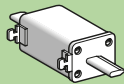


Introduction

B5/2

Switch-disconnector fuses

Type of product	Range		Pages
IEC - Switch-disconnector fuses For NFC / DIN fuses	From 32 to 1250 A		B5/4
IEC - Switch-disconnector fuses For BS fuses	From 32 to 1250 A		B5/6
UL - Switch-disconnector fuses For CC / J fuses	From 30 to 800 A		B5/8
NFC - Cartridge fuses Type aM, gG	From 0.16 to 125 A		B5/10
DIN - Cartridge fuses Type aM, gG	From 10 to 1250 A		B5/11
Auxiliary contacts for IEC and UL switch-disconnector fuses	From 32 to 1250 A		B5/12
Handles	From 32 to 1250 A		B5/13
Other accessories	From 32 to 1250 A		B5/14

Switch-
disconnector
fuses

Technical Data for Designers

B5/17

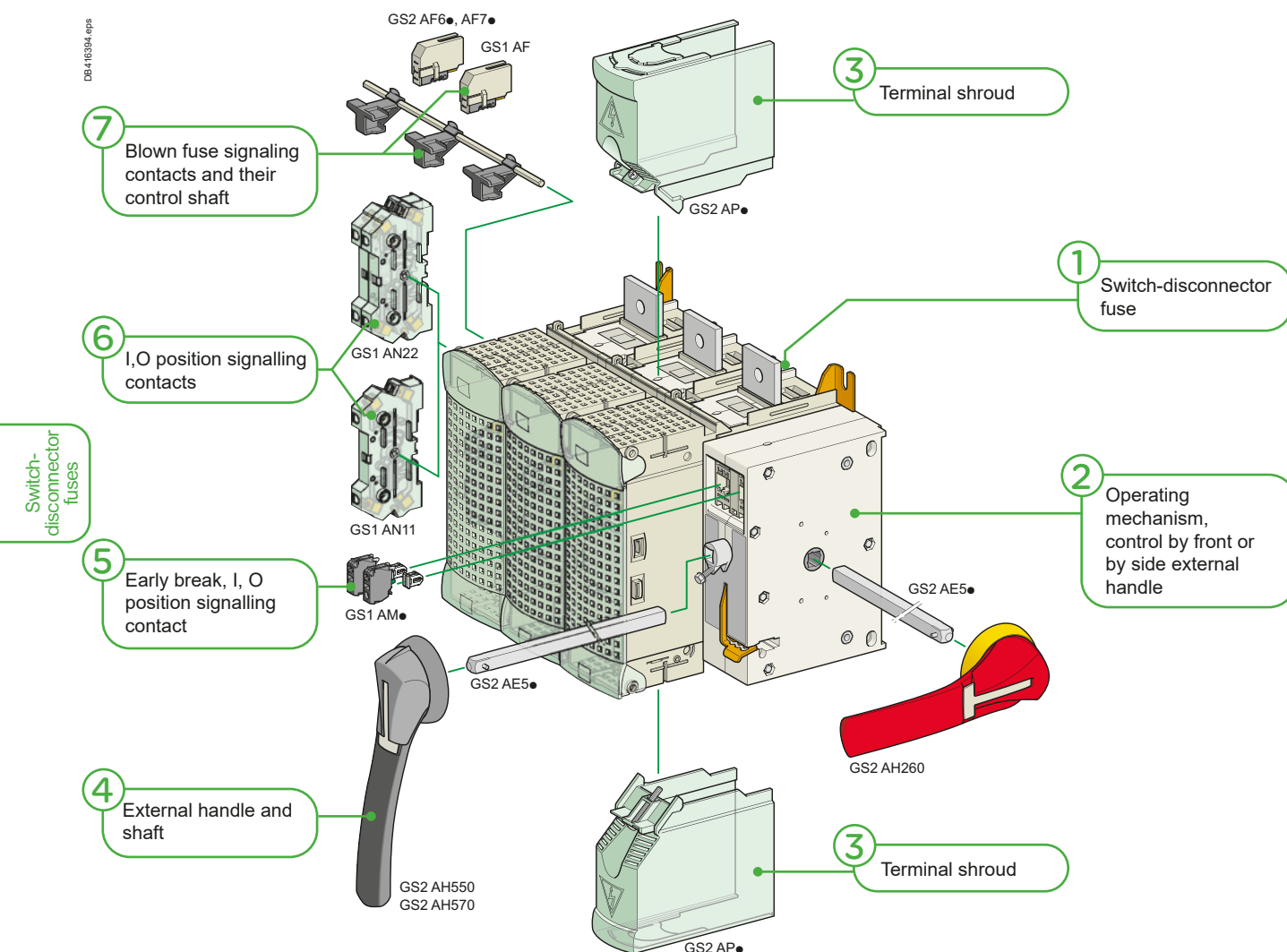
TeSys Power

Switch-disconnector fuses

Introduction

A customizable functional block

Whatever its rating, the switch-disconnector fuse fits the need: particular position of the handle, triggering of an automatic control before full opening, enhanced protection of terminals...



Customizable

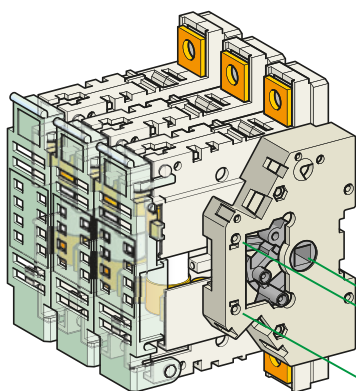
GS2630 A switch-disconnector fuse

- ① **Switch-disconnector fuse**
 - NFC/DIN or BS fuse compatible
 - Enhanced isolation between poles
 - On-load making/breaking with double break isolation of the power circuit
- ② **Operating mechanism**
 - For one front or side external handle, right or left side
 - Cavity for early-break contacts
- ③ **Terminal shrouds**
 - For use when the switch-disconnector fuse is installed outside an enclosure or when the operating voltage is over 500 V AC
- ④ **Operating handle**
 - Padlockable in open position
- ⑤ **GS1AM... Early-break signalling contacts**
 - Activated before the poles are opened
- ⑥ **GS1AN... Position signalling contacts**
 - Synchronized with the poles operation
- ⑦ **GS1AF... Blown fuse signalling contacts**
 - A missing fuse is also indicated

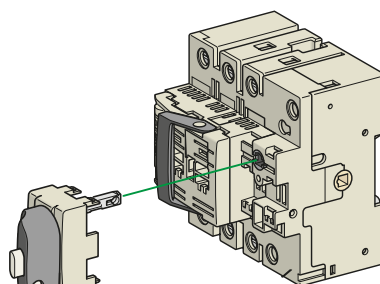
Simplicity of the direct operating

The mounting of an operating handle directly on the side of the switch-disconnector fuse is a simple operation. This handle will be for use by qualified personnel only. As the mechanical design is simplified, the manoeuvre will be immediately understood by the operator. Each handle can be padlocked in open position. Locking device for 3 padlocks.

DB416395 eps



DB416396 eps



Position of the handle, a free choice

GS2DB3 - 32 A switch-disconnector fuse
Direct front operating

GS1JD3 - 100 A switch-disconnector fuse
Direct lateral operating

GS1 AH01
GS1 AH02

Switch-disconnector fuses

Performance remote operating

Located on the front or side panel of an enclosure, the operating handle provide complementary features:

- simple (IP55) or reinforced (IP65) protection against dust
- intermediate "Test" position
- door interlock when the handle is in "Close" position, opening by mean of a special tool is needed for opening.
- optional key-operated handle lock

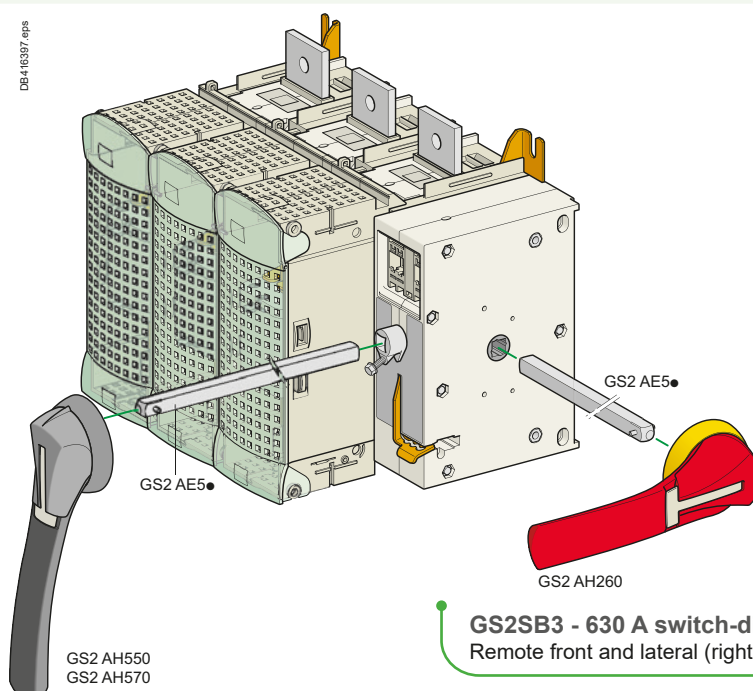


The handles are available in different lengths. They are chosen according the operating effort which depends on the rating of the switch-disconnector fuse.

The drive shaft can be cut to the ideal length.

The choice of a red and yellow handle (CNOMO standard) will identify an "Emergency Stop handle" among others handles, generally black and gray.

DB416397 eps



GS2 AH550
GS2 AH570

GS2SB3 - 630 A switch-disconnector fuse
Remote front and lateral (right only) operating

IEC - For NFC / DIN fuses - From 32 to 1250 A

																						
			GS1DD3		GS1FD3		GS1KD4															
Rating			A		32		50		63		100		125									
Number of poles			3		3+N		3		4		3		4									
Fuse size			10 x 38		14 x 51		Size 000		22 x 58		22 x 58											
For direct operators																						
Switch-disconnector fuses reference			GS1DD3		GS1DD4		GS1FD3		GS1FD4		GS1GD3		GS1GD4		GS1JD3		GS1JD4		GS1KD3		GS1KD4	
Handle			Black		GS1AH103		GS1AH01		GS1AH01		GS1AH02		GS1AH02									
Auxiliary contacts			O/I + Test		1NO + 1NC		-		GS1AN11		GS1AN11		GS1AN11									
					2NO + 2NC		-		GS1AN22		GS1AN22		GS1AN22									
			O/I + early break		GS1AM111 (1 OF)		GS1AM1 (1 OF)		GS1AM1 (1 OF)		GS1AM1 (1 OF)		GS1AM1 (1 OF)									
					GS1AM211 (2 OF)		GS1AM2 (2 OF)		GS1AM2 (2 OF)		GS1AM2 (2 OF)		GS1AM2 (2 OF)									
Blown fuse			-		GS1AF1		GS1AF1		-		GS1AF23		GS1AF24		GS1AF23		GS1AF24					
For external left hand side-mounted operators																						
Switch-disconnector fuses reference			GS1DD3		GS1DD4		GS2FG3		GS2FG4		GS2GG3		GS2GG4		GS2JG3		GS2JG4		GS2KG3		GS2KG4	
Handle			Black/Grey		IP65		GS2AH310		GS2AH310		GS2AH310		GS2AH310		GS2AH330		GS2AH330		GS2AH330		GS2AH330	
			Red/Yellow		IP65		GS2AH320		GS2AH320		GS2AH320		GS2AH320		GS2AH340		GS2AH340		GS2AH340		GS2AH340	
Auxiliary contacts			O/I + Test		1NO + 1NC		-		GS1AN11G		GS1AN11G		GS1AN11G		GS1AN11G		GS1AN11G		GS1AN11G		GS1AN11G	
					2NO + 2NC		-		GS1AN22G		GS1AN22G		GS1AN22G		GS1AN22G		GS1AN22G		GS1AN22G		GS1AN22G	
			O/I + early break		1NO		GS1AM110		GS1AM110		GS1AM110		GS1AM110		GS1AM110		GS1AM110		GS1AM110		GS1AM110	
					2NO		GS1AM101		GS1AM101		GS1AM101		GS1AM101		GS1AM101		GS1AM101		GS1AM101		GS1AM101	
Blown fuse			-		GS1AF1		GS1AF1		-		GS1AF23		GS1AF24		GS1AF23		GS1AF24		GS1AF23		GS1AF24	
For external front-mounted and right-hand side-mounted operators																						
Switch-disconnector fuses reference			GS1DD3		GS1DD4		GS2F3		GS2F4		GS2G3		GS2G4		GS2J3		GS2J4		GS2K3		GS2K4	
Front-mounted handle			Black/Grey		IP55		GS2AH515		GS2AH515		GS2AH515		GS2AH515		GS2AH535		GS2AH535		GS2AH535		GS2AH535	
			Black/Grey		IP65		GS2AH510		GS2AH510		GS2AH510		GS2AH510		GS2AH530		GS2AH530		GS2AH530		GS2AH530	
			Red/Yellow		IP65		GS2AH520		GS2AH520		GS2AH520		GS2AH520		GS2AH540		GS2AH540		GS2AH540		GS2AH540	
Front-mounted handle + Test position			Black/Grey		IP65		GS2AHT510		GS2AHT510		GS2AHT510		GS2AHT510		GS2AHT530		GS2AHT530		GS2AHT530		GS2AHT530	
			Red/Yellow		IP65		GS2AHT520		GS2AHT520		GS2AHT520		GS2AHT520		GS2AHT540		GS2AHT540		GS2AHT540		GS2AHT540	
RH side-mounted handle			Black/Grey		IP55		GS2AH215		GS2AH215		GS2AH215		GS2AH215		GS2AH235		GS2AH235		GS2AH235		GS2AH235	
			Black/Grey		IP65		GS2AH210		GS2AH210		GS2AH210		GS2AH210		GS2AH230		GS2AH230		GS2AH230		GS2AH230	
			Red/Yellow		IP65		GS2AH220		GS2AH220		GS2AH220		GS2AH220		GS2AH240		GS2AH240		GS2AH240		GS2AH240	
Auxiliary contacts			O/I + Test		1NO + 1NC		-		GS1AN11		GS1AN11		GS1AN11		GS1AN11		GS1AN11		GS1AN11		GS1AN11	
					2NO + 2NC		-		GS1AN22		GS1AN22		GS1AN22		GS1AN22		GS1AN22		GS1AN22		GS1AN22	
					1NO + 1NC + test		-		GS1ANT11		GS1ANT11		GS1ANT11		GS1ANT11		GS1ANT11		GS1ANT11		GS1ANT11	
					2NO + 2NC + test		-		GS1ANT22		GS1ANT22		GS1ANT22		GS1ANT22		GS1ANT22		GS1ANT22		GS1ANT22	
					O/I + Test + early break		1NO		-		GS1AM110		GS1AM110		GS1AM110		GS1AM110		GS1AM110		GS1AM110	
							1NC		-		GS1AM101		GS1AM101		GS1AM101		GS1AM101		GS1AM101		GS1AM101	
					Blown fuse		-		GS1AF1		-		GS1AF23		GS1AF24		GS1AF23		GS1AF24		GS1AF23	
Accessories																						
Shaft for external handle (mm)			200		GS2AE82		GS2AE22		GS2AE22		GS2AE22		GS2AE22		GS2AE22		GS2AE22		GS2AE22		GS2AE22	
			320		GS2AE8		GS2AE2		GS2AE2		GS2AE2		GS2AE2		GS2AE2		GS2AE2		GS2AE2		GS2AE2	
			400		GS2AE81		GS2AE21		GS2AE21		GS2AE21		GS2AE21		GS2AE21		GS2AE21		GS2AE21		GS2AE21	
Terminal shroud			Integrated		Integrated		Integrated		Integrated		Integrated		Integrated		GS1AP33 (3P), GS1AP34 (4P)		GS1AP33 (3P), GS1AP34 (4P)		GS1AP33 (3P), GS1AP34 (4P)		GS1AP33 (3P), GS1AP34 (4P)	
Dimensions																						
			Direct front-mounted version		page B5/25		page B5/26		page B5/26		page B5/26		page B5/26		page B5/26		page B5/26		page B5/26		page B5/26	
			External front-mounted version		page B5/25		page B5/27		page B5/27		page B5/27		page B5/27		page B5/27		page B5/27		page B5/27		page B5/27	

Handles





GS1KKD3



GS1LLD4



GS1ND3

125

3 4
Size 00

160

3 4 3 4
Size 00 Size 0

250

3 4
Size 1

400

3 4
Size 2

630

3 4
Size 3

1250

3 4
Size 4

GS1KKD3	GS1KKD4	GS1LLD3	GS1LLD4	GS1LD3	GS1LD4	GS1ND3	GS1ND4	GS1QQD3	GS1QQD4	GS2S3	GS2S4	GS2V3	GS2V4
GS1AH02										GS2AH104		GS2AH105	
GS1AN11													
GS1AN22													
GS1AM1 (1 OF)											GS1AM110 (1 NO)		
GS1AM2 (2 OF)											GS1AM101 (1 NC)		
-				GS1AF33	GS1AF34	GS1AF43	GS1AF44	GS1AF43	GS1AF44	GS2AF63	GS2AF64	GS2AF73	GS2AF74

GS2KKG3	GS2KKG4	GS2LLG3	GS2LLG4	GS2LG3	GS2LG4	GS2NG3	GS2NG4	GS2QQG3	GS2QQG4	GS2SG3	GS2SG4	GS2VG3	
GS2AH330										GS2AH350			
GS2AH340										GS2AH360			
GS1AN11G													
GS1AN22G													
GS1AM110													
GS1AM101													
-				GS1AF33	GS1AF34	GS1AF43	GS1AF44	GS1AF43	GS1AF44	GS2AF63	GS2AF64	GS2AF73	GS2AF74

GS2KK3	GS2KK4	GS2LL3	GS2LL4	GS2L3	GS2L4	GS2N3	GS2N4	GS2QQ3	GS2QQ4	GS2S3	GS2S4	GS2V3	GS2V4
GS2AH535										-			
GS2AH530										GS2AH550		GS2AH570	
GS2AH540										GS2AH560		GS2AH580	
GS2AHT530										-			
GS2AHT540										-			

GS2AH235										-			
GS2AH230										GS2AH250			
GS2AH240										GS2AH260			
GS1AN11													
GS1AN22													
GS1ANT11										-			
GS1ANT22										-			
GS1AM110										-			
GS1AM101										-			
-				GS1AF33	GS1AF34	GS1AF43	GS1AF44	GS1AF43	GS1AF44	GS2AF63	GS2AF64	GS2AF73	GS2AF74

GS2AE22										GS2AE52			
GS2AE2										GS2AE5			
GS2AE21										GS2AE51			
GS1AP33 (3P), GS1AP34 (4P)								GS1AP43 (3P), GS1AP44 (4P)		GS2AP73	GS2AP64	GS2AP83	GS2AP84

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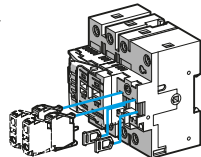
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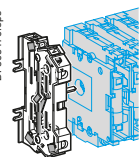
Auxiliary contacts

DF588473.eps



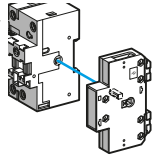
GS1AM1●●

DF588476.eps



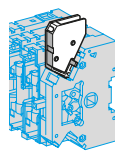
GS1AN●●●

DF588474.eps



GS1AM11

DF588475.eps



GS1AM●



See details on auxiliary contacts, page B5/12.

Maximal number of auxiliary contacts

Switch rating (A)	Standard configuration	With additional bracket	Reference of additional bracket
30...32	4	4	GS1AD10 ⁽¹⁾
32...400	4	4	GS2AD20 ⁽²⁾
200...400	8	8	GS2AD20 ⁽²⁾
630...1250	8	-	-

⁽¹⁾ Only compatible with switch disconnector fuses starting by GS1D●●⁽²⁾ Only compatible with switch disconnector fuses starting by GS2●●●

IEC - For BS fuses - From 32 to 1250 A



GS1DDB3



GS2JB3

Rating	A	32	63	100	160
Number of poles		3 3+N	3 4	3 4	3 4
Fuse size		A1	A1	A2-A3	A4

For direct operators

Switch-disconnector fuses reference	GS1DDB3	GS1DDB4	-
Handle	Black	GS1AH103	-
Auxiliary contacts	O/I + Test	1NO + 1NC	-
		2NO + 2NC	-
	O/I + early break	GS1AM111 (1 OF)	-
		GS1AM211 (2 OF)	-

For external front-mounted and right-hand side-mounted operators

Switch-disconnector fuses reference	GS1DDB3	GS1DDB4	GS2DB3	GS2DB4	GS2GB3	GS2GB4	GS2JB3	GS2JB4	GS2LLB3	GS2LLB4	GS2LB3	GS2LB4
Front-mounted handle	Black/Grey IP55	GS2AH515					GS2AH535					
	Black/Grey IP65	GS2AH510					GS2AH530					
	Red/Yellow IP65	GS2AH520					GS2AH540					
Front-mounted handle + Test position	Black/Grey IP65	GS2AHT510					GS2AHT530					
	Red/Yellow IP65	GS2AHT520					GS2AHT540					
RH side-mounted handle	Black/Grey IP55	GS2AH215					GS2AH235					
	Black/Grey IP65	GS2AH210					GS2AH230					
	Red/Yellow IP65	GS2AH220					GS2AH240					
Auxiliary contacts	O/I + Test	1NO + 1NC	-	GS1AN11								
		2NO + 2NC	-	GS1AN22								
		1NO + 1NC + test	-	GS1ANT11								
		2NO + 2NC + test	-	GS1ANT22								
	O/I + Test + early break	1NO	GS1AM110 - max 4 contacts									
		1NC	GS1AM101 - max 4 contacts									

Accessories

Shaft for external handle (mm)	200	GS2AE82	GS2AE22
	320	GS2AE8	GS2AE2
	400	GS2AE81	GS2AE21
Terminal shroud	Integrated	GS1AP33 (3P), GS1AP34 (4P)	

Dimensions

Direct front-mounted version	page B5/25	page B5/26
External front-mounted version	page B5/25	page B5/27



GS2MMB3



GS2SB3

200			250		315		400		630		800		1250			
3	4		3	4	3	4	3	4	3	4	3	4	3	4		
B1-B2			B1...B3		B1...B3		B1...B4		C1-C2		C1...C3		D1			
-									-			-				
-									-			-				
-									-			-				
-									-			-				
-									-			-				
GS2MMB3		GS2MMB4	GS2NB3	GS2NB4	GS2PPB3	GS2PPB4	GS2QQB3	GS2QQB4	GS2SB3	GS2SB4	GS2TB3	GS2TB4		GS2VB4		
GS2AH535									-							
GS2AH530									GS2AH550						GS2AH570	
GS2AH540									GS2AH560						GS2AH580	
GS2AHT530									-							
GS2AHT540									-							
GS2AH235									-							
GS2AH230									GS2AH250							
GS2AH240									GS2AH260							
GS1AN11																
GS1AN22																
GS1ANT11									-							
GS1ANT22									-							
GS1AM110 - max 8 contacts																
GS1AM101 - max 8 contacts																
GS2AE22									GS2AE52							
GS2AE2									GS2AE5							
GS2AE21									GS2AE51							
GS1AP43 (3P), GS1AP44 (4P)									GS2AP73 (3P), GS2AP64 (4P)						GS2AP83	GS2AP84
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page B5/27									page B5/29							

Switch-disconnector
fuses

TeSys Power

Switch-disconnector fuses

Product references

UL - For CC and J fuses - From 32 to 800 A



GS1DU3



GS2GU3N

Rating			30 Compact		30		60		100		
Number of poles			3		3		3		3		
Fuse size			CC	J	CC	J	J	J			
For direct operators											
Switch-disconnector fuses reference			GS1DDU3	GS1DU3							
Handle	Black		GS1AH106	-							
Auxiliary contacts	O/I + Test	1NO + 1NC									
		2NO + 2NC									
	O/I + early break	1NO	GS1AM110 + GS1AD10				-				
		1NC	GS1AM101 + GS1AD10				-				
For external front-mounted operators											
Switch-disconnector fuses reference			GS1DDU3	GS1DU3	GS2EEU3	GS2EU3N	GS2GU3N	GS2JU3N			
Front-mounted handle	Black/Grey	1,3R, 12	GS2AH110		GS2AH130						
		4, 4X	GS2AH410		GS2AH430						
	Red/Yellow	1,3R, 12	GS2AH120		GS2AH140						
		4, 4X	GS2AH420		GS2AH440						
Front-mounted handle + Test position	Black/Grey	1,3R, 12	GS2AHT110		GS2AHT130						
		4, 4X	GS2AHT410		GS2AHT430						
	Red/Yellow	1,3R, 12	GS2AHT120		GS2AHT140						
		4, 4X	GS2AHT420		GS2AHT440						
Auxiliary contacts	O/I + Test	1NO + 1NC			GS1AN11						
		2NO + 2NC			GS1AN22						
		1NO + 1NC + test			GS1ANT11						
		2NO + 2NC + test			GS1ANT22						
	O/I + Test + early break	1NO	GS1AM110 - max 4 contacts ⁽¹⁾		GS1AM110 - max 4 contacts ⁽¹⁾						
		1NC	GS1AM101 - max 4 contacts ⁽¹⁾		GS1AM101 - max 4 contacts ⁽¹⁾						
Accessories											
Shaft for external handle (mm)	320	GS2AE8		GS2AE2							
	400	GS2AE81		GS2AE21							
Terminal shroud		Integrated									
Dimensions											
	Direct front-mounted version		page B5/25				page B5/26				
	External front-mounted version		page B5/25				page B5/27				

(1) 4 more contacts allowed with GS1AD10 additional bracket.



GS2QU3N



GS2TU3

	200	400	600	800
	3	3	3	3
	J	J	J	J
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	GS2MU3N	GS2QU3N	GS2SU3	GS2TU3
	GS2AH130		-	
	GS2AH430		GS2AH150	
	GS2AH140		-	
	GS2AH440		GS2AH160	
	GS2AHT130		-	
	GS2AHT430		-	
	GS2AHT140		-	
	GS2AHT440		-	
	GS1AN11			
	GS1AN22			
	GS1ANT11		-	
	GS1ANT22		-	
	GS1AM110 - max 8 contacts ⁽¹⁾		GS1AM110 - max 8 contacts only	
	GS1AM101 - max 8 contacts ⁽¹⁾		GS1AM101 - max 8 contacts only	
	GS2AE2		GS2AE5	
	GS2AE21		GS2AE51	
	GS2AP43	GS2AP53	GS2AP73	
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	page B5/27		page B5/29	



Switch-
disconnector
fuses

TeSys Power

Switch-disconnector fuses

Product references

812889 eps
DF2CA●●●
DF2CN●●

812888 eps
DF2EA●●●
DF2EN●●

812887 eps
DF2FA●●
DF2FN●●

Switch-
disconnector
fuses

NFC Cartridge fuses - Type aM / gG - From 0.25 to 125 A					
Fuse type	Maximum rated voltage	Rating	Sold in lots of	Fuses without striker	
	V ~	A		Unit reference	
				aM	gG
Cylindrical 8.5 x 31.5	400	1	10	—	DF2BN0100
		2	10	DF2BA0200	DF2BN0200
		4	10	DF2BA0400	DF2BN0400
		6	10	DF2BA0600	DF2BN0600
		8	10	—	DF2BN0800
		10	10	—	DF2BN1000
		12	10	—	DF2BN1200
		16	10	—	DF2BN1600
Cylindrical 10 x 38	500	20	10	—	DF2BN2000
		0.50	10	DF2CA005	—
		1	10	DF2CA01	—
		2	10	DF2CA02	DF2CN02
		4	10	DF2CA04	DF2CN04
		6	10	DF2CA06	DF2CN06
		8	10	DF2CA08	DF2CN08
		10	10	DF2CA10	DF2CN10
	400	12	10	DF2CA12	DF2CN12
		16	10	DF2CA16	DF2CN16
		20	10	—	DF2CN20
		20	10	DF2CA20	—
		25	10	DF2CA25	DF2CN25
		32	10	DF2CA32	DF2CN32
Cylindrical 14 x 51	690	0.25	10	DF2EA002	—
		0.50	10	DF2EA005	—
	500	16	10	DF2EA16	—
		20	10	DF2EA20	—
		25	10	DF2EA25	DF2EN25
		32	10	DF2EA32	DF2EN32
		40	10	DF2EA40	DF2EN40
	400	50	10	DF2EA50	DF2EN50
Cylindrical 22 x 58	690	10	10	—	DF2FN10
		20	10	—	DF2FN20
		25	10	—	DF2FN25
		32	10	—	DF2FN32
		40	10	DF2FA40	DF2FN40
	500	50	10	DF2FA50	DF2FN50
		63	10	DF2FA63	DF2FN63
		80	10	DF2FA80	DF2FN80
		100	10	DF2FA100	DF2FN100
	400	125	10	DF2FA125	—



For protection of equipment with current peaks
For protection of circuits without significant current peaks

TeSys Power

Switch-disconnector fuses

Product references



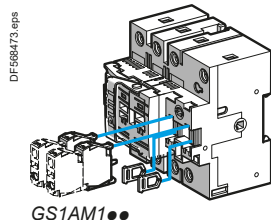
DF2HA1161

DIN Cartridge fuses - Type aM /gG - From 10 to 1250 A								
Fuse type	Maximum rated voltage	Rating	Sold in lots of		Fuses without striker		Fuses with striker	
					Unit reference		Unit reference	
	V ~	A	aM	gG	aM	gG	aM	gG
Blade size 00	690	100	3	10	—	DF2FGN100	—	—
		125	3	10	—	DF2FGN125	—	—
		500	—	10	—	DF2FGN160	—	—
Blade size 1	690	160	3	3	DF2HA1161	—	—	—
		200	3	3	DF2HA1201	DF2HN1201	—	—
		250	3	—	DF2HA1251	—	—	—
		500	—	3	—	DF2HN1251	—	—

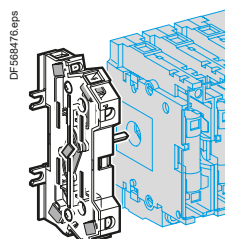
Switch-disconnector fuses



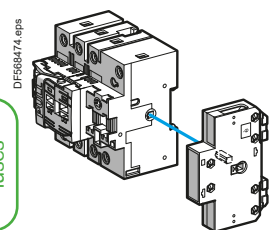
For protection of equipment with current peaks
For protection of circuits without significant current peaks



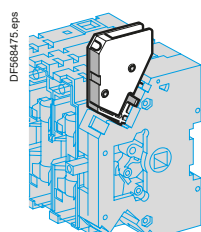
GS1AM1●●



GS1AN●●●



GS1AM11



GS1AF●●

Auxiliary contacts for IEC and UL switch-disconnector fuses

Auxiliary early break and/or O, I and Test position signalling contacts ^{(1) (2) (3)}

Switch rating	Contact type	Type of operator	Rated operating current I _e (A)		Reference
A (CEI)	A (UL)		< 24 V DC	< 240 V AC	
32...1250	30 Compact	1 N/O	2.8	3	GS1AM110
	30...800	1 N/C	2.8	3	GS1AM101

Auxiliary O, I and Test position signalling contacts ^{(3) (5)}

Switch rating	Contact type	Type of operator	Rated operating current I _e (A)		Reference
A (CEI)	A (UL)		< 24 V DC	< 240 V AC	

Auxiliary O and I position signalling contacts

50...1250	30...800	1 N/C + 1 N/O	External, front or RH side-mounted Direct	—	10	GS1AN11
			External, LH side	—	10	GS1AN11G*
		2 N/C + 2 N/O	External, front or RH side-mounted Direct	—	10	GS1AN22
			External, LH side	—	10	GS1AN22G*

Auxiliary O, I and Test position signalling contacts ⁽³⁾

50...400	30...400	1 N/C + 1 N/O	External, front side-mounted	—	10	GS1ANT11
		2 N/C + 2 N/O	External, front side-mounted	—	10	GS1ANT22

Auxiliary early break O and I position signalling contacts

Switch rating	Contact type	Type of operator	Rated operating current I _e (A)		Reference
A (CEI)			< 24 V DC	< 240 V AC	
32	1 C/O	—	12	4	GS1AM111*
	2 C/O	—	12	4	GS1AM211*
50...400	1 C/O	Direct, RH side	12	4	GS1AM1*
	2 C/O	Direct, RH side	12	4	GS1AM2*

Auxiliary "blown fuse" signalling contacts for use with NF C and DIN fuses ⁽⁶⁾

Contact type	Switch rating	Fuse size	Number of poles	Rated operating current I _e (A)		Reference
	A (CEI)			< 24 V DC	< 240 V AC	
1 st C/O	50	14 x 51	3 or 4	12	4	GS1AF1*
	100 and 125	22 x 58	3	12	4	GS1AF23*
			4	12	4	GS1AF24*
	160	Size 0	3	12	4	GS1AF33*
			4	12	4	GS1AF34*
	250 and 400	Size 1 and Size 2	3	12	4	GS1AF43*
			4	12	4	GS1AF44*
	630	Size 3	3	12	4	GS2AF63*
			4	12	4	GS2AF64*
	1250	Size 4	3	12	4	GS2AF73*
			4	12	4	GS2AF74*
2 nd C/O	50...1250	—	3 or 4	12	4	GS1AF*

(*) Not for UL switch-disconnector.

(1) For 32 A (CEI), 30 (UL) switch-disconnector fuses, these auxiliary contacts allow:

- early break and O and I position signalling,
- O, I and Test position signalling,
- O and I position signalling,
- Test position signalling.

For 50 to 400 A (CEI), 30-400 A (UL) switch-disconnector fuses, they allow:

- early break,
- O and I position signalling,
- O, I and Test position signalling,
- Test position signalling.

For 630 and 1250 A (CEI), 630 and 800 A (UL) switch-disconnector fuses, they allow:

- early break and O and I position signalling,

(2) Maximum number of auxiliary contacts:

Switch rating	Standard	With additional bracket	Reference of additional bracket
A (CEI)	A (UL)		
32 ⁽⁷⁾	30 Compact	CC 4	4 + 4
		J 2	2 + 4
32 ⁽⁸⁾ ...160	30...100	4	4 + 4
200...400	200 and 400	8	8 + 4
630...1250	600 and 800	8	8

(3) The Test position allows testing of the control circuits off-load. Auxiliary contacts GS1AM110, GS1AM101 and GS1ANT●● only allow the test function with external handles GS2AHT●●.

(4) These auxiliary contacts can also be used with 630, 800 and 1250 A switch-disconnector fuses fitted with a direct front-mounted operator.

(5) Reversible add-on attachments for converting an N/C contact to an N/O contact and vice versa.

(6) For striker fuses (BS fuses are not available with striker).

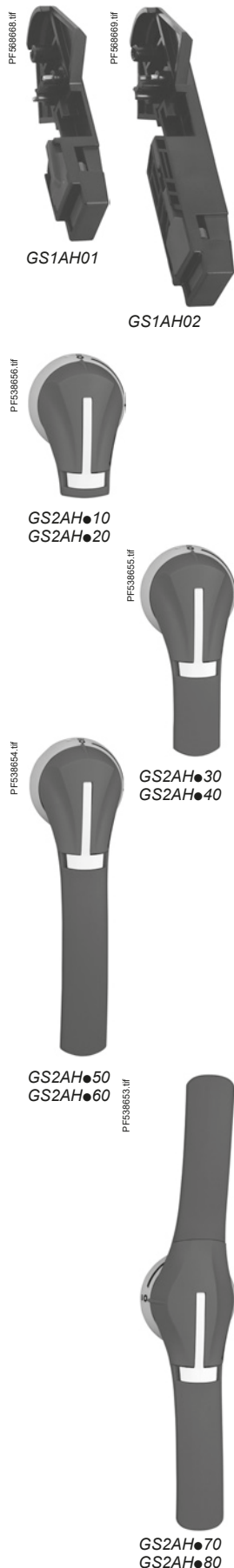
(7) For GS1DDB3 fuse switch disconnector only.

(8) For 32 A: for fuse switch disconnector GS2DB3 only.

TeSys Power

Switch-disconnector fuses - Handles

Product references



Handles for IEC and UL switch-disconnector fuses

Handles for direct operators

Switch rating	Type of operator	Handle colour	Reference
A (CEI) A (UL)			
Handles for direct operators, padlockable			
- 30 Compact	Front-mounted	Black	GS2AH106
32	Front	Black	GS1AH103
50 and 63	RH side	Black	GS1AH01
100...400	RH side	Black	GS1AH02
- 600 and 800	Front-mounted	Black	GS2AH107
630 and 800	Front	Black	GS2AH104
1250	Front	Black	GS2AH105

Handles for external operator

Switch rating	Handle colour	Degree of protection	Protection index Nema	Reference
A (CEI) A (UL)				
Handles for front-mounted external operators, padlockable and lockable in position O ⁽¹⁾				
Door interlock in I position ⁽²⁾				
32...63	-	Black/Grey	IP 65	GS2AH510
		Red/Yellow	IP55	GS2AH515
		Red/Yellow	IP 65	GS2AH520
100...400	-	Black/Grey	IP 65	GS2AH530
		Red/Yellow	IP55	GS2AH535
		Red/Yellow	IP 65	GS2AH540
630 and 800	-	Black/Grey	IP65	GS2AH550
		Red/Yellow	IP65	GS2AH560
1250	-	Black/Grey	IP65	GS2AH570
		Red/Yellow	IP65	GS2AH580
- 30 Compact	Black/Grey	-	1, 3R, 12	GS2AH110
	Red/Yellow	-	1, 3R, 12	GS2AH120
	Black/Grey	-	1, 3R, 4, 4X, 12	GS2AH410
	Red/Yellow	-	1, 3R, 4, 4X, 12	GS2AH420
- 30...400	Black/Grey	-	1, 3R, 12	GS2AH130
	Red/Yellow	-	1, 3R, 12	GS2AH140
	Black/Grey	-	1, 3R, 4, 4X, 12	GS2AH430
	Red/Yellow	-	1, 3R, 4, 4X, 12	GS2AH440
- 600 and 800	Black/Grey	-	1, 3R, 12	GS2AH150
	Red/Yellow	-	1, 3R, 12	GS2AH160

Handles for front-mounted external operators with test facility ⁽³⁾, padlockable and lockable in "O" position ⁽¹⁾. Door interlock in "I" position ⁽²⁾

32...63	-	Black/Grey	IP 65	-	GS2AHT510
		Red/Yellow	IP65	-	GS2AHT520
100...400	-	Black/Grey	IP65	-	GS2AHT530
		Red/Yellow	IP65	-	GS2AHT540
- 30 Compact	Black/Grey	-	1, 3R, 12	-	GS2AHT110
	Red/Yellow	-	1, 3R, 12	-	GS2AHT120
	Black/Grey	-	1, 3R, 4, 4X, 12	-	GS2AHT410
	Red/Yellow	-	1, 3R, 4, 4X, 12	-	GS2AHT420
- 30...400	Black/Grey	-	1, 3R, 12	-	GS2AHT130
	Red/Yellow	-	1, 3R, 12	-	GS2AHT140
	Black/Grey	-	1, 3R, 4, 4X, 12	-	GS2AHT430
	Red/Yellow	-	1, 3R, 4, 4X, 12	-	GS2AHT440

Handles for external right-hand side-mounted operators, padlockable and lockable in "O" position ⁽¹⁾

32...63	-	Black/Grey	IP 65	-	GS2AH210
		Red/Yellow	IP55	-	GS2AH215
		Red/Yellow	IP65	-	GS2AH220
100...400	-	Black/Grey	IP65	-	GS2AH230
		Red/Yellow	IP55	-	GS2AH235
		Red/Yellow	IP65	-	GS2AH240
630...1250	-	Black/Grey	IP65	-	GS2AH250
		Red/Yellow	IP65	-	GS2AH260

Handles for external left-hand side-mounted operators, padlockable and lockable in "O" position ⁽¹⁾

32...63	-	Black/Grey	IP 65	-	GS2AH310
		Red/Yellow	IP65	-	GS2AH320
100...400	-	Black/Grey	IP65	-	GS2AH330
		Red/Yellow	IP65	-	GS2AH340
630...1250	-	Black/Grey	IP65	-	GS2AH350
		Red/Yellow	IP65	-	GS2AH360

⁽¹⁾ Lockable with device **GS2AX1**, to be ordered separately.

⁽²⁾ Door interlock override by means of a tool.

⁽³⁾ The Test facility allows testing of the control circuits off-load, by using auxiliary contacts **GS1AM110**, **GS1AM101** or **GS1ANT●●**. In the "Test" position, the enclosure door can be opened.

Dimensions:
pages B5/25 to B5/32

PB121455.eps



GS2AE5

PB121456.eps



GS2AE2 - GS2AE21

PB121457.tif



GS2AE8 - GS2AE81

Switch-
disconnector
fuses

Accessories for IEC and UL switch-disconnector fuses

Shafts for external operators

Switch rating A (CEI)	A (UL)	Shaft length mm	Shaft cross section mm	Reference
32	30 Compact	200	5 x 5	GS2AE82
		320	5 x 5	GS2AE8
		400	5 x 5	GS2AE81
50...400	30...400	200	10 x 10	GS2AE22
		320	10 x 10	GS2AE2
		400	10 x 10	GS2AE21
630...1250	600 and 800	200	12 x 12	GS2AE52
		320	12 x 12	GS2AE5
		40	12 x 12	GS2AE51

Terminal protection shrouds for upstream or downstream connector plates

Switch rating A (CEI)	A (UL)	Number of poles	Reference
50 and 63	30 Compact, 30...60 (3P)	3 or 4	⁽¹⁾
100...160	100	3	GS1AP33
	—	4	GS1AP34
200...400	200	3	GS1AP43
	—	4	GS1AP44
—	400	3	GS1APU53
630...800	600 and 800	3	GS2AP73
	—	4	GS2AP64
1250	—	3	GS2AP83
		4	GS2AP84

Devices for locking fuse covers in "I" position ⁽²⁾

Switch rating A	Fuse size	Number of poles	Reference
50	14 x 51	3 or 4	⁽³⁾
63	Size 00C	3 or 4	GS1AV1
100...160	22 x 58, Size 00	3 or 4	GS1AV2
160	Size 0	3	GS1AV33
250	Size 1	3	GS1AV53
		4	GS1AV54
400	Size 2	3	GS1AV73
		4	GS1AV74

Cage terminals for connection of bare cables (without lug)

Switch rating A	Number of poles	Reference
50 and 63	3 or 4	⁽⁴⁾
100...160	3	GS1AW33
	4	GS1AW34
200...250	3	GS1AW43
	4	GS1AW44

External handle locking device

Switch rating A	Description	Reference
32...1250	Device for RONIS EL11AP keylock (lock to be ordered separately).	GS2AX1

Flat mounting kit

Switch rating A	Description	Reference
50...400	The kit, for use with a front-mounted external handle, includes: ■ a 200 mm shaft, cross section 10 x 10 mm, ■ an adapter plate	GS2ADL2

⁽¹⁾ For these ratings, the switch-disconnector fuses are fitted with terminal covers as standard.

⁽²⁾ For NF C and DIN switch-disconnector fuses fitted with right-hand mounted direct operator.

⁽³⁾ For this rating, switch-disconnector fuses are fitted with a cover locking device as standard.

⁽⁴⁾ For these ratings, switch-disconnector fuses are fitted with cage terminals as standard.

TeSys Power

Switch-disconnector fuses

Product references

Switch-
disconnector
fuses

GS1AD010	GS1DDB3	GS2AH250	GS2J4
GS1AD10	GS1DDB4	GS2AH260	GS2JB3
GS1AE6	GS1DDU3	GS2AH310	GS2JB4
GS1AE7	GS1DU3	GS2AH320	GS2JG3
GS1AF	GS1FD3	GS2AH330	GS2JG4
GS1AF1	GS1FD4	GS2AH340	GS2JU3N
GS1AF23	GS1GD3	GS2AH350	GS2K3
GS1AF24	GS1GD4	GS2AH360	GS2K4
GS1AF33	GS1JD3	GS2AH36F	GS2KKG3
GS1AF34	GS1JD4	GS2AH410	GS2KKG4
GS1AF43	GS1KD3	GS2AH420	GS2KK3
GS1AF44	GS1KD4	GS2AH430	GS2KK4
GS1AH01	GS1KKD3	GS2AH440	GS2KKG3
GS1AH02	GS1KKD4	GS2AH460F	GS2KKG4
GS1AH101	GS1LD3	GS2AH510	GS2L3
GS1AH102	GS1LD4	GS2AH515	GS2L4
GS1AH103	GS1LLD3	GS2AH520	GS2LB3
GS1AH110	GS1LLD4	GS2AH530	GS2LB4
GS1AH130	GS1ND3	GS2AH535	GS2LG3
GS1AH160	GS1ND4	GS2AH540	GS2LG4
GS1AH220	GS1QQD3	GS2AH550	GS2LL3
GS1AH440	GS1QQD4	GS2AH560	GS2LL4
GS1AM1	GS2AD030N	GS2AH570	GS2LLB3
GS1AM101	GS2AD040N	GS2AH580	GS2LLB4
GS1AM110	GS2AD20	GS2AH60F	GS2LLG3
GS1AM111	GS2ADL2	GS2AHT110	GS2LLG4
GS1AM2	GS2AE2	GS2AHT120	GS2MLU3N
GS1AM211	GS2AE21	GS2AHT130	GS2MMB3
GS1AN11	GS2AE22	GS2AHT140	GS2MMB4
GS1AN11G	GS2AE23	GS2AHT410	GS2MU3N
GS1AN22	GS2AE5	GS2AHT420	GS2N3
GS1AN22G	GS2AE51	GS2AHT430	GS2N4
GS1ANT11	GS2AE52	GS2AHT440	GS2NB3
GS1ANT22	GS2AE61	GS2AHT510	GS2NB4
GS1AP33	GS2AE8	GS2AHT520	GS2NG3
GS1AP34	GS2AE81	GS2AHT530	GS2NG4
GS1AP43	GS2AE82	GS2AHT540	GS2PPB3
GS1AP44	GS2AEH12	GS2AP43	GS2PPB4
GS1AP63	GS2AESB	GS2AP53	GS2QQ3
GS1AP83	GS2AF63	GS2AP64	GS2QQ4
GS1AV1	GS2AF64	GS2AP73	GS2QQB3
GS1AV2	GS2AF73	GS2AP83	GS2QQB4
GS1AV33	GS2AF74	GS2AP84	GS2QQG3
GS1AV54	GS2AH100TO200	GS2AX1	GS2QQG4
GS1AV73	GS2AH104	GS2DB3	GS2QU3N
GS1AW303	GS2AH106	GS2DB4	GS2S3
GS1AW306	GS2AH110	GS2EEU3	GS2S4
GS1AW33	GS2AH120	GS2EU3N	GS2SB3
GS1AW34	GS2AH130	GS2F3	GS2SB4
GS1AW403	GS2AH140	GS2F4	GS2SG3
GS1AW406	GS2AH150	GS2FG3	GS2SG4
GS1AW43	GS2AH160	GS2FG4	GS2SU3
GS1AW44	GS2AH170	GS2G3	GS2TB3
GS1AW503	GS2AH180	GS2G4	GS2TB4
GS1AW506	GS2AH210	GS2GB3	GS2TU3
GS1AW603	GS2AH215	GS2GB4	GS2V3
GS1AW606	GS2AH220	GS2GG3	GS2V4
GS1AW903	GS2AH230	GS2GG4	GS2VG3
GS1DD3	GS2AH235	GS2GU3N	LC1BL
GS1DD4	GS2AH240	GS2J3	

This document is current. Click on the product reference to get the most recent availability status (hyperlink to [se.com](https://www.se.com) product datasheet). If your product variant is no longer available, please consult your distributor or regional sales office.

Technical Data for Designers

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TeSys Power

Switch-disconnector fuses

Characteristics

IEC - For NFC / DIN fuses - From 32 to 1250 A

Switch-disconnector-fuse characteristics

Type			GS1DD		GS●F	GS●G	GS●J
Environment							
Conforming to standards	Switch-disconnector fuses		IEC 60947-3				
	Fuses		IEC 60269-1 and 2				
Product certifications			ASEFA/LOVAG, LROS, UKCA				
Degree of protection conforming to IEC 60529	On front panel with terminal covers		IP 20				
Ambient air temperature around the device	Storage	°C	-40...+80				
	Operation	°C	-20...+70				
Flame resistance conforming to IEC 60695-2-1	Body	°C	960	960			
	Fuse cover	°C	–	850			
Pole characteristics							
Conventional thermal current (Ith) for ambient temperature ≤ 40 °C		A	32	50	63	100	
Fuse size			10 x 38	14 x 51	T00C	22 x 58	
Rated insulation voltage (Ui)		V	800	750	750	750	
Rated impulse withstand voltage (Uimp)		kV	8	8	8	8	
Rated operational current (Ie)	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	A	32	50	63	100	
	~ 500 V	A	32	50	63	100	
	~ 690 V	A	32	50	63	100 ⁽³⁾	
	Cat. DC-23A/B ⁽¹⁾ ≡ 440 V ⁽²⁾	A	20	40	40	100	
Rated operational power	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	kW	15	25	30	51	
	~ 500 V	kW	18.5	33	40	63	
	~ 690 V	kW	25	45	55	90	
Rated conditional short-circuit current	I rms at ~ 400 V with protection by gG (gl) fuses	kA	100	100	100	100	
	Rating of associated fuses	A	32	50	63	100	
Peak value of permissible current (dynamic short-circuit withstand)	Conforming to IEC 60269-1 ~ 400 V	kA	5.5	7.6	10.6	20	
Rated making capacity	I rms at 400 V Cat. AC-23B	A	320	500	630	1000	
Rated breaking capacity	I rms at 400 V Cat. AC-23B	A	256	400	500	800	
Mechanical durability	Number of operating cycles		20000	10000	10000	10000	
Electrical durability	Number of operating cycles cat. AC/DC-23A/B ⁽¹⁾		1500/300	1500/300	1500/300	1500/300	
Cabling	Cable (c.s.a. min/max)	mm²	2.5/16	6/25	10/25	25/95	
	Bars (max width)	mm	–	–	–	20	
Tightening torque		N.m	3	3.2	3.2	12	

⁽¹⁾ Category "A": frequent operating cycles, category "B": infrequent operating cycles.

⁽²⁾ 2 poles in series per phase.

⁽³⁾ With terminal covers.

⁽⁴⁾ Poles not juxtaposed.

	GS●K	GS●KK	GS●LL	GS●L	GS●N	GS●QQ	GS2S	GS2V
	IEC 60947-3							
	IEC 60269-1 and 2							
	ASEFA/LOVAG, LROS, UKCA							
	IP 20							
	-40...+80							
	-20...+70							
	960							
	850							
	125	125	160	160	250	400	630	1250
	22 x 58	T00	T00	T0	T1	T2	T3	T4
	750	750	750	750	750	800	1000	1000
	8	8	8	8	8	8	12	12
	125	125	160	160	250	400	630	1000
	125	125	160	160	250	315	500	800
	100 ⁽³⁾	100 ⁽³⁾	125 ⁽³⁾	125 ⁽³⁾	250 ⁽³⁾	250/315	315/400	630
	100	100	125	125	200	200/315 ⁽⁴⁾	400/630 ⁽⁴⁾	1000
	63	63	80	80	132	220	355	560
	90	90	110	110	160	220	355	560
	80	80	110	110	220	220/295	295/400	400/475
	100	100	100 (50)	100	100	50	100	100
	125	125	125 (160)	160	250	400	630	1250
	20	20	22.7	20	32.5	40	70	90
	1250	1250	1600	1600	2500	4000	6300	10 000
	1000	1000	1280	1280	2000	3200	5040	8000
	10000	10000	10000	10000	10000	10000	8000	5000
	1000/200	1000/200	1000/200	1000/200	1000/200	1000/200	1000/200	500/100
	35/95	35/95	50/95	50/95	95/240	185/240	2 x 150 / 2 x 300	- / 4 x 185
	20	20	20	20	32	45	63	80
	12	12	12	12	25	25	44	44

Ref.

Switch-
disconnector
fuses

TeSys Power

Switch-disconnector fuses

Characteristics

IEC - For BS fuses - From 32 to 1250 A

Switch-disconnector-fuse characteristics						
Type		GS1DDB		GS2DB	GS2GB	GS2JB
Environment						
Conforming to standards	Switch-disconnector fuses		IEC 60947-3			
	Fuses		IEC 60269-1 and 2			
Product certifications			ASEFA/LOVAG, LROS, UKCA			
Degree of protection conforming to IEC 60529	On Front panel, with terminal covers		IP 20			
Ambient air temperature around the device	Storage	°C	-40...+80			
	Operation	°C	-20...+70			
Flame resistance conforming to IEC 60695-2-1	Body	°C	960			
	Fuse cover	°C	–		850	
Pole characteristics						
Conventional thermal current (I _{th}) for ambient temperature ≤ 40 °C		A	32	32	63	100
Fuse size			A1	A1	A2-A3	A4 Ø ≤ 31 mm
Rated insulation voltage (U _i)		V	800	750	750	750
Rated impulse withstand voltage (U _{imp})		kV	8	8	8	8
Rated operational current (I _e)	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	A	32	32	63	100
	~ 500 V	A	32	32	63	100
	~ 690 V	A	32	32	63	100 ⁽⁴⁾
	Cat. DC-23A/B ⁽¹⁾ --- 440 V ⁽²⁾	A	20	20	40	100
Rated operational power	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	kW	15	15	30	51
	~ 500 V	kW	18.5	18.5	40	63
	~ 690 V	kW	25	25	55	90
Rated conditional short-circuit current	I rms at ~ 400 V with protection by gG (gl) fuses	kA	80	80	80	80
	Rating of associated fuses	A	32	32	63	100
Peak value of permissible current (dynamic short-circuit withstand)	Conforming to ~ 400 V IEC 60269-1	kA	5.5	9	10.6	20
Rated making capacity	I rms at 400 V Cat. AC-23B	A	320	320	630	1000
Rated breaking capacity	I rms at 400 V Cat. AC-23B	A	256	256	500	800
Mechanical durability	Number of operating cycles		20000	10000	10000	10000
Electrical durability	Number of operating cycles cat. AC/DC-23A/B ⁽¹⁾		1500/300	1500/300	1500/300	1500/300
Cabling	Cable (c.s.a. min/max)	mm²	2.5/16	6/25	10/25	25/95
	Bars (max width)	mm	–	–	–	20
Tightening torque		N.m	3	3.2	3.2	12

(1) Category "A": frequent operating cycles, category "B": infrequent operating cycles.

(2) 2 poles in series per phase.

(3) Fit switch-disconnector fuses **GS2LB** with B1 or B2 fuses and **GS2LLB** with A4 fuses.

(4) With terminal covers.

(5) Poles not juxtaposed.

	GS2LB or LLB ⁽³⁾	GS2MMB	GS2NB	GS2PPB	GS2QQB	GS2SB	GS2TB	GS2VB
	IEC 60947-3							
	IEC 60269-1 and 2							
	ASEFA/LOVAG, LROS, UKCA							
	IP 20							
	-40...+80							
	-20...+70							
	960							
	850							
	160	200	250	315	400	630	800	1250
	A4, B1-B2 ⁽³⁾	B1-B2	B1...B3	B1...B3	B1...B4	C1-C2	C1...C3	D1
	750	750	750	800	800	1000	1000	1000
	8	8	8	8	8	12	12	12
	160	200	250	315	400	630	800	1000
	160	200	250	315	315	500	630	800
	125 ⁽⁴⁾	200/160 ⁽⁴⁾	250 ⁽⁴⁾	250/315 ⁽⁴⁾	250/315	315/400	630	630
	125	200	200	200	200/315 ⁽⁵⁾	400/630 ⁽⁵⁾	800	1000
	80	100	132	150	220	355	450	560
	110	140	160	220	220	355	450	560
	110	150/185	220	220/295	220/295	295/400	400	400/475
	80	80	80	80	50	80	80	80
	160	200	250	315	400	630	800	1250
	22.7	32.5	32.5	40	40	70	80	90
	1600	2000	2500	3150	4000	6300	8000	10 000
	1280	1600	2000	2520	3200	5040	6400	8000
	10000	10000	10000	10000	10000	8000	8000	5000
	1000/200	1000/200	1000/200	1000/200	1000/200	1000/200	500/100	500/100
	50/95	95/240	95/240	185/240	185/240	2 x 150 / 2 x 300	2 x 185 / 2 x 300	- / 4 x 185
	20	32	32	45	45	63	63	80
	12	25	25	25	25	44	44	44

Ref.

Switch-
disconnector
fuses

TeSys Power

Switch-disconnector fuses

Characteristics

UL, CSA, IEC - For CC and J fuses - From 32 to 800 A

Switch-disconnector-fuse characteristics							
Type			GS1DDU3		GS1DU3	GS2EEU3	GS2EU3N
Environment							
Conforming to standards	Switch-disconnector fuses		UL 489, CSA 22.2 n°5, IEC 60947-3			UL 98, UL 248, CSA 22.2 n°4, IEC 60947-3	
	Fuses		UL 248				
Degree of protection conforming to IEC 60529	With terminal covers		IP 20				
Ambient air temperature around the device	Storage	°C	-40...+80				
	Operation	°C	-20...+70				
Flame resistance conforming to IEC 60695-2-1	Body	°C	960	960	960		
	Fuse cover	°C	—	—	850		
Pole characteristics							
Conventional thermal current (Ith) for ambient temperature ≤ 40 °C		A	30	30	30	30	
Fuse size			CC	J	CC	J	
Rated insulation voltage (Ui)		V	800	800	750	750	
Rated impulse withstand voltage (Uimp)		kV	8	8	8	8	
Rated operational current (Ie)	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	A	32	32	32	32	
	~ 500 V	A	32	32	32	32	
	~ 690 V	A	32	32	32	32	
Rated operational power	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	kW	15	15	15	15	
	~ 500 V	kW	18.5	18.5	18.5	18.5	
	~ 690 V	kW	25	25	25	25	
Prospective short-circuit current withstand	Conforming to UL 98 / UL 489 ~ 600 V	kA	100	100	200	200	
Peak value of permissible current (dynamic short-circuit withstand)	Conforming to IEC 60269-1 ~ 400 V	kA	5.5	5.5	7.6	17.6	
Rated making capacity	I rms at 400 V Cat. AC-23B	A	300	300	300	300	
Rated breaking capacity	I rms at 400 V Cat. AC-23B	A	240	240	240	240	
Mechanical durability	Number of operating cycles		10000	10000	10000	10000	
Electrical durability	Number of operating cycles Cat. AC/DC-23A/B ⁽¹⁾		1500/300	1500/300	1500/300	1500/300	
Cabling	Cable (c.s.a. min/max)	mm²	2.5/6	2.5/6	2.5/6	2.5/16	
		AWG	#14/#10	#14/#10	#14/#10	#14/#6	
	Bars (max width)	mm	-	-	-	-	
Tightening torque		N.m	3 (for wire)	4 (for wire)	5.5 (for wire)	3.5 (for wire)	
		lb-in	27	27	48	31	

(1) Category "A": frequent operating cycles, category "B": infrequent operating cycles.

	GS2GU3N	GS2JU3N	GS2MU3N	GS2QU3N	GS2SU3	GS2TU3
	UL 98, CSA 22.2 n°4, IEC 60947-3					
	UL 248					
	IP 20					
	-40...+80					
	-20...+70					
	960					
	850					
	60	100	200	400	600	800
	J	J	J	J	J	L
	750	750	750	800	1000	1000
	8	8	8	8	12	12
	63	100	200	400	630	800
	63	100	200	315	630	630
	63	100	200	250	630	630
	30	51	100	220	355	450
	40	63	140	220	450	560
	55	90	185	220	600	600
	100	200	200	200	200	200
	17.6	22	32	36	80	80
	600	1000	2000	4000	6000	8000
	480	800	1600	3200	4800	6400
	10000	10000	8000	6000	5000	5000
	1500/300	1500/300	1000/200	1000/200	1000/200	500/100
	2.5/16	4/50	16/150	25/300	2 x 150	—
	#14/#6	#12/#1	#6/300 Kcmil	#4/600 Kcmil	#2/600 Kcmil	—
	-	20	32	45	100	100
	3.5 (for wire)	4 (for wire)	18 (for lug)	35 (for lug)	35 (for lug)	35 (for lug)
	31	35.4	160	310	310	310

Ref.

Switch-
disconnector
fuses

Auxiliary contacts

GS1AM11, GS1AM1 and GS1AM2 early break and signalling contact characteristics

Conventional thermal current (I _{th}) for ambient temperature ≤ 40 °C		A	16
Rated operational current (I _e)	Cat. AC-15	A	127 V: 5 - 230 V: 4 - 400 /415 V: 3 - 440 V: 2
	Cat. DC-13	A	24 V: 12 - 48 V: 2 - 110 V: 0.6 - 220 V: 0.4
Durability	Number of operating cycles		Mechanical: 1000000 Electrical: cat. AC-15: 30000
Fuse protection	gG	A	6 max
Cabling		mm	Faston connectors: 1 x 6.35 or 2 x 2.8

GS1AN and GS1ANT signalling contact characteristics

Conventional thermal current (I _{th}) for ambient temperature ≤ 40 °C		A	20
Rated operational current (I _e)	Cat. AC-15	A	127 V: 12 - 230 V: 10 - 400/415 V: 8 - 440 V: 6
	Cat. DC-13	A	48 V: 4 - 110 V: 1.2 - 220 V: 1
Durability	Number of operating cycles		Mechanical: 30000 Electrical: cat. AC-15: 30000
Fuse protection	gG	A	16 max
Cabling	Cable (c.s.a. min/max)	mm²	Min: 1.5 - max: 10

GS1AM110 and GS1AM101 early break and signalling contact characteristics

Conventional thermal current (I _{th}) for ambient temperature ≤ 40 °C		A	10
Rated operational current (I _e)	Cat. AC-15	A	120 V: 6 - 240 V: 3 - 400 V: 1.8 - 480 V: 1.5
	Cat. DC-13	A	24 V: 2.8 - 48 V: 1.4 - 125 V: 0.55 - 250 V: 0.27 - 400 V: 0.15
Durability	Number of operating cycles		Mechanical: 5000000 Electrical: cat. AC-15: 1000000
Cabling	Cable (c.s.a. min/max)	mm²	Min: 1 x 0.22 - max: 2 x 2.5

GS1AF "blown fuse" signalling contact characteristics

Conventional thermal current (I _{th}) for ambient temperature ≤ 40 °C		A	16
Rated operational current (I _e)	Cat. AC-15	A	230 V: 4 - 400 V: 3
	Cat. DC-13	A	24 V: 12 - 48 V: 2 - 110 V: 0.6 - 220 V: 0.4
Durability	Number of operating cycles		Mechanical: 30000 Electrical: cat. AC-15: 30000
Cabling		mm	Faston connectors: 1 x 6.35

Ref.



Switch-
disconnector
fuses

TeSys Power

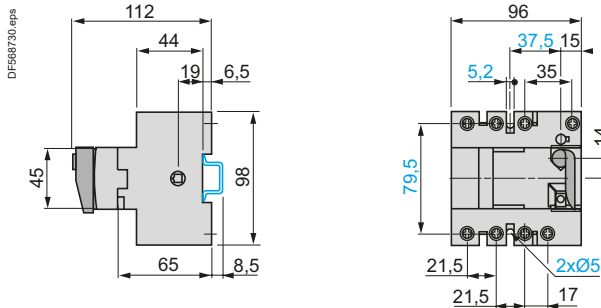
Switch-disconnector fuses

Dimensions

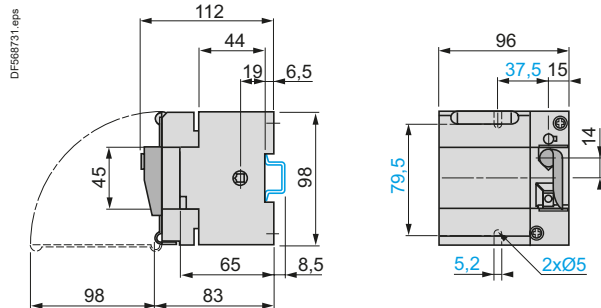
IEC - GS1●● (32 A) Switch-disconnector-fuse

Direct front-mounted operator

GS1DD

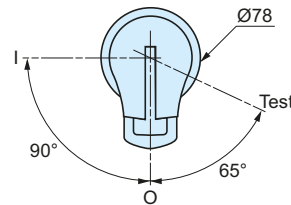
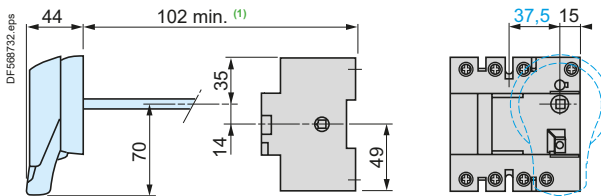


GS1DDB

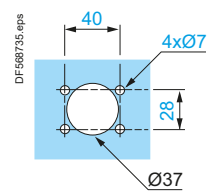


External front-mounted operator

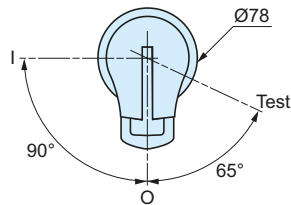
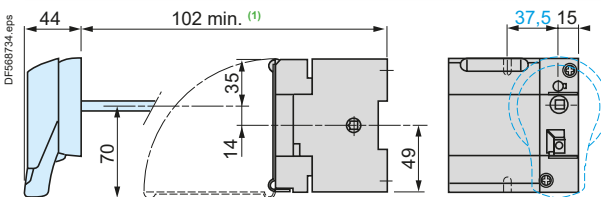
GS1DD



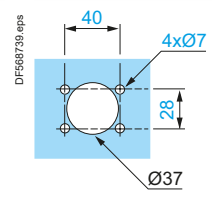
Door cut-out



GS1DDB



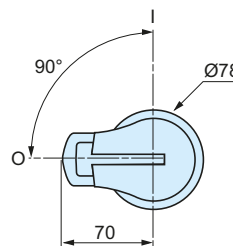
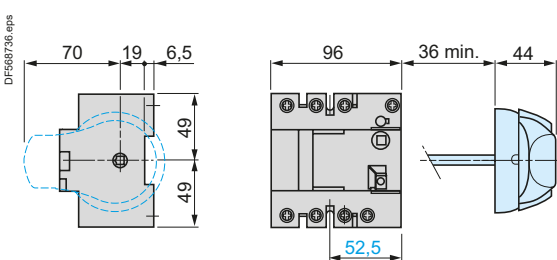
Door cut-out



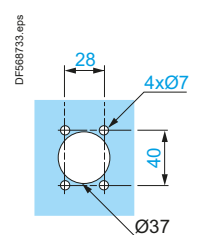
- (1) With 1 or 2 auxiliary contacts GS1AM1●●: 130 mm.
(2) With 3 or 4 auxiliary contacts GS1AM1●●: 155 mm.

External right-hand side-mounted operator

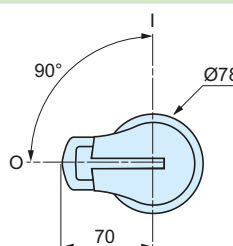
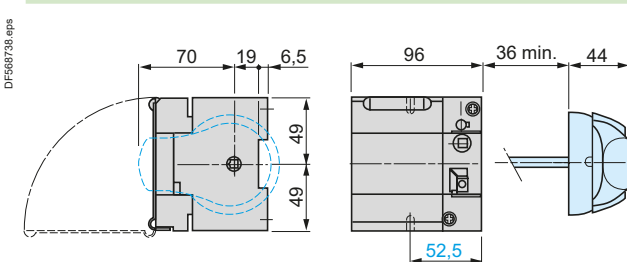
GS1DD



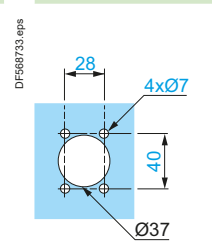
Door cut-out



GS1DDB



Door cut-out



TeSys Power

Switch-disconnector fuses

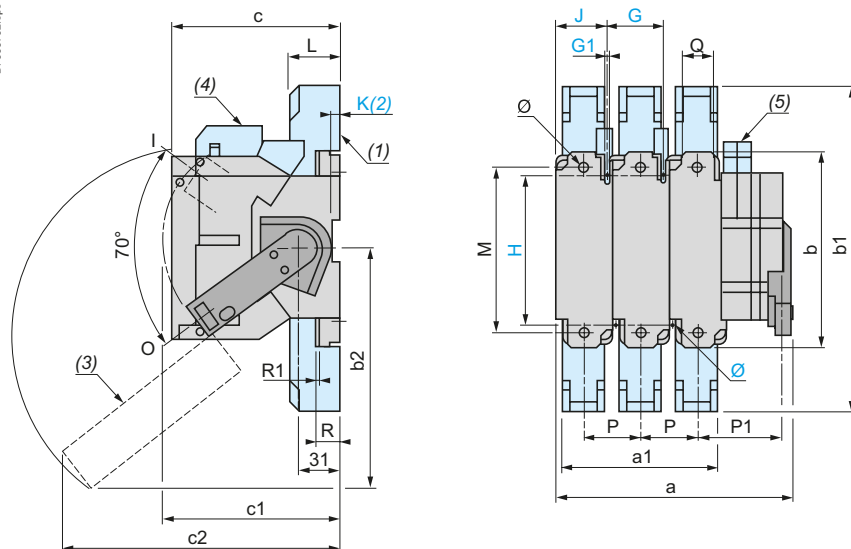
Dimensions

IEC - GS1●● (50...400 A) Switch-disconnector-fuse

Direct right-hand side-mounted operator

GS1FD (50 A), GD (63 A), JD (100 A), KD, KKD (125 A), LD, LLD (160 A), ND (250 A) and QQD (400 A)

DF538732.eps



Ref.



Switch-disconnector fuses

GS1		a	a1	b	b1	b2	c	c1	c2	G	G1	H	J	K	Ø	L	M	P	P1	Q	R	R1	Ø
FD	3P	118	—	118	—	—	87	134	—	27	5.4	106	31	6.5	5	—	—	27	33.5	—	—	—	—
	4P	145	—	118	—	—	87	134	—	27	5.4	106	31	6.5	5	—	—	27	33.5	—	—	—	—
GD	3P	133	—	118	—	159	116.5	134	145	32	5.4	106	36	6.5	5	—	—	32	36	—	—	—	—
	4P	165	—	118	—	159	116.5	134	145	32	5.4	106	36	6.5	5	—	—	32	36	—	—	—	—
JD, KD	3P	150	108	162	268	—	116	173	—	36	5.4	127	40	—	5	44	141	36	38	20	19.5	2.5	8.5
	4P	186	144	162	268	—	116	173	—	36	5.4	127	40	—	5	44	141	36	38	20	19.5	2.5	8.5
KKD, LLD	3P	150	108	162	268	141	126.5	173	193	36	5.4	127	40	—	5	44	141	36	38	20	19.5	2.5	8.5
	4P	186	144	162	268	141	126.5	173	193	36	5.4	127	40	—	5	44	141	36	38	20	19.5	2.5	8.5
LD	3P	192	136	162	268	174	136.5	173	229	50	5.4	140	54	—	5	44	141	50	45	20	19.5	2.5	8.5
	4P	242	172	162	268	174	136.5	173	229	50	5.4	140	54	—	5	44	141	50	45	20	19.5	2.5	8.5
ND	3P	253	180	195	345	185	146	173	251	60	6.4	162	64	—	6	65	166	60	81	32	19.5	2.5	11
	4P	313	240	195	345	185	146	173	251	60	6.4	162	64	—	6	65	166	60	81	32	19.5	2.5	11
QQD	3P	271	192	205	355	200	149	173	260	66	6.4	172	70	—	6	65	175	66	86	50	20	3	11
	4P	337	258	205	355	200	149	173	260	66	6.4	172	70	—	6	65	175	66	86	50	20	3	11

(1) Terminal cover.

(2) Mounting on rail only for GS1FD and GS1GD (50 and 63 A).

(3) Protective screen, lockable in I position.

(4) 1 or 2 auxiliary contacts GS1AF●●.

(5) 1 or 2 auxiliary contacts GS1AM●.

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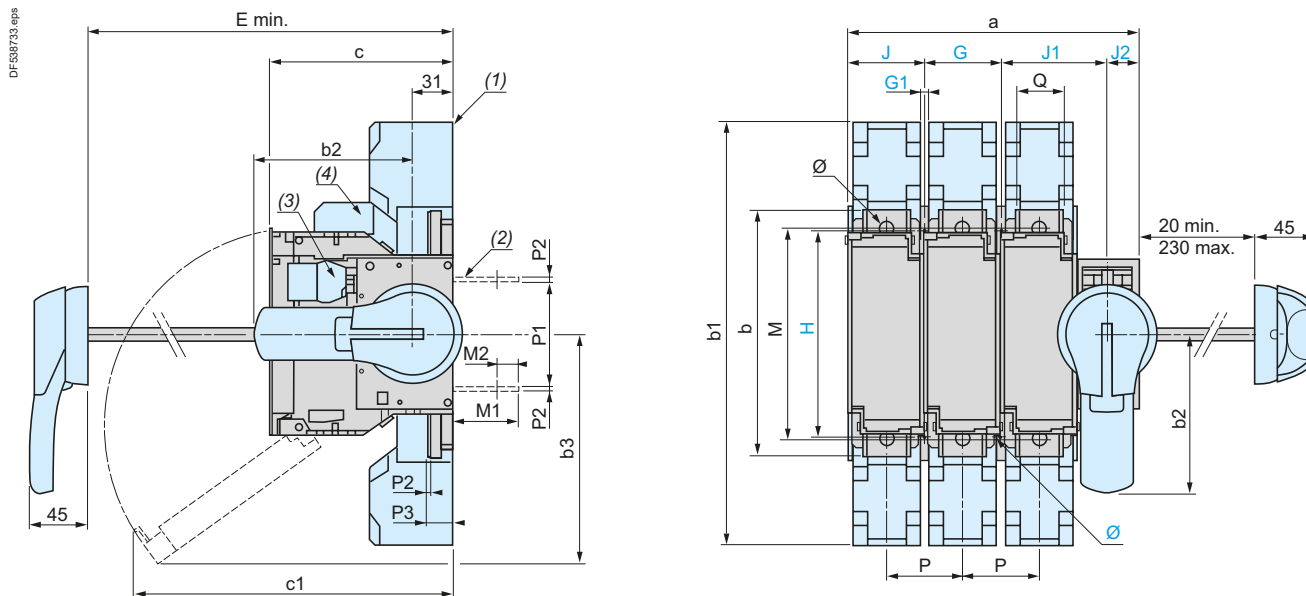
Switch-disconnector fuses

Dimensions

IEC - GS2●● (32...400 A) Switch-disconnector-fuse

External front and right-hand side-mounted operator

GS2DB (32 A), F (50 A), G, GB, JB (63 A), J (100 A), K, KK (125 A), L, LL, LB, LLB (160 A), MMB (200 A), N, NB (250 A), PPB (315 A), QQ and QQB (400 A)



GS2		a	b	b1	b2	b3	c	c1	E min.	G	G1	H	J	J1	J2	Ø	M	M1	M2	P	P1	P2	P3	Q	Ø
F, DB	3P	121	118	–	70	85	87 ⁽⁵⁾	153	100 ⁽⁵⁾	27	5.4	106	31	45	18	5	–	15	6	27	59	2	–	12	–
	4P	148	118	–	70	85	87 ⁽⁵⁾	153	100 ⁽⁵⁾	27	5.4	106	31	45	18	5	–	15	6	27	59	2	–	12	–
G, GB	3P	136	118	–	70	159	116.5 ⁽⁶⁾	145	125	32	5.4	106	36	50	18	5	–	15	6	32	59	2	–	12	–
	4P	168	118	–	70	159	116.5 ⁽⁶⁾	145	125	32	5.4	106	36	50	18	5	–	15	6	32	59	2	–	12	–
J, JB, K	3P	148	162	268	125	141	116 ⁽⁶⁾	187	135	36	5.4	127	40	54	18	5	141	41	8	36	62	2.5	19.5	20	8.5
	4P	184	162	268	125	141	116 ⁽⁶⁾	187	135	36	5.4	127	40	54	18	5	141	41	8	36	62	2.5	19.5	20	8.5
KK, LL	3P	148	162	268	125	141	126.5 ⁽⁶⁾	193	135	36	5.4	127	40	54	18	5	141	41	8	36	62	2.5	19.5	20	8.5
	4P	184	162	268	125	141	126.5 ⁽⁶⁾	193	135	36	5.4	127	40	54	18	5	141	41	8	36	62	2.5	19.5	20	8.5
L, LB, LLB	3P	190	162	268	125	174	136.5	229	145	50	5.4	140	54	64	18	5	141	41	8	50	62	2.5	19.5	20	8.5
	4P	240	162	268	125	174	136.5	229	145	50	5.4	140	54	64	18	5	141	41	8	50	62	2.5	19.5	20	8.5
MMB, NB, N	3P	234	195	345	125	185	146	251	154	60	6.4	162	64	86	25	6	166	52	17	60	84	2.5	19.5	32	11
	4P	294	195	345	125	185	146	251	154	60	6.4	162	64	86	25	6	166	52	17	60	84	2.5	19.5	32	11
PPB, QQB, QQ	3P	252	205	355	125	200	149	260	157	66	6.4	172	70	91	25	6	175	54	14.5	66	84	3	20	50	11
	4P	318	205	355	125	200	149	260	157	66	6.4	172	70	91	25	6	175	54	14.5	66	84	3	20	50	11

(1) Terminal cover.

(2) Rear access connector plates (option).

(3) 1 to 8 auxiliary contacts GS1AM1●●.

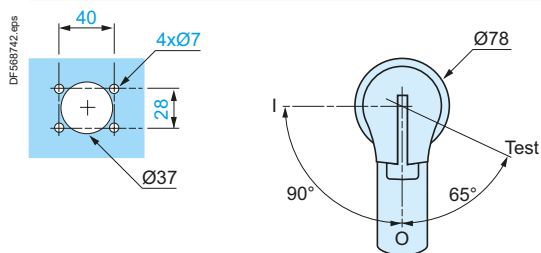
(4) 1 or 2 auxiliary contacts GS1AF●●.

(5) 1 auxiliary contact GS1AM1●●: + 23.5 mm, 2 auxiliary contacts GS1AM1●●: + 47 mm.

(6) 132 mm with 2 auxiliary contacts GS1AM1●●.

Door cut-out

For external front-mounted operator



For external right-hand side-mounted operator



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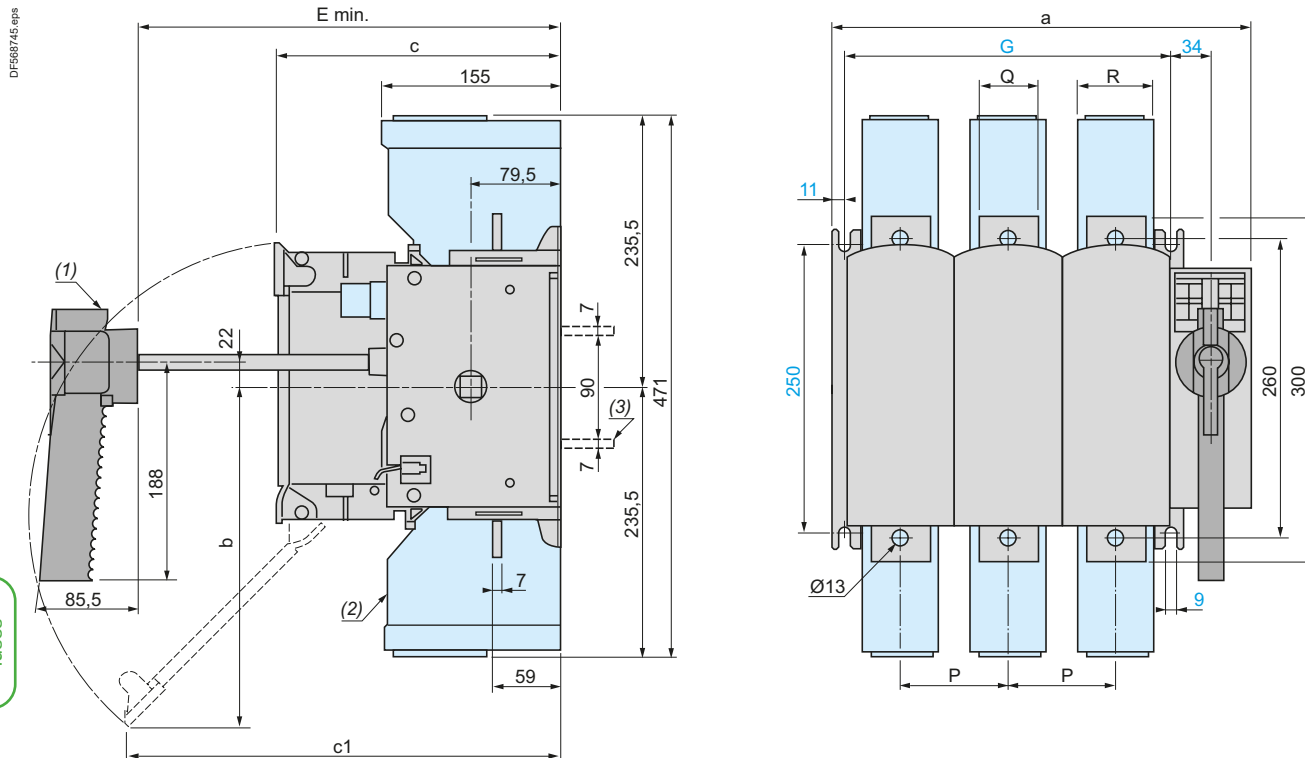
Switch-disconnector fuses

Dimensions

IEC - GS2●● (630...1250 A) Switch-disconnector-fuse

Direct front-mounted operator

GS2S, SB (630 A), TB (800 A), V and VB (1250 A)



GS2		a	b	c	c1	E min.	G	P	Q	R
S, SB, TB	3P	364	300	250	380	265	284	94	51	65
	4P	458	300	250	380	265	378	94	51	65
V, VB	3P	442	355	289	295	304	362	120	77	88
	4P	562	355	289	295	304	482	120	77	88

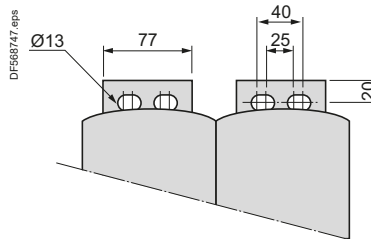
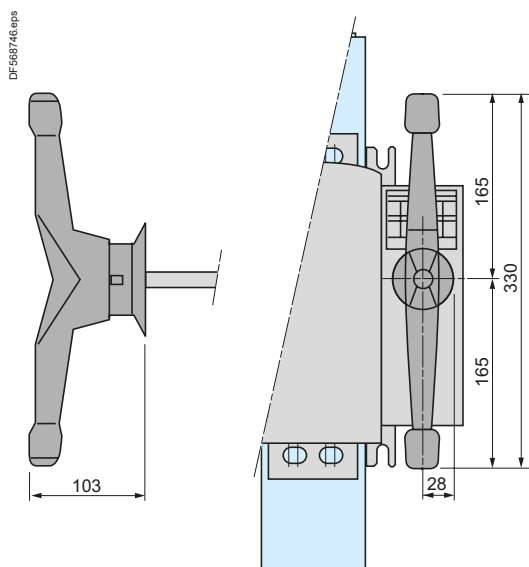
(1) Handle GS2AH104 for GS2S, GS2SB and GS2TB.

(2) Terminal cover.

(3) Rear access connector plates (GS2V and GS2VB).

Handle GS2AH105 for GS2V and GS2VB
(direct front-mounted operator)

Connector plates for GS2V and GS2VB



TeSys Power

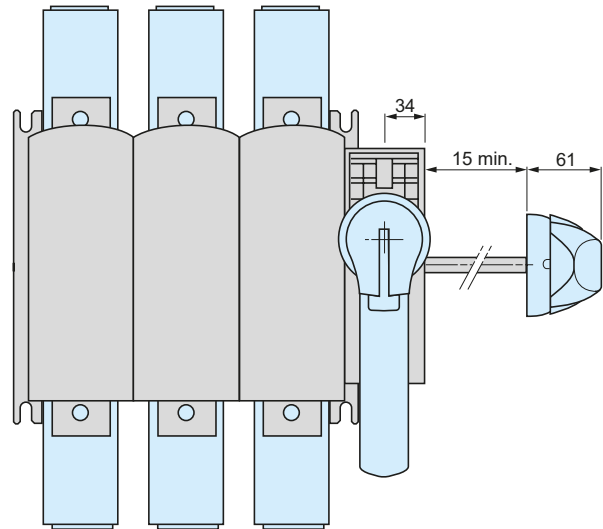
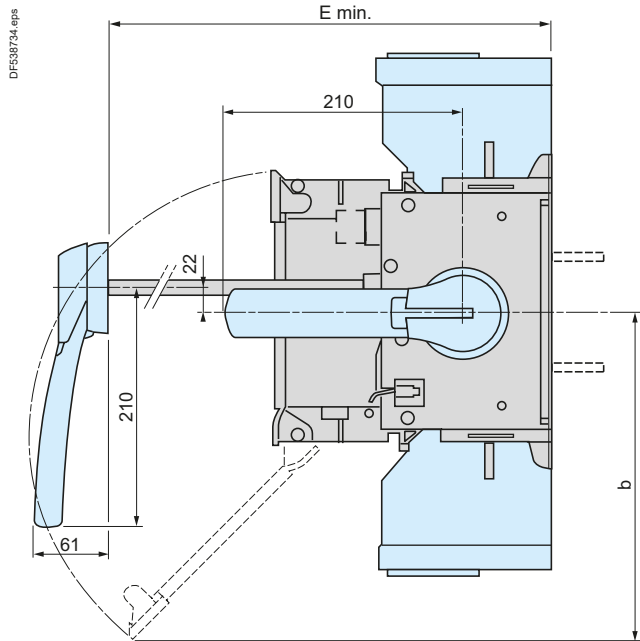
Switch-disconnector fuses

Dimensions

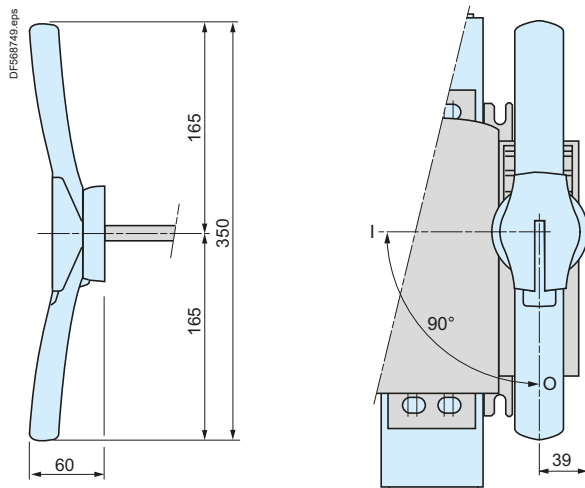
IEC - GS2●● (630...1250 A) Switch-disconnector-fuse

External front and right-hand side-mounted operator

GS2S, SB (630 A), TB (800 A), V and VB (1250 A)



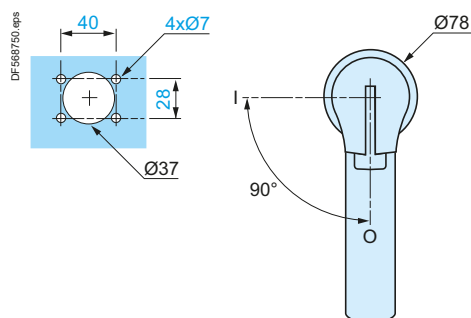
Handle GS2AH570 or GS2AH580 for GS2V and GS2VB (external front-mounted operator)



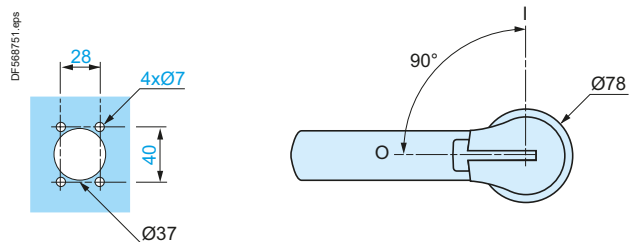
GS2		b	E min.
S, SB, TB	3P	297	265
	4P	297	265
V, VB	3P	350	304
	4P	350	304

Door cut-out

For external front-mounted operator



For external right-hand side-mounted operator



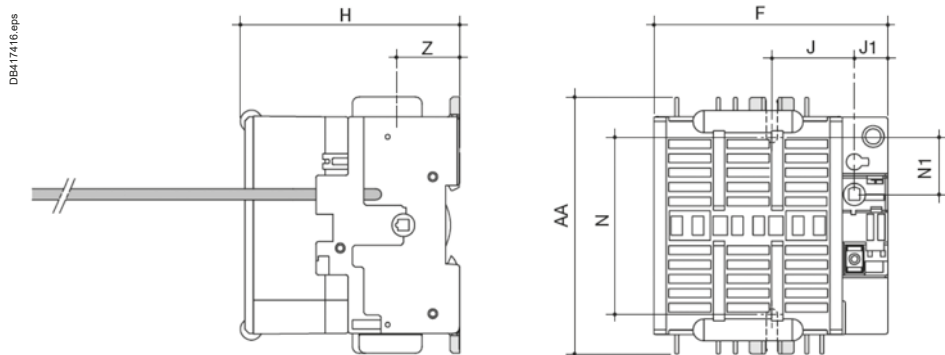
References:
page B5/5

Characteristics:
pages B5/19 to B5/21

Schemes:
page B5/33

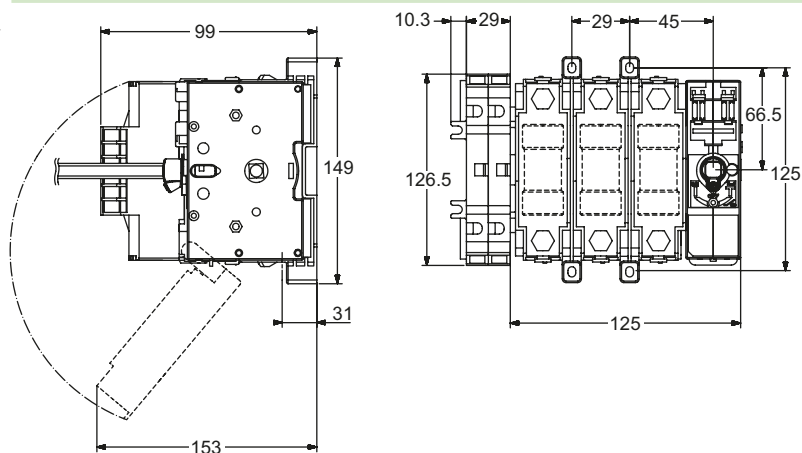
UL, CSA, IEC - GS1●● GS2●● Switch-disconnector fuses (30 and 60 A)

GS1DU3 (30 A) class CC fuses, GS1DDU3 (30 A) class J fuses

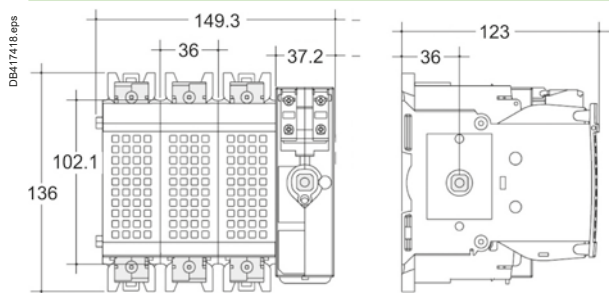


Rating	F	H	J	J1	N	N1	AA	Z
30 / CC	96	83.5	37.5	15	79.5	25.5	116	28.5
30 / J	105	99	37.5	15	79.5	25.5	116	28.5

GS2EEU3 (30 A) class CC fuses



GS2EU3N, GS2GU3N (60 A) class J fuses



Accessories

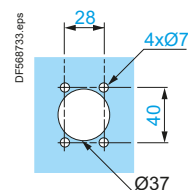
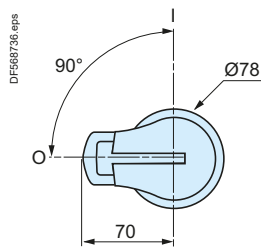
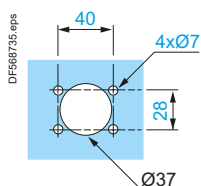
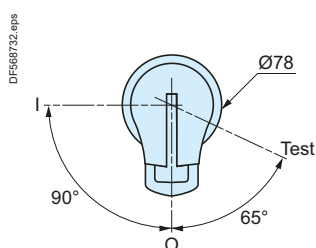
Handle for 30 and 60 A switch-disconnector fuses

External front handle

Door cut-out

External side handle

Door cut-out



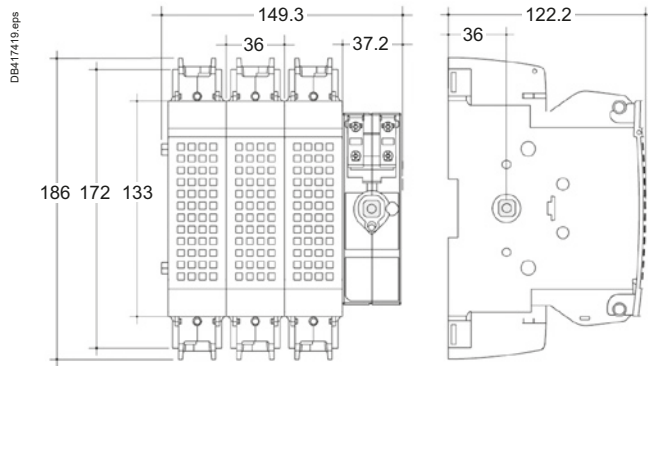
TeSys Power

Switch-disconnector fuses

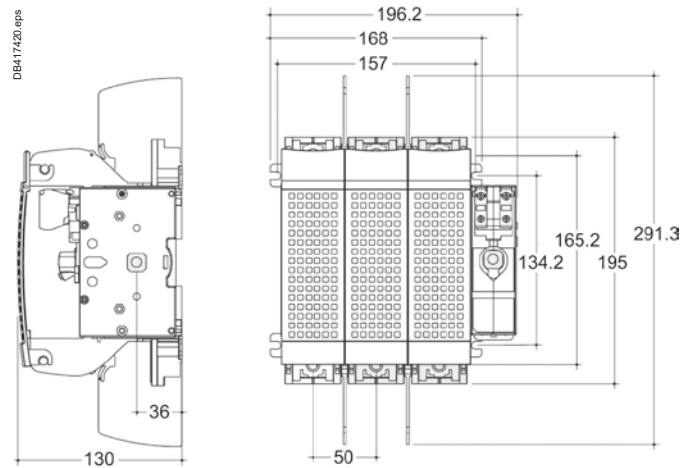
Dimensions

UL, CSA, IEC - GS2●● Switch-disconnector fuses (100 and 400 A)

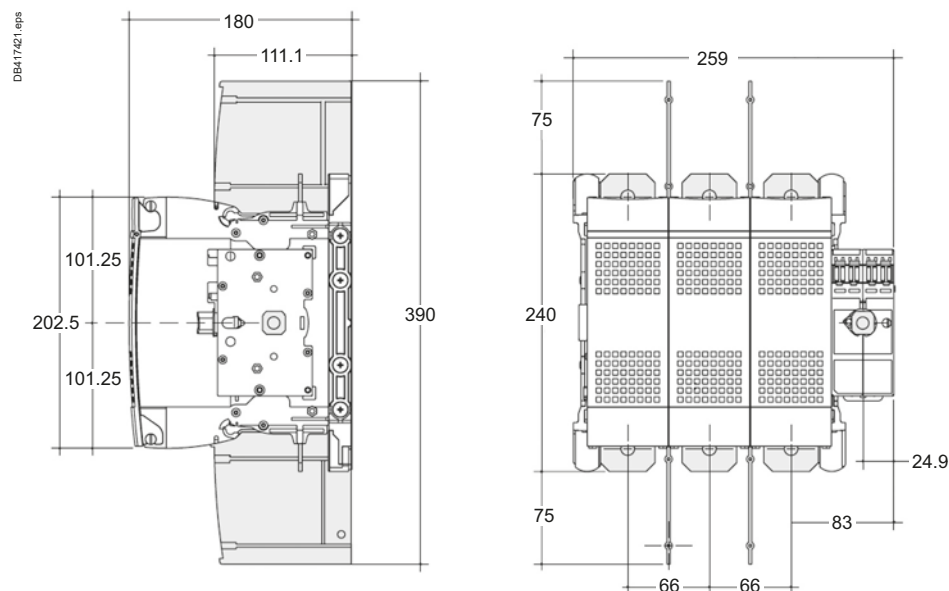
GS2JU3N (100 A) class J fuses



GS2MU3N (200 A) class J fuses



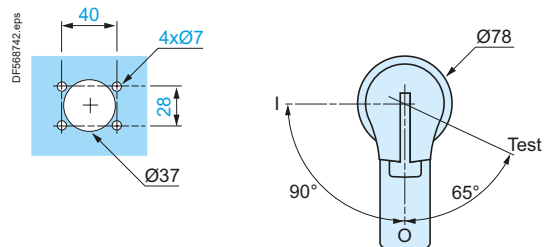
GS2QU3N (400 A) class CC fuses



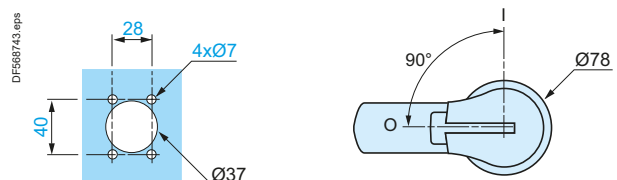
Accessories

Handle for 100, 200 and 400 A switch-disconnector fuses

For external front-mounted operator

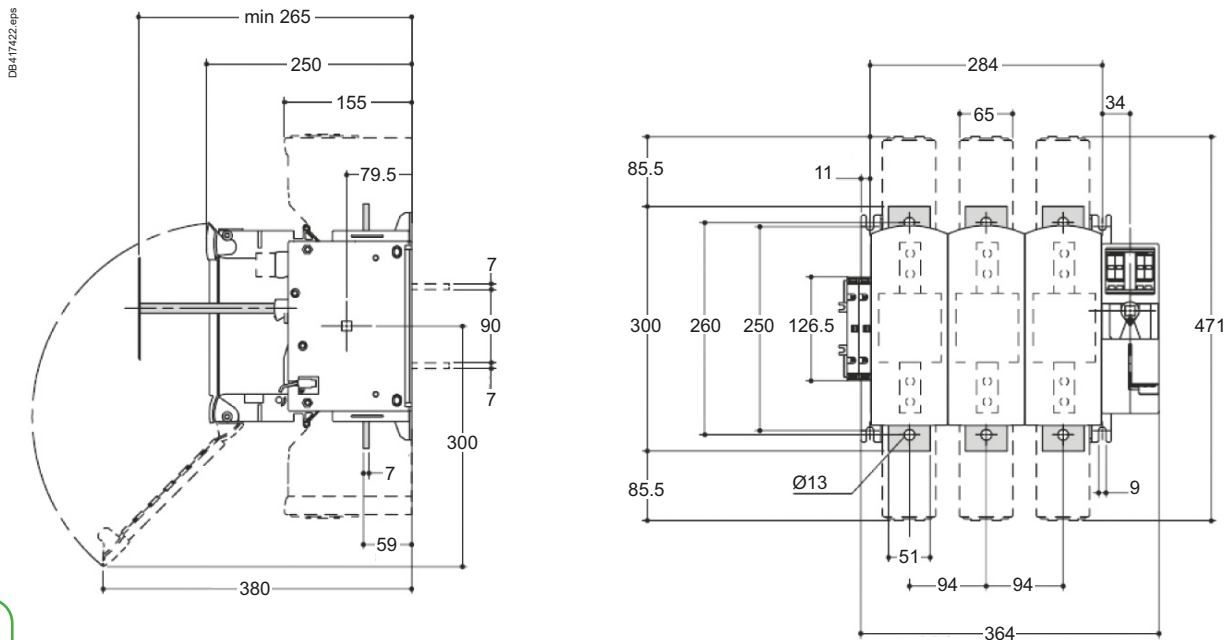


For external right-hand side-mounted operator



UL, CSA, IEC - GS2●● Switch-disconnector fuses (600 and 800 A)

GS2SU3 (600 A), GS2TU3 (800 A) class J fuses

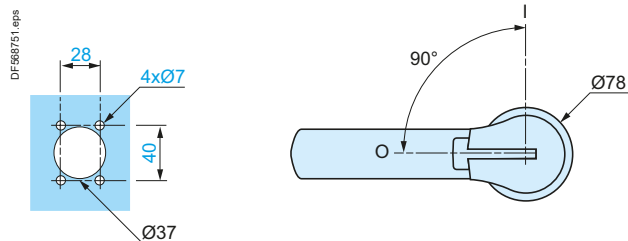
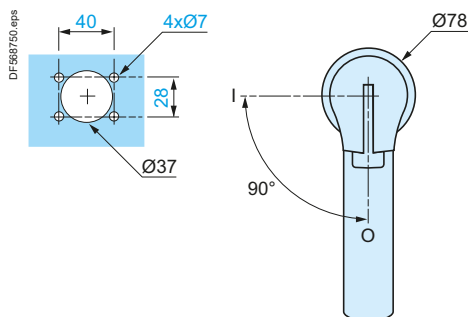


Accessories

Handle for 600 and 800 A switch-disconnector fuses

For external front-mounted operator

For external right-hand side-mounted operator



TeSys Power

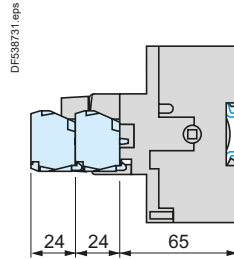
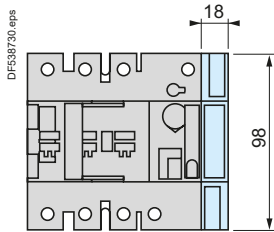
Switch-disconnector fuses

Dimensions, schemes

Auxiliary contacts

GS1AM111, GS1AM211

GS1AM110, GS1AM101



Schemes

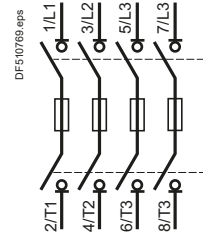
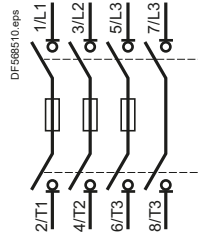
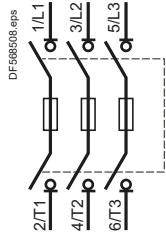
3-pole GS

32 to 1250 A

4-pole GS

32 A

50 to 1250 A



Auxiliary contacts

GS1AM110

1 N/O

GS1AM101

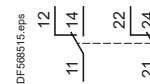
1 N/C

GS1AM111 and GS1AM1

1 C/O

GS1AM211 and GS1AM2

2 C/O



GS1AN●●

1 N/C + 1 N/O

2 N/C + 2 N/O

GS1AF●

1 C/O

2 C/O

