



# FuPact GSB

Switch-Disconnectors Fuses

菲士掣 32 – 1250A

IEC 60947-3 Standard 標準

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# FuPact GSB

## Switch-Disconnectors Fuses 菲士掣

### Technical Specification 技術參數



GSB 32A



GSB 63A



GSB 200A

### 符合的標準

FuPact GSB 菲士掣及其輔助組件均符合國際推薦標準:

- IEC 60947-1 : 總則
- IEC 60947-3 : 開關, 隔離開關, 負荷開關及熔斷器組合單元
- IEC 60947-5.1 : 控制設備和開關: 自動控制元件

FuPact GSB 菲士掣 可配合BS88 工業型熔斷器使用。

### 可靠的接觸指示



所有 FuPact GSB 裝置的隔離線路均採用 IEC 60947-3 標準:

- 接點隔離位置對應 "O" (OFF 位置)
- 除非接點完全打開, 否則操作手柄不能顯示 "OFF" 位置
- 當接點處於打開狀態, 方可安裝 "OFF" 位置掛鎖。

延伸手柄的安裝不會改變隔離操作的可靠性。隔離功能具有保證性測試, 可以確保:

- 位置指示系統的機械操作可靠性
- 無漏電電流
- 於其上下級連接的耐過壓性

### 使用類別

- FuPact GSB 菲士掣使用類別為 AC-22A 及 AC-23A。

### 保護程度

所有 FuPact GSB 裝置(裝有終端護罩)均符合 IEC 60529(IP保護)及 IEC 62262 標準:

- 旋轉手柄: IP20/IK07
- 延伸旋轉手柄: IP65/IK10
- 延伸旋轉手柄(裝有扣鎖): IP65/IK08

### 周邊溫度

- FuPact GSB 菲士掣可在 -20°C 至 +70°C 內正常運作。當周邊溫度高達於40°C, 需考慮減值系數。

### Compliance with Standards

FuPact GSB switch-disconnectors fuses complies with international standards and recommendations:

- IEC 60947-1: general rules
- IEC 60947-3: switches, disconnectors
- IEC 60947-5.1 and following: control-circuit devices and switching elements; automatic control component

FuPact GSB switch-fuses are designed for use with BS88 industrial type fuse-links.

### Positive Contact Indication

FuPact GSB devices are suitable for isolation as defined in IEC standard 60947-3:

- The isolation position corresponds to the O (OFF) position
- The operating handle cannot indicate the OFF position unless the main contacts are not totally opened.
- Locking in the OFF position is not possible unless the main contacts are actually open.

Installation of an extended handle on does not alter the suitability for isolation, function is certified by testing:

- The mechanical reliability of the position-indication system
- The absence of leakage currents
- Overvoltage withstand capacity between upstream and downstream connections.

### Utilization Category

- The utilization category of FuPact GSB devices are AC-22A and AC-23A.

### Degree of Protection

FuPact GSB devices with terminal shield, the degree of protection against direct contact complies with standard IEC 60529 (IP index of protection) and IEC 62262:

- With direct rotary handle: IP20/IK07
- With extended rotary handle: IP65/IK10
- With extended rotary handle and padlocks: IP65/IK08.

### Ambient Temperature

- FuPact GSB switch-disconnectors fuses can be used between -20°C and +70°C. Above 40°C, you will have to take account of the derating coefficient.

Selection Table  
選型表

# FuPact GSB Switch-Disconnectors Fuses

Electrical Characteristic as per IEC 60947-1/ IEC 60947-3

## FuPact GSB 菲士掣

電氣特性符合 IEC 60947-1/ IEC 60947-3

FuPact GSB Switch-Disconnectors Fuses 菲士掣			GSB32	GSB63	GSB100	GSB160	GSB200
Number of poles/Number of fuses capable 極數數量/可裝熔斷器數量	3 poles / 3 fuses 三極 / 三組熔斷器		■	■	■	■	■
	4 poles / Switched neutral 四極 / 中線開關		■	—	—	—	—
	4 poles / 4 fuses 四極 / 四組熔斷器		—	■	■	■	■
Conventional thermal current (A) 額定發熱電流	In free air 敞開	lth at 35°C	32	63	100	160	200
	In free air 敞開	lth at 35°C	2.9	3.8	8.4	15.3	14.3
Rated insulation voltage (V) 額定絕緣電壓	Ui 50/60 Hz		800	800	800	800	800
Rated impulse-withstand voltage (kV) 額定沖擊耐壓	Uimp		8	8	8	8	8
Rated operating voltage (V) 額定工作電壓	AC (Ue)	50/60 Hz	690	690	690	690	690
Rated operating voltage (V) 額定工作電壓	AC 20 (Ue)		800	800	800	800	800
Rated operating current (A) at 50/60 Hz 額定工作電流	AC 22A (Ie)	220/240V	32	63	100	160	200
		380/415V	32	63	100	160	200
		660/690V	32	63	100	160	200
Rated operating current (A) at 50/60 Hz 額定工作電流	AC 23A (Ie)	220/240V	32	63	100	160	200
		380/415V	32	63	100	160	200
		660/690V	32	63	100	—	160
Rated operating power (kW) 額定工作能量	AC 23A	380/415V	15	30	51	80	100
		660/690V	—	55	90	110	150
Breaking capacity with fuse (kA rms) 分斷容量 (有菲士)	Iq	400V	—	—	—	—	—
		415V	100	100	50	50	50
		500V	—	—	—	—	—
		690V	80	100	50	50	—
Derating 減值系數	Free air & enclosure 敞開及封閉	at 40°C	30	60	95	152	190
		at 50°C	27	54	85	136	170
		at 60°C	24	47	74	119	149
		at 70°C	20	39	62	100	125
Type of fuse 菲士類別	Fuse size 菲士尺寸		A1	A2 - A3	A4	A4	B1 - B2
	Mechanical 機械性	in cycle	10000	10000	10000	10000	10000
Durability in cycle (Category A) 耐用性 (A類)	Electrical AC 電力	22A 415V	1500	1500	1500	1000	1000
		22A 690V	1500	1500	1500	1000	1000
		23A 415V	1500	1500	1500	1000	1000
		23A 690V	1500	1500	1500	1000	1000
<b>Installation and Connection 安裝及接線</b>							
Upstream / Downstream connection 上進及下進接線			■	■	■	■	■
Rear connection 後進接線			—	—	—	—	—
<b>Control auxiliaries 控制輔件</b>							
Direct front rotary handle 旋轉手柄			■	■	■	■	■
Front extended handle 向前延伸旋轉手柄			■	■	■	■	■
Lateral extend handle 側邊延伸旋轉手柄			■	■	■	■	■
Padlocking 扣鎖			■	■	■	■	■
<b>Signaling auxiliaries 提示輔件</b>							
Auxiliary contact with pre-cut information 輔助接點			■	■	■	■	■
Test position 測試位置			■	■	■	■	■
<b>Installation and connection accessories 安裝及接線輔件</b>							
External neutral module 外置中線模組			—	■	■	■	■
Terminal covers 終端護罩			—	—	■	■	■
Cable connector 接線器			—	—	■	■	■
<b>Dimensions and Weights 尺寸及重量</b>							
Overall dimensions W x H x D (mm) 總尺寸	3 poles 三極		96 x 98 x 83	136 x 162 x 116	148 x 162 x 116	190 x 162 x 136	234 x 195 x 146
	4 poles 四極		96 x 98 x 83	168 x 162 x 116	184 x 162 x 116	294 x 195 x 146	294 x 195 x 146
Approximate weight without fuses and accessories (kg) 大約重量 (不包括菲士及輔件)	3 poles 三極		0.5	1.0	1.5	2.3	3.2
	4 poles 四極		0.5	1.3	2.0	2.3	4.5

Selection Table  
選型表

# FuPact GSB Switch-Disconnectors Fuses

Electrical Characteristic as per IEC 60947-1/ IEC 60947-3

## FuPact GSB 菲士掣

電氣特性符合 IEC 60947-1/ IEC 60947-3

FuPact GSB Switch-Disconnectors Fuses 菲士掣			GSB250	GSB400	GSB630	GSB800	GSB1250
Number of poles/Number of fuses capable 極數數量/可裝熔斷器數量	3 poles / 3 fuses 三極 / 三組熔斷器		■	■	■	■	■
	4 poles / Switched neutral 四極 / 中線開關		—	—	—	—	—
	4 poles / 4 fuses 四極 / 四組熔斷器		■	■	■	■	■
Conventional thermal current (A) 額定發熱電流	In free air 敞開 lth at 35°C	250	400	630	800	1250	
		19.7	29.6	55	70	100	
Rated insulation voltage (V) 額定絕緣電壓	Ui 50/60 Hz	800	800	1000	1000	1000	
Rated impulse-withstand voltage (kV) 額定沖擊耐壓	Uimp	8	8	12	12	12	
Rated operating voltage (V) 額定工作電壓	AC (Ue) 50/60 Hz	690	690	690	690	690	
Rated operating voltage (V) 額定工作電壓	AC 20 (Ue)	800	800	1000	1000	1000	
Rated operating current (A) at 50/60 Hz 額定工作電流	AC 22A (Ie)	220/240V	250	400	630	800	1250
		380/415V	250	400	630	800	1250
		660/690V	250	400	630	800	1250
Rated operating current (A) at 50/60 Hz 額定工作電流	AC 23A (Ie)	220/240V	250	400	630	800	1250
		380/415V	250	400	630	800	1250
		660/690V	250	315	—	—	—
Rated operating power (kW) 額定工作能量	AC 23A	380/415V	132	220	355	450	750
		660/690V	220	295	295	400	900
		400V	—	—	—	—	—
Breaking capacity with fuse (kA rms) 分斷容量 (有菲士)	Iq	415V	100	50	100	100	100
		500V	—	—	—	—	—
		690V	—	—	80	80	80
		at 40°C	238	382	600	762	1195
Derating 減值系數	Free air & enclosure 敞開及封閉	at 50°C	213	345	537	682	1079
		at 60°C	186	305	469	595	955
		at 70°C	156	262	393	499	819
		at 70°C	156	262	393	499	819
Type of fuse 菲士類別	Fuse size 菲士尺寸	B1 - B3	B1 - B4	C2	C3	D1	
Durability in cycle (Category A) 耐用性 (A類)	Mechanical 機械性	in cycle	10000	8000	5000	5000	5000
		22A 415V	1000	200	200	100	100
	Electrical AC 電力	22A 690V	1000	200	200	100	100
		23A 415V	1000	—	—	—	100
		23A 690V	1000	—	—	—	—
<b>Installation and Connection 安裝及接線</b>							
Upstream / Downstream connection 上進及下進接線		■	■	■	■	■	
Rear connection 後進接線		—	—	■	■	■	
<b>Control auxiliaries 控制輔件</b>							
Direct front rotary handle 旋轉手柄		■	■	—	—	—	
Front extended handle 向前延伸旋轉手柄		■	■	■	■	■	
Lateral extend handle 側邊延伸旋轉手柄		■	■	■	■	■	
Padlocking 扣鎖		■	■	■	■	■	
<b>Signaling auxiliaries 提示輔件</b>							
Auxiliary contact with pre-cut information 輔助接點		■	■	■	■	■	
Test position 測試位置		■	■	—	—	—	
<b>Installation and connection accessories 安裝及接線輔件</b>							
External neutral module 外置中線模組		■	■	■	■	■	
Terminal covers 終端護罩		■	■	■	■	■	
Cable connector 接線器		■	■	—	—	—	
<b>Dimensions and Weights 尺寸及重量</b>							
Overall dimensions W x H x D (mm) 總尺寸	3 poles 三極	234 x 195 x 146	252 x 205 x 149	364 x 300 x 250	364 x 300 x 250	442 x 300 x 289	
	4 poles 四極	294 x 195 x 146	318 x 205 x 149	458 x 300 x 250	458 x 300 x 250	562 x 300 x 289	
Approximate weight without fuses and accessories (kg) 大約重量 (不包括菲士及輔件)	3 poles 三極	3.2	4.8	16.0	17.0	25.0	
	4 poles 四極	4.5	6.1	20.0	21.5	30.0	

FuPact GSB Switch-Disconnectors Fuses (w/o fuse-links)  
FuPact GSB 菲士掣帶延伸旋轉手柄 (不帶菲士膽)



Rating (A) 額定電流 (A)	Unit Reference <sup>(1)</sup> 產品編號		Fuse Type 菲士類別
	3-Pole 三極	4-Pole 四極 <sup>(2)</sup>	
32	LV481603C	LV481604C	A1
63	LV481613C	LV481614C	A2 - A3
100	LV481623C	LV481624C	A4
160	LV481633C	LV481634C	A4
200	LV481643C	LV481644C	B1 - B2
250	LV481653C	LV481654C	B1 - B3
400	LV481663C	LV481664C	B1 - B4
630	LV481673C	LV481674C	C2
800	LV481683C	LV481684C	C3
1250	LV481693C	LV481694C	D1

(1) Include extended rotary handle and extension shaft. For front operation basic interior without extended rotary handle, please remove suffix "C" from unit reference

已包括延伸旋轉手柄及延伸軸。對於沒有延伸旋轉手柄的前置操作應用，請從產品編號刪除後綴"C"。

(2) 4-pole/switched neutral for 32A; 4-pole/4 fuses for ≥63A

32A 菲士掣為四極/中線開關；≥63A 菲士掣為四極/四組熔斷器

Extended Rotary Handle (Black) & Extension Shafts (400mm)  
延伸旋轉手柄 (黑色) + 延伸軸 (400mm)

Rating (A) 額定電流 (A)	Extended Rotary Handle Reference <sup>(3)</sup> 延伸旋轉手柄編號	Extension Shafts Reference <sup>(3)</sup> 延伸軸編號
32	GS2AH510	GS2AE81
63	GS2AH510	GS2AE21
100 - 400	GS2AH530	GS2AE21
630 - 800	GS2AH550	GS2AE51
1250	GS2AH570	GS2AE51

(3) Extension rotary handle and extended shafts should be purchased together for extended rotary handle application

請同時購買延伸旋轉手柄及延伸軸以供延伸旋轉手柄應用

Catalog Number  
產品編號

Direct Rotary Handle (Black)  
直接旋轉手柄 (黑色)

Rating (A) 額定電流 (A)	Unit Reference 產品編號
32	GS1AH103
63 - 200	LV481701
250 - 400	LV481702

Auxiliary Contacts  
輔助接點



Product Description (1) 產品說明	Unit Reference 產品編號
Set of 5 NO contacts 五個裝 NO 接點	ZBE101
Set of 5 NC contacts 五個裝 NC接點	ZBE102
Set of 10 accessories for auxiliary contact 十個裝輔助接點配件	LV481110

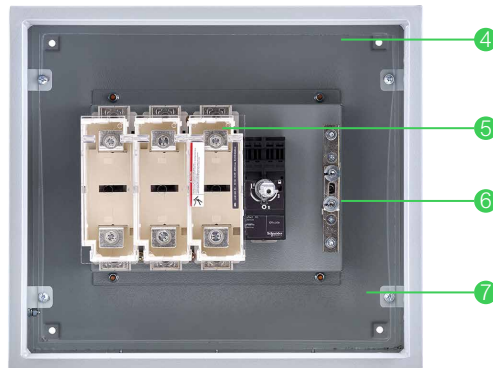
(1) Each auxiliary contact consume 2 accessories. Please order 1 set of LV481110 for each set of ZBE101 or ZBE102  
每個輔助接點需使用兩個配件。如購買一組 ZBE101 或 ZBE102，請同時購買一組 LV481110

Terminal Shields  
終端護罩



Rating (A) 額定電流 (A)	Unit Reference 產品編號	
	3-Pole 三極	4-Pole 四極
100	GS1AP33	GS1AP34
160 - 400	GS1AP43	GS1AP44
630 - 800	GS2AP73	GS2AP64
1250	GS2AP83	GS2AP84

# Enclosed FuPact GSB Switch-Disconnectors Fuses 菲士掣連箱 (IP54)



- ① Cover 面蓋
- ② Key Lock 門鎖
- ③ Rotary Handle 旋轉手柄
- ④ Surface mounting enclosure 掛牆式箱體
- ⑤ GSB Switch-disconnector GSB 菲士掣
- ⑥ Neutral Link 中線端子
- ⑦ Shielded Barrier 絕緣隔板

## 技術參數

- IP54保護等級<sup>(1)</sup>
- 保護設計，避免接觸帶電部分
- 提供足夠空間，方便接線及安裝
- 箱體採用電鍍鋼板製造，並採用靜電噴粉
- 設計符合 IEC 60947-1 及 IEC 60947-3

## Technical Specification

- Degree of protection: IP54<sup>(1)</sup>
- Protect against contact with all live parts
- Sufficient space for wiring and installation
- High-quality electro-galvanized steep with epoxy powder coating
- Complied with IEC 60947-1 & IEC 60947-3



## FuPact GSB Switch-Disconnectors Fuses with Enclosure (w/o fuse-links) 菲士掣連箱 (不帶菲士膽)

Rating (A) 額定電流 (A)	Unit Reference 產品編號		Fuse Type 菲士類別	3P/4P Dimensions 尺寸 (mm)		
	3-Pole 三極	4-Pole 四極 <sup>(2)</sup>		H	W	D
32	BG73032	BG74032	A1	250	200	150
63	BG73063	BG74063	A2 - A3	350	300	150
100	BG73100	BG74100	A4	350	300	200
160	BG73160	BG74160	A4	400	400	200
200	BG73200	BG74200	B1 - B2	450	400	200
250	BG73250	BG74250	B1 - B3	450	400	200
400	BG73400	BG74400	B1 - B4	600	500	300
630	BG73630	BG74630	C2	800	600	350
800	BG73800	BG74800	C3	800	600	350
1250	BG731250	BG741250	D1	1000	800	350

(1) For IP65 enclosure, please contact Schneider Electric (Hong Kong) Limited.  
有關IP65保護等級，請與施耐德電氣(香港)有限公司聯絡。

(2) 4-pole/switched neutral for 32A; 4-pole/4 fuses for ≥63A  
32A 菲士掣為四極/中線開關；≥63A 菲士掣為四極/四組熔斷器

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