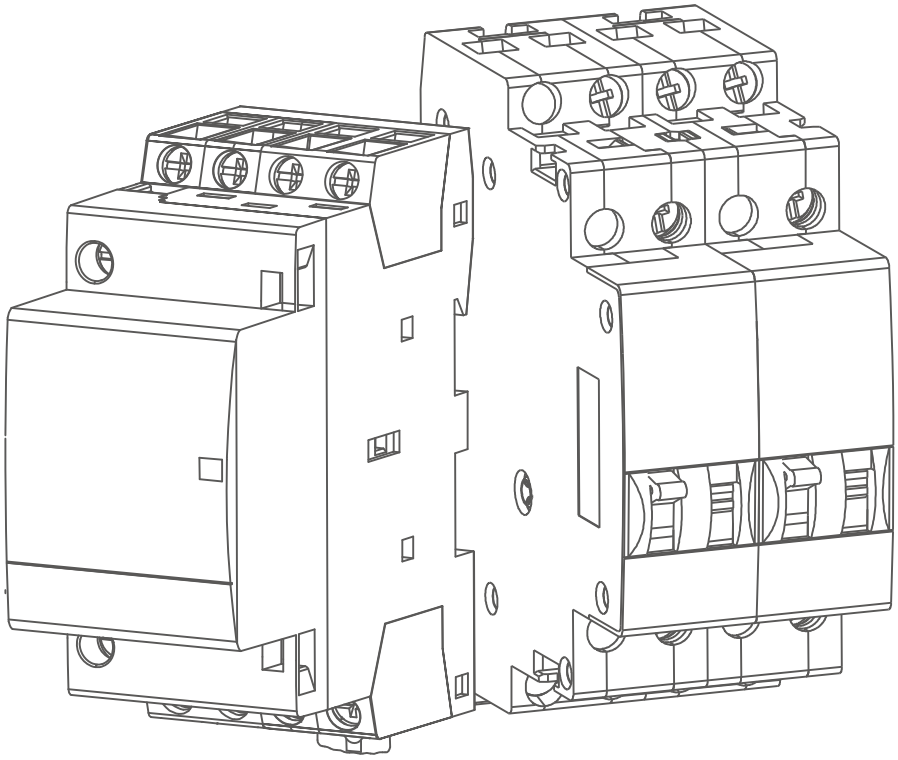
LETOP

Modular Contactor

BCH8 Series



WENZHOU LETOP ELECTRIC CO.,LTD.

Applicable scope

The BCH8 modular contactor (hereinafter referred to as contactor) is mainly suitable for AC 50Hz (or 60Hz), rated working voltage to 400V and rated current operation in the circuit up to 125A, it can control the low-inductance and low-inductance load of household appliances and similar purposes; it can also be used to control the load of household motors. The power should be reduced accordingly.

The BCH8 contactors according to standard IEC/EN61095 ， IEC60947-4-1 and are used mainly in buildings for switching and controlling lighting, heating, ventilation and pumps. They are part of the complete range of Din rail products and can be integrated easily in dedicated panels.

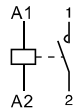
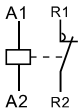
Modular contactor

BCH8- □□□/□□□

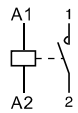
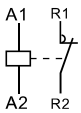
- Coil Voltage
- Normal Clos
- Normal Open
- M: Operation by Manual
- Current

(eg. BCH8-25/20 230V . It is 25A , 2NO ,230V AC current coil voltage)

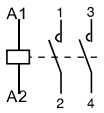
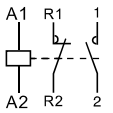
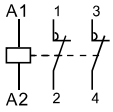
AC 1P,1modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-16/10	16A	6A	24 110 230	
BCH8-20/10	20A	7A		
BCH8-25/10	25A	9A		
BCH8-16/01	16A	6A	24 110 230	
BCH8-20/01	20A	7A		
BCH8-25/01	25A	9A		

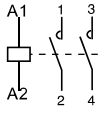
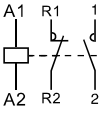
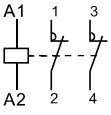
AC 1P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-32/10	32A	12A	24 110 230	
BCH8-40/10	40A	18A		
BCH8-63/10	63A	25A		
BCH8-32/01	32A	12A	24 110 230	
BCH8-40/01	40A	18A		
BCH8-63/01	63A	25A		

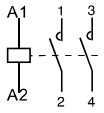
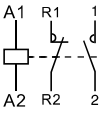
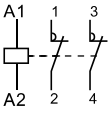
AC 2P,1modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-16/20	16A	6A	24 110 230	
BCH8-20/20	20A	7A		
BCH8-25/20	25A	9A		
BCH8-16/11	16A	6A	24 110 230	
BCH8-20/11	20A	7A		
BCH8-25/11	25A	9A		
BCH8-16/02	16A	6A	24 110 230	
BCH8-20/02	20A	7A		
BCH8-25/02	25A	9A		

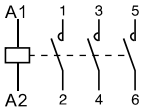
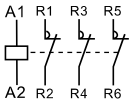
AC 2P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-32/20	32A	12A	24 110 230	
BCH8-40/20	40A	18A		
BCH8-63/20	63A	25A		
BCH8-32/11	32A	12A	24 110 230	
BCH8-40/11	40A	18A		
BCH8-63/11	63A	25A		
BCH8-32/02	32A	12A	24 110 230	
BCH8-40/02	40A	18A		
BCH8-63/02	63A	25A		

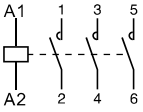
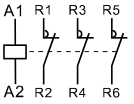
AC 2P,3modules

Contactor Model	Ie Rating AC-1	Ie Rating AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-80/20	80A	32A	24 110 230	
BCH8-100/20	100A	40A		
BCH8-125/20	125A	50A		
BCH8-80/11	80A	32A	24 110 230	
BCH8-100/11	100A	40A		
BCH8-125/11	125A	50A		
BCH8-80/02	80A	32A	24 110 230	
BCH8-100/02	100A	40A		
BCH8-125/02	125A	50A		

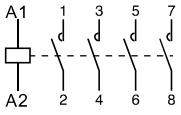
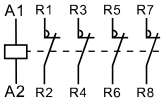
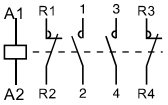
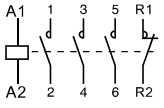
AC 3P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-16/30	16A	6A	24 110 230 380	
BCH8-20/30	20A	7A		
BCH8-25/30	25A	9A		
BCH8-16/03	16A	6A	24 110 230 380	
BCH8-20/03	20A	7A		
BCH8-25/03	25A	9A		

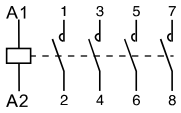
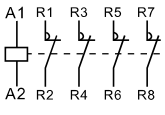
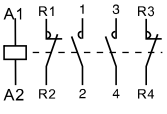
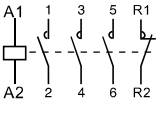
AC 3P,3modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-32/30	32A	12A	24 110 230 380	
BCH8-40/30	40A	18A		
BCH8-63/30	63A	25A		
BCH8-32/03	32A	12A	24 110 230 380	
BCH8-40/03	40A	18A		
BCH8-63/03	63A	25A		

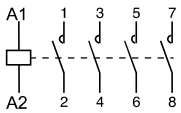
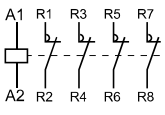
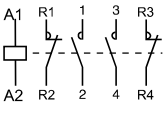
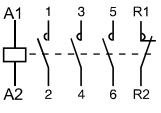
AC 4P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-16/40	16A	6A	24 110 230 380	
BCH8-20/40	20A	7A		
BCH8-25/40	25A	9A		
BCH8-16/04	16A	6A	24 110 230 380	
BCH8-20/04	20A	7A		
BCH8-25/04	25A	9A		
BCH8-16/22	16A	6A	24 110 230 380	
BCH8-20/22	20A	7A		
BCH8-25/22	25A	9A		
BCH8-16/31	16A	6A	24 110 230 380	
BCH8-20/31	20A	7A		
BCH8-25/31	25A	9A		

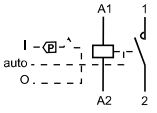
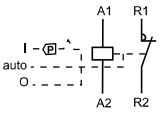
AC 4P,3modules

Contactor Model	Ie Rating		Uc (V AC)(50Hz)	Circuit Diagram
	AC-7a AC-1	AC-7b AC-3		
BCH8-32/40	32A	12A	24 110 230 380	
BCH8-40/40	40A	18A		
BCH8-63/40	63A	25A		
BCH8-32/04	32A	12A	24 110 230 380	
BCH8-40/04	40A	18A		
BCH8-63/04	63A	25A		
BCH8-32/22	32A	12A	24 110 230 380	
BCH8-40/22	40A	18A		
BCH8-63/22	63A	25A		
BCH8-32/31	32A	12A	24 110 230 380	
BCH8-40/31	40A	18A		
BCH8-63/31	63A	25A		

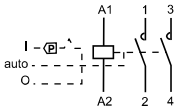
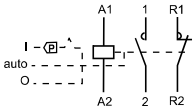
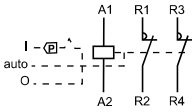
AC 4P,6modules

Contactor Model	Ie Rating		Uc (V AC)(50Hz)	Circuit Diagram
	AC-1	AC-3		
BCH8-80/40	80A	32A	24 110 240	
BCH8-100/40	100A	40A		
BCH8-125/40	125A	50A		
BCH8-80/04	80A	32A	24 110 240	
BCH8-100/04	100A	40A		
BCH8-125/04	125A	50A		
BCH8-80/22	80A	32A	24 110 240	
BCH8-100/22	100A	40A		
BCH8-125/22	125A	50A		
BCH8-80/31	80A	32A	24 110 240	
BCH8-100/31	100A	40A		
BCH8-125/31	125A	50A		

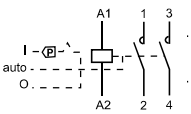
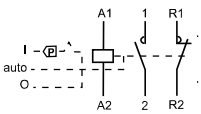
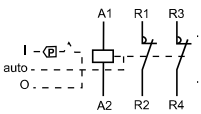
AC 1P,1modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-16M/10	16A	6A	24 110 230	
BCH8-20M/10	20A	7A		
BCH8-25M/10	25A	9A		
BCH8-16M/01	16A	6A	24 110 230	
BCH8-20M/01	20A	7A		
BCH8-25M/01	25A	9A		

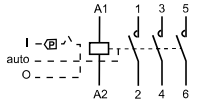
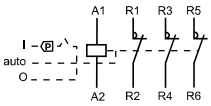
AC 2P,1modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-16M/20	16A	6A	24 110 230	
BCH8-20M/20	20A	7A		
BCH8-25M/20	25A	9A		
BCH8-16M/11	16A	6A	24 110 230	
BCH8-20M/11	20A	7A		
BCH8-25M/11	25A	9A		
BCH8-16M/02	16A	6A	24 110 230	
BCH8-20M/02	20A	7A		
BCH8-25M/02	25A	9A		

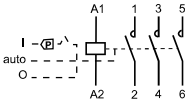
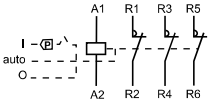
AC 2P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-32M/20	32A	12A	24 110 230	
BCH8-40M/20	40A	18A		
BCH8-63M/20	63A	25A		
BCH8-32M/11	32A	12A	24 110 230	
BCH8-40M/11	40A	18A		
BCH8-63M/11	63A	25A		
BCH8-32M/02	32A	12A	24 110 230	
BCH8-40M/02	40A	18A		
BCH8-63M/02	63A	25A		

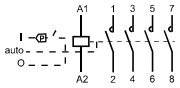
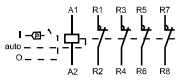
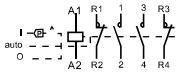
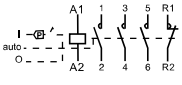
AC 3P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-16M/30	16A	6A	24 110 230 380	
BCH8-20M/30	20A	7A		
BCH8-25M/30	25A	9A		
BCH8-16M/03	16A	6A	24 110 230 380	
BCH8-20M/03	20A	7A		
BCH8-25M/03	25A	9A		

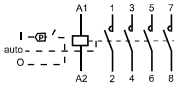
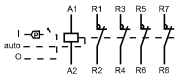
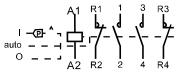
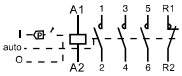
AC 3P,3modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-32M/30	32A	12A	24 110 230 380	
BCH8-40M/30	40A	18A		
BCH8-63M/30	63A	25A		
BCH8-32M/03	32A	12A	24 110 230 380	
BCH8-40M/03	40A	18A		
BCH8-63M/03	63A	25A		

AC 4P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-16M/40	16A	6A	24 110 230 380	
BCH8-20M/40	20A	7A		
BCH8-25M/40	25A	9A		
BCH8-16M/04	16A	6A	24 110 230 380	
BCH8-20M/04	20A	7A		
BCH8-25M/04	25A	9A		
BCH8-16M/22	16A	6A	24 110 230 380	
BCH8-20M/22	20A	7A		
BCH8-25M/22	25A	9A		
BCH8-16M/31	16A	6A	24 110 230 380	
BCH8-20M/31	20A	7A		
BCH8-25M/31	25A	9A		

AC 4P,3modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc (V AC)(50Hz)	Circuit Diagram
BCH8-32M/40	32A	12A	24 110 230 380	
BCH8-40M/40	40A	18A		
BCH8-63M/40	63A	25A		
BCH8-32M/04	32A	12A	24 110 230 380	
BCH8-40M/04	40A	18A		
BCH8-63M/04	63A	25A		
BCH8-32M/22	32A	12A	24 110 230 380	
BCH8-40M/22	40A	18A		
BCH8-63M/22	63A	25A		
BCH8-32M/31	32A	12A	24 110 230 380	
BCH8-40M/31	40A	18A		
BCH8-63M/31	63A	25A		

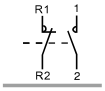
AC Modular contactor power consumption

Poles	Ie Rating AC-7a	Ie Rating AC-7b	Uc (VAC)(50Hz)	Power consumption Hold on	Power consumption Pull in	Max Power
1P	16A	6A	230	2.8VA	11.5VA	1.2W
	20A	7A	230	2.8VA	11.5VA	1.2W
	25A	9A	230	2.8VA	11.5VA	1.2W
2P	16A	6A	230	2.8VA	11.5VA	1.2W
	20A	7A	230	2.8VA	11.5VA	1.2W
	25A	9A	24	3.0VA	11.5VA	1.3W
			230	2.8VA	11.5VA	1.2W
	32A	12A	230	4.1VA	31VA	1.6W
	40A	18A	230	4.1VA	31VA	1.6W
	63A	25A	230	4.1VA	31VA	1.6W
	100A	-	230	4.1VA	31VA	2.1W
3P	16A	6A	230	4.1VA	31VA	1.6W
	20A	7A	230	4.1VA	31VA	1.6W
	25A	9A	230	4.1VA	31VA	1.6W
	32A	12A	230	7VA	48VA	2.1W
	40A	18A	230	7VA	48VA	2.1W
	63A	25A	230	7VA	48VA	2.1W
4P	16A	6A	230	4.1VA	31VA	1.6W
	20A	7A	230	4.1VA	31VA	1.6W
	25A	9A	24	4.8VA	33VA	1.6W
			230	4.1VA	31VA	1.6W
	32A	12A	230	7VA	48VA	2.1W
	40A	18A	230	7VA	48VA	2.1W
	63A	25A	230	7VA	48VA	2.1W
	100A	-	230	13VA	106VA	4.2W

Modular contactor auxiliary

Auxiliary Contacts

The Auxiliary contacts are indicator contactor contacts status switch OFF or ON

	AC-12		AC-15		DC-13		Rated Current	Circuit Diagram
	C.V.	C.A.	C.V.	C.A.	C.V.	C.A.		
BCH8-AUC11	240V	5A	230V	2A	DC 130V	1A	5A	
BCH8-AUC20	240V	5A	230V	2A	DC 130V	1A	5A	

Spacing piece

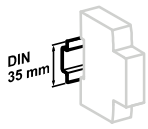
Spacers are used to reduce the temperature rise of devices mounted side by side. It is recommended to separate electronic equipment (temperature adjustment devices, programmable timer etc.) from electromechanical equipment (impulse relays, contactors)

	Technical specifications
Spacing piece	3mm Spacing piece
	9mm Spacing piece

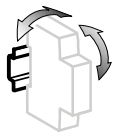
Main parameter and technical performance

Power circuit		
Voltage rating(Ue)	1P,2P	250V AC
	3P,4P	400V AC
Frequency		50/60Hz
Endurance(O-C)		1,000,000 cycles
Electrical		100,000 cycles
Maximum number of switching operation a day		100
Insulation vwltage(Ui)		500 V AC
Pollution degree		2
Rated impulse withstand voltage(Uimp)		2.5kV(4kV for 12/24/48VAC)
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature		-5℃~+60℃
Storage temperature		-40℃~+70℃
Tropicalization(IEC 60068.1)		Treatment 2 (relative humidity 95% at 55℃
ELSV compliance(Extra Low Safety Voltage)for 12/24/48vac versions		
The product control conforms to the SELV(safety extra low voltage)requirements		

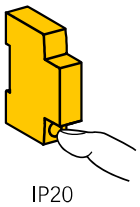
(1)In the case of contactor mounting in a enclosure for which the interior temperature is in range detween 50 ℃ and 60 ℃,it is necessary to use a spacer, between each contactor



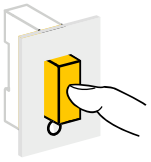
Clip on DIN rail 35 mm



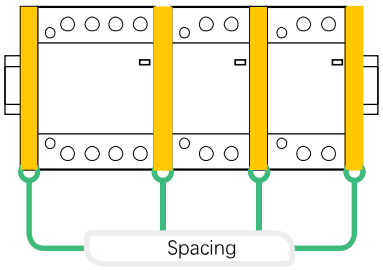
±30°vertical.



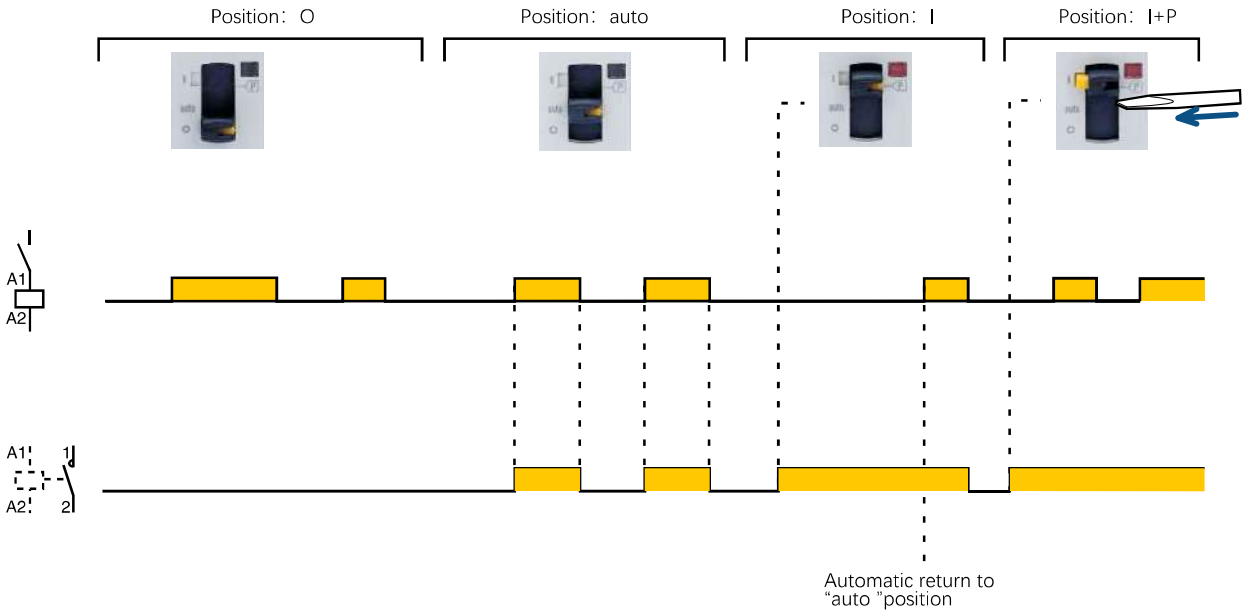
IP20



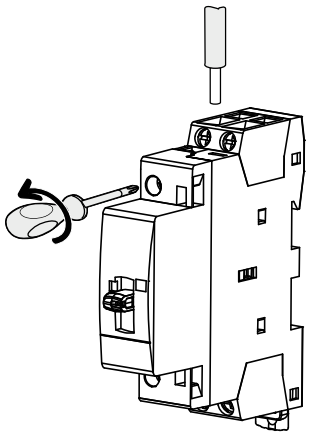
IP40



Operation(Manual control contactor)



Connection parameter



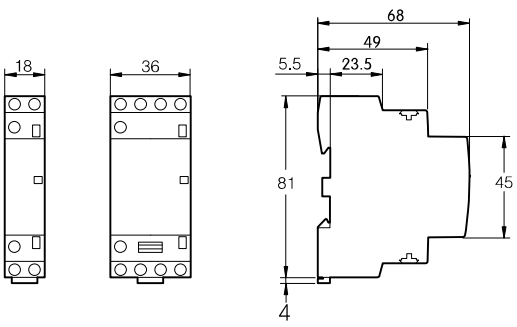
Type		Rating	Lenght tripping	Circuit	Tightening torque	Copper cables	
						Rigid	Flexible or ferrule
BCH8	PZ1:4mm	16–100A	9mm	Control	0.8N.m	1.5~2.5mm² 2×1.5mm²	1.5~2.5mm² 2×2.5mm²
		16and25A		Power		1.5~6mm²	1~4mm²
	PZ2:6mm	40A–63A	14mm		3.5N.m	6~25mm²	6~16mm²
		100A				6~35mm²	6~35mm²
BACTs	PZ1:4mm	–	9mm	–	0.8N.m	1.5~2.5mm² 2×1.5mm²	1.5~2.5mm² 2×2.5mm²

Packing information

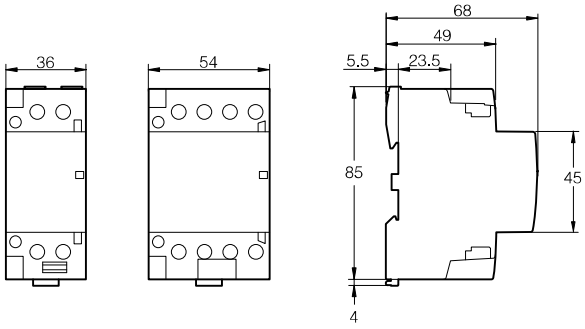
Poles	Rated Current (A)	BOX QTY	CTN QTY	Automatic Contactor		Manual Contactor		CARTON SIZE (mm)
				G.W.(kg)	N.W.(kg)	G.W.(kg)	N.W.(kg)	
AC 1P	16	12	120	16.3	14.1	16.3	14.1	500×260×190
	20	12	120	16.3	14.1	16.3	14.1	500×260×190
	25	12	120	16.3	14.1	16.3	14.1	500×260×190
AC 2P	16	12	120	16.3	14.1	16.3	14.1	500×260×190
	20	12	120	16.3	14.1	16.3	14.1	500×260×190
	25	12	120	16.3	14.1	16.3	14.1	500×260×190
	32	6	60	15.7	13.9	15.7	13.9	500×260×190
	40	6	60	15.7	13.9	15.7	13.9	500×260×190
	63	6	60	15.7	13.9	15.7	13.9	500×260×190
	100	4	40	13.6	12.7	–	–	500×260×190
AC 3P	16	6	60	14.2	12.4	14.2	12.4	500×260×190
	20	6	60	14.2	12.4	14.2	12.4	500×260×190
	25	6	60	14.2	12.4	14.2	12.4	500×260×190
	32	4	40	15.0	13.3	15.0	13.3	500×260×190
	40	4	40	15.0	13.3	15.0	13.3	500×260×190
	63	4	40	15.0	13.3	15.0	13.3	500×260×190
AC 4P	16	6	60	14.2	12.3	13.9	12.3	500×260×190
	20	6	60	14.2	12.3	13.9	12.3	500×260×190
	25	6	60	14.2	12.3	13.9	12.3	500×260×190
	32	4	40	15.0	13.3	15.0	13.3	500×260×190
	40	4	40	15.0	13.3	15.0	13.3	500×260×190
	63	4	40	15.0	13.3	15.0	13.3	500×260×190
	100	2	30	20.1	18.8	–	–	500×260×190
DC 2P	16	12	120	16.3	14.1	16.3	14.1	500×260×190
	20	12	120	16.3	14.1	16.3	14.1	500×260×190
	25	12	120	16.3	14.1	16.3	14.1	500×260×190
AC/DC 2P	32	6	60	15.7	13.9	15.7	13.9	500×260×190
	40	6	60	15.7	13.9	15.7	13.9	500×260×190
	63	6	60	15.7	13.9	15.7	13.9	500×260×190
AC/DC 4P	16	6	60	14.2	12.4	14.2	12.4	500×260×190
	20	6	60	14.2	12.4	14.2	12.4	500×260×190
	25	6	60	14.2	12.4	14.2	12.4	500×260×190
	32	4	40	15.0	13.3	15.0	13.3	500×260×190
	40	4	40	15.0	13.3	15.0	13.3	500×260×190
	63	4	40	15.0	13.3	15.0	13.3	500×260×190
AC/DC 4P (Duplex Winding)	32	4	40	15.0	13.3	15.0	13.3	500×260×190
	40	4	40	15.0	13.3	15.0	13.3	500×260×190
	63	4	40	15.0	13.3	15.0	13.3	500×260×190

Type	Box Qty	CTN Qty	G.W.(kg)	N.W.(kg)	Carton Size (mm)
Auxiliary Contacts	12	120	5.56	3.96	500×260×190
3mm Spacing piece	72	720	5.56	3.36	500×260×190
9mm spacing piece	24	360	6.38	5.18	455×230×240

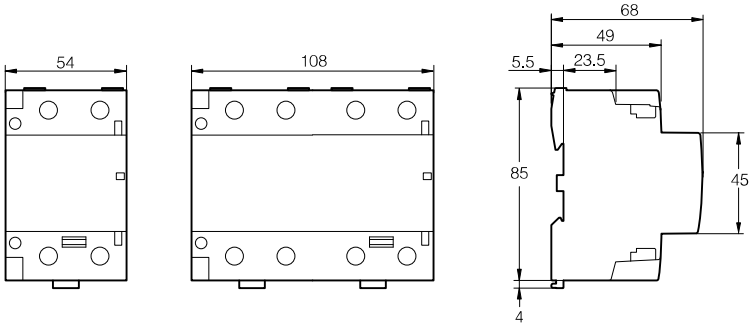
Product dimensions (mm)



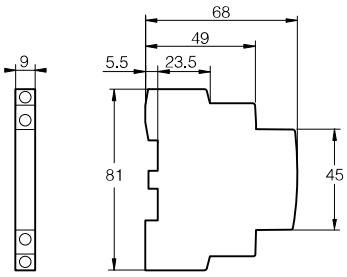
BCH8-16/20/25A



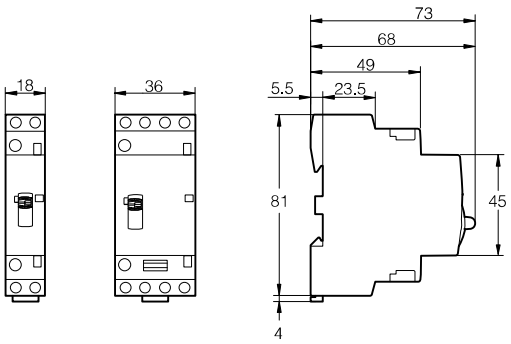
BCH8 32/40/63A



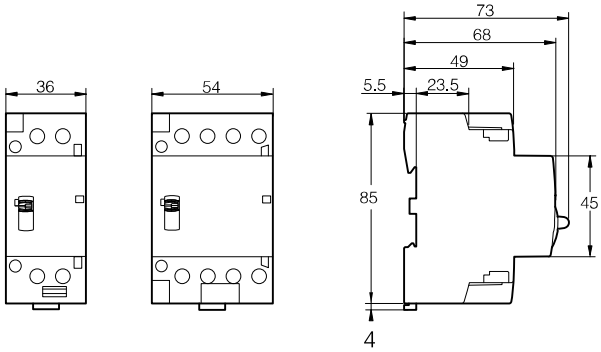
BCH8 100A



BACTs



BCH8 Manual Contactor16/20/25A



BCH8 Manual Contactor 32/40/63A