated operational current AC-1	400 V, $\theta \leq 40\text{ }^{\circ}\text{C}$	A	20	20	20	20
		220-240 V AC	hp	2	3	2	3
UL/CSA	3-phase motor rating	440-480 V AC	hp	3	5	3	5
		General use rating	A	12 (300 V)	16 (600 V)	12 (300 V)	16 (600 V)
Main accessories							
Auxiliary contact blocks		Front mounting		CAF6			
		Side mounting		CA6	-		
Connection sets		For reversing contactors		BSM6-30			
Surge suppressors		Varistor (AC/DC)		RV-BC6			
Overload relays							
Thermal overload relays			Class 10	T16			
Thermal and phase failure protection, with single setup possible							
Electronic overload relays			Class 10E, 20E, 30E	E16DU			
With single setup possible							
Manual motor starters							
Thermal / magnetic protection			Class 10	MS116, MS132			
Magnetic only types				MO132			
Connecting link to manual motor starters				BEA7/132			

Mini contactor relays



				Screw terminals	
AC Control supply					
4-pole contactor relays		Coil consumption 3.5 W	Type	K6	
DC Control supply					
4-pole contactor relays		Coil consumption 3.5 W	Type	KC6	
4-pole interface contactor relays		Coil consumption 1.4 ... 2.8 W	Type	KC6, K6S (1)	
IEC	Rated operational current AC-15	220-230-240 V	A	4	
		380-400 V	A	3	
	Rated operational current DC-13	24 V	A	2.5	
Main accessories					
Auxiliary contact blocks		Front mounting	CAF6		
		Side mounting	CA6-11K		

(1) With integrated surge suppressor

(2) With safety blocking function

(3) Please visit: <https://new.abb.com/low-voltage/products/motor-protection/3-pole-contactors-and-overload-relays-for-motor-starting/mini-contactors>

**Soldering pins****Flat pins**

B6...P	B7...P	-	-	B6...F	B7...F	-	-
-	-	VB6...P	VB7...P	-	-	VB6...F	VB7...F
(3)	(3)	VB6A...P (2)	VB7A...P (2)	(3)	(3)	VB6A...F (2)	VB7A...F (2)
(3)	(3)	(3)	(3)	(3)	(3)		
BC6...P	BC7...P B7D...P (1)	-	-	BC6...F	BC7...F B7D...F (1)	-	-
-	-	VBC6...P	VBC7...P	-	-	VBC6...F	VBC7...F
BC6...P	BC7...P	VBC6A...P (2)	VBC7A...P (2)	BC6...F	BC7...F	VBC6A...F (2)	VBC7A...F (2)
(3)	(3)	(3)	(3)	(3)	(3)	-	-
2.2	3	2.2	3	2.2	3	2.2	3
4	5.5	4	5.5	4	5.5	4	5.5
12	12	12	12	20	20	20	20
2	3	2	3	2	3	2	3
3	5	3	5	3	5	3	5
12 (300 V)	16 (600 V)	12 (300 V)	16 (600 V)	12 (300 V)	16 (600 V)	12 (300 V)	16 (600 V)
-	-	-	-	-	-	-	-
CA6-11K-P	-	-	-	CA6-11K-F	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
MS116, MS132	-	-	-	MS116, MS132	-	-	-
MO132	-	-	-	MO132	-	-	-
-	-	-	-	-	-	-	-

**Soldering pins****Flat pins**

K6...P	K6...F
KC6...P	KC6...F
KC6...P	KC6...F
4	4
3	3
2.5	2.5
-	-
CA6-11K-P	CA6-11K-F

B6, B7 3-pole mini contactors – with screw terminals

4 to 5.5 kW

AC operated



B6-30-10



B7-30-10

B6, B7 3-pole mini contactors are compact control products mainly used for switching resistive or motor loads up to 690 V AC.

These contactors are designed with:

- 3 main poles and one built-in auxiliary contact
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for front or side mounting and a wide range of accessories
- designed for rail or wall mounting

IEC	UL/CSA	Rated operational power	3-phase motor rating	General use rating	Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
400 V AC-3	480 V	$\theta \leq 40^\circ\text{C}$	hp		50 Hz	60 Hz				kg
kW	A				V AC	V AC				

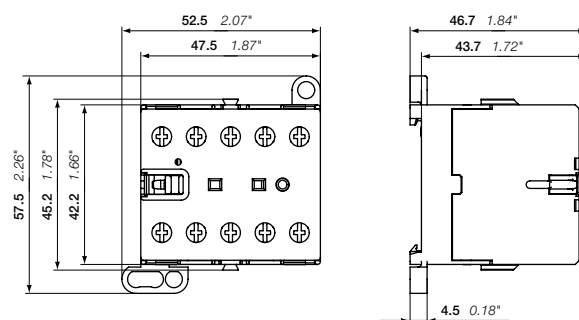
B6 mini contactors

4	20	3	300 V / 12 A	24	24	1 0	B6-30-10-01	GJL1211001R0101	10	0.175
						0 1	B6-30-01-01	GJL1211001R0011	10	0.175
				42	42	1 0	B6-30-10-02	GJL1211001R0102	10	0.175
						0 1	B6-30-01-02	GJL1211001R0012	10	0.175
				48	48	1 0	B6-30-10-03	GJL1211001R0103	10	0.175
						0 1	B6-30-01-03	GJL1211001R0013	10	0.175
				110 ... 127	110 ... 127	1 0	B6-30-10-84	GJL1211001R8104	10	0.175
						0 1	B6-30-01-84	GJL1211001R8014	10	0.175
				220 ... 240	220 ... 240	1 0	B6-30-10-80	GJL1211001R8100	10	0.175
						0 1	B6-30-01-80	GJL1211001R8010	10	0.175
				380 ... 415	380 ... 415	1 0	B6-30-10-85	GJL1211001R8105	10	0.175
						0 1	B6-30-01-85	GJL1211001R8015	10	0.175

B7 mini contactors

5.5	20	5	600 V / 16 A	24	24	1 0	B7-30-10-01	GJL1311001R0101	10	0.175
						0 1	B7-30-01-01	GJL1311001R0011	10	0.175
				42	42	1 0	B7-30-10-02	GJL1311001R0102	10	0.175
						0 1	B7-30-01-02	GJL1311001R0012	10	0.175
				48	48	1 0	B7-30-10-03	GJL1311001R0103	10	0.175
						0 1	B7-30-01-03	GJL1311001R0013	10	0.175
				110 ... 127	110 ... 127	1 0	B7-30-10-84	GJL1311001R8104	10	0.175
						0 1	B7-30-01-84	GJL1311001R8014	10	0.175
				220 ... 240	220 ... 240	1 0	B7-30-10-80	GJL1311001R8100	10	0.175
						0 1	B7-30-01-80	GJL1311001R8010	10	0.175
				380 ... 415	380 ... 415	1 0	B7-30-10-85	GJL1311001R8105	10	0.175
						0 1	B7-30-01-85	GJL1311001R8015	10	0.175

Other types on request



B6, B7

Main dimensions mm, inches

BC6, BC7, B7D 3-pole mini contactors – with screw terminals

4 to 5.5 kW

DC operated



BC6-30-10



BC7-30-10

BC6, BC7, B7D 3-pole mini contactors are compact control products mainly used for switching resistive or motor loads up to 690 V AC.

These contactors are designed with:

- 3 main poles and one built-in auxiliary contact
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for front or side mounting and a wide range of accessories
- designed for rail or wall mounting

IEC	UL/CSA	Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power 400 V AC-3 kW	3-phase motor rating 480 V AC-1 A hp	General use rating VDC					kg

BC6 mini contactors

4	20	3	300 V / 12 A	12	1 0	BC6-30-10-07	GJL1213001R0107	10	0.175
					0 1	BC6-30-01-07	GJL1213001R0017	10	0.175
				24	1 0	BC6-30-10-01	GJL1213001R0101	10	0.175
					0 1	BC6-30-01-01	GJL1213001R0011	10	0.175
				48	1 0	BC6-30-10-16	GJL1213001R1106	10	0.175
					0 1	BC6-30-01-16	GJL1213001R1016	10	0.175
				60	1 0	BC6-30-10-03	GJL1213001R0103	10	0.175
					0 1	BC6-30-01-03	GJL1213001R0013	10	0.175
				110 ... 125	1 0	BC6-30-10-04	GJL1213001R0104	10	0.175
					0 1	BC6-30-01-04	GJL1213001R0014	10	0.175
				220 ... 240	1 0	BC6-30-10-05	GJL1213001R0105	10	0.175
					0 1	BC6-30-01-05	GJL1213001R0015	10	0.175

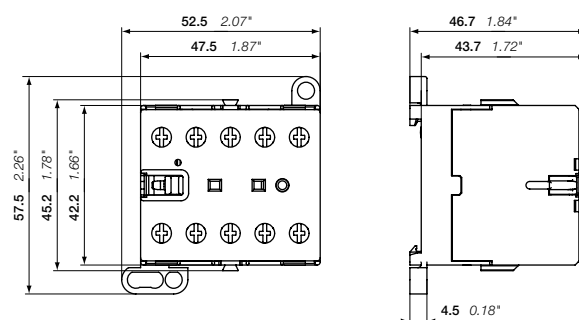
BC7 mini contactors

5.5	20	5	600 V / 16 A	12	1 0	BC7-30-10-07	GJL1313001R0107	10	0.175
					0 1	BC7-30-01-07	GJL1313001R0017	10	0.175
				24	1 0	BC7-30-10-01	GJL1313001R0101	10	0.175
					0 1	BC7-30-01-01	GJL1313001R0011	10	0.175
				48	1 0	BC7-30-10-16	GJL1313001R1106	10	0.175
					0 1	BC7-30-01-16	GJL1313001R1016	10	0.175
				60	1 0	BC7-30-10-03	GJL1313001R1103	10	0.175
					0 1	BC7-30-01-03	GJL1313001R0013	10	0.175
				110 ... 125	1 0	BC7-30-10-04	GJL1313001R0104	10	0.175
					0 1	BC7-30-01-04	GJL1313001R0014	10	0.175
				220 ... 240	1 0	BC7-30-10-05	GJL1313001R0105	10	0.175
					0 1	BC7-30-01-05	GJL1313001R0015	10	0.175

B7D mini contactors with integrated suppressor diode

5.5	20	5	600 V / 16 A	24	1 0	B7D-30-10-01	GJL1317001R0101	10	0.175
					0 1	B7D-30-01-01	GJL1317001R0011	10	0.175
				220	1 0	B7D-30-10-05	GJL1317001R0105	10	0.175
					0 1	B7D-30-01-05	GJL1317001R0015	10	0.175

Other types on request



BC6, BC7, B7D

Main dimensions mm, inches

VB6, VB7 3-pole mini reversing contactors – with screw terminals

4 to 5.5 kW

AC operated



VB7-30-10

2CDC21106F0011

VB6, VB7 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

- built-in mechanical interlock. The coils must be mutually interlocked electrically and coils must be de-energised for 50 ms at least to prevent phase to phase short circuit on the arc.
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for front mounting
- designed for rail or wall mounting

IEC	UL/CSA		Rated control circuit voltage UC		Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	3-phase current $\theta \leq 40^\circ\text{C}$	General motor rating	50 Hz	60 Hz					
400 V	AC-1	480 V							
kW	A	hp	V AC	V AC					kg

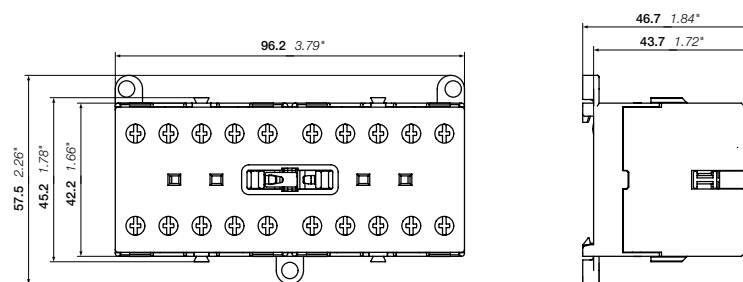
VB6 mini reversing contactors

4	20	3	300 V / 12 A	24	24	1 0	VB6-30-10-01	GJL1211901R0101	5	0.355
						0 1	VB6-30-01-01	GJL1211901R0011	5	0.355
				42	42	1 0	VB6-30-10-02	GJL1211901R0102	5	0.355
						0 1	VB6-30-01-02	GJL1211901R0012	5	0.355
				48	48	1 0	VB6-30-10-03	GJL1211901R0103	5	0.355
						0 1	VB6-30-01-03	GJL1211901R0013	5	0.355
				110 ... 127	110 ... 127	1 0	VB6-30-10-84	GJL1211901R8104	5	0.355
						0 1	VB6-30-01-84	GJL1211901R8014	5	0.355
				220 ... 240	220 ... 240	1 0	VB6-30-10-80	GJL1211901R8100	5	0.355
						0 1	VB6-30-01-80	GJL1211901R8010	5	0.355
				380 ... 415	380 ... 415	1 0	VB6-30-10-85	GJL1211901R8105	5	0.355
						0 1	VB6-30-01-85	GJL1211901R8015	5	0.355

VB7 mini reversing contactors

5.5	20	5	600 V / 16 A	24	24	1 0	VB7-30-10-01	GJL1311901R0101	5	0.355
						0 1	VB7-30-01-01	GJL1311901R0011	5	0.355
				42	42	1 0	VB7-30-10-02	GJL1311901R0102	5	0.355
						0 1	VB7-30-01-02	GJL1311901R0012	5	0.355
				48	48	1 0	VB7-30-10-03	GJL1311901R0103	5	0.355
						0 1	VB7-30-01-03	GJL1311901R0013	5	0.355
				110 ... 127	110 ... 127	1 0	VB7-30-10-84	GJL1311901R8104	5	0.355
						0 1	VB7-30-01-84	GJL1311901R8014	5	0.355
				220 ... 240	220 ... 240	1 0	VB7-30-10-80	GJL1311901R8100	5	0.355
						0 1	VB7-30-01-80	GJL1311901R8010	5	0.355
				380 ... 415	380 ... 415	1 0	VB7-30-10-85	GJL1311901R8105	5	0.355
						0 1	VB7-30-01-85	GJL1311901R8015	5	0.355

Other types on request



VB6, VB7

Main dimensions mm, inches

2CDC102016C0201

VBC6, VBC7 3-pole mini reversing contactors – with screw terminals

4 to 5.5 kW

DC operated



VBC6-30-10

2CDC211042P0011



VBC7-30-10

2CDC211001P0011

VBC6, VBC7 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

- built-in mechanical interlock. The coils must be mutually interlocked electrically and coils must be de-energised for 50 ms at least to prevent phase to phase short circuit on the arc.
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for front mounting
- designed for rail or wall mounting

IEC	UL/CSA		Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	3-phase current $\theta \leq 40^\circ\text{C}$	General use rating	3-phase motor rating					
400 V	AC-1	480 V						
AC-3								
kW	A	hp	V DC					kg

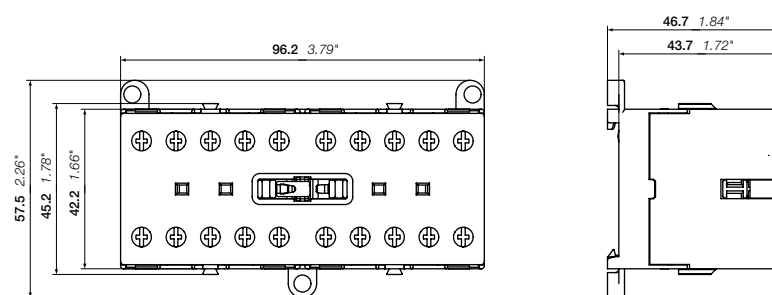
VBC6 mini reversing contactors

4	20	3	300 V / 12 A	12	1 0	VBC6-30-10-07	GJL1213901R0107	5	0.355
					0 1	VBC6-30-01-07	GJL1213901R0017	5	0.355
				24	1 0	VBC6-30-10-01	GJL1213901R0101	5	0.355
					0 1	VBC6-30-01-01	GJL1213901R0011	5	0.355
				48	1 0	VBC6-30-10-16	GJL1213901R1106	5	0.355
					0 1	VBC6-30-01-16	GJL1213901R1016	5	0.355
				60	1 0	VBC6-30-10-03	GJL1213901R0103	5	0.355
					0 1	VBC6-30-01-03	GJL1213901R0013	5	0.355
				110 ... 125	1 0	VBC6-30-10-04	GJL1213901R0104	5	0.355
					0 1	VBC6-30-01-04	GJL1213901R0014	5	0.355
				220 ... 240	1 0	VBC6-30-10-05	GJL1213901R0105	5	0.355
					0 1	VBC6-30-01-05	GJL1213901R0015	5	0.355

VBC7 mini reversing contactors

5.5	20	5	600 V / 16 A	12	1 0	VBC7-30-10-07	GJL1313901R0107	5	0.355
					0 1	VBC7-30-01-07	GJL1313901R0017	5	0.355
				24	1 0	VBC7-30-10-01	GJL1313901R0101	5	0.355
					0 1	VBC7-30-01-01	GJL1313901R0011	5	0.355
				48	1 0	VBC7-30-10-16	GJL1313901R1106	5	0.355
					0 1	VBC7-30-01-16	GJL1313901R1016	5	0.355
				60	1 0	VBC7-30-10-03	GJL1313901R0103	5	0.355
					0 1	VBC7-30-01-03	GJL1313901R0013	5	0.355
				110 ... 125	1 0	VBC7-30-10-04	GJL1313901R0104	5	0.355
					0 1	VBC7-30-01-04	GJL1313901R0014	5	0.355
				220 ... 240	1 0	VBC7-30-10-05	GJL1313901R0105	5	0.355
					0 1	VBC7-30-01-05	GJL1313901R0015	5	0.355

Other types on request



VBC6, VBC7

Main dimensions mm, inches

2CDC102017C0201

VB6A, VB7A 3-pole mini reversing contactors – with screw terminals

4 to 5.5 kW

AC operated – with safety blocking function



VB6A-30-10



VB7A-30-10

VB6A, VB7A 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

- built-in mechanical interlock and safety blocking function. The safety blocking function is triggered if the voltage is applied to the coil of the contactor to be switched on before the contactor to be switched off has dropped out. The contactor coils are designed for continuous operation when the contactor is de-energised i.e. the coil is not damaged if the mechanical interlock prevents switch-on of the contactor with the coil voltage applied.
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for front mounting
- designed for rail or wall mounting

IEC	UL/CSA	Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power 400 V AC-3 kW	3-phase motor rating 480 V AC-1 A hp	General use rating	50 Hz 60 Hz V AC V AC				kg

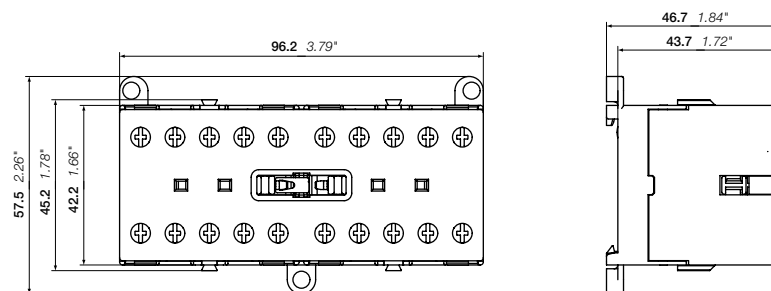
VB6A mini reversing contactors with safety blocking function

4	20	3	300 V / 12 A	24	24	1 0	VB6A-30-10-01	GJL1211911R0101	5	0.355
						0 1	VB6A-30-01-01	GJL1211911R0011	5	0.355
				42	42	1 0	VB6A-30-10-02	GJL1211911R0102	5	0.355
						0 1	VB6A-30-01-02	GJL1211911R0012	5	0.355
				48	48	1 0	VB6A-30-10-03	GJL1211911R0103	5	0.355
						0 1	VB6A-30-01-03	GJL1211911R0013	5	0.355
				110 ... 127	110 ... 127	1 0	VB6A-30-10-84	GJL1211911R8104	5	0.355
						0 1	VB6A-30-01-84	GJL1211911R8014	5	0.355
				220 ... 240	220 ... 240	1 0	VB6A-30-10-80	GJL1211911R8100	5	0.355
						0 1	VB6A-30-01-80	GJL1211911R8010	5	0.355
				380 ... 415	380 ... 415	1 0	VB6A-30-10-85	GJL1211911R8105	5	0.355
						0 1	VB6A-30-01-85	GJL1211911R8015	5	0.355

VB7A mini reversing contactors with safety blocking function

5.5	20	5	600 V / 16 A	24	24	1 0	VB7A-30-10-01	GJL1311911R0101	5	0.355
						0 1	VB7A-30-01-01	GJL1311911R0011	5	0.355
				42	42	1 0	VB7A-30-10-02	GJL1311911R0102	5	0.355
						0 1	VB7A-30-01-02	GJL1311911R0012	5	0.355
				48	48	1 0	VB7A-30-10-03	GJL1311911R0103	5	0.355
						0 1	VB7A-30-01-03	GJL1311911R0013	5	0.355
				110 ... 127	110 ... 127	1 0	VB7A-30-10-84	GJL1311911R8104	5	0.355
						0 1	VB7A-30-01-84	GJL1311911R8014	5	0.355
				220 ... 240	220 ... 240	1 0	VB7A-30-10-80	GJL1311911R8100	5	0.355
						0 1	VB7A-30-01-80	GJL1311911R8010	5	0.355
				380 ... 415	380 ... 415	1 0	VB7A-30-10-85	GJL1311911R8105	5	0.355
						0 1	VB7A-30-01-85	GJL1311911R8015	5	0.355

Other types on request



VB6A, VB7A

Main dimensions mm, inches

VBC6A, VBC7A 3-pole mini reversing contactors – with screw terminals

4 to 5.5 kW

DC operated – with safety blocking function



VBC6A-30-10

2CDC21044F0011



VBC7A-30-10

2CDC21007F0011

VBC6A, VBC7A 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

- built-in mechanical interlock and safety blocking function. The safety blocking function is triggered if the voltage is applied to the coil of the contactor to be switched on before the contactor to be switched off has dropped out. The contactor coils are designed for continuous operation when the contactor is de-energised i.e. the coil is not damaged if the mechanical interlock prevents switch-on of the contactor with the coil voltage applied.
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for front mounting
- designed for rail or wall mounting

IEC	UL/CSA		Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	current	3-phase motor rating	General use rating					
400 V	$\theta \leq 40^\circ \text{C}$	480 V						
AC-3	AC-1	hp						
kW	A		VDC					kg

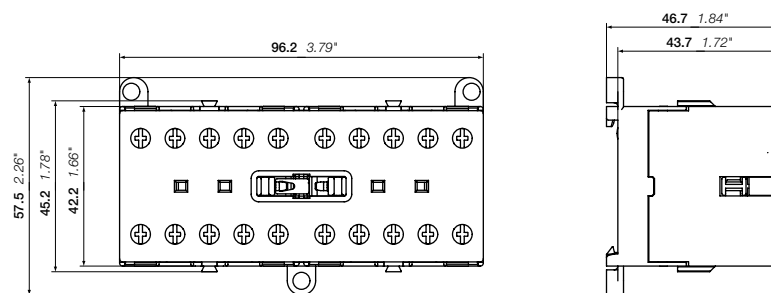
VBC6A mini reversing contactors with safety blocking function

4	20	3	300 V / 12 A	12	1 0	VBC6A-30-10-07	GJL1213911R0107	5	0.355
					0 1	VBC6A-30-01-07	GJL1213911R0017	5	0.355
				24	1 0	VBC6A-30-10-01	GJL1213911R0101	5	0.355
					0 1	VBC6A-30-01-01	GJL1213911R0011	5	0.355
				48	1 0	VBC6A-30-10-16	GJL1213911R1106	5	0.355
					0 1	VBC6A-30-01-16	GJL1213911R1016	5	0.355
				60	1 0	VBC6A-30-10-03	GJL1213911R0103	5	0.355
					0 1	VBC6A-30-01-03	GJL1213911R0013	5	0.355
				110 ... 125	1 0	VBC6A-30-10-04	GJL1213911R0104	5	0.355
					0 1	VBC6A-30-01-04	GJL1213911R0014	5	0.355
				220 ... 240	1 0	VBC6A-30-10-05	GJL1213911R0105	5	0.355
					0 1	VBC6A-30-01-05	GJL1213911R0015	5	0.355

VBC7A mini reversing contactors with safety blocking function

5.5	20	5	600 V / 16 A	12	1 0	VBC7A-30-10-07	GJL1313911R0107	5	0.355
					0 1	VBC7A-30-01-07	GJL1313911R0017	5	0.355
				24	1 0	VBC7A-30-10-01	GJL1313911R0101	5	0.355
					0 1	VBC7A-30-01-01	GJL1313911R0011	5	0.355
				48	1 0	VBC7A-30-10-16	GJL1313911R1106	5	0.355
					0 1	VBC7A-30-01-16	GJL1313911R0016	5	0.355
				60	1 0	VBC7A-30-10-03	GJL1313911R0103	5	0.355
					0 1	VBC7A-30-01-03	GJL1313911R0013	5	0.355
				110 ... 125	1 0	VBC7A-30-10-04	GJL1313911R0104	5	0.355
					0 1	VBC7A-30-01-04	GJL1313911R0014	5	0.355
				220 ... 240	1 0	VBC7A-30-10-05	GJL1313911R0105	5	0.355
					0 1	VBC7A-30-01-05	GJL1313911R0015	5	0.355

Other types on request



VBC6A, VBC7A

Main dimensions mm, inches

BC6, BC7 3-pole interface mini contactors – with screw terminals

4 to 5.5 kW

DC operated



BC6-30-10



BC7-30-10

BC6, BC7 3-pole interface mini contactors are compact control products mainly used for switching resistive or motor loads up to 690 V AC.

These contactors are designed with:

- 3 main poles and one built-in auxiliary contact
- control circuit: DC operated, very low coil consumption. Suitable for direct control by PLC-outputs
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for rail or wall mounting

IEC	UL/CSA	Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power current $\theta \leq 40^\circ\text{C}$	3-phase motor rating 480 V	General use rating					
400 V AC-3	AC-1						kg
kW	A	hp	VDC				

DC operation 24 V / 1.4 W

4	20	3	300 V / 12 A	24	1 0	BC6-30-10-1.4-81	GJL1213001R8101	10	0.175
					0 1	BC6-30-01-1.4-81	GJL1213001R8011	10	0.175
5.5	20	5	600 V / 16 A	24	1 0	BC7-30-10-1.4-81	GJL1313001R8101	10	0.175
					0 1	BC7-30-01-1.4-81	GJL1313001R8011	10	0.175

DC operation 17 ... 32 V / 2.4 W

4	20	3	300 V / 12 A	17 ... 32	1 0	BC6-30-10-2.4-51	GJL1213001R5101	10	0.175
					0 1	BC6-30-01-2.4-51	GJL1213001R5011	10	0.175
5.5	20	5	600 V / 16 A	17 ... 32	1 0	BC7-30-10-2.4-51	GJL1313001R5101	10	0.175
					0 1	BC7-30-01-2.4-51	GJL1313001R5011	10	0.175

Connection to PLCs with integrated protective circuit

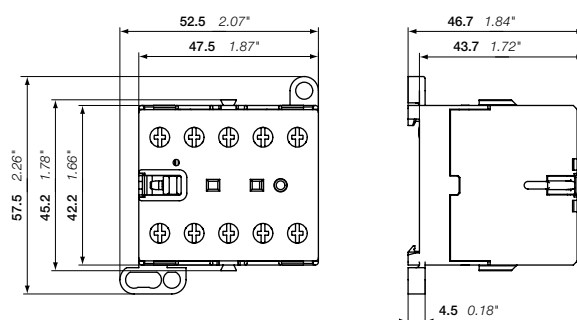
DC operation 24 V / 1.7 W

4	20	3	300 V / 12 A	24	1 0	B6S-30-10-1.7-71	GJL1213001R7101	10	0.175
					0 1	B6S-30-01-1.7-71	GJL1213001R7011	10	0.175
5.5	20	5	600 V / 16 A	24	1 0	B7S-30-10-1.7-71	GJL1313001R7101	10	0.175
					0 1	B7S-30-01-1.7-71	GJL1313001R7011	10	0.175

DC operation 17 ... 32 V / 2.8 W

4	20	3	300 V / 12 A	17 ... 32	1 0	B6S-30-10-2.8-72	GJL1213001R7102	10	0.175
					0 1	B6S-30-01-2.8-72	GJL1213001R7012	10	0.175
5.5	20	5	600 V / 16 A	17 ... 32	1 0	B7S-30-10-2.8-72	GJL1313001R7102	10	0.175
					0 1	B7S-30-01-2.8-72	GJL1313001R7012	10	0.175

Other types on request



BC6, BC7

Main dimensions mm, inches

B6, B7 4-pole mini contactors – with screw terminals

4 to 5.5 kW

AC operated



B6-22-00

B6, B7 4-pole mini contactors are compact control products mainly used for switching resistive loads up to 690 V AC.

These contactors are designed with:

4 main poles

- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for front or side mounting and a wide range of accessories
- designed for rail or wall mounting

IEC	UL/CSA	Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational current $\theta \leq 40^\circ\text{C}$ AC-1 A	General use rating	50/60 Hz V AC					kg

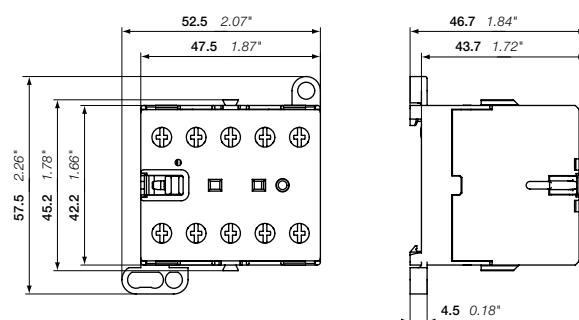
4 N.O. main poles

20	300 V / 12 A	24	0 0	B6-40-00-01	GJL1211201R0001	10	0.175
		42	0 0	B6-40-00-02	GJL1211201R0002	10	0.175
		48	0 0	B6-40-00-03	GJL1211201R0003	10	0.175
		110 ... 127	0 0	B6-40-00-84	GJL1211201R8004	10	0.175
		220 ... 240	0 0	B6-40-00-80	GJL1211201R8000	10	0.175
20	600 V / 16 A	24	0 0	B7-40-00-01	GJL1311201R0001	10	0.175
		42	0 0	B7-40-00-02	GJL1311201R0002	10	0.175
		48	0 0	B7-40-00-03	GJL1311201R0003	10	0.175
		110 ... 127	0 0	B7-40-00-84	GJL1311201R8004	10	0.175
		220 ... 240	0 0	B7-40-00-80	GJL1311201R8000	10	0.175

2 N.O. + 2 N.C. main poles

20	300 V / 12 A	24	0 0	B6-22-00-01	GJL1211501R0001	10	0.175
		42	0 0	B6-22-00-02	GJL1211501R0002	10	0.175
		48	0 0	B6-22-00-03	GJL1211501R0003	10	0.175
		110 ... 127	0 0	B6-22-00-84	GJL1211501R8004	10	0.175
		220 ... 240	0 0	B6-22-00-80	GJL1211501R8000	10	0.175
20	600 V / 16 A	24	0 0	B7-22-00-01	GJL1311501R0001	10	0.175
		42	0 0	B7-22-00-02	GJL1311501R0002	10	0.175
		48	0 0	B7-22-00-03	GJL1311501R0003	10	0.175
		110 ... 127	0 0	B7-22-00-84	GJL1311501R8004	10	0.175
		220 ... 240	0 0	B7-22-00-80	GJL1311501R8000	10	0.175

Other types on request



B6, B7

Main dimensions mm, inches

BC6, B7D 4-pole mini contactors – with screw terminals

4 to 5.5 kW
DC operated



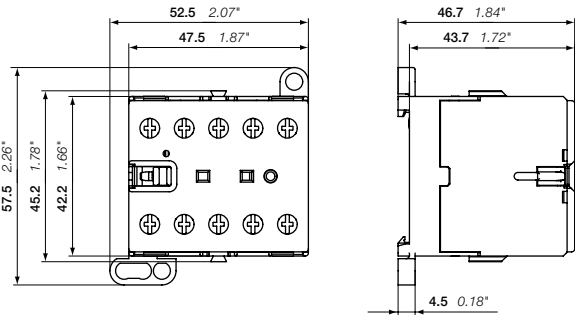
BC6, B7D 4-pole mini contactors are compact control products mainly used for switching resistive loads up to 690 V AC.

These contactors are designed with:

- 4 main poles
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for front or side mounting
- designed for rail or wall mounting

IEC	UL/CSA	Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational current θ ≤ 40 °C AC-1 A	General use rating	V DC					kg
4 N.O. main poles							
20	600 V / 16 A	24	0 0	B7D-40-00-01	GJL1317201R0001	10	0.175
		220	0 0	B7D-40-00-05	GJL1317201R0005	10	0.175
2 N.O. + 2 N.C. main poles							
20	300 V / 12 A	12	0 0	BC6-22-00-07	GJL1213501R0007	10	0.175
		24	0 0	BC6-22-00-01	GJL1213501R0001	10	0.175
		42	0 0	BC6-22-00-02	GJL1213501R0002	10	0.175
		48	0 0	BC6-22-00-16	GJL1213501R1006	10	0.175
		60	0 0	BC6-22-00-03	GJL1213501R0003	10	0.175
		110 ... 125	0 0	BC6-22-00-04	GJL1213501R0004	10	0.175
		220 ... 240	0 0	BC6-22-00-05	GJL1213501R0005	10	0.175

Other types on request



BC6, B7D

Main dimensions mm, inches

2COC102021C0201

K6 4-pole mini contactor relays – with screw terminals

AC operated



K6-22Z

2CDC211012F0011



K6-31Z

2CDC211004F0010

K6 4-pole mini-contactor relays are space optimized control products mainly used for control functions or for small loads up to AC-15 4 A / 240 V.

These contactors are designed with:

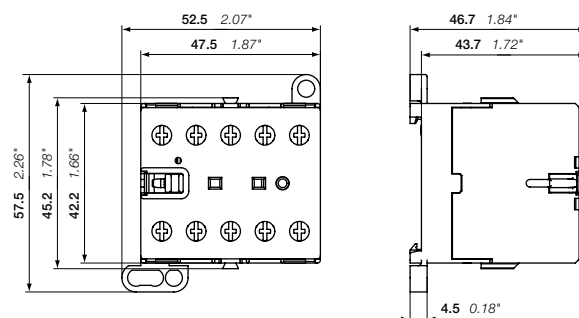
- 4-poles with various contact combinations
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for front or side mounting
- designed for rail or wall mounting

Rated control circuit voltage UC		Type	Order code	Pkg qty	Weight (1 pce)
50 Hz	60 Hz				
V AC	V AC				kg

K6 4-pole mini contactor relays

24	24	K6-22Z-01	GJH1211001R0221	10	0.175
42	42	K6-22Z-02	GJH1211001R0222	10	0.175
48	48	K6-22Z-03	GJH1211001R0223	10	0.175
110 ... 127	110 ... 127	K6-22Z-84	GJH1211001R8224	10	0.175
220 ... 240	220 ... 240	K6-22Z-80	GJH1211001R8220	10	0.175
380 ... 415	380 ... 415	K6-22Z-85	GJH1211001R8225	10	0.175
24	24	K6-31Z-01	GJH1211001R0311	10	0.175
42	42	K6-31Z-02	GJH1211001R0312	10	0.175
48	48	K6-31Z-03	GJH1211001R0313	10	0.175
110 ... 127	110 ... 127	K6-31Z-84	GJH1211001R8314	10	0.175
220 ... 240	220 ... 240	K6-31Z-80	GJH1211001R8310	10	0.175
380 ... 415	380 ... 415	K6-31Z-85	GJH1211001R8315	10	0.175
24	24	K6-40E-01	GJH1211001R0401	10	0.175
42	42	K6-40E-02	GJH1211001R0402	10	0.175
48	48	K6-40E-03	GJH1211001R0403	10	0.175
110 ... 127	110 ... 127	K6-40E-84	GJH1211001R8404	10	0.175
220 ... 240	220 ... 240	K6-40E-80	GJH1211001R8400	10	0.175
380 ... 415	380 ... 415	K6-40E-85	GJH1211001R8405	10	0.175

Other types on request



K6

Main dimensions mm, inches

2CDC102011C0201

KC6 4-pole mini contactor relays – with screw terminals

DC operated



KC6-22Z

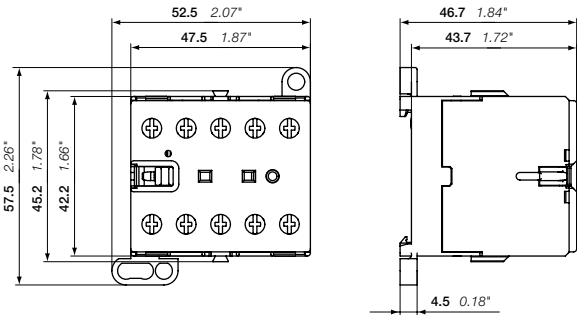
KC6 4-pole mini-contactor relays are space optimized control products mainly used for control functions or for small loads up to AC-15 4 A / 240 V.

These contactors are designed with:

- 4-poles with various contact combinations
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for front or side mounting
- designed for rail or wall mounting

Rated control circuit voltage UC VDC	Type	Order code	Pkg qty	Weight (1 pce) kg
KC6 4-pole mini contactor relays				
12	KC6-22Z-07	GJH1213001R0227	10	0.175
24	KC6-22Z-01	GJH1213001R0221	10	0.175
48	KC6-22Z-16	GJH1213001R1226	10	0.175
60	KC6-22Z-03	GJH1213001R0223	10	0.175
110 ... 125	KC6-22Z-04	GJH1213001R0224	10	0.175
220 ... 240	KC6-22Z-05	GJH1213001R0225	10	0.175
12	KC6-31Z-07	GJH1213001R0317	10	0.175
24	KC6-31Z-01	GJH1213001R0311	10	0.175
48	KC6-31Z-16	GJH1213001R1316	10	0.175
60	KC6-31Z-03	GJH1213001R0313	10	0.175
110 ... 125	KC6-31Z-04	GJH1213001R0314	10	0.175
220 ... 240	KC6-31Z-05	GJH1213001R0315	10	0.175
12	KC6-40E-07	GJH1213001R0407	10	0.175
24	KC6-40E-01	GJH1213001R0401	10	0.175
48	KC6-40E-16	GJH1213001R1406	10	0.175
60	KC6-40E-03	GJH1213001R0403	10	0.175
110 ... 125	KC6-40E-04	GJH1213001R0404	10	0.175
220 ... 240	KC6-40E-05	GJH1213001R0405	10	0.175

Other types on request



KC6

Main dimensions mm, inches

KC6 4-pole interface mini contactor relays – with screw terminals

DC operated



KC6-31Z

KC6 4-pole interface mini-contactor relays are space optimized control products mainly used for control functions or for small loads up to AC-15 4 A / 240 V.

These contactors are designed with:

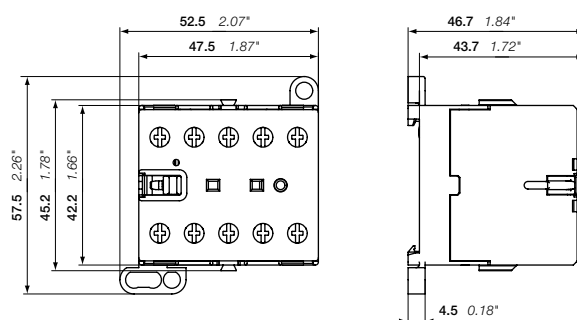
- 4-poles with various contact combinations
- control circuit: DC operated, very low coil consumption. Suitable for direct control by PLC-outputs
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for rail or wall mounting

Rated control circuit voltage UC V DC	Type	Order code	Pkg qty	Weight (1 pce) kg
DC operation 24 V / 1.4 W				
24	KC6-31Z-1.4-81	GJH1213001R8311	10	0.175
24	KC6-40E-1.4-81	GJH1213001R8401	10	0.175
DC operation 17 ... 32 V / 2.4 W				
17 ... 32	KC6-31Z-2.4-51	GJH1213001R5311	10	0.175
17 ... 32	KC6-40E-2.4-51	GJH1213001R5401	10	0.175

Connection to PLCs with integrated protective circuit

DC operation 24 V / 1.7 W				
24	K6S-22Z-1.7-71	GJH1213001R7221	10	0.175
24	K6S-31Z-1.7-71	GJH1213001R7311	10	0.175
24	K6S-40E-1.7-71	GJH1213001R7401	10	0.175
DC operation 17 ... 32 V / 2.8 W				
17 ... 32	K6S-22Z-2.8-72	GJH1213001R7222	10	0.175
17 ... 32	K6S-31Z-2.8-72	GJH1213001R7312	10	0.175
17 ... 32	K6S-40E-2.8-72	GJH1213001R7402	10	0.175

Other types on request



KC6

Main dimensions mm, inches

B6, B7 3-pole mini contactors – with soldering pins

4 to 5.5 kW

AC operated



B6-30-10-P

2CDC211003F0010



B7-30-10-P

2CDC211011F0011

B6..P and B7..P 3-pole mini contactors are compact control products mainly used for switching resistive or motor loads up to 690 V AC.

These contactors are designed with:

- 3 main poles and one built-in auxiliary contact
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for side mounting
- designed for soldering on PCB boards

IEC	UL/CSA	Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	3-phase motor rating	General use rating	50 Hz	60 Hz			
400 V	AC-1	480 V	V AC	V AC			kg
AC-3	AC-1						
kW	A	hp					

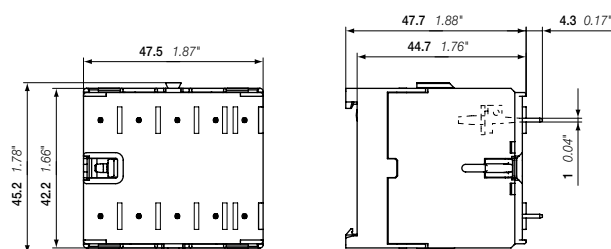
B6 mini contactors

4	12	3	300 V / 12 A	24	24	1 0	B6-30-10-P-01	GJL1211009R0101	10	0.170
						0 1	B6-30-01-P-01	GJL1211009R0011	10	0.170
				42	42	1 0	B6-30-10-P-02	GJL1211009R0102	10	0.170
						0 1	B6-30-01-P-02	GJL1211009R0012	10	0.170
				48	48	1 0	B6-30-10-P-03	GJL1211009R0103	10	0.170
						0 1	B6-30-01-P-03	GJL1211009R0013	10	0.170
				110 ... 127	110 ... 127	1 0	B6-30-10-P-84	GJL1211009R8104	10	0.170
						0 1	B6-30-01-P-84	GJL1211009R8014	10	0.170
				220 ... 240	220 ... 240	1 0	B6-30-10-P-80	GJL1211009R8100	10	0.170
						0 1	B6-30-01-P-80	GJL1211009R8010	10	0.170
				380 ... 415	380 ... 415	1 0	B6-30-10-P-85	GJL1211009R8105	10	0.170
						0 1	B6-30-01-P-85	GJL1211009R8015	10	0.170

B7 mini contactors

5.5	12	5	600 V / 16 A	24	24	1 0	B7-30-10-P-01	GJL1311009R0101	10	0.170
						0 1	B7-30-01-P-01	GJL1311009R0011	10	0.170
				42	42	1 0	B7-30-10-P-02	GJL1311009R0102	10	0.170
						0 1	B7-30-01-P-02	GJL1311009R0012	10	0.170
				48	48	1 0	B7-30-10-P-03	GJL1311009R0103	10	0.170
						0 1	B7-30-01-P-03	GJL1311009R0013	10	0.170
				110 ... 127	110 ... 127	1 0	B7-30-10-P-84	GJL1311009R8104	10	0.170
						0 1	B7-30-01-P-84	GJL1311009R8014	10	0.170
				220 ... 240	220 ... 240	1 0	B7-30-10-P-80	GJL1311009R8100	10	0.170
						0 1	B7-30-01-P-80	GJL1311009R8010	10	0.170
				380 ... 415	380 ... 415	1 0	B7-30-10-P-85	GJL1311009R8105	10	0.170
						0 1	B7-30-01-P-85	GJL1311009R8015	10	0.170

Other types on request



B6, B7

Main dimensions mm, inches

BC6, BC7 3-pole mini contactors – with soldering pins

4 to 5.5 kW

DC operated



BC7-30-10-P

2CDC211030F0011

B6..P and B7..P 3-pole mini contactors are compact control products mainly used for switching resistive or motor loads up to 690 V AC.

These contactors are designed with:

- 3 main poles and one built-in auxiliary contact
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for side mounting
- designed for soldering on PCB boards

IEC	UL/CSA	Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power 400 V AC-3 kW	3-phase motor rating 480 V AC-1 A hp	General use rating V DC					kg

BC6 mini contactors with 3 N.O. main poles

4	12	3	300 V / 12 A	12	1 0	BC6-30-10-P-07	GJL1213009R0107	10	0.170
					0 1	BC6-30-01-P-07	GJL1213009R0017	10	0.170
				24	1 0	BC6-30-10-P-01	GJL1213009R0101	10	0.170
					0 1	BC6-30-01-P-01	GJL1213009R0011	10	0.170
				48	1 0	BC6-30-10-P-16	GJL1213009R1106	10	0.170
					0 1	BC6-30-01-P-16	GJL1213009R1016	10	0.170
				60	1 0	BC6-30-10-P-03	GJL1213009R0103	10	0.170
					0 1	BC6-30-01-P-03	GJL1213009R0013	10	0.170
				110 ... 125	1 0	BC6-30-10-P-04	GJL1213009R0104	10	0.170
					0 1	BC6-30-01-P-04	GJL1213009R0014	10	0.170
				220 ... 240	1 0	BC6-30-10-P-05	GJL1213009R0105	10	0.170
					0 1	BC6-30-01-P-05	GJL1213009R0015	10	0.170

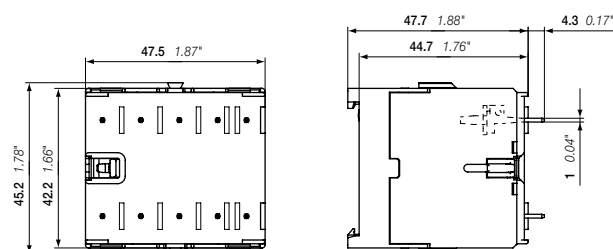
BC7 mini contactors with 3 N.O. main poles

5.5	12	5	600 V / 16 A	12	1 0	BC7-30-10-P-07	GJL1313009R0107	10	0.170
					0 1	BC7-30-01-P-07	GJL1313009R0017	10	0.170
				24	1 0	BC7-30-10-P-01	GJL1313009R0101	10	0.170
					0 1	BC7-30-01-P-01	GJL1313009R0011	10	0.170
				48	1 0	BC7-30-10-P-16	GJL1313009R1106	10	0.170
					0 1	BC7-30-01-P-16	GJL1313009R1016	10	0.170
				60	1 0	BC7-30-10-P-03	GJL1313009R0103	10	0.170
					0 1	BC7-30-01-P-03	GJL1313009R0013	10	0.170
				110 ... 125	1 0	BC7-30-10-P-04	GJL1313009R0104	10	0.170
					0 1	BC7-30-01-P-04	GJL1313009R0014	10	0.170
				220 ... 240	1 0	BC7-30-10-P-05	GJL1313009R0105	10	0.170
					0 1	BC7-30-01-P-05	GJL1313009R0015	10	0.170

BC6 mini contactors 2 N.O. + 1 N.C. main poles

4	12	3	300 V / 12 A	24	1 0	BC6-21-10-P-01	GJL1213109R0101	10	0.170
				48	1 0	BC6-21-10-P-16	GJL1213109R1106	10	0.170
				60	1 0	BC6-21-10-P-03	GJL1213109R0103	10	0.170
				110 ... 125	1 0	BC6-21-10-P-04	GJL1213109R0104	10	0.170
				220 ... 240	1 0	BC6-21-10-P-05	GJL1213109R0105	10	0.170

Other types on request



B6, B7

Main dimensions mm, inches

2CDC102024C0201

VB6, VB7 3-pole mini reversing contactors – with soldering pins

4 to 5.5 kW

AC operated



VB7-30-10-P

11005010122022

VB6..P, VB7..P 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

- built-in mechanical interlock. The coils must be mutually interlocked electrically and coils must be de-energised for 50 ms at least to prevent phase to phase short circuit on the arc
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for soldering on PCB boards

IEC	UL/CSA		Rated control circuit voltage		Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
	Rated operational power	3-phase motor current $\theta \leq 40^\circ\text{C}$	General use rating	50 Hz	60 Hz				
400 V	AC-3	AC-1	480 V	V AC	V AC				kg
kW	A	hp							

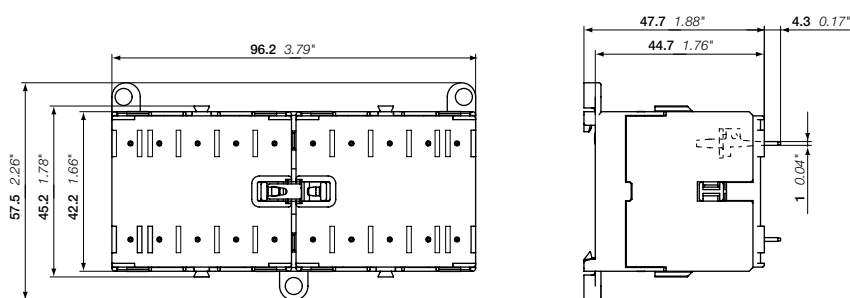
VB6 mini reversing contactors

4	12	3	300 V / 12 A	24	24	1 0	VB6-30-10-P-01	GJL1211909R0101	5	0.345
						0 1	VB6-30-01-P-01	GJL1211909R0011	5	0.345
				42	42	1 0	VB6-30-10-P-02	GJL1211909R0102	5	0.345
						0 1	VB6-30-01-P-02	GJL1211909R0012	5	0.345
				48	48	1 0	VB6-30-10-P-03	GJL1211909R0103	5	0.345
						0 1	VB6-30-01-P-03	GJL1211909R0013	5	0.345
				110 ... 127	110 ... 127	1 0	VB6-30-10-P-84	GJL1211909R8104	5	0.345
						0 1	VB6-30-01-P-84	GJL1211909R8014	5	0.345
				220 ... 240	220 ... 240	1 0	VB6-30-10-P-80	GJL1211909R8100	5	0.345
						0 1	VB6-30-01-P-80	GJL1211909R8010	5	0.345
				380 ... 415	380 ... 415	1 0	VB6-30-10-P-85	GJL1211909R8105	5	0.345
						0 1	VB6-30-01-P-85	GJL1211909R8015	5	0.345

VB7 mini reversing contactors

5.5	12	5	600 V / 16 A	24	24	1 0	VB7-30-10-P-01	GJL1311909R0101	5	0.345
						0 1	VB7-30-01-P-01	GJL1311909R0011	5	0.345
				42	42	1 0	VB7-30-10-P-02	GJL1311909R0102	5	0.345
						0 1	VB7-30-01-P-02	GJL1311909R0012	5	0.345
				48	48	1 0	VB7-30-10-P-03	GJL1311909R0103	5	0.345
						0 1	VB7-30-01-P-03	GJL1311909R0013	5	0.345
				110 ... 127	110 ... 127	1 0	VB7-30-10-P-84	GJL1311909R8104	5	0.345
						0 1	VB7-30-01-P-84	GJL1311909R8014	5	0.345
				220 ... 240	220 ... 240	1 0	VB7-30-10-P-80	GJL1311909R8100	5	0.345
						0 1	VB7-30-01-P-80	GJL1311909R8010	5	0.345
				380 ... 415	380 ... 415	1 0	VB7-30-10-P-85	GJL1311909R8105	5	0.345
						0 1	VB7-30-01-P-85	GJL1311909R8015	5	0.345

Other types on request



VB6, VB7

Main dimensions mm, inches

2COC102025C0201

VBC6, VBC7 3-pole mini reversing contactors – with soldering pins

4 to 5.5 kW

DC operated



VBC7-30-10-P

2CDC21009P001

VBC6..P, VBC7..P 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

- built-in mechanical interlock. The coils must be mutually interlocked electrically and coils must be de-energised for 50 ms at least to prevent phase to phase short circuit on the arc
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for soldering on PCB boards

IEC	UL/CSA		Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	3-phase motor rating	General use rating						
400 V	300 V / 12 A	480 V	V DC					kg
AC-3	AC-1							
kW	A	hp						

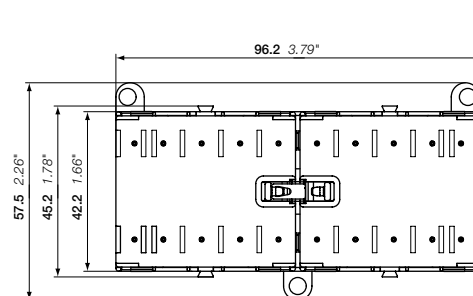
VBC6 mini reversing contactors

4	12	3	300 V / 12 A	12	1 0	VBC6-30-10-P-07	GJL1213909R0107	5	0.345
					0 1	VBC6-30-01-P-07	GJL1213909R0017	5	0.345
				24	1 0	VBC6-30-10-P-01	GJL1213909R0101	5	0.345
					0 1	VBC6-30-01-P-01	GJL1213909R0011	5	0.345
				48	1 0	VBC6-30-10-P-06	GJL1213909R0106	5	0.345
					0 1	VBC6-30-06-P-06	GJL1213909R0016	5	0.345
				60	1 0	VBC6-30-10-P-03	GJL1213909R0103	5	0.345
					0 1	VBC6-30-01-P-03	GJL1213909R0013	5	0.345
				110 ... 125	1 0	VBC6-30-10-P-04	GJL1213909R0104	5	0.345
					0 1	VBC6-30-01-P-04	GJL1213909R0014	5	0.345
				220 ... 240	1 0	VBC6-30-10-P-05	GJL1213909R0105	5	0.345
					0 1	VBC6-30-01-P-05	GJL1213909R0015	5	0.345

VBC7 mini reversing contactors

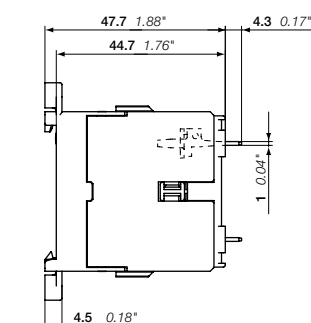
5.5	12	5	600 V / 16 A	12	1 0	VBC7-30-10-P-07	GJL1313909R0107	5	0.345
					0 1	VBC7-30-01-P-07	GJL1313909R0017	5	0.345
				24	1 0	VBC7-30-10-P-01	GJL1313909R0101	5	0.345
					0 1	VBC7-30-01-P-01	GJL1313909R0011	5	0.345
				48	1 0	VBC7-30-10-P-16	GJL1313909R1106	5	0.345
					0 1	VBC7-30-01-P-16	GJL1313909R1016	5	0.345
				60	1 0	VBC7-30-10-P-03	GJL1313909R0103	5	0.345
					0 1	VBC7-30-01-P-03	GJL1313909R0013	5	0.345
				110 ... 125	1 0	VBC7-30-10-P-04	GJL1313909R0104	5	0.345
					0 1	VBC7-30-01-P-04	GJL1313909R0014	5	0.345
				220 ... 240	1 0	VBC7-30-10-P-05	GJL1313909R0105	5	0.345
					0 1	VBC7-30-01-P-05	GJL1313909R0015	5	0.345

Other types on request



VBC6, VBC7

Main dimensions mm, inches



2CDC102035C0201

VB6A, VB7A 3-pole mini reversing contactors – with soldering pins

4 to 5.5 kW

AC operated – with safety blocking function



VB7-30-01-P

VB6A..P, VB7A..P 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

- built-in mechanical interlock and safety blocking function. The safety blocking function is triggered if the voltage is applied to the coil of the contactor to be switched on before the contactor to be switched off has dropped out. The contactor coils are designed for continuous operation when the contactor is de-energised i.e. the coil is not damaged if the mechanical interlock prevents switch-on of the contactor with the coil voltage applied.
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for soldering on PCB boards

IEC	UL/CSA		Rated control circuit voltage UC		Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	3-phase motor current $\theta \leq 40^\circ\text{C}$	General use rating	50 Hz	60 Hz					
400 V	AC-1	3-phase motor rating 480 V	V AC	V AC					kg
AC-3	A	hp							
kW									

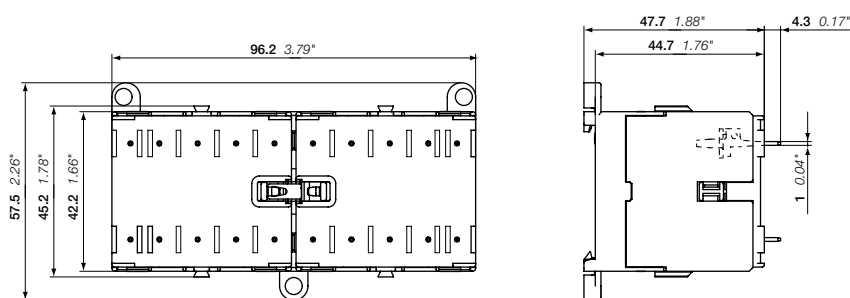
VB6A mini reversing contactors with safety blocking function

4	12	3	300 V / 12 A	24	24	1 0	VB6A-30-10-P-01	GJL1211919R0101	5	0.345
				42	42	0 1	VB6A-30-01-P-01	GJL1211919R0011	5	0.345
						1 0	VB6A-30-10-P-02	GJL1211919R0102	5	0.345
						0 1	VB6A-30-01-P-02	GJL1211919R0012	5	0.345
				48	48	1 0	VB6A-30-10-P-03	GJL1211919R0103	5	0.345
						0 1	VB6A-30-01-P-03	GJL1211919R0013	5	0.345
				110 ... 127	110 ... 127	1 0	VB6A-30-10-P-84	GJL1211919R8104	5	0.345
						0 1	VB6A-30-01-P-84	GJL1211919R8014	5	0.345
				220 ... 240	220 ... 240	1 0	VB6A-30-10-P-80	GJL1211919R8100	5	0.345
						0 1	VB6A-30-01-P-80	GJL1211919R8010	5	0.345
				380 ... 415	380 ... 415	1 0	VB6A-30-10-P-85	GJL1211919R8105	5	0.345
						0 1	VB6A-30-01-P-85	GJL1211919R8015	5	0.345

VB7A mini reversing contactors with safety blocking function

5.5	12	5	600 V / 16 A	24	24	1 0	VB7A-30-10-P-01	GJL1311919R0101	5	0.345
						0 1	VB7A-30-01-P-01	GJL1311919R0011	5	0.345
				42	42	1 0	VB7A-30-10-P-02	GJL1311919R0102	5	0.345
						0 1	VB7A-30-01-P-02	GJL1311919R0012	5	0.345
				48	48	1 0	VB7A-30-10-P-03	GJL1311919R0103	5	0.345
						0 1	VB7A-30-01-P-03	GJL1311919R0013	5	0.345
				110 ... 127	110 ... 127	1 0	VB7A-30-10-P-84	GJL1311919R8104	5	0.345
						0 1	VB7A-30-01-P-84	GJL1311919R8014	5	0.345
				220 ... 240	220 ... 240	1 0	VB7A-30-10-P-80	GJL1311919R8100	5	0.345
						0 1	VB7A-30-01-P-80	GJL1311919R8010	5	0.345
				380 ... 415	380 ... 415	1 0	VB7A-30-10-P-85	GJL1311919R8105	5	0.345
						0 1	VB7A-30-01-P-85	GJL1311919R8015	5	0.345

Other types on request



VB6A, VB7A

Main dimensions mm, inches

VBC7A 3-pole mini reversing contactors – with soldering pins

4 to 5.5 kW

DC operated – with safety blocking function



VBC7A-30-10-P

VBC7A..P 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

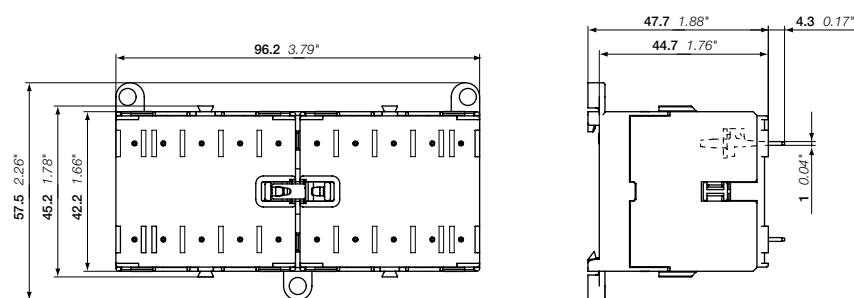
- built-in mechanical interlock and safety blocking function. The safety blocking function is triggered if the voltage is applied to the coil of the contactor to be switched on before the contactor to be switched off has dropped out. The contactor coils are designed for continuous operation when the contactor is de-energised i.e. the coil is not damaged if the mechanical interlock prevents switch-on of the contactor with the coil voltage applied.
- control circuit: AC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for soldering on PCB boards

IEC	UL/CSA	Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power 400 V AC-3 kW	3-phase motor rating 480 V hp						kg
current $\theta \leq 40^\circ\text{C}$ AC-1 A	General use rating	V DC					

VBC7A mini reversing contactors with safety blocking function

5.5	12	5	600 V / 16 A	12	1 0	VBC7A-30-10-P-07	GJL1313919R0107	5	0.345
					0 1	VBC7A-30-01-P-07	GJL1313919R0017	5	0.345
				24	1 0	VBC7A-30-10-P-01	GJL1313919R0101	5	0.345
					0 1	VBC7A-30-01-P-01	GJL1313919R0011	5	0.345
				48	1 0	VBC7A-30-10-P-16	GJL1313919R1106	5	0.345
					0 1	VBC7A-30-01-P-16	GJL1313919R1016	5	0.345
				60	1 0	VBC7A-30-10-P-03	GJL1313919R0103	5	0.345
					0 1	VBC7A-30-01-P-03	GJL1313919R0013	5	0.345
				110 ... 125	1 0	VBC7A-30-10-P-04	GJL1313919R0104	5	0.345
					0 1	VBC7A-30-01-P-04	GJL1313919R0014	5	0.345
				220 ... 240	1 0	VBC7A-30-10-P-05	GJL1313919R0105	5	0.345
					0 1	VBC7A-30-01-P-05	GJL1313919R0015	5	0.345

Other types on request



VBC7A

Main dimensions mm, inches

BC6, BC7 3-pole interface mini contactors – with soldering pins

4 to 5.5 kW
DC operated



BC7-30-10-P

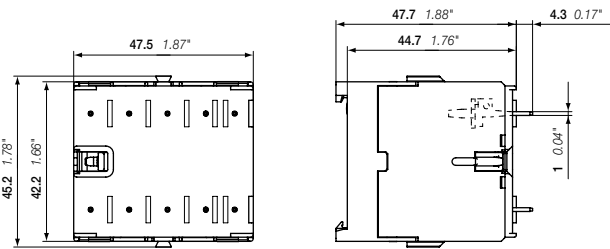
BC6..P, BC7..P 3-pole interface mini contactors are compact control products mainly used for switching resistive or motor loads up to 690 V AC.

These contactors are designed with:

- 3 main poles and one built-in auxiliary contact
- control circuit: DC operated, very low coil consumption. Suitable for direct control by PLC-outputs
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for soldering on PCB boards

IEC		UL/CSA		Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	current $\theta \leq 40^{\circ}\text{C}$	3-phase motor rating 480 V	General use rating						
400 V AC-3	AC-1			V DC					kg
DC operation 24 V / 1.4 W									
4	12	3	300 V / 12 A	24	1 0	BC6-30-10-P-1.4-81	GJL1213009R8101	10	0.170
					0 1	BC6-30-01-P-1.4-81	GJL1213009R8011	10	0.170
5.5	12	5	600 V / 16 A	24	1 0	BC7-30-10-P-1.4-81	GJL1313009R8101	10	0.170
					0 1	BC7-30-01-P-1.4-81	GJL1313009R8011	10	0.170
DC operation 17 ... 32 V / 2.4 W, Ith < 8 A									
4	12	3	300 V / 12 A	17 ... 32	1 0	BC6-30-10-P-2.4-51	GJL1213009R5101	10	0.170
					0 1	BC6-30-01-P-2.4-51	GJL1213009R5011	10	0.170
5.5	12	5	600 V / 16 A	17 ... 32	1 0	BC7-30-10-P-2.4-51	GJL1313009R5101	10	0.170
					0 1	BC7-30-01-P-2.4-51	GJL1313009R5011	10	0.170

Other types on request



BC6, BC7

Main dimensions mm, inches

K6 4-pole mini contactor relays – with soldering pins

AC operated



K6-22Z-P

2CDC11022F0011

K6..P 4-pole mini-contactor relays are space optimized control products mainly used for control functions or for small loads up to 4 A.

These contactors are designed with:

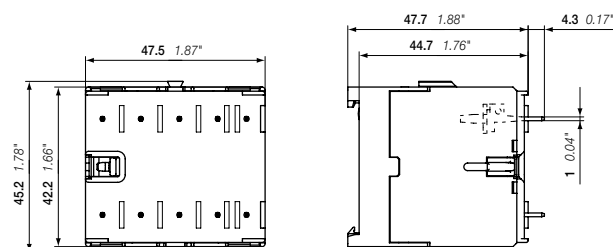
- 4-poles with various contact combinations
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact block for side mounting
- designed for soldering on PCB boards

Rated control circuit voltage UC		Type	Order code	Pkg qty	Weight (1 pce)
50 Hz	60 Hz				
V AC	V AC				kg

K6 4-pole mini contactor relays

24	24	K6-22Z-P-01	GJH1211009R0221	10	0.170
42	42	K6-22Z-P-02	GJH1211009R0222	10	0.170
48	48	K6-22Z-P-03	GJH1211009R0223	10	0.170
110 ...127	110 ...127	K6-22Z-P-84	GJH1211009R8224	10	0.170
220 ... 240	220 ... 240	K6-22Z-P-80	GJH1211009R8220	10	0.170
380 ... 415	380 ... 415	K6-22Z-P-85	GJH1211009R8225	10	0.170
24	24	K6-31Z-P-01	GJH1211009R0311	10	0.170
42	42	K6-31Z-P-02	GJH1211009R0312	10	0.170
48	48	K6-31Z-P-03	GJH1211009R0313	10	0.170
110 ...127	110 ...127	K6-31Z-P-84	GJH1211009R8314	10	0.170
220 ... 240	220 ... 240	K6-31Z-P-80	GJH1211009R8310	10	0.170
380 ... 415	380 ... 415	K6-31Z-P-85	GJH1211009R8315	10	0.170
24	24	K6-40E-P-01	GJH1211009R0401	10	0.170
42	42	K6-40E-P-02	GJH1211009R0402	10	0.170
48	48	K6-40E-P-03	GJH1211009R0403	10	0.170
110 ...127	110 ...127	K6-40E-P-84	GJH1211009R8404	10	0.170
220 ... 240	220 ... 240	K6-40E-P-80	GJH1211009R8400	10	0.170
380 ... 415	380 ... 415	K6-40E-P-85	GJH1211009R8405	10	0.170

Other types on request



K6

Main dimensions mm, inches

2CDC102030C0201

KC6 4-pole mini contactor relays – with soldering pins
DC operated



KC6-22Z-P



KC6-31Z-P

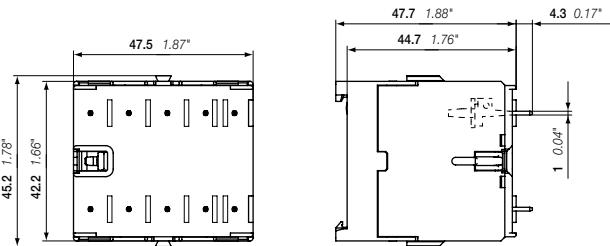
KC6..P 4-pole mini-contactor relays are space optimized control products mainly used for control functions or for small loads up to 4 A.

These contactors are designed with:

- 4-poles with various contact combinations
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact block for side mounting
- designed for soldering on PCB boards

Rated control circuit voltage UC VDC	Type	Order code	Pkg qty	Weight (1 pce) kg
K6 4-pole mini contactor relays				
12	KC6-22Z-P-07	GJH1213009R0227	10	0.170
24	KC6-22Z-P-01	GJH1213009R0221	10	0.170
48	KC6-22Z-P-16	GJH1213009R1226	10	0.170
110 ... 125	KC6-22Z-P-04	GJH1213009R0224	10	0.170
220 ... 240	KC6-22Z-P-05	GJH1213009R0225	10	0.170
24	KC6-31Z-P-01	GJH1213009R0311	10	0.170
48	KC6-31Z-P-16	GJH1213009R1316	10	0.170
110 ... 125	KC6-31Z-P-04	GJH1213009R0314	10	0.170
220 ... 240	KC6-31Z-P-05	GJH1213009R0315	10	0.170
12	KC6-40E-P-07	GJH1213009R0407	10	0.170
24	KC6-40E-P-01	GJH1213009R0401	10	0.170
48	KC6-40E-P-16	GJH1213009R1406	10	0.170
110 ... 125	KC6-40E-P-04	GJH1213009R0404	10	0.170
220 ... 240	KC6-40E-P-05	GJH1213009R0405	10	0.170

Other types on request



KC6
Main dimensions mm, inches

KC6 4-pole interface mini contactor relays – with solderings pins

DC operated



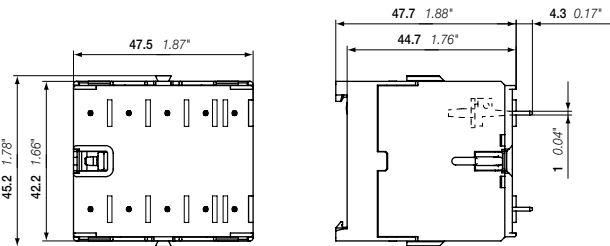
KC6..P 4-pole interface mini-contactor relays are space optimized control products mainly used for control functions or for small loads up to 4 A.

These contactors are designed with:

- 4-poles with various contact combinations
- control circuit: DC operated, very low coil consumption. Suitable for direct control by PLC-outputs
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for soldering on PCB boards

Rated control circuit voltage UC VDC	Type	Order code	Pkg qty	Weight (1 pce) kg
DC operation 24 V / 1.4 W				
24	KC6-31Z-P-1.4-81	GJH1213009R8311	10	0.170
24	KC6-40E-P-1.4-81	GJH1213009R8401	10	0.170
DC operation 17 ... 32 V / 2.4 W				
17 ... 32	KC6-31Z-P-2.4-51	GJH1213009R5311	10	0.170
17 ... 32	KC6-40E-P-2.4-51	GJH1213009R5401	10	0.170

Other types on request



KC6

Main dimensions mm, inches

B6, B7 3-pole mini contactors – with flat pin connection

4 to 5.5 kW
AC operated



B6-30-10-F



B7-30-10-F

B6..F, B7..F 3-pole mini contactors are compact control products mainly used for switching resistive or motor loads up to 690 V AC.

These contactors are designed with:

- flat pin connection for plug-in wiring and shake proven connection
- 3 main poles and one built-in auxiliary contact
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for side mounting
- designed for rail or wall mounting

IEC		UL/CSA		Rated control circuit voltage UC		Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	current $\theta \leq 40^{\circ}\text{C}$	3-phase motor rating 480 V	General use rating	50 Hz	60 Hz					
400 V AC-3	AC-1			V AC	V AC					kg
kW	A	hp								

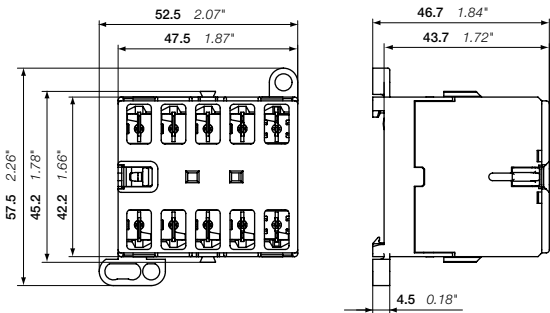
B6 mini contactors

4	20	3	300 V / 12 A	24	24	1 0	B6-30-10-F-01	GJL1211003R0101	10	0.170
				42	42	0 1	B6-30-01-F-01	GJL1211003R0011	10	0.170
						1 0	B6-30-10-F-02	GJL1211003R0102	10	0.170
						0 1	B6-30-01-F-02	GJL1211003R0012	10	0.170
				48	48	1 0	B6-30-10-F-03	GJL1211003R0103	10	0.170
						0 1	B6-30-01-F-03	GJL1211003R0013	10	0.170
				110 ... 127	110 ... 127	1 0	B6-30-10-F-84	GJL1211003R8104	10	0.170
						0 1	B6-30-01-F-84	GJL1211003R8014	10	0.170
				220 ... 240	220 ... 240	1 0	B6-30-10-F-80	GJL1211003R8100	10	0.170
						0 1	B6-30-01-F-80	GJL1211003R8010	10	0.170
				380 ... 415	380 ... 415	1 0	B6-30-10-F-85	GJL1211003R8105	10	0.170
						0 1	B6-30-01-F-85	GJL1211003R8015	10	0.170

B7 mini contactors

5.5	20	5	600 V / 16 A	24	24	1 0	B7-30-10-F-01	GJL1311003R0101	10	0.170
				42	42	0 1	B7-30-01-F-01	GJL1311003R0011	10	0.170
						1 0	B7-30-10-F-02	GJL1311003R0102	10	0.170
						0 1	B7-30-01-F-02	GJL1311003R0012	10	0.170
				48	48	1 0	B7-30-10-F-03	GJL1311003R0103	10	0.170
						0 1	B7-30-01-F-03	GJL1311003R0013	10	0.170
				110 ... 127	110 ... 127	1 0	B7-30-10-F-84	GJL1311003R8104	10	0.170
						0 1	B7-30-01-F-84	GJL1311003R8014	10	0.170
				220 ... 240	220 ... 240	1 0	B7-30-10-F-80	GJL1311003R8100	10	0.170
						0 1	B7-30-01-F-80	GJL1311003R8010	10	0.170
				380 ... 415	380 ... 415	1 0	B7-30-10-F-85	GJL1311003R8105	10	0.170
						0 1	B7-30-01-F-85	GJL1311003R8015	10	0.170

Other types on request



B6, B7

Main dimensions mm, inches

BC6, BC7 3-pole mini contactors – with flat pin connection

4 to 5.5 kW

DC operated



BC6-30-10-F



BC7-30-10-F

BC6..F, BC7..F 3-pole mini contactors are compact control products mainly used for switching resistive or motor loads up to 690 V AC.

These contactors are designed with:

- flat pin connection for plug-in wiring and shake proven connection
- 3 main poles and one built-in auxiliary contact
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for side mounting
- designed for rail or wall mounting

IEC	UL/CSA		Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	current	3-phase motor rating	General use rating					
400 V	$\theta \leq 40^\circ\text{C}$	480 V						
AC-3	AC-1	hp						
kW	A		V DC					kg

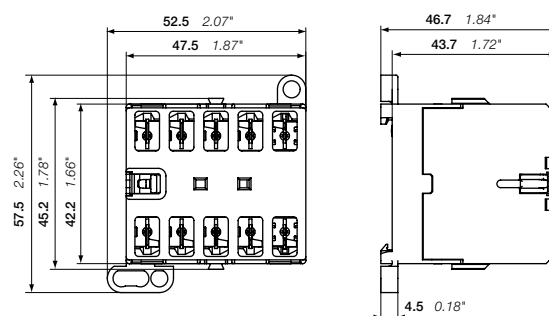
BC6 mini contactors

4	20	3	300 V / 12 A	12	1 0	BC6-30-10-F-07	GJL1213003R0107	10	0.170
					0 1	BC6-30-01-F-07	GJL1213003R0017	10	0.170
				24	1 0	BC6-30-10-F-01	GJL1213003R0101	10	0.170
					0 1	BC6-30-01-F-01	GJL1213003R0011	10	0.170
				48	1 0	BC6-30-10-F-16	GJL1213003R1106	10	0.170
					0 1	BC6-30-01-F-16	GJL1213003R1016	10	0.170
				60	1 0	BC6-30-10-F-03	GJL1213003R0103	10	0.170
					0 1	BC6-30-01-F-03	GJL1213003R0013	10	0.170
				110 ... 125	1 0	BC6-30-10-F-04	GJL1213003R0104	10	0.170
					0 1	BC6-30-01-F-04	GJL1213003R0014	10	0.170
				220 ... 240	1 0	BC6-30-10-F-05	GJL1213003R0105	10	0.170
					0 1	BC6-30-01-F-05	GJL1213003R0015	10	0.170

BC7 mini contactors

5.5	20	5	600 V / 16 A	12	1 0	BC7-30-10-F-07	GJL1313003R0107	10	0.170
					0 1	BC7-30-01-F-07	GJL1313003R0017	10	0.170
				24	1 0	BC7-30-10-F-01	GJL1313003R0101	10	0.170
					0 1	BC7-30-01-F-01	GJL1313003R0011	10	0.170
				48	1 0	BC7-30-10-F-16	GJL1313003R1106	10	0.170
					0 1	BC7-30-01-F-16	GJL1313003R1016	10	0.170
				60	1 0	BC7-30-10-F-03	GJL1313003R0103	10	0.170
					0 1	BC7-30-01-F-03	GJL1313003R0013	10	0.170
				110 ... 125	1 0	BC7-30-10-F-04	GJL1313003R0104	10	0.170
					0 1	BC7-30-01-F-04	GJL1313003R0014	10	0.170
				220 ... 240	1 0	BC7-30-10-F-05	GJL1313003R0105	10	0.170
					0 1	BC7-30-01-F-05	GJL1313003R0015	10	0.170

Other types on request



BC6, BC7

Main dimensions mm, inches

VB7 3-pole mini reversing contactors – with flat pin connection

4 to 5.5 kW
AC operated



VB7-30-10-F

VB7..F 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

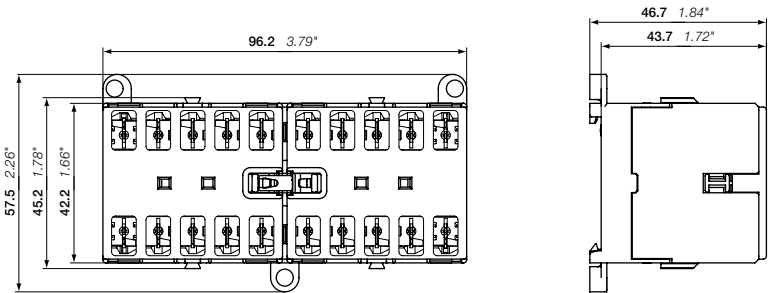
- built-in mechanical interlock. The coils must be mutually interlocked electrically and coils must be de-energised for 50 ms at least to prevent phase to phase short circuit on the arc.
- flat pin connection for plug-in wiring and shake proven connection
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for rail and wall mounting

IEC		UL/CSA		Rated control circuit voltage UC		Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	current $\theta \leq 40^{\circ}\text{C}$	3-phase motor rating 480 V	General use rating	50 Hz	60 Hz					
400 V AC-3 kW	AC-1 A	hp		V AC	V AC					kg

VB7 mini reversing contactors

5.5	20	5	600 V / 16 A	24	24	1 0	VB7-30-10-F-01	GJL1311903R0101	5	0.345
						0 1	VB7-30-01-F-01	GJL1311903R0011	5	0.345
				42	42	1 0	VB7-30-10-F-02	GJL1311903R0102	5	0.345
						0 1	VB7-30-01-F-02	GJL1311903R0012	5	0.345
				48	48	1 0	VB7-30-10-F-03	GJL1311903R0103	5	0.345
						0 1	VB7-30-01-F-03	GJL1311903R0013	5	0.345
				110 ... 127	110 ... 127	1 0	VB7-30-10-F-84	GJL1311903R8104	5	0.345
						0 1	VB7-30-01-F-84	GJL1311903R8014	5	0.345
				220 ... 240	220 ... 240	1 0	VB7-30-10-F-80	GJL1311903R8100	5	0.345
						0 1	VB7-30-01-F-80	GJL1311903R8010	5	0.345
				380 ... 415	380 ... 415	1 0	VB7-30-10-F-85	GJL1311903R8105	5	0.345
						0 1	VB7-30-01-F-85	GJL1311903R8015	5	0.345

Other types on request



VB7
Main dimensions mm, inches

VBC7 3-pole mini reversing contactors – with flat pin connection

4 to 5.5 kW

DC operated



VBC7-30-10-F

2CDC211004F0011

VBC7..F 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

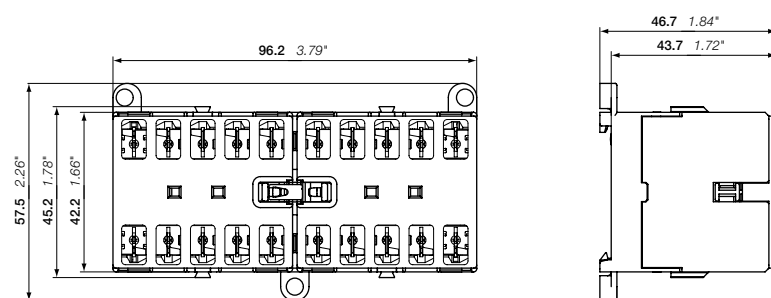
- built-in mechanical interlock. The coils must be mutually interlocked electrically and coils must be de-energised for 50 ms at least to prevent phase to phase short circuit on the arc
- flat pin connection for plug-in wiring and shake proven connection
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for rail and wall mounting

IEC		UL/CSA		Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated power	operational current $\theta \leq 40^\circ\text{C}$	3-phase motor rating 480 V	General use rating						
400 V	AC-1	hp		V DC					kg

VBC7 mini reversing contactors

5.5	20	5	600 V / 16 A	12	1 0	VBC7-30-10-F-07	GJL1313903R0107	5	0.345
					0 1	VBC7-30-01-F-07	GJL1313903R0017	5	0.345
				24	1 0	VBC7-30-10-F-01	GJL1313903R0101	5	0.345
					0 1	VBC7-30-01-F-01	GJL1313903R0011	5	0.345
				48	1 0	VBC7-30-10-F-16	GJL1313903R1106	5	0.345
					0 1	VBC7-30-01-F-16	GJL1313903R1016	5	0.345
				60	1 0	VBC7-30-10-F-03	GJL1313903R0103	5	0.345
					0 1	VBC7-30-01-F-03	GJL1313903R0013	5	0.345
				110 ... 125	1 0	VBC7-30-10-F-04	GJL1313903R0104	5	0.345
					0 1	VBC7-30-01-F-04	GJL1313903R0014	5	0.345
				220 ... 240	1 0	VBC7-30-10-F-05	GJL1313903R0105	5	0.345
					0 1	VBC7-30-01-F-05	GJL1313903R0015	5	0.345

Other types on request



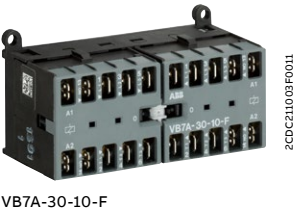
VBC7

Main dimensions mm, inches

VB7A 3-pole mini reversing contactors – with flat pin connection

4 to 5.5 kW

AC operated – with safety blocking function



VB7A..F 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

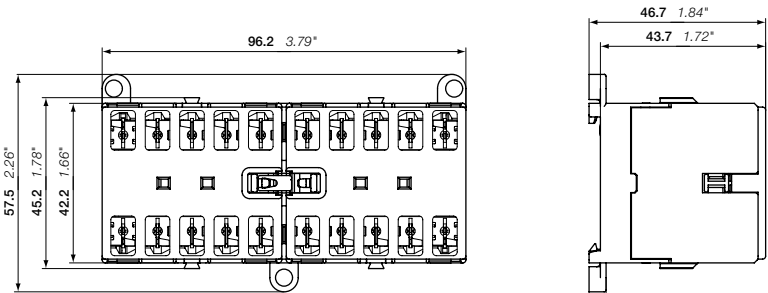
- built-in mechanical interlock and safety blocking function. The safety blocking function is triggered if the voltage is applied to the coil of the contactor to be switched on before the contactor to be switched off has dropped out. The contactor coils are designed for continuous operation when the contactor is de-energised i.e. the coil is not damaged if the mechanical interlock prevents switch-on of the contactor with the coil voltage applied.
- flat pin connection for plug-in wiring and shake proven connection
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for rail and wall mounting

IEC		UL/CSA		Rated control circuit voltage UC		Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated power	operational current $\theta \leq 40^{\circ}\text{C}$	3-phase motor rating 480 V	General use rating	50 Hz	60 Hz					
400 V	AC-3	AC-1	hp	V AC	V AC				pce	kg
kW	A	A								

VB7A mini reversing contactors with safety blocking function

5.5	20	5	600 V / 16 A	24	24	1 0	VB7A-30-10-F-01	GJL1311913R0101	5	0.345
				42	42	0 1	VB7A-30-01-F-01	GJL1311913R0011	5	0.345
						1 0	VB7A-30-10-F-02	GJL1311913R0102	5	0.345
				48	48	0 1	VB7A-30-01-F-02	GJL1311913R0012	5	0.345
						1 0	VB7A-30-10-F-03	GJL1311913R0103	5	0.345
				110 ... 127	110 ... 127	0 1	VB7A-30-01-F-03	GJL1311913R0013	5	0.345
						1 0	VB7A-30-10-F-84	GJL1311913R8104	5	0.345
				220 ... 240	220 ... 240	0 1	VB7A-30-10-F-84	GJL1311913R8014	5	0.345
						1 0	VB7A-30-10-F-80	GJL1311913R8100	5	0.345
				380 ... 415	380 ... 415	0 1	VB7A-30-01-F-80	GJL1311913R8010	5	0.345
						1 0	VB7A-30-10-F-85	GJL1311913R8105	5	0.345
						0 1	VB7A-30-01-F-85	GJL1311913R8015	5	0.345

Other types on request



VB7A

Main dimensions mm, inches

VBC7A 3-pole mini reversing contactors – with flat pin connection

4 to 5.5 kW

DC operated – with safety blocking function



VBC7A-30-10-F

VBC7A..F 3-pole compact design reversing contactors are space optimized control products mainly used for switching resistive or motor loads up to 690 V AC.

These reversing contactors are designed with:

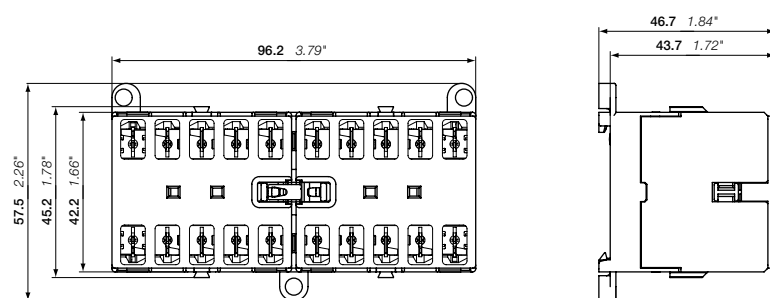
- built-in mechanical interlock and safety blocking function. The safety blocking function is triggered if the voltage is applied to the coil of the contactor to be switched on before the contactor to be switched off has dropped out. The contactor coils are designed for continuous operation when the contactor is de-energised i.e. the coil is not damaged if the mechanical interlock prevents switch-on of the contactor with the coil voltage applied.
- flat pin connection for plug-in wiring and shake proven connection
- control circuit: DC operated, low coil consumption (3.5 W at pull-in and at holding)
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for rail and wall mounting

IEC		UL/CSA		Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated power	operational current $\theta \leq 40^\circ\text{C}$	3-phase motor rating 480 V	General use rating						
400 V	AC-3	AC-1		V DC					kg
kW	A	hp							

VBC7A mini reversing contactors with safety blocking function

5.5	20	5	600 V / 16 A	12	1 0	VBC7A-30-10-F-07	GJL1313913R0107	5	0.345
					0 1	VBC7A-30-01-F-07	GJL1313913R0017	5	0.345
				24	1 0	VBC7A-30-10-F-01	GJL1313913R0101	5	0.345
					0 1	VBC7A-30-01-F-01	GJL1313913R0011	5	0.345
				48	1 0	VBC7A-30-10-F-16	GJL1313913R1106	5	0.345
					0 1	VBC7A-30-01-F-16	GJL1313913R1016	5	0.345
				60	1 0	VBC7A-30-10-F-03	GJL1313913R0103	5	0.345
					0 1	VBC7A-30-01-F-03	GJL1313913R0013	5	0.345
				110 ... 125	1 0	VBC7A-30-10-F-04	GJL1313913R0104	5	0.345
					0 1	VBC7A-30-01-F-04	GJL1313913R0014	5	0.345
				220 ... 240	1 0	VBC7A-30-10-F-05	GJL1313913R0105	5	0.345
					0 1	VBC7A-30-01-F-05	GJL1313913R0015	5	0.345

Other types on request



VBC7A

Main dimensions mm, inches

BC6, BC7 3-pole interface mini contactors – with flat pin connection

4 to 5.5 kW

DC operated



BC6-30-10-F



BC7-30-10-F

BC6..F, BC7..F 3-pole interface mini contactors are compact control products mainly used for switching resistive or motor loads up to 690 V AC.

These contactors are designed with:

- flat pin connection for plug-in wiring and shake proven connection
- 3 main poles and one built-in auxiliary contact
- control circuit: DC operated, very low coil consumption. Suitable for direct control by PLC-outputs
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for rail or wall mounting

IEC	UL/CSA		Rated control circuit voltage UC	Auxiliary contacts fitted	Type	Order code	Pkg qty	Weight (1 pce)
Rated operational power	current	3-phase motor rating	General use rating					
400 V	$\theta \leq 40^\circ\text{C}$	480 V						
AC-3	AC-1	hp	V DC					kg
kW	A							

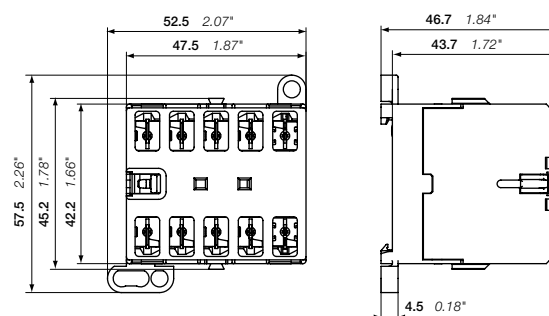
DC operation 24 V / 1.4 W

4	20	3	300 V / 12 A	24	1 0	BC6-30-10-F-1.4-81	GJL1213003R8101	10	0.170
					0 1	BC6-30-01-F-1.4-81	GJL1213003R8011	10	0.170
5.5	20	5	600 V / 16 A	24	1 0	BC7-30-10-F-1.4-81	GJL1313003R8101	10	0.170
					0 1	BC7-30-01-F-1.4-81	GJL1313003R8011	10	0.170

DC operation 17 ... 32 V / 2.4 W

4	20	3	300 V / 12 A	17 ... 32	1 0	BC6-30-10-F-2.4-51	GJL1213003R5101	10	0.170
					0 1	BC6-30-01-F-2.4-51	GJL1213003R5011	10	0.170
5.5	20	5	600 V / 16 A	17 ... 32	1 0	BC7-30-10-F-2.4-51	GJL1313003R5101	10	0.170
					0 1	BC7-30-01-F-2.4-51	GJL1313003R5011	10	0.170

Other types on request



BC6, BC7

Main dimensions mm, inches

K6 4-pole mini contactor relays – with flat pin connection

AC operated



K6-22Z-F

K6..F 4-pole mini-contactor relays are space optimized control products mainly used for control functions or for small loads up to 4 A.

These contactors are designed with:

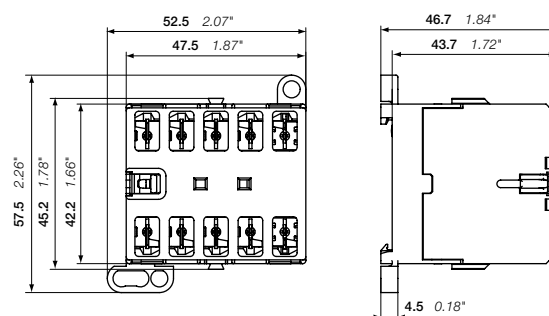
- flat pin connection for plug-in wiring and shake proven connection
- 4-poles with various contact combinations
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for side mounting
- designed for rail and wall mounting

Rated control circuit voltage UC		Type	Order code	Pkg qty	Weight (1 pce)
50 Hz	60 Hz				
V AC	V AC				kg

K6 4-pole mini contactor relays

24	24	K6-22Z-F-01	GJH1211003R0221	10	0.170
42	42	K6-22Z-F-02	GJH1211003R0222	10	0.170
48	48	K6-22Z-F-03	GJH1211003R0223	10	0.170
110 ...127	110 ...127	K6-22Z-F-84	GJH1211003R8224	10	0.170
220 ... 240	220 ... 240	K6-22Z-F-80	GJH1211003R8220	10	0.170
380 ... 415	380 ... 415	K6-22Z-F-85	GJH1211003R8225	10	0.170
24	24	K6-31Z-F-01	GJH1211003R0311	10	0.170
42	42	K6-31Z-F-02	GJH1211003R0312	10	0.170
48	48	K6-31Z-F-03	GJH1211003R0313	10	0.170
110 ...127	110 ...127	K6-31Z-F-84	GJH1211003R8314	10	0.170
220 ... 240	220 ... 240	K6-31Z-F-80	GJH1211003R8310	10	0.170
380 ... 415	380 ... 415	K6-31Z-F-85	GJH1211003R8315	10	0.170
24	24	K6-40E-F-01	GJH1211003R0401	10	0.170
42	42	K6-40E-F-02	GJH1211003R0402	10	0.170
48	48	K6-40E-F-03	GJH1211003R0403	10	0.170
110 ...127	110 ...127	K6-40E-F-84	GJH1211003R8404	10	0.170
220 ... 240	220 ... 240	K6-40E-F-80	GJH1211003R8400	10	0.170
380 ... 415	380 ... 415	K6-40E-F-85	GJH1211003R8405	10	0.170

Other types on request



K6

Main dimensions mm, inches

KC6 4-pole mini contactor relays – with flat pin connection

DC operated



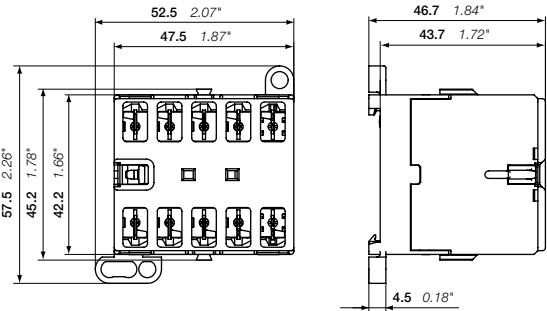
K6..F 4-pole mini-contactor relays are space optimized control products mainly used for control functions or for small loads up to 4 A.

These contactors are designed with:

- flat pin connection for plug-in wiring and shake proven connection
- 4-poles with various contact combinations
- control circuit: AC operated, low coil consumption (3.5 VA at pull-in and at holding)
- hum-free coil
- add-on auxiliary contact blocks for side mounting
- designed for rail and wall mounting

Rated control circuit voltage UC V DC	Type	Order code	Pkg qty	Weight (1 pce) kg
K6 4-pole mini contactor relays				
12	KC6-22Z-F-07	GJH1213003R0227	10	0.170
24	KC6-22Z-F-01	GJH1213003R0221	10	0.170
48	KC6-22Z-F-16	GJH1213003R1226	10	0.170
110 ... 125	KC6-22Z-F-04	GJH1213003R0224	10	0.170
220 ... 240	KC6-22Z-F-05	GJH1213003R0225	10	0.170
12	KC6-31Z-F-07	GJH1213003R0317	10	0.170
24	KC6-31Z-F-01	GJH1213003R0311	10	0.170
48	KC6-31Z-F-16	GJH1213003R1316	10	0.170
110 ... 125	KC6-31Z-F-04	GJH1213003R0314	10	0.170
220 ... 240	KC6-31Z-F-05	GJH1213003R0315	10	0.170
24	KC6-40E-F-01	GJH1213003R0401	10	0.170
48	KC6-40E-F-16	GJH1213003R1406	10	0.170
110 ... 125	KC6-40E-F-04	GJH1213003R0404	10	0.170
220 ... 240	KC6-40E-F-05	GJH1213003R0405	10	0.170

Other types on request



KC6

Main dimensions mm, inches

2CDC102041C0201

KC6 4-pole interface mini contactor relays – with flat pin connection

DC operated



KC6-31Z-F-05

2CDC211033F0011

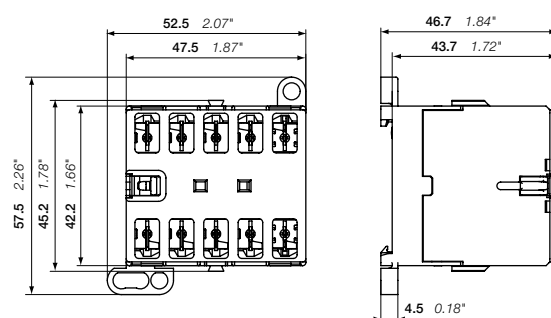
KC6..F 4-pole interface mini-contactor relays are space optimized control products mainly used for control functions or for small loads up to 4 A.

These contactors are designed with:

- flat pin connection for plug-in wiring and shake proven connection
- 4-poles with various contact combinations
- control circuit: DC operated, very low coil consumption. Suitable for direct control by PLC-outputs
- hum-free coil
- no auxiliary contact block permitted for mounting
- designed for rail and wall mounting

Rated control circuit voltage UC V DC	Type	Order code	Pkg qty	Weight (1 pce) kg
DC operation 24 V / 1.4 W				
24	KC6-31Z-F-1.4-81	GJH1213003R8311	10	0.170
24	KC6-40E-F-1.4-81	GJH1213003R8401	10	0.170
DC operation 17 ... 32 V / 2.4 W				
17 ... 32	KC6-31Z-F-51	GJH1213003R5311	10	0.170
17 ... 32	KC6-40E-F-51	GJH1213003R5401	10	0.170

Other types on request



KC6

Main dimensions mm, inches

2CDC102045C0201

B6, B7, BC6, BC7 3- and 4-pole mini contactors

VB6, VB7, VBC6, VBC7 3- and 4-pole mini reversing contactors

Technical data

Main pole – Utilization characteristics according to IEC

Contactor types	AC operated		B6, VB6, VB6A		B7, VB7, VB7A	
	DC operated		BC6, VBC6, VBC6A		BC7, VBC7, VBC7A	
Standards			IEC/EN 60947-1, IEC/EN 60947-4-1			
Rated operational voltage Ue max			690 V AC			
Rated frequency (without derating)			DC or 50 / 60 Hz			
Conventional free-air thermal current Ith acc. to IEC 60947-4-1, open contactors, θ ≤ 40 °C, with conductor cross-sectional area			Screw terminal types: 20 A Flat pin types: 20 A Soldering pin types: 12 A			
AC-1 Utilization category for air temperature close to contactor θ ≤ 40 °C						
Ie / Rated operational current AC-1 Ue max ≤ 690 V, 50/60 Hz		220-230-240 V	Screw terminal types: 20 A Flat pin types: 20 A Soldering pin types: 12 A			
		380-400 V	Screw terminal types: 20 A Flat pin types: 20 A Soldering pin types: 12 A			
		440 V	Screw terminal types: 20 A Flat pin types: 20 A Soldering pin types: 12 A			
		500 V	12 A			
		690 V	6 A			
AC-1 Utilization category for air temperature close to contactor θ ≤ 55 °C						
Ie / Rated operational current AC-1 Ue max ≤ 690 V, 50/60 Hz		220-230-240 V	Screw terminal types: 16 A Flat pin types: 16 A Soldering pin types: 12 A			
		380-400 V	Screw terminal types: 16 A Flat pin types: 16 A Soldering pin types: 12 A			
		440 V	Screw terminal types: 16 A Flat pin types: 16 A Soldering pin types: 12 A			
		500 V	12 A			
		690 V	6 A			
AC-3 Utilization category for air temperature close to contactor θ ≤ 55 °C						
Ie / Rated operational current AC-3 3-phase motors		220 / 230 / 240 V	8.9 / 8.5 / 8.1 A		11.8 / 11.3 / 10.8 A	
		380 / 400 V	8.9 / 8.5 A		12.1 / 11.5 A	
		440 V	7.4 A		10.1 A	
		500 V	6.8 A		9.2 A	
		690 V	3.8 A		3.8 A	
Rated operational power AC-3		220-230-240 V	2.2 kW		3 kW	
1500 r.p.m. 50 Hz		380-400 V	4 kW		5.5 kW	
1800 r.p.m. 60 Hz		440 V	4 kW		5.5 kW	
3-phase motors		500 V	4 kW		5.5 kW	
		690 V	3 kW		3 kW	
DC-1 Utilization category for air temperature close to contactor θ ≤ 55 °C						
Ie / Rated operational current DC-1		110 V	-		4 A	
		220 V	-		0.6 A	
DC-3 Utilization category for air temperature close to contactor θ ≤ 55 °C						
Ie / Rated operational current DC-3		110 V	-		1.5 A	
		220 V	-		0.25 A	
DC-5 Utilization category for air temperature close to contactor θ ≤ 55 °C						
Ie / Rated operational current DC-5		110 V	-		0.4 A	
		220 V	-		0.2 A	
Rated making capacity AC-3			10 x Ie AC-3 acc. to IEC 60947-4-1			
Rated breaking capacity AC-3			8 x Ie AC-3 acc. to IEC 60947-4-1			
Short-circuit protection device for contactors without thermal O/L relay - motor protection excluded Ue ≤ 500 V AC - fuse type gG			Type 1: 25 A / Type 2: 25 A			
Rated short-time withstand current ICW at 40 °C ambient temperature, in free air from a cold state		10 s	64 A		96 A	
Minimum switching capacity			17 V ; 200 mA			
Maximum breaking capacity cos φ = 0.45		at 400 V	64 A		96 A	
Maximum electrical switching frequency		AC-1	300 cycles/h			
		AC-3	600 cycles/h			
		DC-1, DC-3, DC-5	600 cycles/h			

B6, B7, BC6, BC7 3- and 4-pole mini contactors

VB6, VB7, VBC6, VBC7 3- and 4-pole mini reversing contactors

Technical data

Main pole – Utilization characteristics according to UL/NEMA/CSA

Contactor types	AC operated	B6, VB6, VB6A	B7, VB7, VB7A
	DC operated	BC6, VBC6, VBC6A	BC7, VBC7, VBC7A
Standards		UL 508, CSA C22.2 N°14	
Maximum operational voltage		600 V	
UL/CSA general use rating		12 A / 300 V	16 A / 600 V
UL/CSA maximum 1-phase motor rating			
Full load current	120 V AC	5.8 A	13.8 A
	240 V AC	4.9 A	10.0 A
Horse power rating	120 V AC	0.25 hp	0.75 hp
	240 V AC	0.5 hp	1.5 hp
UL/CSA maximum 3-phase motor rating			
Full load current (1)	200 / 208 V AC	4.8 / 4.6 A	7.8 / 10.6 A
	220-240 V AC	6.8 A	9.6 A
	440-480 V AC	4.8 A	7.6 A
	550-600 V AC	1.7 A	6.1 A
Horse power rating (1)	200 / 208 V AC	1 hp	2 / 3 hp
	220-240 V AC	2 hp	3 hp
	440-480 V AC	3 hp	5 hp
	550-600 V AC	1 hp	5 hp
Resistive Heating	300 V per pole	8 A	8 A
Incandescent Lamps	300 V per pole	6 A	6 A
Fluorescent Lamps	300 V per pole	8.4 A	8.4 A
Short-circuit protection device for contactors without thermal overload relay - motor protection excluded			
Fuse rating	600 V	40 A	
Fuse type, 600 V	600 V	Class J	
Maximum electrical switching frequency			
For resistive loads AC-1		300 cycles/h	
For motor loads AC-3		600 cycles/h	

(1) For the corresponding kW/A or hp/A values of 1500 r.p.m, 50 Hz or 1800 r.p.m, 60 Hz, 3-phase motors, see "Motor rated operational powers and currents".

General technical data

Contactor types	AC operated	B6, VB6, VB6A	B7, VB7, VB7A
	DC operated	BC6, VBC6, VBC6A	BC7, VBC7, VBC7A
Rated insulation voltage Ui			
acc. to IEC 60947-4-1		690 V	
acc. to UL/CSA		600 V	
Rated impulse withstand voltage Uimp		6 kV	
Ambient air temperature, close to contactor			
Operation	Fitted with thermal overload relay	-25 ... +50 °C	
	Without thermal overload relay	-25 ... +55 °C	
Storage		-40 ... +80 °C	
Climatic withstand		Acc. to IEC 60947-1 Annex Q	
Maximum operating altitude (without derating)		2000 m	
Mechanical durability		10 ⁷ operating cycles	
Resistance to shock		Half-sine	
acc. IEC 60068-2-27 and EN 60068-2-27		15 g / 11 ms	
acc. to IEC/EN 60947-1 Annex. Q		Category E	
Resistance to vibrations		Sinusoidal	
acc. IEC 60068-2-27 and EN 60068-2-27		5 g / 3 ... 150 Hz	
acc. to IEC/EN 60947-1 Annex. Q		Category E	

B6, B7, BC6, BC7 3- and 4-pole mini contactors

VB6, VB7, VBC6, VBC7 3- and 4-pole mini reversing contactors

Technical data

Magnet system characteristics for B6, B7 contactors

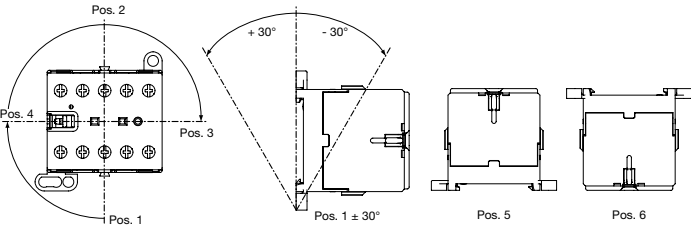
Contactor types	AC operated	B6, VB6	B7, VB7
Coil operating limits acc. to IEC 60947-4-1	AC supply	0.85 ... 1.1 x U _c	
AC control voltage		See ordering tables	
Rated control circuit voltage U _C		See ordering tables	
Coil consumption	Average pull-in value	3.5 VA / 3.5 W	
	Average holding value	3.5 VA / 3.5 W	
Drop-out voltage		0.20 ... 0.75 % of U _c	

Magnet system characteristics for BC6, BC7 contactors

Contactor types	DC operated	BC6, VBC6	BC7, VBC7
Coil operating limits acc. to IEC 60947-4-1	DC supply	0.85 ... 1.1 x U _c	
AC control voltage		See ordering tables	
Rated control circuit voltage U _C		See ordering tables	
Coil consumption (1)	Average pull-in value	3.5 VA / 3.5 W	
	Average holding value	3.5 VA / 3.5 W	
Drop-out voltage in % of U _C min		0.10 ... 0.75 x U _C	

(1) Interface mini-contactors: see coil consumption on ordering details pages

Mounting characteristics and conditions for use

Contactor types	AC operated	B6, VB6, VB6A	B7, VB7, VB7A
	DC operated	BC6, VBC6, VBC6A	BC7, VBC7, VBC7A
Mounting positions			
Mounting distances	The contactors can be assembled side by side		
Fixing			
On rail acc. to IEC 60715, EN 60715	35 x 7.5 mm or 35 x 15 mm		
By screws (not supplied)	2 x M4 screws placed diagonally		

B6, B7, BC6, BC7 3- and 4-pole mini contactors**VB6, VB7, VBC6, VBC7 3- and 4-pole mini reversing contactors**

Technical data

Built-in auxiliary contact according to IEC

Types	Built-in auxiliary contacts	
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1	
Rated operational voltage U_e max	690 V	
Rated frequency (without derating)	DC or 50 / 60 Hz	
Conventional free-air thermal current $I_{th} \theta \leq 40^\circ\text{C}$	6 A	
I_e / Rated operational current AC-15 acc. to IEC 60947-5-1	24 V 50/60 Hz	4 A
	110-120 V 50/60 Hz	4 A
	220-230-240 V 50/60 Hz	4 A
	380-400 V 50/60 Hz	3 A
	440 V 50/60 Hz	3 A
I_e / Rated operational current DC-13 acc. to IEC 60947-5-1	24 V DC	2.5 A
	110 V DC	0.7 A
	220 - 240 V DC	0.4 A
Short-circuit protection device	6 A, Type gG	
Minimum switching capacity with failure rate acc. to IEC 60947-5-4	17 V / 5 mA	
Maximum electrical switching frequency	AC-15	600 cycles/h
	DC-13	600 cycles/h

Built-in auxiliary contact according to UL/CSA

Types	Built-in auxiliary contacts	
Max. operational voltage	600 V AC	
Pilot duty	A600	
AC thermal rated current	5 A	

Connection characteristics

Contactor types	AC operated	B6, VB6, VB6A	B7, VB7, VB7A
	DC operated	BC6, VBC6, VBC6A	BC7, VBC7, VBC7A
Main terminals (1)	 Screw terminals with cable clamp		
Connection capacity			
Main conductors (poles)			
 Rigid: solid	1 or 2 x	1 ... 4 mm²	
 Flexible without ferrule	1 or 2 x	1 ... 2.5 mm²	
Connection capacity acc. to UL/CSA	1 or 2 x	AWG 22 ... 10	
Stripping length	9 mm		
Tightening torques	0.8 ... 1.1 Nm / 7 lb.in		
Connection capacity – auxiliary conductors (built-in auxiliary terminals + coil terminals)			
 Rigid: solid	1 or 2 x	1 ... 4 mm²	
 Flexible without ferrule	1 or 2 x	1 ... 2.5 mm²	
Connection capacity acc. to UL/CSA	1 or 2 x	AWG 22 ... 10	
Stripping length	9 mm		
Tightening torques			
Coil terminals	0.8 ... 1.1 Nm / 7 lb.in		
Built-in auxiliary terminals	0.8 ... 1.1 Nm / 7 lb.in		
Degree of protection			
acc. to IEC 60947-1 / EN 60947-1			
and IEC 60529 / EN 60529			
Main terminals	IP20		
Coil terminals	IP20		
Built-in auxiliary terminals	IP20		
Screw terminals	(Delivered in open position, screws of unused terminals must be tightened)		
All terminals	M3		
Screwdriver type	Flat Ø 5.5 mm / Pozidriv 1		

(1) Soldering pin connection acc. to DIN 40801: 0.8 x 1 mm / 0.8 x 2.54 mm
Flat pin connection acc. to DIN 46248: 1 x 6.3 mm / 1 x 2.8 mm

K6, KC6 4-pole mini contactor relays

Technical data

Main pole – Utilization characteristics according to IEC

Contactor types	AC operated	K6
	DC operated	KC6
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 60947-5-1	
Rated operational voltage U _{max}	690 V	
Rated frequency (without derating)	DC or 50 / 60 Hz	
Conventional free-air thermal current I _{th} θ ≤ 40 °C	6 A	
I _e / Rated operational current AC-15 acc. to IEC 60947-5-1	24 V 50/60 Hz	4 A
	110-120 V 50/60 Hz	4 A
	220-230-240 V 50/60 Hz	4 A
	380-400 V 50/60 Hz	3 A
	440 V 50/60 Hz	3 A
	480-500 V 50/60 Hz	2 A
	24 V DC	2.5 A
I _e / Rated operational current DC-13 acc. to IEC 60947-5-1	110 V DC	0.7 A
	220-240 V DC	0.4 A
Short-circuit protection device for contactors U _e ≤ 500 V AC, fuse type gG	6 A	
Minimum switching capacity	17 V / 5 mA	
Maximum electrical switching frequency	AC-15	600 cycles/h
	DC-13	600 cycles/h

Main pole – Utilization characteristics according to UL/NEMA/CSA

Contactor types	AC operated	K6
	DC operated	KC6
Standards	UL 508, CSA C22.2 No14	
Maximum operational voltage	600 V AC	
Pilot duty	A600	

K6, KC6 4-pole mini contactor relays

Technical data

General technical data

Contactor relay types	AC operated	K6
	DC operated	KC6
Rated insulation voltage U_i		
acc. to IEC 60947-5-1		690 V
acc. to UL/CSA		600 V
Rated impulse withstand voltage U_{imp}		6 kV
Electromagnetic compatibility		
Ambient air temperature close to contactor relay	Operation in free air	-25 ... +55 °C
	Storage	-40 ... +80 °C
Climatic withstand		Acc. to IEC 60068-2-30
Maximum operating altitude (without derating)		2000 m
Mechanical durability		10 ⁷ operating cycles
Resistance to shock		Half-sine
acc. IEC 60068-2-27 and EN 60068-2-27		15 g / 11ms
acc. to IEC/EN 60947-1 Annex. Q		Category E
Resistance to vibrations		Sinusoidal
acc. IEC 60068-2-27 and EN 60068-2-27		5 g / 3 ... 150 Hz
acc. to IEC/EN 60947-1 Annex. Q		Category E

Magnet system characteristics for K6 contactor relays

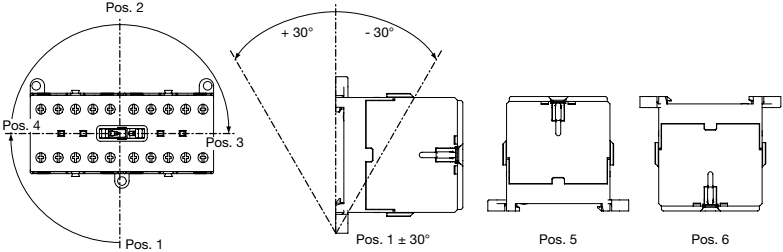
Contactor relay types		AC operated	K6
Coil operating limits acc. to IEC 60947-4-1		AC supply	0.85 ... 1.1 x UC
AC control voltage			
Coil consumption	Average pull-in value		3.5 VA / 3.5 W
	Average holding value		3.5 VA / 3.5 W
Drop-out voltage in % of UC min.		Approx. 20 ... 75%	

Magnet system characteristics for KC6 contactor relays

Contactor relay types		DC operated	KC6
Coil operating limits acc. to IEC 60947-5-1		DC supply	0.85 ... 1.1 x UC
DC control voltage			
Coil consumption	Average pull-in value		3.5 VA / 3.5 W
	Average holding value		3.5 VA / 3.5 W
Drop-out voltage in % of UC min.		10 ... 75 %	

K6, KC6 4-pole mini contactor relays
Technical data

Mounting characteristics and conditions for use

Contactor types	AC operated	K6
	DC operated	KC6
Mounting positions		
Mounting distances	The contactors can be assembled side by side.	
Fixing	On rail acc. to IEC 60715, EN 60715	35 x 7.5 mm or 35 x 15 mm
	By screws (not supplied)	2 x M4 screws placed diagonally

Connecting characteristics

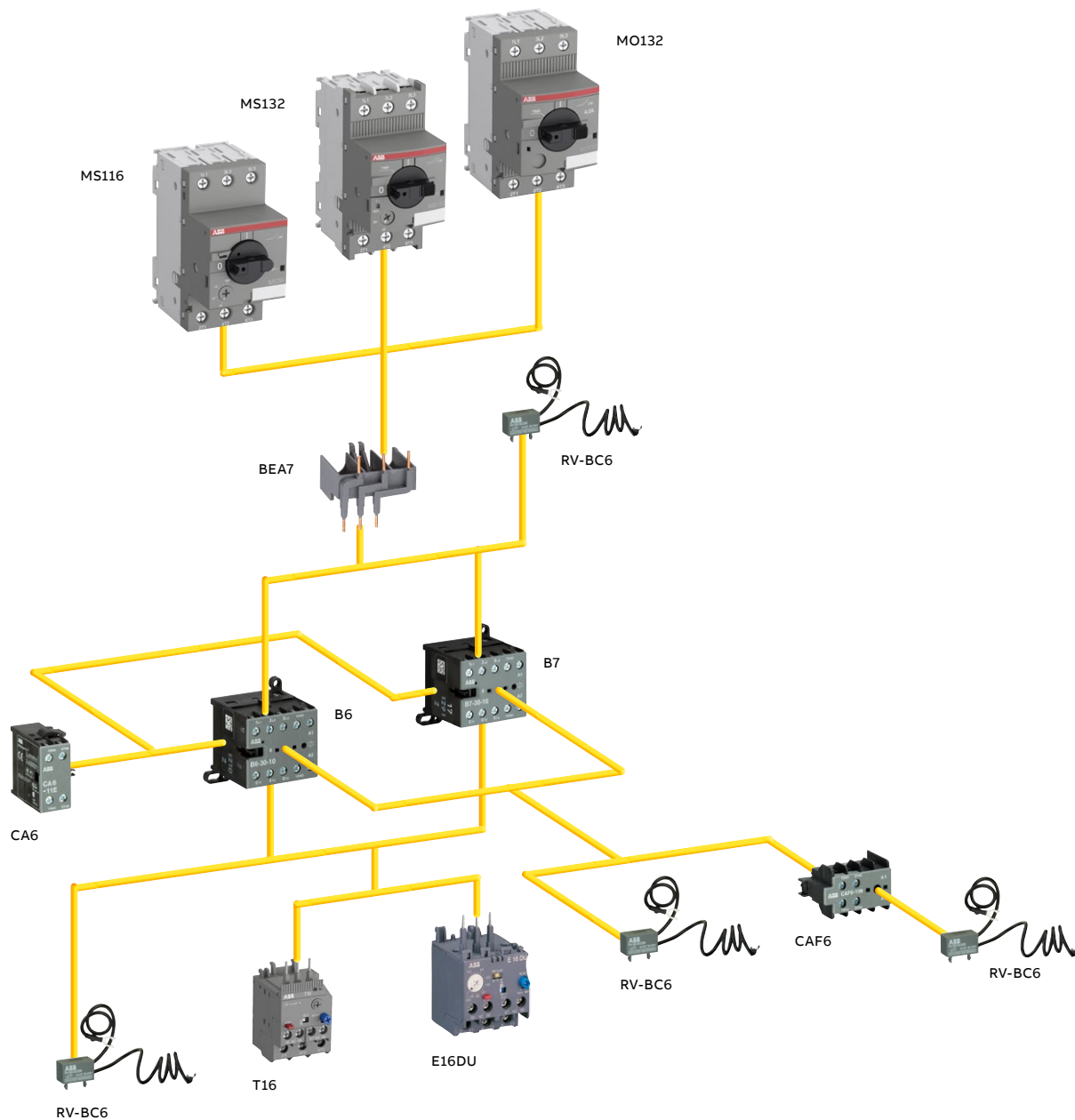
Contactor relay types	AC operated	K6
	DC operated	KC6
Main terminals(1)	 Screw terminals with cable clamp	
Connection capacity		
Main conductors (poles)		
 Rigid: solid	1 or 2 x	1 ... 4 mm²
 Flexible without ferrule	1 or 2 x	1 ... 2.5 mm²
Connection apacity acc. to UL/CSA	1 or 2 x	AWG 22 ... 10
Stripping length	9 mm	
Tightening torques	0.8 ... 1.1 Nm / 7 lb.in	
Degree of protection		
acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529		
All	IP20	
Screw terminals	(Delivered in open position, screws of unused terminals must be tightened)	
All terminals	M3	
Screwdriver type	Flat Ø 5.5 / Pozidriv 1	

(1) Soldering pin connection acc. to DIN 40801: 0.8 x 1 mm / 0.8 x 2.54 mm
Flat pin connection acc. to DIN 46248: 1 x 6.3 mm / 1 x 2.8 mm

Accessories

- 4/48 Accessories for B 3-pole and 4-pole mini contactors, VB 3-pole and 4-pole mini reversing**
- 4/50 Accessories for K 4-pole mini contactor relays**
- 4/52 Location of the connection terminals and terminal designation**
- 4/53 Dimension drawings**

Accessories for mini contactors



Note: The picture is valid for screw terminal contactors only.

B6, B7, BC6, BC7 3- and 4-pole mini contactors

VB6, VB7, VBC6, VBC7 3-pole mini reversing contactors

Accessories



CAF6-11N

2CDC211012P0010



CA6-11E

2CDC211008P0010



CA6-11E-P

2CDC211018P0011



CA6-11E-F

2CDC211020P0011



CAF6-11N

2CDC211007P0010



BSM6-30

SST27192R



LT6-B

2CDC231012P0011

Suitable for	Auxiliary contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg

Front mounted instantaneous auxiliary contact blocks (not allowed for mounting on B6S, B7S, interface contactors) (1)

B6-, B7-40-00, BC6-, BC7-40-00	1 1	CAF6-11E	GJL1201330R0002	10	0.020
VB6, VB7, VBC6, VBC7, VB6A, VB7A	2 0	CAF6-20E	GJL1201330R0006	10	0.020
VBC6A, VBC7A	0 2	CAF6-02E	GJL1201330R0010	10	0.020
B6-, B7-30-10, BC6-, BC7-30-10	1 1	CAF6-11M	GJL1201330R0003	10	0.020
VB6, VB7, VBC6, VBC7, VB6A, VB7A	2 0	CAF6-20M	GJL1201330R0007	10	0.020
VBC6A, VBC7A	0 2	CAF6-02M	GJL1201330R0011	10	0.020
B6-, B7-30-01, BC6-, BC7-30-01	1 1	CAF6-11N	GJL1201330R0004	10	0.020
VB6, VB7, VBC6, VBC7, VB6A, VB7A	2 0	CAF6-20N	GJL1201330R0008	10	0.020
VBC6A, VBC7A	0 2	CAF6-02N	GJL1201330R0012	10	0.020

Side mounted instantaneous auxiliary contact block (1)

B6-, B7-40-00, BC6-, BC7-40-00	1 1	CA6-11E	GJL1201317R0002	10	0.030
B6-, B7-30-10, BC6-, BC7-30-10	1 1	CA6-11M	GJL1201317R0003	10	0.030
B6-, B7-30-01, BC6-, BC7-30-01	1 1	CA6-11N	GJL1201317R0004	10	0.030

Side mounted instantaneous auxiliary contact block with soldering pins (2)

B6-, B7-40-00-P, BC6-, BC7-40-00-P	1 1	CA6-11E-P	GJL1201319R0002	10	0.025
B6-, B7-30-10-P, BC6-, BC7-30-10-P	1 1	CA6-11M-P	GJL1201319R0003	10	0.025
B6-, B7-30-01-P, BC6-, BC7-30-01-P	1 1	CA6-11N-P	GJL1201319R0004	10	0.025

Side mounted instantaneous auxiliary contact block with flat pin connection (2)

B6-, B7-40-00-F, BC6-, BC7-40-00-F	1 1	CA6-11E-F	GJL1201318R0002	10	0.025
B6-, B7-30-10-F, BC6-, BC7-30-10-F	1 1	CA6-11M-F	GJL1201318R0003	10	0.025
B6-, B7-30-01-F, BC6-, BC7-30-01-F	1 1	CA6-11N-F	GJL1201318R0004	10	0.025

Soldering socket (Ith = 10 A, AC-3: 500 V / 8 A, 690 V / 3.5 A, UL: 300 V / 8 A)

B6, B7, BC6, BC7	LB6	GJL1201902R0001	10	0.020
2-pole aux. contact blocks CA	LB6-CA	GJL1201903R0001	10	0.010

(1) CA6 and CAF6 must not be fitted simultaneously.

Suitable for	Rated control circuit voltage UC V DC	Connection type	Type	Order code	Pkg qty	Weight (1 pce)
						kg

Surge suppressors for contactor coils

BC6, BC7	24 ... 60	Cable lug	RV-BC6/60	GHV2501902R0002	10	0.005
	50 ... 250	Cable lug	RV-BC6/250	GHV2501903R0002	10	0.005

Note: Mini contactors for AC operation have an integrated protective circuit

Connecting links with manual motor starters

To connect B..VB.. mini contactor to MS116, MS132	BEA7/132	1SBN080906R1002	10	0.013
To connect B..VB.. mini contactors to MS325	BEA7/325	1SBN080906R1001	10	0.021

Connection sets for reversing contactors

VB6, VB7, VBC6, VBC7, VB6A, VB7A, VBC6A, VBC7A, cross-section 1.8 mm ²	BSM6-30	GJL1201908R0001	10	0.010
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Parallel connecting link

B6, B7, BC6, BC7	LP6	GJL1201907R0001	100	0.009
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Cover cap, transparent fitting to DIN rail design, sealable

B6, B7, BC6, BC7	LT6-B	GJL1201906R0001	10	0.015
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Plastic label for markings

B6, B7, BC6, BC7	BA5-50	1SBN110000R1000	50	0.020
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K6, KC6 4-pole mini contactor relays

Accessories



CAF6-11K

2CDC211019F0011



CA6-11K

2CDC211009F0010



CA6-11K-P

2CDC211011F0010



CA6-11K-F

2CDC211010F0010



LT6-B

2CDC211006F0010



RV-BC6/250

2CDC211007F0010

Suitable for	Auxiliary contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg

Front mounted instantaneous auxiliary contact blocks (1)

K6, KC6	1 1	CAF6-11K	GJL1201330R0001	10	0.020
	2 0	CAF6-20K	GJL1201330R0005	10	0.020
	0 2	CAF6-02K	GJL1201330R0009	10	0.020

Side mounted instantaneous auxiliary contact block (1)

K6, KC6	1 1	CA6-11K	GJL1201317R0001	10	0.030
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Side mounted instantaneous auxiliary contact block with soldering pins (2)

K6..P, KC6..P	1 1	CA6-11K-P	GJL1201319R0001	10	0.025
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Side mounted instantaneous auxiliary contact block with flat pin connection (2)

K6..F, KC6..F	1 1	CA6-11K-F	GJL1201318R0001	10	0.025
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Soldering socket (Ie < 8 A)

K6, KC6	LB6	GJL1201902R0001	10	0.020
2-pole auxiliary contact blocks CA	LB6-CA	GJL1201903R0001	10	0.010

(1) CA6 and CAF6 must not be fitted simultaneously.

Suitable for	Rated control circuit voltage UC V DC	Connection type	Type	Order code	Pkg qty	Weight (1 pce)
						kg

Surge suppressors for contactor coils

KC6	24 ... 60	Cable lug	RV-BC6/60	GHV2501902R0002	10	0.005
	50 ... 250	Cable lug	RV-BC6/250	GHV2501903R0002	10	0.005

Note: Mini contactors for AC operation have an integrated protective circuit

Cover cap, transparent fitting to DIN rail design, sealable

K6, KC6	LT6-B	GJL1201906R0001	10	0.015
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B6, B7, BC6, BC7 3- and 4-pole mini contactors

VB6, VB7, VBC6, VBC7 3- and 4-pole mini reversing contactors

Technical data

Auxiliary contacts for front mounting and side mounting according to IEC

Types	CA6, CAF6
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1
Rated operational voltage U _e max	690 V
Rated frequency (without derating)	DC or 50 / 60 Hz
Conventional free-air thermal current I _{th} θ ≤ 40 °C	6 A
I _e / Rated operational current AC-15	24 V 50/60 Hz 4 A
acc. to IEC 60947-5-1	110-120 V 50/60 Hz 4 A
	220-230-240 V 50/60 Hz 4 A
	380-400 V 50/60 Hz 3 A
	440 V 50/60 Hz 3 A
I _e / Rated operational current DC-13	24 V DC 2.5 A
acc. to IEC 60947-5-1	110 V DC 0.7 A
	220 - 240 V DC 0.4 A
Short-circuit protection device	6 A, Type gG
Minimum switching capacity with failure rate acc. to IEC 60947-5-4	17 V / 5 mA
Maximum electrical switching frequency	AC-15 600 cycles/h
	DC-13 600 cycles/h

Auxiliary contacts for front mounting and side mounting according to UL/CSA

Types	CA6, CAF6
Max. operational voltage	600 V AC
Pilot duty	A600
AC thermal rated current	5 A

Connection characteristics

Types	CA6, CAF6
Auxiliary terminals (1)	 Screw terminals with cable clamp
Connection capacity – auxiliary conductors (built-in auxiliary terminals + coil terminals)	
 Rigid: solid	1 or 2 x 1 ... 4 mm ²
 Flexible without ferrule	1 or 2 x 1 ... 2.5 mm ²
Connection capacity acc. to UL/CSA	1 or 2 x AWG 22 ... 10
Stripping length	9 mm
Tightening torques	0.8 ... 1.1 Nm / 7 lb.in
Degree of protection acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529	
Auxiliary terminals	IP20
Screw terminals	(Delivered in open position, screws of unused terminals must be tightened)
All terminals	M3
Screwdriver type	Flat Ø 5.5 mm / Pozidriv 1

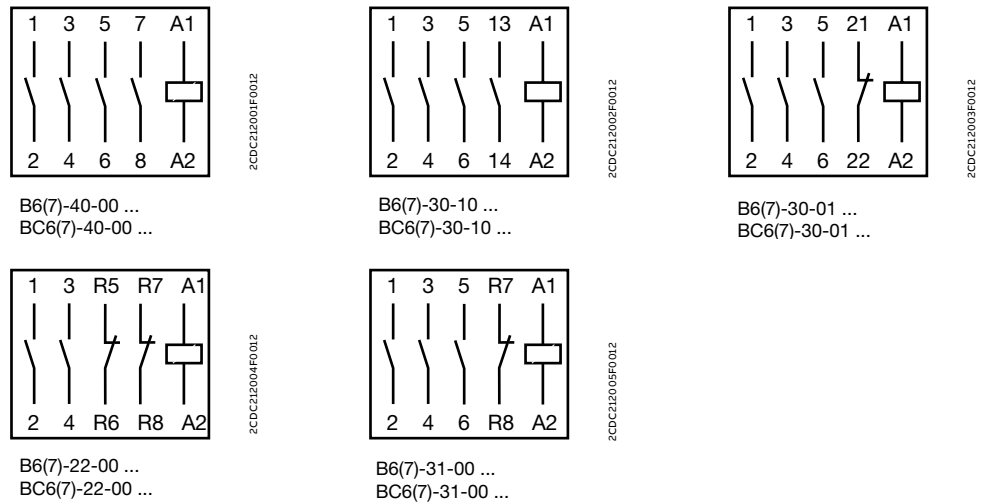
(1) Soldering pin connection acc. to DIN 40801: 0.8 x 1 mm / 0.8 x 2.54 mm

Flat pin connection acc. to DIN 46248: 1 x 6.3 mm / 1 x 2.8 mm

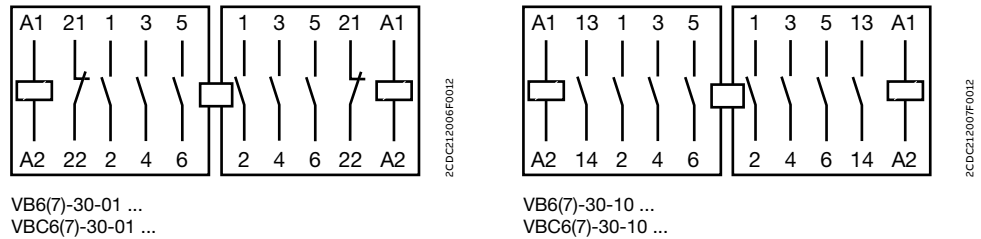
Mini contactors

Location of the connection terminals and terminal designation

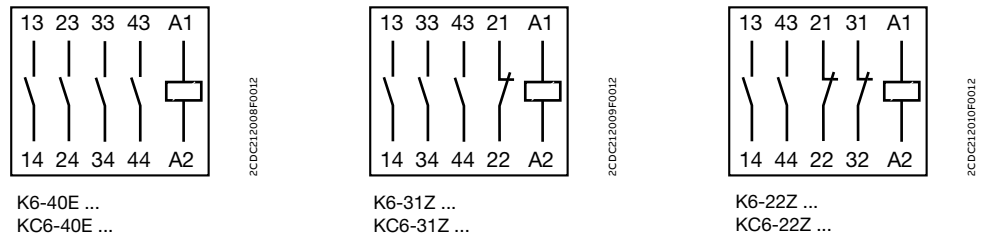
Mini contactors



Compact reversing contactors

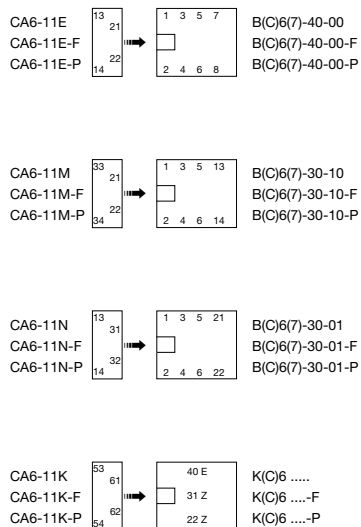


Mini contactor relays

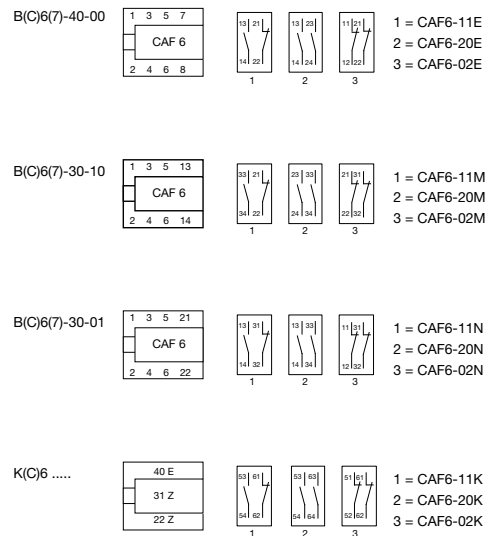


Auxiliary switches

CA6...



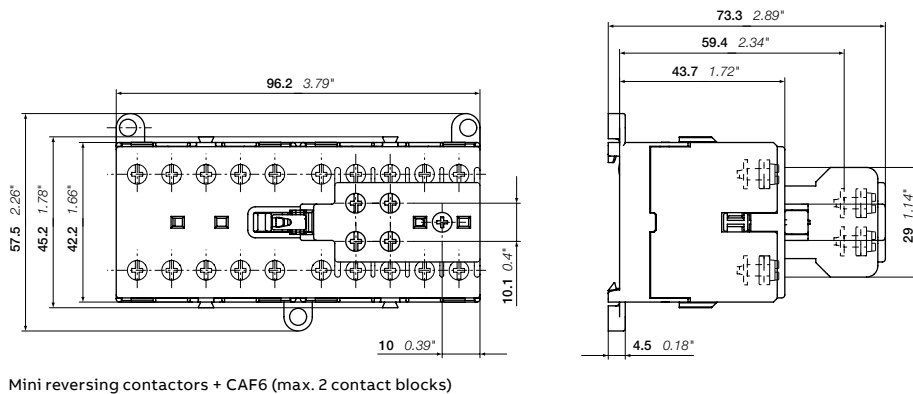
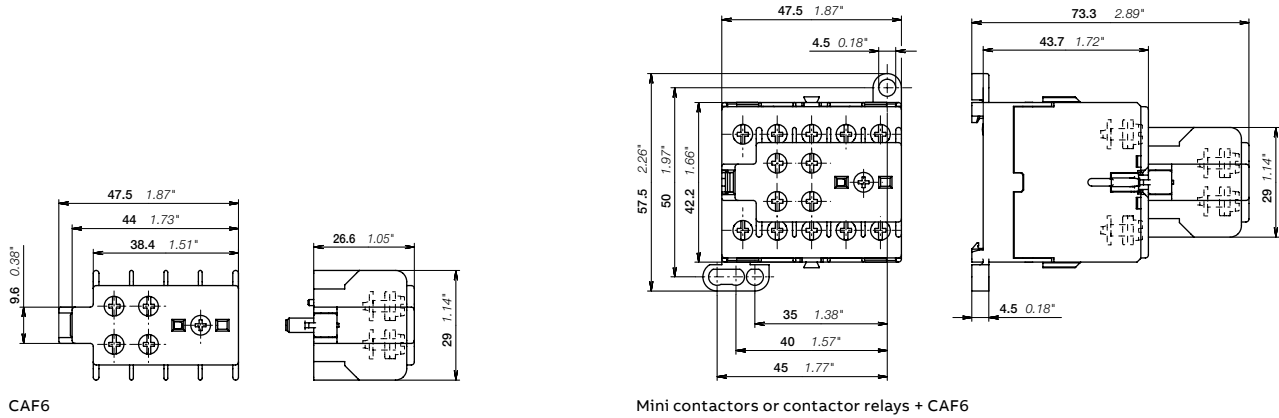
CAF...



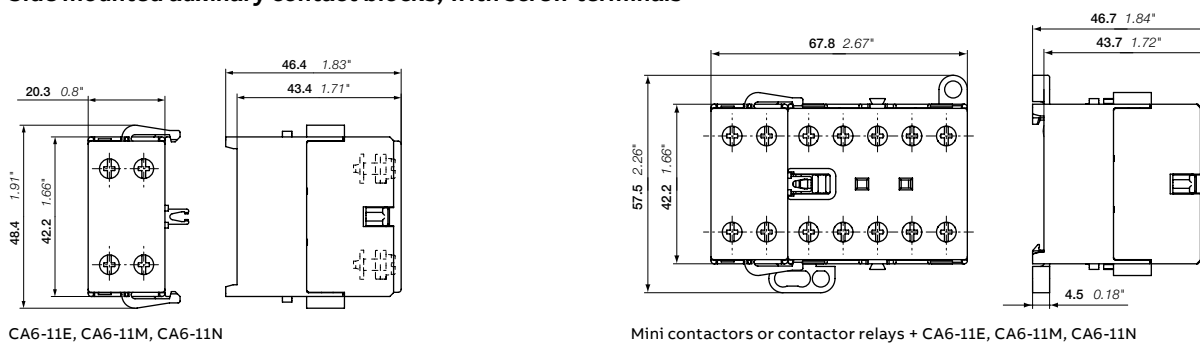
Mini contactors and contactor relays

Dimension drawings with accessories

Front mounted auxiliary contact blocks, with screw terminals



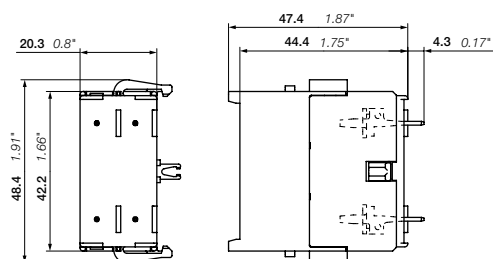
Side mounted auxiliary contact blocks, with screw terminals



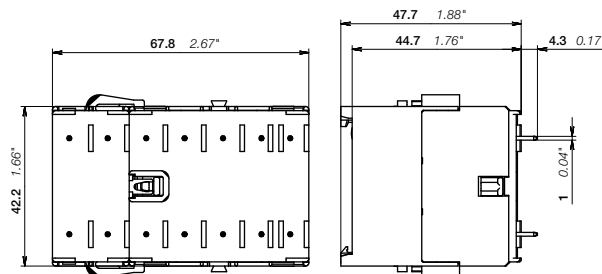
Mini contactors and contactor relays

Dimension drawings with accessories

Side mounted auxiliary contact blocks, with soldering pins

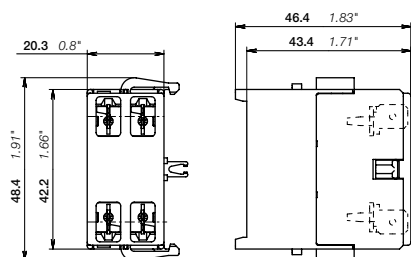


CA6-11E-P, CA6-11M-P, CA6-11N-P

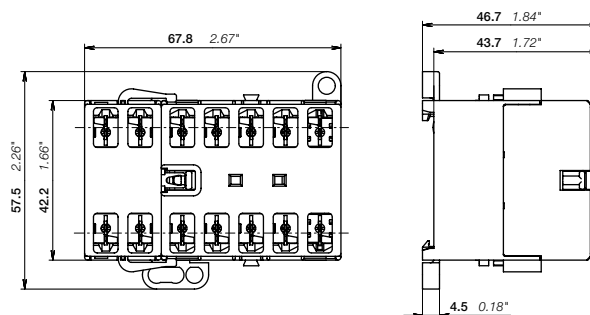


Mini contactors or contactor relays + CA6-11E-P, CA6-11M-P, CA6-11N-P

Side mounted auxiliary contact blocks, with flat pin connection

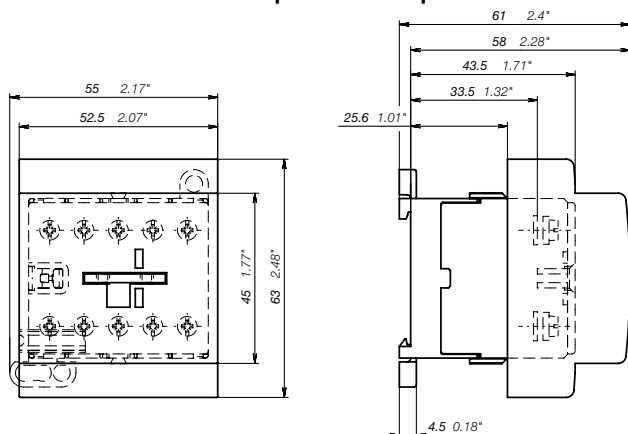


CA6-11E-F, CA6-11M-F, CA6-11N-F



Mini contactors or contactor relays + CA6-11E-F, CA6-11M-F, CA6-11N-F

Front mounted cover cap for DIN rail panel installation

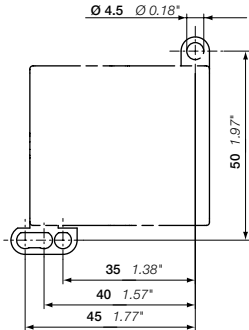


Mini contactors or contactor relays + LT6-B cover cap

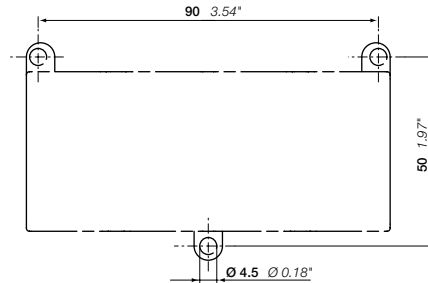
Mini contactors and contactor relays

Dimension drawings with accessories

Drilling plans for wall mounting

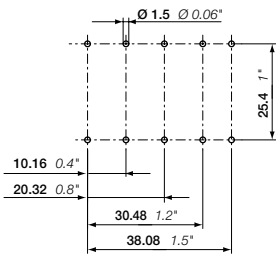


Mini contactors or contactor relays with screw terminals and flat pin connection

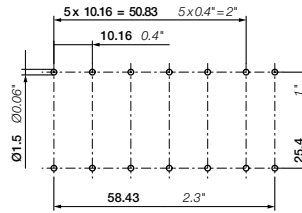


Mini reversing contactors with screw terminals and flat pin connection

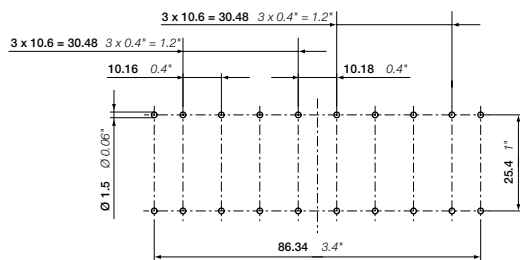
Drilling plans for PCBA



Mini contactors or contactor relays with soldering pins



Mini contactors or contactor relays with soldering pins + CA6-11E-P, CA6-11M-P, CA6-11N-P



Mini reversing contactors with soldering pins