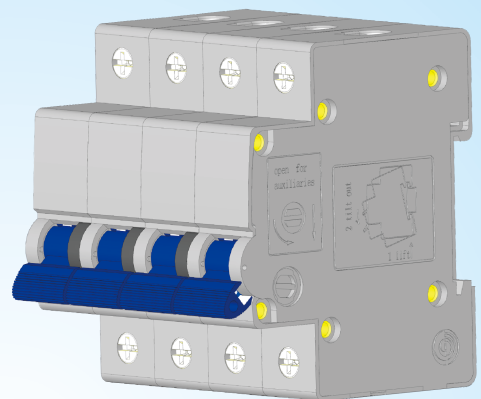


GSB2系列小型断路器

GSB2 Series Miniature Circuit Breaker

安全 智能 环保



CE UL CCC TÜV CB RoHS
ISO9001 ISO14001 OHSAS18001

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 series mini breaker 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.

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.

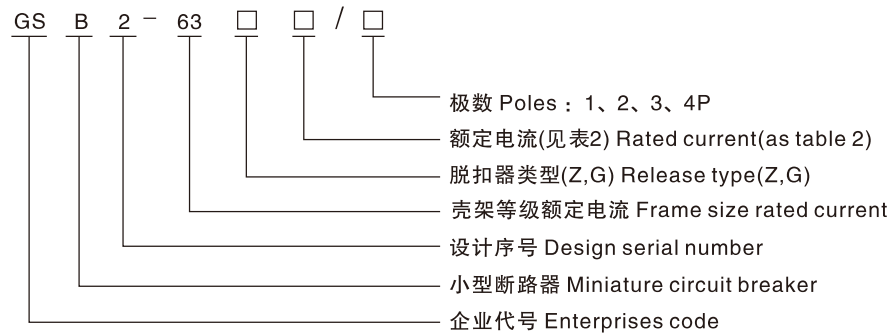
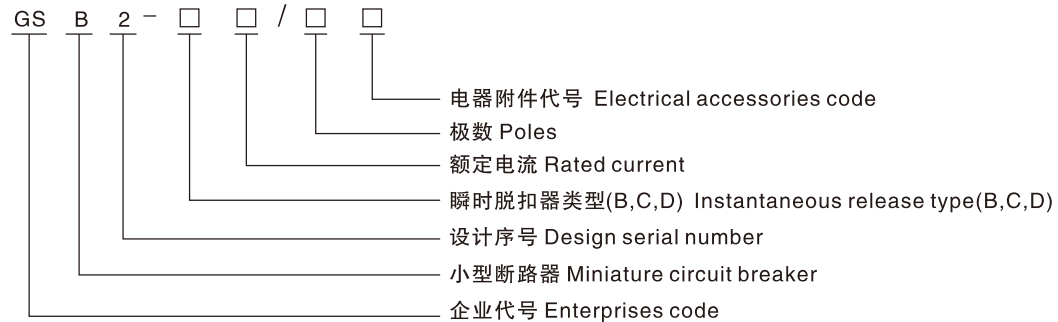
△ 获得CCC认证、TUV认证、CE认证、CB认证及UL认证。

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

△ GSB2-63 Z、G型产品符合标准GB14048.2、IEC60947-2，获得CCC认证。

GSB2-63 Z、G Conform to the following standard GB14048.2、IEC60947-2 ,and through the CCC certification.

型号及含义 TYPE AND MEANING



■ 瞬时脱扣器类型及用途 (见下表)

Instantaneous release type and applicable (as the following table)

表(table)1

瞬时脱扣器类型 Instantaneous release type	用途 Applicable
B型	对纯阻性负荷和低感照明系统提供线路保护 Purely resistive load and low sense of lighting system to provide line protection
C型	保护常规负载和配电线路电缆 To protect normal load and distribution lines, cable
D型	保护起动电流大的冲击性负荷，如电动机 Protection starting current impact loads, such as motors
GSB2-63Z 型	照明配电 Lighting distribution
GSB2-63G 型	工业配电 Industrial Distribution

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

表(table)2

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	B型、C型、D型	1P、2P、3P、4P	1、2、3、4、6、10、16、20、25、32、40、50、63
GSB2-63Z GSB2-63G	Z型 G型	1P、2P、3P、4P	1、3、6、10、16、20、32 40、50、63

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明显冲击和振动的地方；
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

主要技术参数 MAIN TECHNICAL PARAMETERS
■ 基本技术参数 (见表3) basic technical parameters(see table 3)

表(table)3

型 号 type		GSB2	
瞬时脱扣器类型 Instantaneous release type		B型、C型、D型	
额定工作电压 U_e Rated work voltage	1P	240 V	
	2P、3P、4P	415 V	
壳架等级额定电流 I_{nm} Frame rated current		63 A	
额定短路分断能力 I_{nm} Breaking capacity of rated short-circuit		6000 A	
额定冲击耐受电压 U_{imp} 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	

型 号 type		GSB2-63Z、GSB2-63G	
瞬时脱扣器类型 Instantaneous release type		GSB2-63Z	GSB2-63G
额定工作电压 U_e Rated work voltage	1P	240 V	
	2P、3P、4P	415 V	
壳架等级额定电流 I_{nm} Frame rated current		63 A	
额定极限短路分断能力 I_{cu} Breaking capacity of rated ultimate short-circuit		6000 A	
额定运行短路分断能力 I_{cs} Breaking capacity of rated short-circuit		6000 A	
额定冲击耐受电压 U_{imp} Rated impulse with stand voltage		4 kV	
瞬时脱扣电流整定值 I_{mag} Instantaneous tripping current setting		6.8 I_n ~ 10.2 I_n	9.6 I_n ~ 14.4 I_n
使用类别 Use Category		A	
机械寿命 Machine life		20000次	
防护等级 Protection grade		IP20	

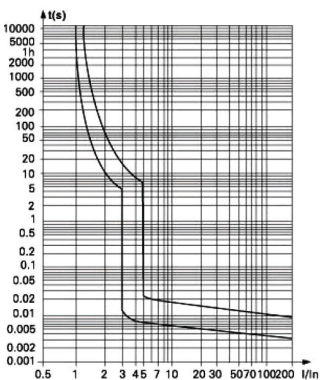
■ 时间电流动作特性 (见表4) time-current action character (see table 4)

表(table) 4

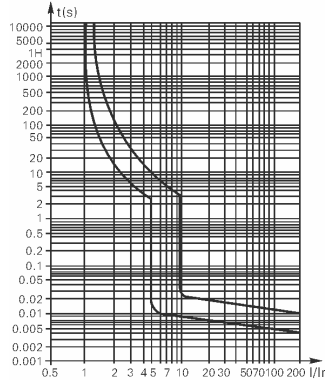
序号 No	瞬时脱扣器类型 Instantaneous release type	额定电流In Rated current	起始状态 Initial state	试验电流A Testing current	约定时间T Order time	预期结果 Expectancy ending	基准温度 Benchmark temperature	备注 note
a	B、C、D	$I_n \leq 63$ A	冷态 cold state	$1.13I_n$	$t \leq 1$ h	不脱扣 not release	30℃	
b	B、C、D	$I_n \leq 63$ A	紧接着a项试验 Following the test a	$1.45I_n$	$t < 1$ h	脱扣 release	30℃	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	B、C、D	$I_n \leq 32$ A $I_n > 32$ A	冷态 cold state	$2.55I_n$	$1s < t < 60s$ $1s < t < 120s$	脱扣 release		
d	B C D	$I_n \leq 63$ A	冷态 cold state	$3I_n$ $5I_n$ $10I_n$	$t \leq 0.1$ 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	B C D	$I_n \leq 63$ A	冷态 cold state	$5I_n$ $10I_n$ $14I_n$	$t < 0.1$ s	脱扣 release	-	通过闭合辅助开关接通电流 Through close auxiliary switch and put through current

序号 No	瞬时脱扣器类型 Instantaneous release type	额定电流In Rated current	起始状态 Initial state	试验电流A Testing current	约定时间T Order time	预期结果 Expectancy ending	备注 note
a	Z、G	$I_n \leq 63$ A	冷态 cold state	$1.05I_n$	$t \leq 1$ h	不脱扣 not release	
b	Z、G	$I_n \leq 63$ A	紧接着a项试验 Following the test a	$1.3I_n$	$t < 1$ h	脱扣 release	电流在5s内稳定地升至约定值 current improve to order value in 5s
c	Z G	$I_n \leq 63$ A	冷态 cold state	$6.8I_n$ $10.2I_n$	$t \leq 0.1$ 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
d	Z G	$I_n \leq 63$ A	冷态 cold state	$9.6I_n$ $14.4I_n$	$t < 0.1$ s	脱扣 release	通过闭合辅助开关接通电流 Through close auxiliary switch and put through current

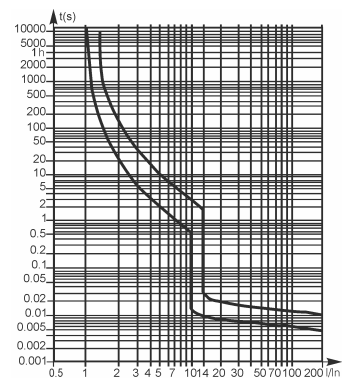
■ 时间电流特性曲线 (见图1、图2、图3) time-current character curve (see picture 1、2、3)



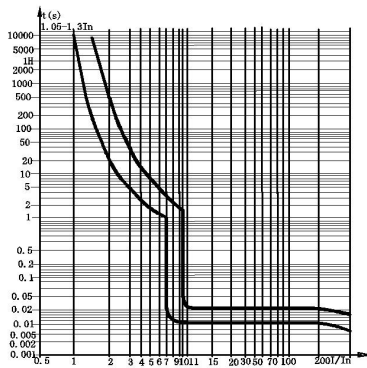
图(picture)1 GSB2 B型



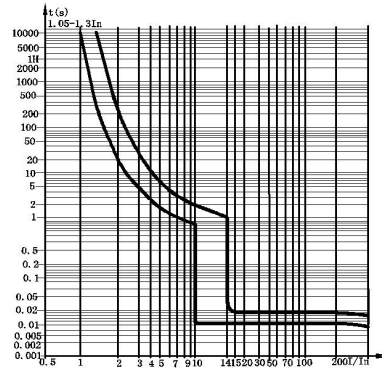
图(picture)2 GSB2 C型



图(picture)3 GSB2 D型

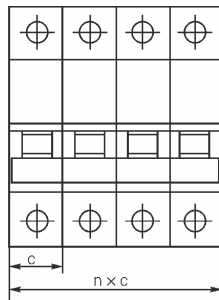


图(picture)3 GSB2 Z型

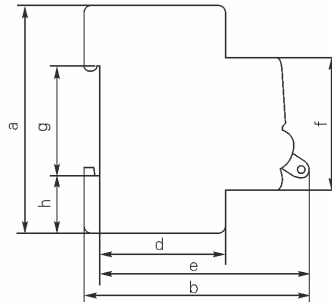


图(picture)3 GSB2 G型

外形及安装尺寸 (单位: mm) OUTLINE AND INSTALLATION DIMENSIONS



注: n为极数 Note: n is pole



图(picture)3

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

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

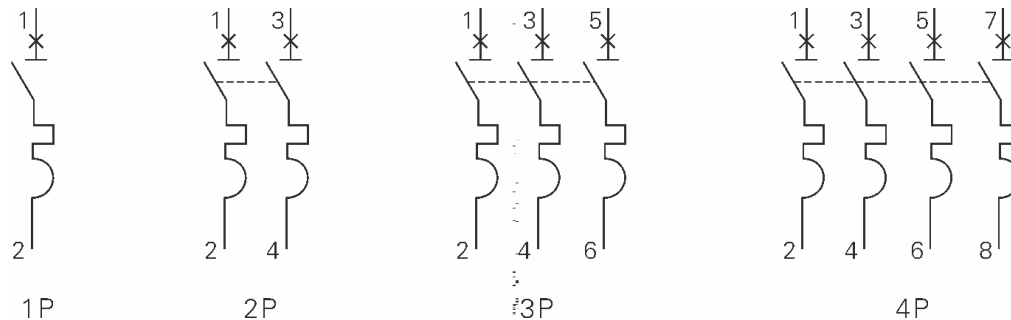


图4.断路器接线端子标志图 Picture 4 terminal of the breakers

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。

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

△ 如: 小型断路器 GSB2-D 50/3P OF2 800台。

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

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。

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

△ 小型断路器 GSB2-63 Z 30/2P 或 GSB2-63 G 50/3P 100台。

the mini-breaker GSB2-63 Z 30/2P or GSB2-63 G 50/3P 100 sets.

表示: GSB2-63系列小型断路器, 瞬时脱扣器为Z型或G型, 额定电流30A, 两极, 100台。

Means: GSB2-63 series miniature breaker, instantaneous release is type Z or G, rated current is 30A, two poles, and 100 sets.