HHC68BZL-2Z(HH52P)

Model comparison

General model	HH52P	Omron	MY2IN
Schneider	RXM2BD	IDEC	RU2S
ABB	CR-M 2L	Weidmuller	DRM 2COLT
SongChuan	SCLB-LM	Forward	JZX-18FFL 2C

Product Overview

C-Lin HHC68B (HH52P, MY2) series general electromagnetic relays adopt dust-free workshop processing technology and automated production lines, with excellent material selection, high-quality silver alloy contacts, superior copper materials, components and raw materials that meet ROHS standards, international standard sizes and installation methods. They have the advantages of high capacity, strong sensitivity, good durability, internal dustproof, and long life. They are widely used in household appliances, PCB circuit boards, industrial control systems, automation control systems and other fields.

Product Features

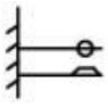
1. 6.5A load switching capability
2. Standard socket lead pins
3. Products that meet IEC60335-1 standards can be provided
4. Meet ROHS requirements

Model Description

HHC68B Z _ L - 2Z 6.5A DC12V
① ② ③ ④ ⑤ ⑥ ⑦

① Product model: HHC68B
② Product type:
Z-rotary type T-buckle type S-sealed type
F-flange type V-cover type U-thin cover plate None-conventional
③ Foot position: None: wide foot P: pointed foot
④ Function: L: with light None: without light
⑤ Contact form:
2H= 2 groups of normally open type H;
2D= 2 groups of normally closed type D;
2Z= 2 groups of conversion type Z
⑥ Contact load: 6.5A
⑦ Coil voltage: refer to coil parameters

Contact form description

Name	Domestic Code	International Code	Structure
Normally Open Type	H	A	
Normally Closed Type	D	B	
Conversion Type	Z	C	

Normally open type: the contacts are disconnected when the coil is not energized, and the contacts are closed when energized.
Normally closed type: the contacts are closed when the coil is not energized, and the contacts are disconnected when energized.
Conversion type: the middle is the moving contact. When the coil is not energized, the moving contact and one of the static contacts are disconnected and the other is closed. When the coil is energized, the moving contact moves, making the originally disconnected state closed and the originally closed state disconnected, achieving the purpose of conversion.

Coil parameters

Coil rated voltage DC(V)	Coil resistance ±10%(Ω)	Action voltage	Release voltage	Coil allowable voltage range	Nominal coil power (VA)
		Percentage of rated voltage			
6	40	≤75%	≥10%	90%～130%	0.9W
12	160				
24	640				
48	2560				
110	13400				
220	53777				

Coil rated voltage AC(V)	Coil resistance ±10%(Ω) (Rectifier type)	Action voltage	Release voltage	Coil allowable voltage range	Nominal coil power (VA) (Rectifier type)
		Percentage of rated voltage			
6	10.5	≤80%	≥30%	90%～130%	1.2VA
12	42				
24	168				
48	672				
110	3529				
380	42116				
220	18021				0.94VA

Contact parameters

Contact type	2C(Z)-Changeover 2A(H)-Normally Open 2B(D)-Normally Closed
Contact resistance	Less than 100mΩ (at 6VDC 1A)
Contact material	Silver alloy
Contact load rating	6.5A 240VAC
Maximum switching voltage	240VAC/28VDC
Maximum switching current	6.5A
Maximum switching power	1560VA/182W
Minimum switching load	5V 10mA
Electrical durability	Resistive load, more than 100,000 times
Mechanical durability	More than 10 million

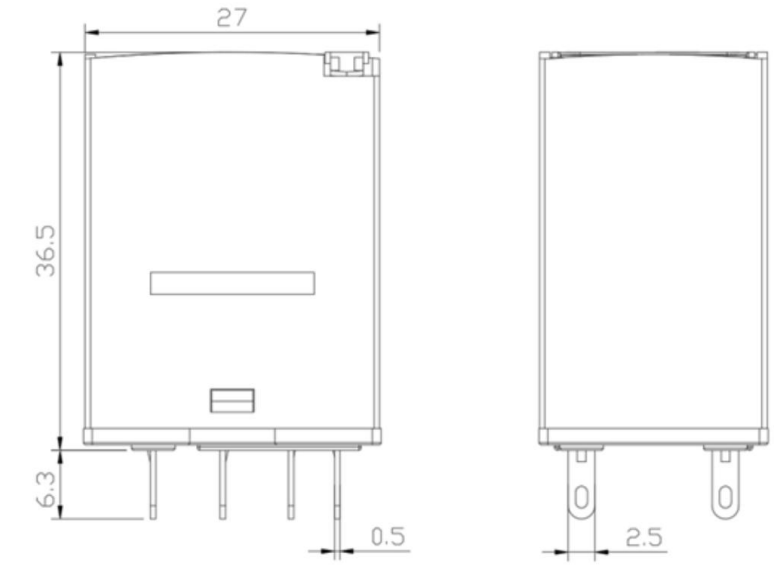
Characteristics parameters

Action time (at rated voltage)		≤20ms
Release time (at rated voltage)		≤20ms
Insulation resistance		1000MΩ (500VDC)
Dielectric withstand voltage (leakage current 1mA)	Between coil and contact	1500VAC (1 minute) leakage current 1mA.
	Between disconnected contacts	1000VAC (1 minute) leakage current 1mA.
	Between opposite pole contacts	1000VAC (1 minute) leakage current 1mA.
Vibration characteristics	Malfunction	Amplitude 1mm, 10~55Hz
	Vibration durability	Amplitude 1mm, 10~55Hz
Shock characteristics	Malfunction	Maximum acceleration 98m/s² Duration 11ms
	Shock durability	Maximum acceleration 980m/s² Duration 6ms
Ambient temperature		-40°C~85°C
Relative humidity		5%~ 85% RH
Terminal structure		PCB welding terminal, socket terminal
Protective structure		Dustproof type
Weight		About 32g

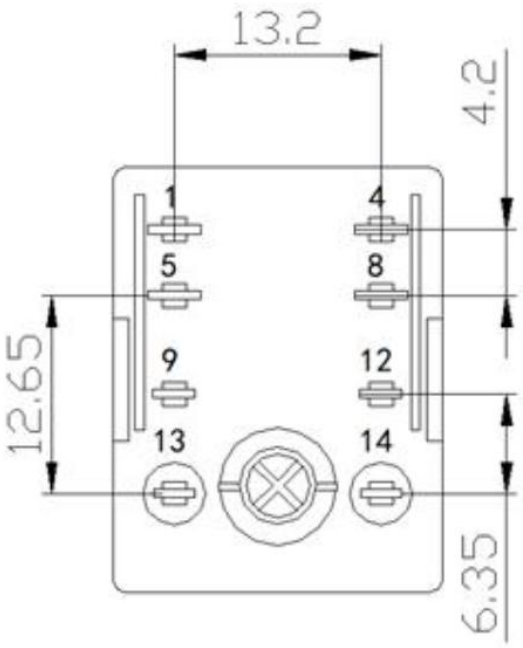
Dimensions, mounting holes and wiring diagram (unit: mm)

Dimensions:

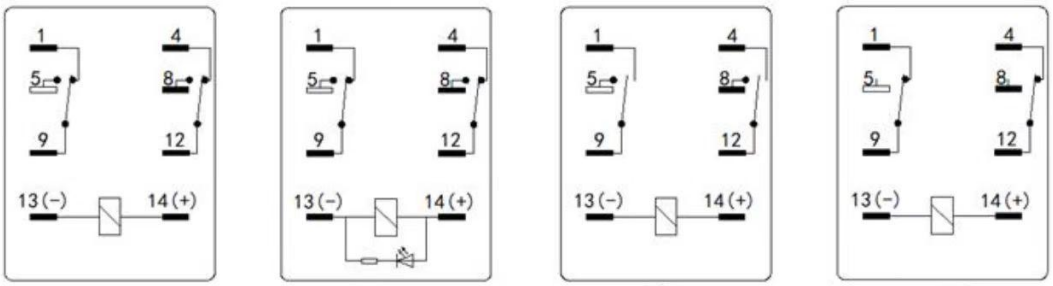
68BZL-2Z:



Mounting hole size (bottom view):



Wiring diagram (bottom view):



2Z 2Z (With light) 2H 2D

Notes:

(1) The dimension tolerance is not marked for some product dimensions. When the dimension is ≤1mm, the tolerance is ±0.1; when the dimension is between 1-3mm, the tolerance is ±0.2; when the dimension is >3mm, the tolerance is ±0.3.

(2) The dimension tolerance is not specified for the mounting hole dimension, which is ±0.1.

Safety Certification

Certification	CQC	UL	TUV	CE
Certificate No.	NO.CQC14002105333	E235027	R 50260442	M.2023.206.C91028
Load requirement	277VAC/30VDC	240VAC/28VDC	277VAC/30VDC	277VAC/30VDC

Product packaging specifications

Product model	Inner packaging	Carton specifications: Length* Width*Height (mm)	Total Quantity	Net Weight (Kg)	Gross Weight (Kg)
HHC68BZL-2Z	Blister Box	330*310*345	600	19.2	20.2

Selection Guide

Unless otherwise specified, all load currents marked on the housing of C-Lin relays are resistive loads. Under rated switching voltage, the allowable current of inductive loads should not exceed 30% of the rated resistive load, the allowable current of motor loads should not exceed 20% of the rated resistive load, the allowable current of lamp loads should not exceed 10% of the rated resistive load, and the allowable current of capacitive loads should not exceed 5% of the rated resistive load. For the reliability of the actual use of the product, it is recommended to select a contact load current value that does not exceed 60% to 70% of the steady-state current value of the product under rated load.

The reference values of the impact current under different load types are shown in the following table:

Load properties	Surge current
Resistive load	1 times the steady-state current
Sodium lamp load	1 to 3 times the steady-state current
Mercury lamp load	3 times the steady-state current
Inductive load	3 to 5 times the steady-state current
Motor load	3 to 5 times the steady-state current
Transformer load	3 to 5 times the steady-state current
Incandescent lamp load	3 to 5 times the steady-state current
Capacitive load	3 to 5 times the steady-state current

Precautions

① Do not touch the relay terminal part and the connected electrical accessories when the power is on. Please cut off the power supply when installing, maintaining, and troubleshooting the relay (including terminal blocks, sockets and other connecting parts). If you need technical support, please contact Xinling Electrical Service Center.
② Do not use the relay beyond the rated load. Overload may cause insulation degradation, contact adhesion, poor contact and other faults, and even cause the relay itself to break and burn. If you need technical support, please contact Xinling Electrical Service Center.
③ During storage and use of the product, please avoid dropping it and do not disassemble the internal components to avoid damage, burning and electric shock. If you need technical support, please contact Xinling Electrical Service Center.
④ Do not use it in environments with flammable or explosive gases, and avoid using it in places with water, steam, melting after ice, or water dripping. If you need technical support, please contact Xinling Electrical Service Center.
⑤ Unless otherwise specified, the rated performance values in the product data are all values under the standard test conditions of JIS C5442 (temperature +15℃～+35℃, relative humidity 25%～75%, air pressure 86KPa～106KPa). When using it on actual equipment, in addition to the load conditions, the use environment must also be confirmed under the same conditions as the actual use conditions. If you need technical support, please contact Xinling Electrical Service Center.
⑥ The relay coil has polarity (positive and negative poles are marked on the circuit diagram). When connecting the terminals, please refer to the wiring diagram and then connect them correctly. It is strictly forbidden to connect them in reverse. If the connection is wrong, it will cause malfunction, abnormal heating, fire, etc. If you need technical support, please contact Xinling Electrical Service Center.
⑦ Avoid continuously applying voltage to the coil that exceeds the maximum switching voltage. If you need technical support, please contact Xinling Electrical Service Center.
⑧ For more technical questions, please consult our service center. Consultation phone: 86 157 0676 2014

Statement

This product specification is for reference only when used by customers. If there is any change, we will not notify you separately. It is impossible for our company to evaluate all the performance parameter requirements of relays in each specific application field. Therefore, customers should choose matching products according to specific usage conditions. If you have any questions, please contact our company for more technical support, but the responsibility for product selection lies solely with the customer.