



GSB2 系列小型断路器

GSB2 Range Miniature Circuit-Breaker

一、用途 APPLICATION

GSB2系列小型断路器适用于交流50Hz或60Hz，额定电压至415V，额定电流至63A及以下的线路中，用作保护建筑物的线路设施及类似用途，同时其还具有隔离功能。该断路器可加装辅助触头、报警触头和分励脱扣器等电气附件，以提供辅助信号和实现断路器远距离分断等。

GSB2 range mini-breakers are mainly used in AC 50Hz or 60Hz, rated voltage up to 415V, rated current up to 63A and below to protect the circuit equipments or devices and the similar purposes, it also has isolation functions. The breakers can be matched with accessories such as the auxiliary contacts, the alarming contacts, shunt trip etc. so as to supply the auxiliary signals and realize its remote breaking functions.

二、采用标准及认证情况 STANDARD AND CERTIFICATION

- △ 产品符合标准IEC60898-1、GB10963.1。

Conform to the following standard: IEC60898-1、GB10963.1.

- △ 获得CCC认证、TÜV认证、CE认证及CB认证。

The products are all through the CCC certification, the TÜV certification、the EU CE safety certification and CB certification.

三、型号及其含义 TYPE AND MEANS



- 瞬时脱扣器类型及用途（见下表）

Instantaneous release type and applicable (as the following table)

瞬时脱扣器类型 Instantaneous release type	用途 Applicable
C型	保护常规负载和配电线路电缆
D型	保护起动电流大的冲击性负荷，如电动机

- 额定工作电流 I_n (A) Rated operating current

产品型号 Type	瞬时脱扣器类型 Instantaneous release type	极数 Pole	额定电流 I_n (A) (30℃) Rated current
GSB2	C型、D型	1P、2P、3P、4P	1、3、6、10、16、20、25、32、40、50、63

四、工作条件与安装条件

WORKING CONDITION AND INSTALLATION CONDITION



- △ 周围空气温度不超过+40℃，并且24h内的平均温度不超过+35℃，下限值为-5℃；
Environment temperature : -5℃ ~ +40℃, the average hours of temperature exceeding +35℃ during 24 hours.
- △ 安装地点的海拔不超过2000m; Elevation: ≤2000m
- △ 安装地点的空气是清洁的，并且在最高温度为+40℃时，空气的相对湿度不超过50%；在较低温度下可允许较高的相对湿度，例如在+20℃时，相对湿度为90%；并应注意由于温度变化可能产生适度的凝露，此时应采取适当的措施；
No exceeding 50% at the maximum ambient temperature of 40℃.with lower temperature, higher humidity would be permitted, for example ,with temperature 20℃, the humidity can exceed 90%.Take the special measure to the dews on the surface, which would appear due to temperature change
- △ 断路器适用于污染等级为2的环境；
Pollution protection: Grade 2
- △ 断路器应安装和使用在无冲击和振动的地方；
Products should be used in no significant impact and vibration place.
- △ 安装类别 III ； Installing categories: Class III
- △ 断路器采用TH35-7.5标准卡轨安装。
Installing condition: mounted by TH35-7.5 standard rail track

五、主要技术参数 MAIN TECHNICAL PARAMETERS

■ 基本技术参数（见表1） basic technical parameters(see table 1) 表(table)1

型 号 type	GSB2	
瞬时脱扣器类型 Instantaneous release type	C型、D型	
额定工作电压Ue Rated work voltage	1P	240 V
	2P、3P、4P	415 V
壳架等级额定电流Inm Frame rated current	63 A	
额定短路分断能力Inm Breaking capacity of rated short-circuit	6000 A	
额定冲击耐受电压Uimp Rated impulse with stand voltage	4 kV	
机械寿命 Machine life	20000次	
防护等级Protection grade	Ip20	
接线能力 wiring capacity	1 ~ 25mm ²	

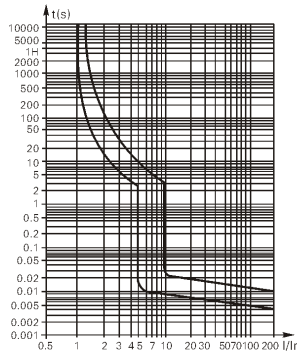
■ 时间电流动作特性（见表2） time-current action character (see table 2) 表(table) 2

序 号 No	瞬时脱扣器类型 Instantaneous release type	额定电流 Rated current	起始状态 Initial state	试验电流 Testing current	约定时间 Order time	预期结果 Expectancy ending	基准温度 Benchmark temperature	备注 note
a	C、D	In≤63 A	冷态 cold state	1.13In	t≤1h	不脱扣 not release	30℃	

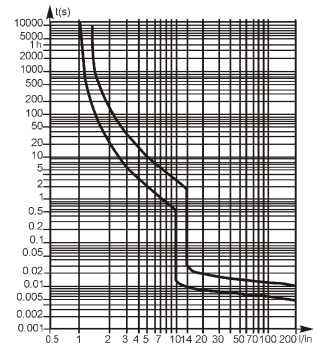
(续表 Continue on top of table)

b	C、D	$I_n \leq 63\text{ A}$	紧接着a项试验 Following the test a	$1.45I_n$	$t < 1\text{ h}$	脱扣 release	30°C	紧接着a项试验后，试验电流在5s内稳定的增加至约定值 After Following the test a, testing current improve to order value in 5s
c	C、D	$I_n \leq 32\text{ A}$ $I_n > 32\text{ A}$	冷态 cold state	$2.55I_n$	$1\text{ s} < t < 60\text{ s}$ $1\text{ s} < t < 120\text{ s}$	脱扣 release		
d	C D	$I_n \leq 63\text{ A}$	冷态 cold state	$5I_n$ $10I_n$	$t \leq 0.1\text{ s}$	不脱扣 not release	-	通过闭合辅助开关接通电流 Through close auxiliary switch and put through current
e	C D	$I_n \leq 63\text{ A}$	冷态 cold state	$10I_n$ $14I_n$	$t < 0.1\text{ s}$	脱扣 release	-	通过闭合辅助开关接通电流 Through close auxiliary switch and put through current

■ 时间电流特性曲线（见图1、图2） time-current character curve (see picture 1 and 2)



图(picture)1 GSB2 C型



图(picture)2 GSB2 D型

六、断路器的附件 ACCESSORY OF THE BREAKER

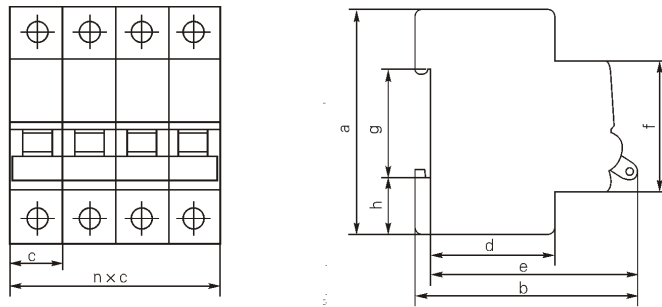
△ GSB2系列小型断路器可加挂辅助触头OF2，主要性能参数见下表。

GSB2 range miniature breaker can add hang auxiliang contact Of2 main function parameter see next table.

附件名称 Auxiliary contact	额定电流(A) Rated current			每组触头数 Each team of contact no	接线图 Wiring picture
	AC:415V	AC:240V	DC:110V		
辅助触头 Auxiliary contact OF2	3	6	1	一常开 one normal open 一常闭 one normal close	

七、外形及安装尺寸（单位：mm）

OUTLINE AND INSTALLATION DIMENSIONS



图(picture)3 外形及安装尺寸

注： n为极数 Note: n is pole

型号 type	极数 pole	a	b	c	d	e	f	g	h
GSB2	1、2、3、4	79.8	75	18	42	69.5	45	37	20.5

八、接线端子标志

TERMINAL OUTLINE AND INSTALLATION DIMENSIONS

断路器一极、二极、三极、四极接线端子标志如图4所示。

The one pole、 two poles、 three poles and four poles of the breakers' terminal as the picture 4

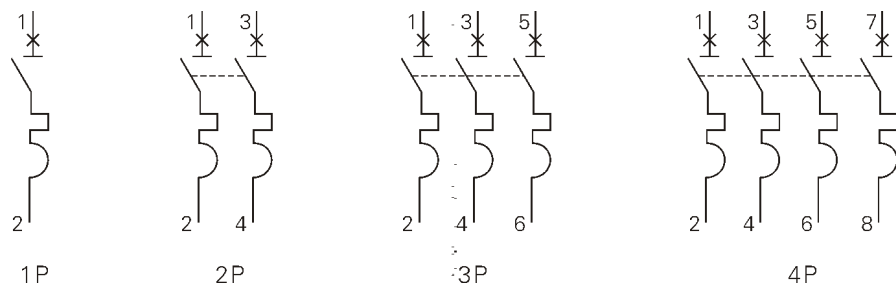


图4.断路器接线端子标志图

Picture 4 terminal of the breakers

九、订货须知 ORDER NOTICE

■ 用户订货时必须指明断路器的名称、型号、规格、数量及附件的名称。

△ 如：小型断路器 GSB2-D 50/3P OF2 800台

△ 表示：GSB2系列小型断路器，瞬时脱扣器为D型、额定电流50A、三极、加挂辅助触头OF2，800台。

In order you need attention the name、 type、 character and volume of the breaker and its accessory name.

Example: the mini-breaker GSB2-D 50/3P OF2 800 sets

Means: GSB2 range miniature breaker, instantaneous release is type D, rated current is 50A, three poles, added auxiliary contact, and 800 sets.