

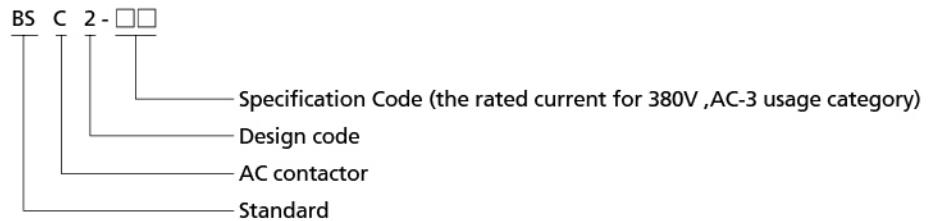
Application

BSC2-D series AC contactor (hereinafter contactor) is suitable for using in the circuits up to the rated voltage 690V AC 50Hz or 60Hz, rated current up to 95A, for making, breaking, frequently starting & controlling the AC motor.

This series contactor complies with GB14048.4, IEC60947-4-1.



Model and Implication



Working and Installation Condition

- Ambient air temperature: -5°C $\rightarrow +40^{\circ}\text{C}$ and average not more than $+35^{\circ}\text{C}$ within 24hours;
- Altitude: no more than 2000m;
- Air condition: when the highest temperature is $+40^{\circ}\text{C}$, the air relative humidity is not up to 50%.but the higher humidity is allowed at lower temperature. Like, 90% humidity at 20°C . The condensate dew should be considered when at lower temperature;
- Pollution degree: class 3;
- Installation category: III;
- Protection degree: IP20;
- Installation condition: the gradient angle between installation side and vertical side should not be more than $\pm 5^{\circ}$;
- Impact and vibration: the contactor must be installed and operate under the circumstances of no obvious shaking, impact and vibration.

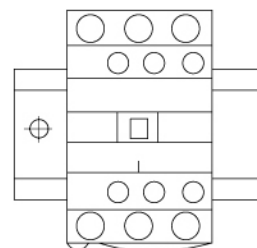
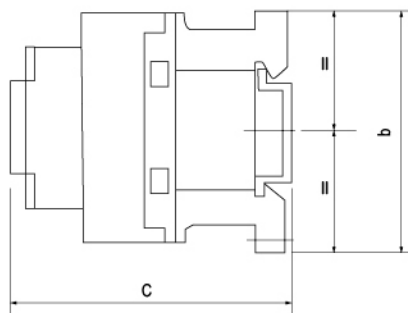
Structure characteristic

- The wonderful appearance design looks textural, which stops shocking, use more safely and reliably;
- It can be installed with auxiliary contacts block, time relay and current-limited contacts block, and thermal relay, then to be other derivative products;
- This series contactor has small volume, light weight, less power loss, long life and safe and reliability etc;
- The contactor can be equipped with 1NO auxiliary contact or 1NC auxiliary contact(less than 32A),and 1NO auxiliary contact+1NC auxiliary contact(more than 40A).In addition, it can be equipped with F4 auxiliary contact block (2blocks or4blocks);
- In addition to use screw to install, contactor can be tightened with the standard installing rail of 35mm(BSC2-D09~95) and the standard installing rail of 75mm (BSC2-D40~95).

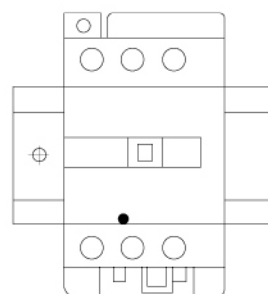
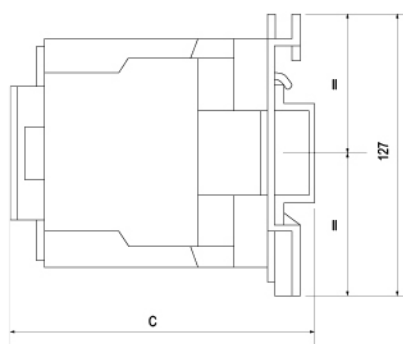


Appearance and Installation Dimension

BSC2-D09~32 Appearance and Installation Dimension



BSC2-D40~95 Appearance and Installation Dimension



Type	A	B	C	a	b	Φ
BSC2-D09~18	45	77	86	35	50/60	4.5
BSC2-D25~32	45	85	92	35	60/70	4.5
BSC2-D40~65	75	127	119	40	100/110	6.5
BSC2-D80~95	85	127	130	40	100/110	6.5

BSC2-D

Series AC Contactor



BSC2-D09~18



BSC2-D25~32

Main Parameters and Technical Performance

Type		BSC2-D09	BSC2-D12	BSC2-D18	BSC2-D25	BSC2-D32	
Rated heating current (A)		20	20	25	32	40	
Rated insulation voltage (V)				690			
Rated impact withstand voltage (KV)				6			
Rated making capacity				10Ie			
Rated breaking capacity				8Ie			
Poles				3			
Auxiliary contact				1NO+1NC			
Short-time withstand current (A)	10s	72	96	144	200	256	
AC-3 Rated working current (A)	220V/230V	9	12	18	25	32	
	380V/400V	9	12	18	25	32	
	660V/690V	6.5	8.9	12	18	22	
AC-3 capacity of phase 3 squirrel-cage motor (AC-3) KW	220V/230V	2.2	3	4	5.5	7.5	
	380V/400V	4	5.5	7.5	11	15	
	660V/690V	5.5	7.5	10	15	18.5	
Operation frequency (times/h)	Electrical life			1200		600	
	Mechanical life			3600			
AC-3 Electrical life (10000/times)		100	100	100	100	80	
Mechanical life (10000/times)		1000	1000	1000	1000	800	
Equipped fuse type		RT16-20	RT16-20	RT16-32	RT16-40	RT16-50	
Rated control supply voltage Us (V)	50/60Hz			12~480			
Operation range	Pull-in			(85%~110%)Us	+40℃		
	Releasing			(20%~75%)Us	-5℃		
AC coil average power (VA)	Start		70			110	
	Keeping		8			11	
Power efficiency class				class 3			
Thermal loss (W)			2~3		3~4		
Actuation time (ms)	Close			12~35			
	Break			5~20			
Main circuit wiring	flexible wire without cold pressing terminal (mm²)	1 stick	1~4	1~4	1.5~6	1.5~10	2.5~10
		2 sticks	1~4	1~4	1.5~6	1.5~6	2.5~10
	flexible wire with cold pressing terminal (mm²)	1 stick	1~4	1~4	1~6	1~6	1~10
		2 sticks	1~2.5	1~2.5	1~4	1~4	1.5~6
	Hard wire (mm²)	1 stick	1~4	1~4	1.5~6	1.5~6	1.5~10
		2 sticks	1~4	1~4	1.5~6	1.5~6	2.5~10
	Fastening screw size		M3.5			M4	
	Tightening fastening torque (N.m)		0.8			1.2	
Control loop wiring	flexible wire without cold pressing terminal (mm²)	1 stick	1~4	1~4	1~4	1~4	1~4
		2 sticks	1~4	1~4	1~4	1~4	1~4
	flexible wire with cold pressing terminal (mm²)	1 stick	1~4	1~4	1~4	1~4	1~4
		2 sticks	1~2.5	1~2.5	1~2.5	1~2.5	1~2.5
	Hard wire (mm²)	1 stick	1~4	1~4	1~4	1~4	1~4
		2 sticks	1~4	1~4	1~4	1~4	1~4
	Fastening screw size		M3.5				
	Tightening fastening torque (N.m)		0.8				

BSC2-D

Series AC Contactor



BSC2-D40~65



BSC2-D80~95

BSC2-D40	BSC2-D50	BSC2-D65	BSC2-D80	BSC2-D95
50	60	80	110	110
690				
6				
10le				
8le				
3				
1NO+1NC				
320	400	520	640	760
40	50	65	80	95
40	50	65	80	95
34	39	42	49	49
11	15	18.5	22	25
18.5	22	30	37	45
30	33	37	45	45
600				
3600				
80	60	60	60	60
800	800	800	600	600
RT16-63	RT16-80	RT16-80	RT16-100	RT16-125
12~480				
(85%~110%)Us +40℃				
(20%~75%)Us -5℃				
200				
20				
class 3				
6~10				
20~25			20~35	
8~15			8~20	
2.5~25	2.5~25	2.5~25	4~50	4~50
2.5~16	2.5~16	2.5~16	4~25	4~25
2.5~25	2.5~25	2.5~25	4~50	4~50
2.5~10	2.5~10	2.5~10	4~16	4~16
2.5~25	2.5~25	2.5~25	4~50	4~50
2.5~16	2.5~16	2.5~16	4~25	4~25
M8			M10	
3.5			4.0	
1~4	1~4	1~4	1~4	1~4
1~4	1~4	1~4	1~4	1~4
1~4	1~4	1~4	1~4	1~4
1~2.5	1~2.5	1~2.5	1~2.5	1~2.5
1~4	1~4	1~4	1~4	1~4
1~4	1~4	1~4	1~4	1~4
M3.5				
0.8				