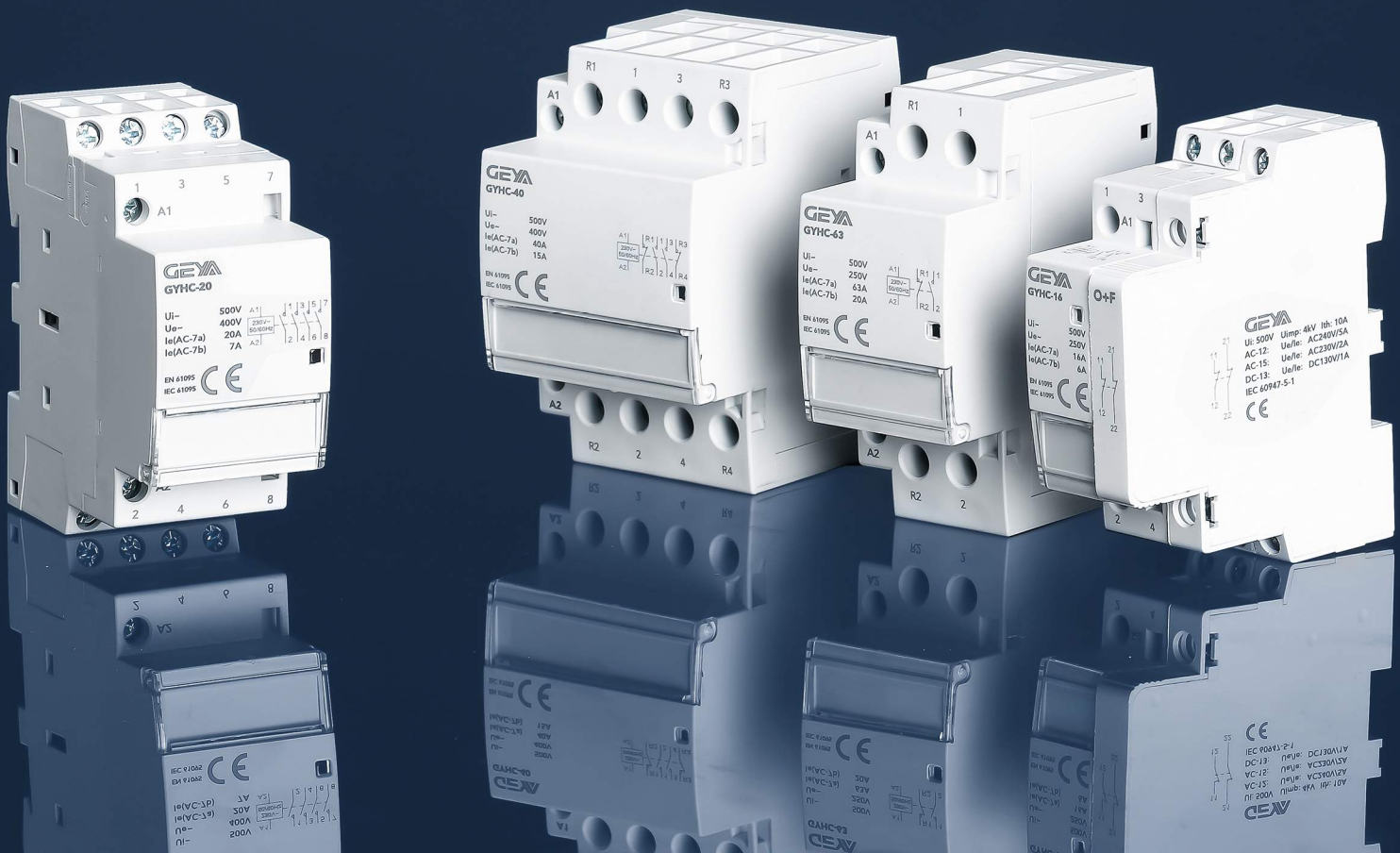
# GYHC系列

# 模数化接触器

GYHC SERIES MODULAR CONTACTOR



电气寿命

10+ 万次

机械寿命

1200+ 万次

## 低功耗

GYHC系列模数化接触器优化电磁系统，极大降低接触器吸持功率，改善传统接触器能耗高的问题。

### Low power consumption

The GYHC series modular contactor optimizes the electromagnetic system, greatly reducing the holding power of the contactor, and completely solving the problem of high energy consumption of traditional contactors.

## 低噪音

GYHC系列模数化接触器全新设计,提升产品可靠性，60%生产过程采用自动化，全程关键工序自动化监控，从设计和制程上消除传统接触器在工作中遇到的噪音问题。

### Low noise

GYHC series modular contactor adopts a new design to improve product reliability. 60% of the production process is automated, and key processes throughout the process are monitored automatically. Eliminate the noise problems encountered in the operation of traditional contactors from the design and manufacturing process.

## 超长寿命

电气寿命大于 100000 次

机械寿命大于 12000000 次

### Super long life

Electrical life greater than 100,000 times

Mechanical life is more than 12,000,000 times

## 专业设计

专业的功能分析、公差分析、仿真分析,保证产品设计的合理性和可靠性和一致性。

**PROFESSIONAL DESIGN**

Professional function analysis, tolerance analysis and simulation analysis ensure the rationality, reliability and consistency of product design.

## 尖端设备

60%自动化生产线,关键工序自动化生产,全程监测。

**CUTTING-EDGE EQUIPMENT**

60% automated production line, key processes automated production, full process monitoring.

## 3D设计&仿真分析

3D打印、仿真分析、公差分析等先进技术全面用于产品研发

### 3D Design & Simulation Analysis

Advanced technologies such as 3D design, 3D printing, tolerance analysis and simulation analysisare used for product development

## 型号规格丰富

2个使用类别,4款控制电压,6段电流规格,11种触头型式,满足不同细分市场的需求

### Rich model specifications

The modular contactors have 2 use categories, 4 control voltages, 6-segment current specifi cations and 11 contact types to meet the needs of different market segments

## 透明翻盖设计

全新透明翻盖设计,便于客户标识

### Transparent flip cover design

Transparent flip cover designNew transparent flip cover design for easy customer identification




## 高端选材&RoHS标准

定制塑料,品牌银点,高端工艺,环保安全符合RoHS

### Finest material selection & Standard

Custom plastic, brand silver point, elite craft, RoHS compliant

## 可视化窗口

指示窗口,可指示接触器通断状态,让产品动作一目了然

### Visualization window

The instruction window can indicate the on-off state of the contactor, make product action clear at a glance

## 激光打标

激光打标,永不脱落

### Laser marking

Laser marking, never fall off







## 产品概述 Product Overview

GYHC系列模数化交流接触器采用全新技术平台，应用自动化生产及检测设备，打造超静音长寿命的高端接触器。

The GYHC series modular contactor uses a new technology platform and apply automated production and testing equipment to create advanced ultra-quiet and long-life contactors.

- GYHC接触器可用于远程控制:
  - 照明，加热，通风，卷帘，公共热水
  - 机械通风系统等
  - 低感微感负载环境

- GYHC contactor can be used for remote control:
  - Lighting, heating, ventilation, rolling curtains, public hot water
  - Mechanical ventilation system, etc
  - Low inductive micro-inductive load environment

## 产品命名规则 Product Naming Rules

| GYHC | 8 | — | 16 | 10 | AC230 | Z |
|---|---|---|---|---|---|---|
| 1 | 2 | | 3 | 4 | 5 | 6 |

1 模数化交流接触器 Modularization AC Contactor

2 设计序号 Design Serial Number

3 额定电流 Rated Current
16A/20A/25A/32A/40A/63A

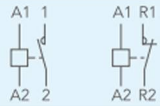
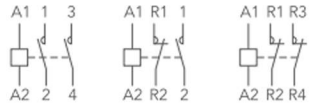
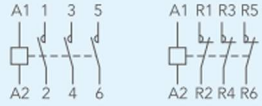
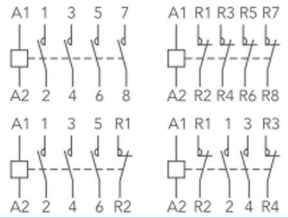
4 触头型式 Contactor Type
1P 10:1NO/01:1NC
2P 20:2NO/11:1NO+1NC/02:2NC
3P 30:3NO/03:3NC
4P 40:4NO/31:3NO+1NC/22:2NO+2NC/04:4NC

5 线圈电压 Control Voltage
AC24V/AC48V/AC110V/AC230V/DC12V/DC24V

6 直流操作 DC Control Circuit

# 技术参数 Technical Parameters

## GYHC接触器-50/60Hz
GYHC Contact-50/80Hz

| 类型 Type | 额定电流(In) Rated current | | 控制电压(V) Control voltage (V) | 触点 Contact | 宽度 (9mm的倍数) Multiple Of The Width Of The Module |
|---|---|---|---|---|---|
| | AC-7a | AC-7b | | | |
| 1P   | 16A | 6A | AC(50/60Hz): 24V/48V/110V/230V DC:12V/24V | 1NO 1NC | 2 |
| | 20A | 7A | | | |
| | 25A | 9A | | | |
| 2P   | 16A | 6A | AC(50/60Hz): 24V/48V/110V/230V DC:12V/24V | 2NO 2NC 1NO1NC | 2 |
| | 20A | 7A | | | |
| | 25A | 9A | | | |
| | 32A | 12A | | | 4 |
| | 40A | 15A | | | |
| | 63A | 20A | | | |
| 3P   | 16A | 6A | AC(50/60Hz): 24V/48V/110V/230V DC:12V/24V | 3NO 3NC | 4 |
| | 20A | 7A | | | |
| | 25A | 9A | | | |
| | 32A | 12A | | | 6 |
| | 40A | 15A | | | |
| | 63A | 20A | | | |
| 4P   | 16A | 6A | AC(50/60Hz): 24V/48V/110V/230V DC:12V/24V | 4NO 4NC 2NO2NC 3NO1NC | 4 |
| | 20A | 7A | | | |
| | 25A | 9A | | | |
| | 32A | 12A | | | 6 |
| | 40A | 15A | | | |
| | 63A | 20A | | | |

## 接线
Wiring

| 类型 Type | | | 额定电流(In) Rated current | 剥线长度 Wire stripping Length | 电路 Circuit | 扭矩 Torque | 铜线 Copper wire | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | 硬线 Hard wire | 软线或箍线端子 Soft wire or hoop wire terminal |
| | | | | | | |  |  |
|  | GYHC | PZ1:4mm | 16-63A | 9mm | 控制回路 Control circuit | 1.2N·m | 1.5~2.5mm:2×1.5mm² | 1.5~2.5mm:2×1.5mm² |
| | | | 16-25A | | 动力回路 Power circuit | | 1.5~6mm² | 1.5~4mm² |
| | | PZ2:6mm | 40-63A | 14mm | | 3.5N·m | 6~25mm² | 6~16mm² |
| | AS | PZ1:4mm | — | 9mm | — | 1.2N·m | 1.5~2.5mm:2×1.5mm² | 1.5~2.5mm:2×1.5mm² |

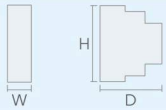
# 技术参数 Technical Parameters

| 主电路特性<br>Main Circuit Characteristics | | | |
|---|---|---|---|
| | 额定电压(Ue)<br>Rated operational voltage(Ue) | 1P/2P | 250V AC |
| | | 3P/4P | 400V AC |
| | 频率 Frequency | | 50Hz |
| **寿命(O-C)<br>Durability** | | | |
| | 电气寿命 Electrical durability | | 100000次 |
| | 每天最大开关操作次数<br>Maximu number of switching operation a day | | 100次 |
| **附加特性<br>Additional Characteristic** | | | |
| | 绝缘电压(Ui) Rated insulation voltage (Ui) | | 500V AC |
| | 污染等级 Pollution class | | 2 |
| | 额定冲击耐受电压(Uimp)<br>Rated impulse withstand voltage (Uimp) | | 4kV |
| | 防护等级(IEC/EN 60529)<br>Protection Grade(IEC/EN 60529) | 接触器本体<br>Contactor only | IP20 |
| | | 安装在配电箱内<br>Contactor in modular enclosure | IP40 |
| | 工作温度 Operating temperature | | -5°C~+60°C (1) |
| | 存储温度 Storage Temperature | | -40°C~+70°C |
| | 抗湿热性(IEC/EN 60068-1)<br>Tropicalization(IEC/EN 60068-1) | | 2类(温度55°C时，相对湿度为95%)<br>Treatment 2 (relative humidity 95% at 55°C) |
| | 认证<br>Certification | | CCC/CE |
| | ELSV(超低安全电压)符合12/24/48V AC 版本<br>ELSV compliance (extra low safety voltage) for 12/24/48V AC versions | | |
| | 产品控制符合SELV(超低安全电压)的要求<br>The product control conforms to the SELV(safety extra low voltage)requirments | | |
| | (1)当接触器安装在配电箱内时，其两侧必须拼装间隔件，以利于散热。<br>(1)In the case of contactor mounting in a enclosure for which the interior temperature is in range detween 50°C and 60°C. It is necessary to use a spacer between each contactor. | | |

| 功耗<br>Power Consumption | | | | | | |
|---|---|---|---|---|---|---|
| | 额定电流(In)<br>Rated current | | 控制电压(V AC)(50/60Hz)<br>Control voltage (V AC)(50/60Hz) | 功耗<br>Power consumption | | 最大功率<br>Max. Power |
| | AC-7a | AC-7b | | 保持<br>Holding | 吸合<br>Actuation | |
| 1P | 25A | 9A | 230…240 | 2.7VA | 9.2VA | 1.2W |
| 2P | 16A | 6A | 230…240 | 2.7VA | 9.2VA | 1.2W |
| | 20A | 7A | 230…240 | 2.7VA | 9.2VA | 1.2W |
| | 25A | 9A | 24 | 3.8VA | 15VA | 1.3W |
| | | | 230…240 | 2.7VA | 9.2VA | 1.2W |
| | | | 230…240 | 2.7VA | 9.2VA | 1.2W |

# 技术参数 Technical Parameters

| 功耗 Power Consumption | | | | | | |
|---|---|---|---|---|---|---|
| | 额定电流(In) Rated Current | | 控制电压(V AC)(50/60Hz) Control voltage (V AC)(50/60Hz) | 功耗 Power Consumption | | 最大功率 Max. Power |
| | AC-7a | AC-7b | | 保持 Holding | 吸合 Actuation | |
| 2P | 32A | 12A | 220…240 | 4.6VA | 34VA | 1.6W |
| | 40A | 15A | 220…240 | 4.6VA | 34VA | 1.6W |
| | 63A | 20A | 220…240 | 4.6VA | 34VA | 1.6W |
| 3P | 16A | 6A | 220…240 | 4.6VA | 34VA | 1.6W |
| | 20A | 7A | 220…240 | 4.6VA | 34VA | 1.6W |
| | 25A | 9A | 220…240 | 4.6VA | 34VA | 1.6W |
| | 32A | 12A | 220…240 | 6.5VA | 53VA | 2.1W |
| | 40A | 15A | 220…240 | 6.5VA | 53VA | 2.1W |
| | 63A | 20A | 220…240 | 6.5VA | 53VA | 2.1W |
| 4P | 16A | 6A | 220…240 | 4.6VA | 34VA | 1.6W |
| | 20A | 7A | 220…240 | 4.6VA | 34VA | 1.6W |
| | 25A | 9A | 24 | 4.6VA | 34VA | 1.6W |
| | | | 220…240 | 4.6VA | 34VA | 1.6W |
| | | | 24 | 4.6VA | 34VA | 1.6W |
| | | | 220…240 | 4.6VA | 34VA | 1.6W |
| | 32A | 12A | 220…240 | 6.5VA | 53VA | 2.1W |
| | 40A | 15A | 220…240 | 6.5VA | 53VA | 2.1W |
| | 63A | 20A | 220…240 | 6.5VA | 53VA | 2.1W |

| 外形尺寸 Dimensions | | GYHC-16A/20A/25A | | GYHC-32A/40A/63A | |
|---|---|---|---|---|---|
| | | 2P | 4P | 2P | 4P |
|   | W(mm) | 18 | 36 | 36 | 54 |
| | D(mm) | 68 | 68 | 68 | 68 |
| | H(mm) | 81 | 81 | 85 | 85 |

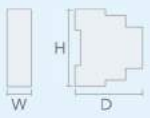
## 附件 Accessories




**O+F**

此附件用于指示接触器主触点“开”或“关”的状态。
This attachment is used to indicate the "on" or "off" state of the contactor's main contact

**外形尺寸 Dimensions**



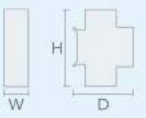

| | |
|---|---|
| W(mm) | 9 |
| D(mm) | 68 |
| H(mm) | 81 |



**GYHC-G**

用于安装于接触器两侧，利于接触器散热。
It is used to install on both sides of the contactor, which is good for the heat dissipation of the contactor.

**外形尺寸 Dimensions**




| | |
|---|---|
| W(mm) | 9 |
| D(mm) | 68 |
| H(mm) | 85 |

## 接触器选型表 Contactor Selection Table

| 产品名称 Product Name | 额定电流 Current Specification | 主触头触点 Main contact | 控制电压 Coil Frequency | 订货编码 Reference |
|---|---|---|---|---|
| GYHC | 16 | 10 | AC230 | GYHC81610AC230 |
| | 16:16A<br>20:20A<br>25:25A<br>32:32A<br>40:40A<br>63:63A | 10:1NO<br>01:1NC<br>20:2NO<br>02:2NC<br>11:1NO1NC<br>30:3NO<br>03:3NC<br>31:3NO1NC<br>22:2NO2NC<br>40:4NO<br>04:4NC | AC230V<br>AC110V<br>AC48V<br>AC24V<br>DC24V<br>DC12V | |