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GC2 系列 磁保持交流接触器 GC2 series Permanent Magnetic AC Contactor

● 磁保持节能交流接触器
Energy-Saving AC Contactor

● 磁保持防晃电交流接触器
Anti-Voltage Sag AC Contactor



温州光源电器有限公司
Wenzhou Guangyuan Electric Co., Ltd.

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适用范围

GC2 系列磁保持交流接触器，分节能交流接触器和防晃电交流接触器（以下简称本产品），主要用于交流 50Hz（或 60Hz），额定工作电压至 690V，在 AC-3、400(380)V 使用类别下额定工作电流至 120A 的电路中，供远距离接通和分断电路之用，并可适当的与热过载继电器组成电磁起动器以保护可能发生操作过负荷的电路，本产品适宜于频繁地起动和控制交流电动机。晃电（延时 1-3 秒）交流接触器是在特殊场合下使用。本产品只做 40A 以上的接触器，40A 以下与 CJX2 交流接触器同款。CJX2 交流接触器有关附件都适合用在本产品上，安装尺寸与 CJX2 交流接触器一样。符合标准：IEC60947-4-1, GB14048.4, GB 21518-2022。

结构特点

本产品与 CJX2 交流接触器工作原理是一样的，其不同点是在 CJX2 接触器上端增加一个磁保持脱扣器联动机构。该机构由：（1）磁保持脱扣器；（2）电子线路板控制系统；（3）联动脱扣机构三部分组成。当接触器工作通电时，联动机构锁住触头，磁保持脱扣器线圈替代接触器本体线圈工作，失电时，磁保持脱扣器释放驱动联动机构开锁达到断开目的，从而完成接触器通断的功能。



Application

GC2 series Permanent Magnetic AC Contactor has two types- Energy-saving AC Contactor and Anti-Voltage Sag AC Contactor, and this series is suitable for AC 50hz or 60hz, the voltage up to 690V, the rated operational current up to 120A under AC-3,400(380)V application category, which is used as remote or manual switch for circuit control and also can be directly installed with the thermal relay, composed of electromagnetic starter, to protect overload circuit, frequently to start or stop of AC motor. And the Anti-Voltage Sag Contactor(time delay range 1s-3s) only performs in certain situations. GC2 series contactor only for the circuit above 40A and can be mounted to the CJX2 series auxiliary contact group, and is produced according to IEC60947-4, GB14048.4 and GB21518-2022.

Structure Design

The working principle of the GC2 series Permanent Magnetic AC Contactor is the same as the CJX2 series, and the difference is designing electromagnetic devices, including (1) Magnetic Holding Release; (2) PCBs Control System; (3) Trip Mechanism Parts, to generate holding forces on the CJX2 series. When the contactors are in the closed state, no excitation current is needed to maintain the electrical contact. And when the power off, the Permanent Magnetic AC Contactor switches the device to break.



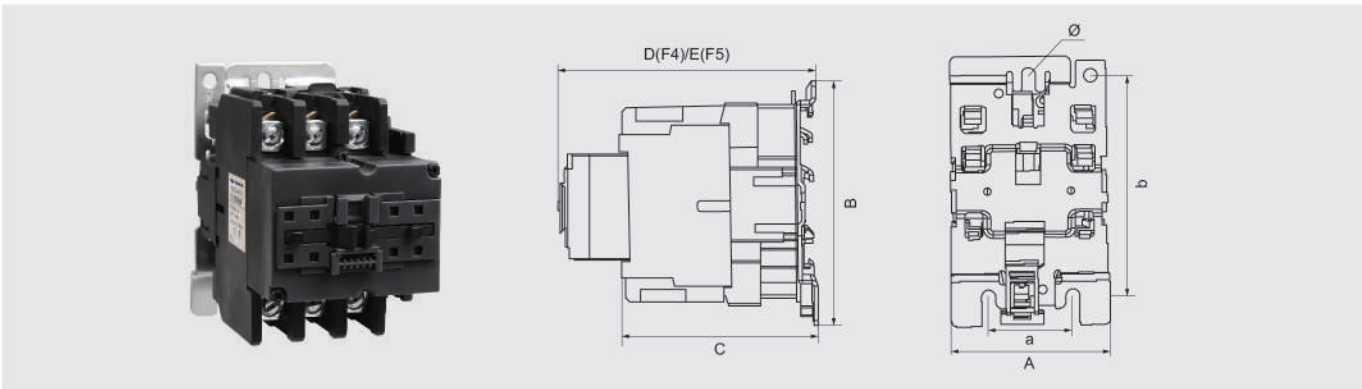
产品优势

- 1、节能：**本产品在工作吸持状态下，工作电流为 14mA，吸持功率为 3.1VA，达到接触器能效限定值一级要求，而传统的 CJX2-40A 为 110mA 以上，在三级范围内。所以本产品节能效果达 80% 以上。而由于本产品不同框架的磁保持脱扣器功率基本相同，而不同框架的接触器电流越大功耗越大，本产品大电流型节能效果更加显著。用时越多节约费用越大。
- 2、防晃电：**本产品的磁保持脱扣器维持工作电压带比较宽，同时在线路板上设有一个延时解锁功能。可根据用户需求，延时设定 1-3 秒，满足特殊场合的使用要求，使线路上电压波动不会影响设备正常使用，从而达到防晃电功能。
- 3、响应速度快，可靠性高：**本产品磁保持脱扣器失电解锁与接触器触头的释放是同步进行，不存在时间上的差异，对控制信号反应快速灵敏，执行可靠。（不同于现有永磁接触器，它的断开需要一个反向电流供给来实现。这存在着安全隐患）。
- 4、低温升长寿命：**本产品通电吸持状态时是依靠机械自锁机构锁定触头，在闭合状态下维持长期工作的，且接触器本体线圈是不通电的，所以不存在线圈发热和烧毁，而且无电压晃动，从而增加了该产品的使用寿命。

Features

- 1. High-energy Efficiency:**
The working current of this GC2 series contactor is 14mA and the holding power is 3.1VA when in the closed state meets the first level requirement of the contactor energy efficiency limit value, compared to the normal CJX2-40A is more than 110mA reached in the three-level range, which is more than 80% energy-saving effect. The GC2 series permanent magnetic device can be used in different current with same model, and bigger current can saving more energy consumption.
- 2. Anti-voltage Sag Technology:**
The permanent magnetic device works in wider operating voltage range with time delay function lasting 1s to 3s to maintain electricity load functioning properly until voltage returns to normal.
- 3. Fast Response, High Reliability:**
The permanent magnetic device is fast and reliable response under the control signal, as it is synchronous to the contactor contact. This is better breaking control strategy compared to the normal permanent magnetic (PM) device which requires a reverse current supply to break the circuit.
- 4. Low Temperature Increase and Longer Working Life:**
This product relies on the mechanical self-locking mechanism to lock the contact in the power-on holding state, and maintains long-term work in the closed state, but the contactor coil is not powered. In this way, no coil heating or burning, and no voltage sag, thereby to increase the service life.

安装尺寸 Dimensions



接触器型号 Model	A(max)	B(max)	C(max)	D(max)	E(max)	a	b	Φ
GC2-4011~6511	77	129	140	178.5	194.5	40	105	6.5
GC2-4004~6504	84	129	140	178.5	194.5	40	105	6.5
GC2-4008~6508	84	129	151	178.5	194.5	40	105	6.5
GC2-8011~9511	87	129	151	184.5	200.5	40	105	6.5
GC2-8004~9504	96	129	146	184.5	200.5	40	105	6.5
GC2-8008~9508	96	129	146	184.5	200.5	40	105	6.5

型号及含义 Type Designation

GC2 - □□□□	H: 表示防晃电交流接触器 H: Anti-Voltage Sag AC Contactor
□□□□	触头种类和数量, 用数字表示 (可逆接触器表示的是单台产品的触头种类和数量) Type and number of contacts, represented by numbers (reversible contactor represents the type and number of contacts of a single product)
□□□□	10: 表示三常开主触头、一常开辅助触头 (32A 及以下) 10: 3 N/O main contacts+1 N/O auxiliary contact (up to 32A)
□□□□	01: 表示三常开主触头、一常闭辅助触头 (32A 及以下) 01: 3 N/O main contacts+1 N/C auxiliary contact (up to 32A)
□□□□	11: 表示三常开主触头、一常开一常闭辅助触头 (40A 及以上) 11: 3 N/O main contacts+1 N/O and 1N/C auxiliary contact (more than 40A)
□□□□	04: 表示四常开主触头 (除 18A、32A 以外) 04: 4 N/O main contacts (except 18A/32A)
□□□□	08: 表示两常开两常闭主触头 (除 18A、32A 以外) 08: 2 N/O and 2N/C main contacts (except 18A/32A)
□□□□	基本规格代号, 用 400(380)V、AC-3 的额定工作电流数值表示 Basic specification, expressed with the rated operational current 400(380)V, AC-3
□□□□	G: 企业特征代号 G: Company code
□□□□	C: 磁保持交流接触器 C: Magnetic AC Contactor
□□□□	2: 设计序号 2: Design sequence No.

订货须知

- 订货时必须指出:
- 1、接触器的名称、型号
 - 2、线圈的额定控制电源电压
 - 3、如需订购 F4 辅助触头组或标准卡轨, 应另外注明
 - 4、订货数量
 - 5、订货示例: GC2-4011 交流接触器 电压 220V 50Hz 100 台

Ordering Instructions

- When ordering, the user shall specify the following contents:
- 1.Name and model of Contactor
 - 2.Rated control power voltage
 - 3.Application conditions or requirements shall be further specified if order F4 auxiliary contact sets or DIN-Rails
 - 4.Order Quantity
 - 5.Ordering Example: GC2-4011 AC contactor Voltage 220V 50Hz 100Sets

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