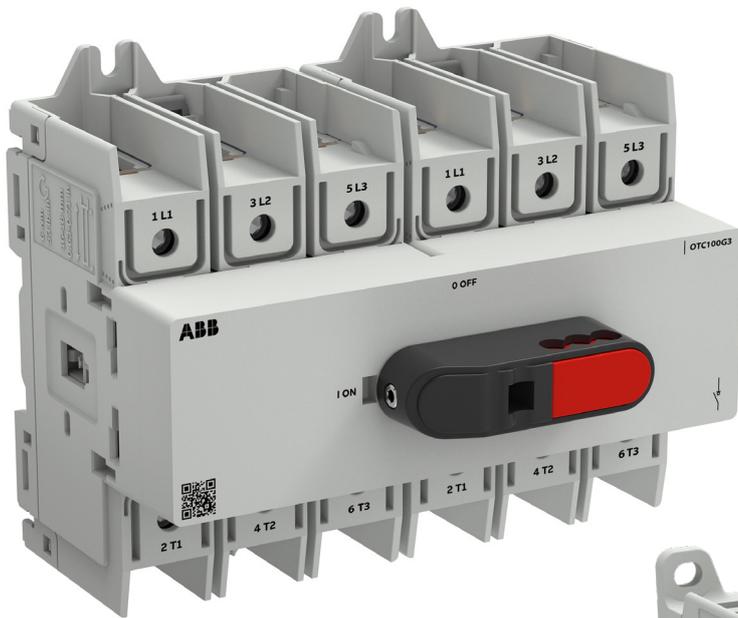




CATALOG

# OT Plus change-over switches

One giant leap to progress



- Adaptable
- Sustainable
- Reliable



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# OT Plus change-over switches

## One giant leap to progress

The OT plus change-over switch range offers a smarter, safer and more reliable performance to suit needs from 16A to 160A with 3 and 4 pole options. With greater adaptability, the OT plus change-over switches are able to cater to a broad range of applications than ever before.

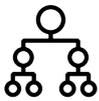
\*G1 frame — 16A-63A

coming  
soon

G2 frame — 63A-100A



G3 frame — 30A-160A



### Adaptable

Support more applications thanks to adjustable fourth-pole timing, which allows two different time offsets within the same switch: simultaneous or early-make / late-break. Find the right fit and install faster with overlapping current ratings, and user-friendly auxiliary contacts.



### Sustainable

Go greener with a range that cuts power losses by up 27%, that is designed for a circular economy and made with high portion of recycled materials. Additionally, the OT Plus switch is over 95% recyclable.



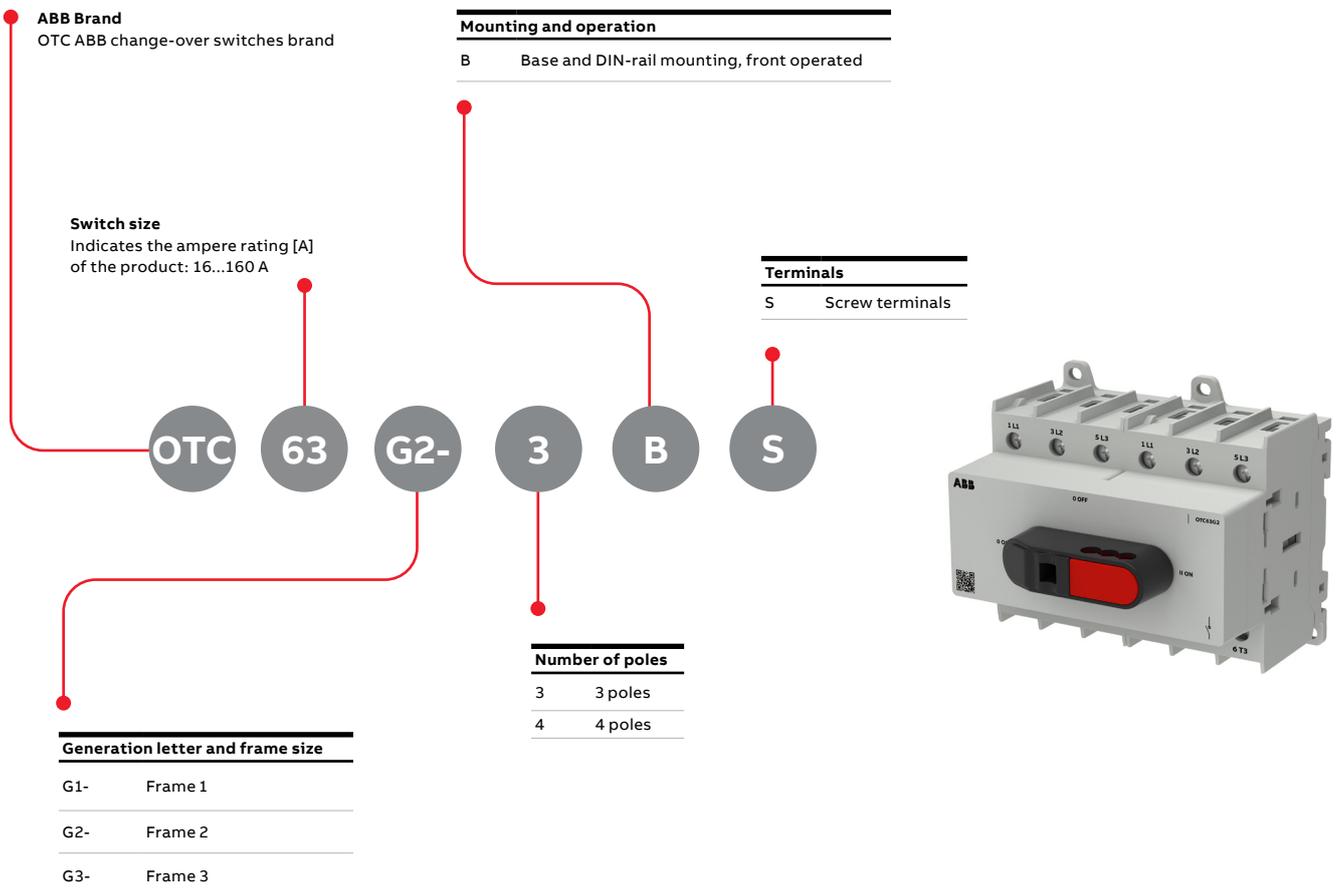
### Reliable

Improve safety for people and assets, thanks to our true fourth-pole design, which reduces the risk of faults. Simplify and strengthen security with pre-installed lockable operating handle

## OT Plus

### Type designation key

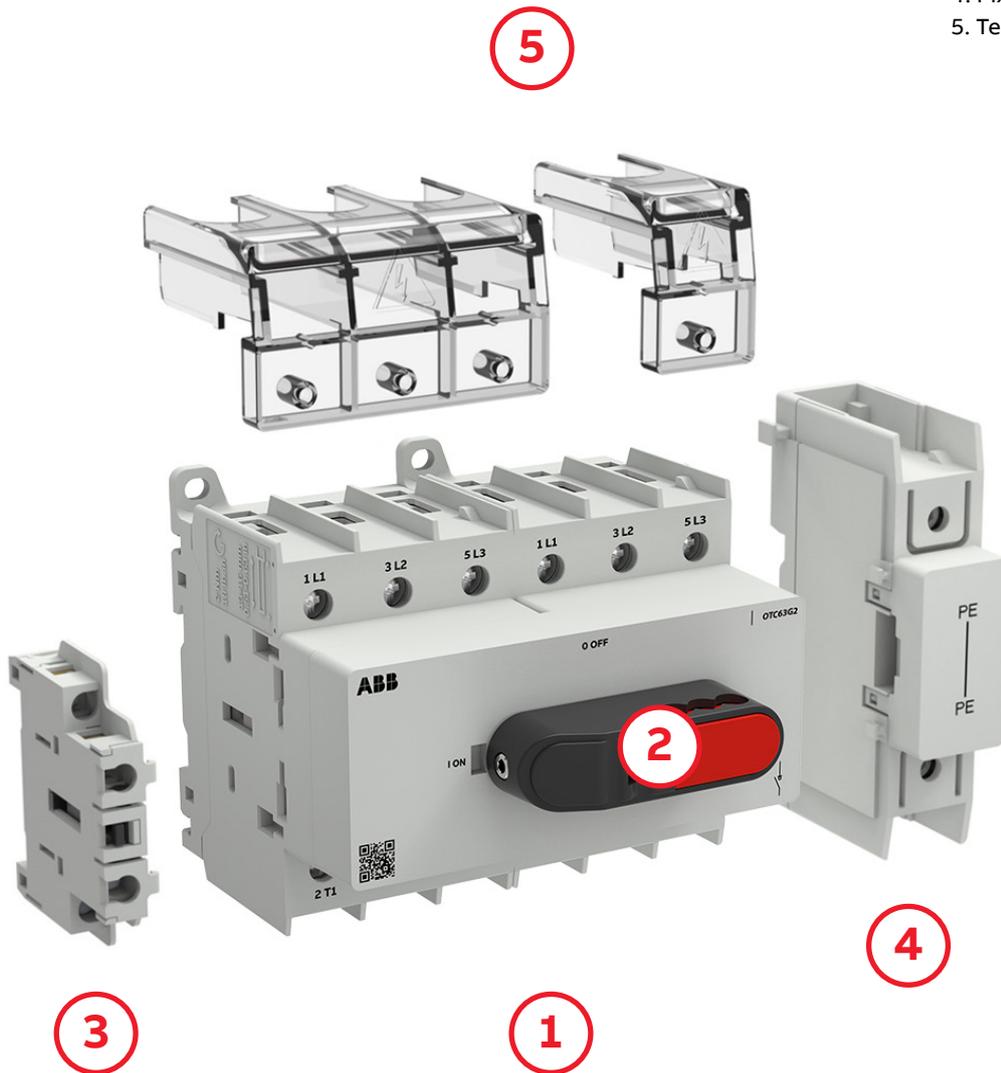
Find your perfect fit, fast. Understanding the type code keys below will help you quickly identify the correct product for your needs. Black padlockable handle is included as standard.



# OT Plus

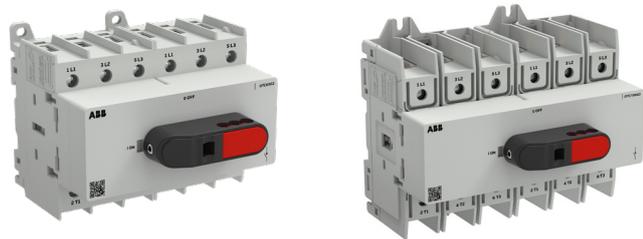
## Exploded view

1. OT Plus change-over switch
2. Padlockable direct handle
3. Auxiliary contact 1NO + 1NC
4. Fixed PE or N terminal
5. Terminal shrouds



## OT Plus change-over switches

Product range



IEC60947-3		OTC16G1- OTC25G1- OTC40G1- OTC63G1-	OTC63G2- OTC80G2- OTC100G2-	OTC63G3- OTC80G3- OTC100G3- OTC125G3- OTC160G3-
UL60947-4-1		OTC16G1- OTC25G1- OTC40G1- OTC63G1-	OTC63G2- OTC80G2-	
UL98				OTC30G3- OTC60G3- OTC100G3-
<b>Frame size</b>		<b>G1</b>	<b>G2</b>	<b>G3</b>
<b>Switch size</b>			63 80	30 60 63 80 100 125 160
IEC60947-3	$I_{th} / I_{the}$		63 A 80 A	40 A 63 A 63 A 80 A 100 A 125 A 160 A
	AC22A, <415VAC		63 A 80 A	40 A 63 A 63 A 80 A 100 A 125 A 160 A
	AC23A, <415VAC		63 A 80 A	40 A 63 A 63 A 80 A 100 A 125 A 125 A
	AC21A, 800VAC			40 A 63 A 80 A 80 A
UL	Ampere rating 600VAC		63 A 80 A	30 A 60 A 100 A
		UL60947-4-1	UL60947-4-1	UL98





# Technical data

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<b>10</b>	Technical data according to IEC 60947-3
<b>11</b>	Technical data according to UL 60947-4-1 and UL98

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## OT Plus change-over switches

### Technical data IEC

#### Technical data according to IEC 60947-3

		OTC63G2	OTC80G2	OTC63G3	OTC80G3	OTC100G3	OTC125G3	OTC160G3 <sup>2)</sup>
Frame size		G2	G2	G3	G3	G3	G3	G3
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3	800 V						
Dielectric strength	50 Hz 1 min.	5 kV						
Rated impulse withstand voltage		8 kV						
Rated thermal current and rated operational current AC20/DC20	Ambient 40 °C	63 A	80 A	63 A	80 A	100 A	125 A	160 A
	Ambient 40 °C	63 A	80 A	63 A	80 A	100 A	125 A	160 A
..with minimum conductor cross section	Cu	16 mm <sup>2</sup>	25 mm <sup>2</sup>	16 mm <sup>2</sup>	25 mm <sup>2</sup>	35 mm <sup>2</sup>	50 mm <sup>2</sup>	70 mm <sup>2</sup>
Rated operational current, AC-21A	415 V	63 A	80 A	63 A	80 A	100 A	125 A	160 A
	690 V	63 A	80 A	63 A	80 A	100 A	125 A	125 A
	800 V			40 A	63 A	80 A	80 A	80 A
Rated operational current, AC-22A	415 V	63 A	80 A	63 A	80 A	100 A	125 A	160 A
	690 V	63 A	80 A	63 A	80 A	100 A	125 A	125 A
	800 V			32 A	40 A	45 A	63 A	63 A
Rated operational current, AC-23A	415 V	63 A	65 A	63 A	80 A	100 A	125 A	125 A
	690 V	32 A	40 A	50 A	50 A	63 A	63 A	63 A
Rated operational current, AC-23Ae	415 V	50 A	65 A	63 A	63 A	80 A	80 A	80 A
	690 V	25 A	32 A	50 A	50 A	63 A	63 A	63 A
Rated operational power, AC-23A	415 V	30 kW	45 kW	30 kW	45 kW	55 kW	55 kW	55 kW
	690 V	30 kW	37 kW	45 kW	45 kW	55 kW	55 kW	55 kW
Rated operational power, AC-23Ae	415 V	25 kW	30 kW	30 kW	30 kW	45 kW	45 kW	45 kW
	690 V	22 kW	30 kW	45 kW	45 kW	55 kW	55 kW	55 kW
Rated conditional short-circuit current	Max. Fuse gG/aM	Iq 25kA / 415V		/ 63 A <sup>1)</sup>	/ 80 A <sup>1)</sup>			
	Max. Fuse gG/aM	Iq 25kA / 690V		/ 63 A <sup>1)</sup>	/ 80 A <sup>1)</sup>			
	Max. Fuse gG/aM	Iq 50kA / 415V	80 A/63 A	80 A/63 A				
	Max. Fuse gG/aM	Iq 50kA / 690V	80 A/63 A	80 A/63 A				
Rated short time withstand current	r.m.s. - value Icw	690 V, 0.25 s	2.5 kA	2.5 kA	3.2 kA	3.2 kA	3.2 kA	3.2 kA
		690 V, 1 s	1.5 kA	1.5 kA	2.5 kA	2.5 kA	2.5 kA	2.5 kA
Rated short circuit current making capacity	Peak value Icm	690 V	3.5 kA	3.5 kA	3.5 kA	4.8 kA	4.8 kA	4.8 kA
Power loss/ pole	At operational current	2.2 W	3.4 W	1.5 W	2.5 W	3.7 W	4.6 W	7.3 W
Mechanical endurance	Divide by two for operation cycles	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Weight without accessories	3-pole C/O	0.56 kg	0.56 kg	0.70 kg				
	4-pole C/O	0.86 kg	0.86 kg	1.10 kg				
Cable size	Single Cu-wire size Min...Max.	1.5...35 mm <sup>2</sup>	1.5...35 mm <sup>2</sup>	2.5...70 mm <sup>2</sup>				
	Class 6 - Very flexible, fine stranded with ferrule	1.5...4 mm <sup>2</sup>	1.5...4 mm <sup>2</sup>	2.5...4 mm <sup>2</sup>				
	Class 5 - Flexible	1.5...35 mm <sup>2</sup>	1.5...35 mm <sup>2</sup>	4...70 mm <sup>2</sup>	4...70 mm <sup>2</sup>	4...70 mm <sup>2</sup>	4...70 mm <sup>2</sup>	4...70 mm <sup>2</sup>
	Class 2 - Stranded	1.5...35 mm <sup>2</sup>	1.5...35 mm <sup>2</sup>	4...70 mm <sup>2</sup>	4...70 mm <sup>2</sup>	4...70 mm <sup>2</sup>	4...70 mm <sup>2</sup>	4...70 mm <sup>2</sup>
	Class 1 - Solid	1.5...6 mm <sup>2</sup>	1.5...6 mm <sup>2</sup>	2.5...6 mm <sup>2</sup>				
	Dual Cu-wire size Min...Max	1.5...16 mm <sup>2</sup>	1.5...16 mm <sup>2</sup>	2.5...25 mm <sup>2</sup>				
	2x Class 6 - Very flexible, fine stranded with ferrule	1.5...4 mm <sup>2</sup>	1.5...4 mm <sup>2</sup>	2.5...4 mm <sup>2</sup>				
	2x Class 5 - Flexible	1.5...16 mm <sup>2</sup>	1.5...16 mm <sup>2</sup>	4...25 mm <sup>2</sup>	4...25 mm <sup>2</sup>	4...25 mm <sup>2</sup>	4...25 mm <sup>2</sup>	4...25 mm <sup>2</sup>
	2x Class 2 - Stranded	1.5...16 mm <sup>2</sup>	1.5...16 mm <sup>2</sup>	4...25 mm <sup>2</sup>	4...25 mm <sup>2</sup>	4...25 mm <sup>2</sup>	4...25 mm <sup>2</sup>	4...25 mm <sup>2</sup>
	2x Class 1 - Solid	1.5...6 mm <sup>2</sup>	1.5...6 mm <sup>2</sup>	2.5...6 mm <sup>2</sup>				
Cu-wire size suitable	16-2 AWG	16-2 AWG	12-2/0 AWG	12-2/0 AWG	12-2/0 AWG	12-2/0 AWG	12-2/0 AWG	
Double wire (2x)	16-8 AWG	16-8 AWG	12-4 AWG					
Terminal tightening torque	Counter torque required	2 Nm	2 Nm	6 Nm				
		18 lb.in	18 lb.in	53 lb.in				
Operating torque	3-pole change-over switch	4 Nm						
		36 lb.in						

1) Max. Rated fuse size for 3-pole change-over switch

# OT Plus change-over switches

## Technical data UL

### Technical data according to UL 60947-4-1 and UL98

		OTC63G2		OTC80G2		OTC30G3		OTC60G3		OTC100G3	
Frame size		G2		G2		G3		G3		G3	
Approval Compliance		UL 60947-4-1 CSA C22.2 No.14 E63822				UL98 CSA C22.2 No.4 E101914					
Max. Operating voltage		600 V		600 V		600 V		600 V		600 V	
General purpose amp rating		pf = 0.7...0.8 63 A		80 A <sup>1)</sup>		30 A		60 A		100 A	
Max. Horsepower rating / motor FLA current		pf = 0.4...0.5									
		120 V		5 hp/ 30.4 A		5 hp/30.4 A		5 hp/30.4 A		7.5 hp/44 A	
		208 V		15 hp/46.2 A		20 hp/54 A		20 hp/54 A		30 hp/80 A	
		240 V		15 hp/42 A		20 hp/54 A		10 hp/28 A		20 hp/54 A	
		480 V		30 hp/40 A		40 hp/52 A		20 hp/27 A		40 hp/52 A	
		600 V		30 hp/32 A		40 hp/41 A		30 hp/32 A		50 hp/52 A	
		120 V		2 hp/24 A		2 hp/24 A		2 hp/24 A		3 hp/ 34 A	
		208 V		7.5 hp/44 A		10 hp/55 A					
		240 V		7.5 hp/40 A		10 hp/50 A		5 hp/28 A		7.5 hp/40 A	
		480 V		15 hp/34 A		20 hp/44 A		10 hp/26 A		15 hp/34 A	
		600 V		15 hp/27 A		20 hp/39 A		15 hp/27 A		25 hp/44 A	
Short circuit rating with fuse		Maximum fuse size		100 A 150 A		100 A 150 A		60 A		60 A 100 A	
		Fuse type		J		100 kA		100 kA		100 kA	
				T		100 kA		100 kA		100 kA	
				RK5 1-phase		5 kA		5 kA		5 kA	
				RK5 3-phase		5 kA		5 kA		5 kA	
Rated amp rating in DC applications		250Vdc 2-Pole connection						30 A		60 A 100 A	
Min. Electrical endurance, pf = 0.75...0.8		Electrical operations		6,000		6,000		6,000		6,000	
Divide by two for operation cycles		Mechanical operations		20,000		20,000		20,000		20,000	
Terminal lugs				integrated		integrated		integrated		integrated	
Wire range copper		Single stranded		16-2 AWG		16-2 AWG		12-2/0 AWG		12-2/0 AWG	
		Single solid		16-10 AWG		16-10 AWG		12-10 AWG			
		Double stranded (2x)		16-8 AWG		16-8 AWG				12-4 AWG	
		Double solid (2x)		16-10 AWG		16-10 AWG				12-4 AWG	
Terminal tightening torque		Counter torque required		18 lb.in 2 Nm		18 lb.in 2 Nm		53 lb.in 6 Nm		53 lb.in 6 Nm	
Weight without accessories		3-pole		1.24 lbs		1.24 lbs		1.93 lbs		1.93 lbs	
		4-pole		1.55 lbs		1.55 lbs		2.43 lbs		2.43 lbs	
Operating torque		3-pole switch-disconnector		36 lb.in 4 Nm		36 lb.in 4 Nm		36 lb.in 4 Nm		36 lb.in 4 Nm	
Technical data according to IEC 60947-3		OT63G2-		OT80G2-				OT63G3-		OT100G3-	

1) 75oC cable. C/O switches 80 A





# Ordering information

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14      Change-over switches

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## OT Plus change-over switches

### Ordering information

#### Front operated change-over switches, base and DIN-rail mounting. IEC60947-3

Including padlockable direct mounted handle, and protected terminal clamps IP20 from front. External operating handle and shaft are not included.



OTC63...80G2-6BS

#### IEC60947-3 - Operational voltage: <415VAC

Number of poles	Open air thermal current I <sub>th</sub>	Copper cable cross section	Rated operational currents AC22A/AC23A <415VAC	Frame size	Type	Order code
3	63	1.5...35	63/63	G2	OTC63G2-3BS	1SCA162734R1001
3	80	1.5...35	80/65	G2	OTC80G2-3BS	1SCA162737R1001
3	63	2.5...70	63/63	G3	OTC63G3-3BS	1SCA162743R1001
3	80	2.5...70	80/80	G3	OTC80G3-3BS	1SCA162745R1001
3	100	2.5...70	100/100	G3	OTC100G3-3BS	1SCA162747R1001
3	125	2.5...70	125/125	G3	OTC125G3-3BS	1SCA162749R1001
3	160	2.5...70	160/125	G3	OTC160G3-3BS	1SCA162751R1001
4	63	1.5...35	63/63	G2	OTC63G2-4BS	1SCA162736R1001
4	80	1.5...35	80/65	G2	OTC80G2-4BS	1SCA162738R1001
4	63	2.5...70	63/63	G3	OTC63G3-4BS	1SCA162744R1001
4	80	2.5...70	80/80	G3	OTC80G3-4BS	1SCA162746R1001
4	100	2.5...70	100/100	G3	OTC100G3-4BS	1SCA162748R1001
4	125	2.5...70	125/125	G3	OTC125G3-4BS	1SCA162750R1001
4	160	2.5...70	160/125	G3	OTC160G3-4BS	1SCA162752R1001



OTC63...100G3-4BS



OTC63...80G2-3BS

#### Front operated change-over switches, base and DIN-rail mounting. UL60947-4-1/UL98

Including padlockable direct mounted handle, and protected terminal clamps IP20 from front. External operating handle and shaft are not included.

#### UL60947-4-1/UL98 - Operational voltage: <600VAC

Number of poles	General purpose amp rating	Copper wire range	Horsepower rating 3-phase			Type	Order code
			240VAC HP	480VAC HP	600VAC HP		
3	30	12-2/0 AWG	10	20	30	OTC30G3-3BS	1SCA162739R1001
3	60	12-2/0 AWG	20	40	50	OTC60G3-3BS	1SCA162741R1001
3	100	12-2/0 AWG	30	50	60	OTC100G3-3BS	1SCA162747R1001
4	30	12-2/0 AWG	10	20	30	OTC30G3-4BS	1SCA162740R1001
4	60	12-2/0 AWG	20	40	50	OTC60G3-4BS	1SCA162742R1001
4	100	12-2/0 AWG	30	50	60	OTC100G3-4BS	1SCA162748R1001



OTC30...100G3-4BS





# Accessories

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<b>17</b>	Handle knobs
<b>17</b>	Auxiliary contacts
<b>18</b>	Additional pole
<b>18</b>	Terminal shrouds
<b>18</b>	Parallel connection kits

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## Optional accessories for change-over switches

### Ordering information



OHBS9

#### Handle knobs for base and DIN-rail mounted switches

Non padlockable

**Not possible to be used together with shaft**

Suitable for switches	Frame size	Padlocking	Colour	Type	Order code	MOQ
OTC63G2-...OTC80G2-	G2	No	Black	OHBS59/1	1SCA108689R1001	1
		No	Black	OHBS59	1SCA108665R1001	10
OTC30G3-...OTC160G3-	G3	No	Red	OHR559/1	1SCA108690R1001	1
		No	Red	OHR559	1SCA108666R1001	10



AUXGB-11

#### Auxiliary contacts for OT Plus change-over switches OTC63G2\_...160G3\_

Snap-on mounting to the side of the switch. Mountable on both sides of the switch. Max. 2+2 contacts blocks (4NO + 4NC). All NO auxiliary contacts have early break function in any mountable position (NO auxiliary contact opens >20ms before main contacts). Contact numbering according to EN50013 included. I<sub>th</sub> = 16 A, cable cross section max. 2x2.5 mm<sup>2</sup>.

Suitable for switches	Frame size	Mounting	Function	Type	Order code	MOQ
OTC63G2-...OTC100G2-_BS	G2	DIN and Base	1NO + 1NC	AUXGB-11	1SCA162594R1001	10
OTC30G3-...OTC160G3-_BS	G3					

## Optional accessories for change-over switches

### Ordering information

#### Additional pole for base, DIN-rail and door mounted switches

Mountable on both sides of the switch. Suitable for both base and door mounted switches.

##### Fixed neutral pole

Suitable for switches	Frame size	Marking	Type	Order code	MOQ
OTC63G2-...OTC100G2-	G2	N	PNG2	1SCA162602R1001	10
OTC30G3-...OTC160G3-	G3	N	PNG3	1SCA162603R1001	10



PNG2

##### Protective earth pole

Suitable for switches	Frame size	Marking	Type	Order code	MOQ
OTC63G2-...OTC100G2-	G2	PE	PEG2	1SCA162600R1001	10
OTC30G3-...OTC160G3-	G3	PE	PEG3	1SCA162601R1001	10



PEG3

#### Terminal shrouds for base, DIN-rail and door mounted switches

Snap-on mounting, mountable on both sides of the switch. Suitable for both base and door mounted switches. IP2X from front.

Suitable for switches	Frame size	Colour	Poles	Type	Order code	MOQ
OTC63G2-...OTC100G2-	G2	Transparent	1	TSG2-1	1SCA162604R1001	10
OTC63G2-...OTC100G2-	G2	Transparent	3	TSG2-3	1SCA162605R1001	10
OTC30G3-...OTC160G3-	G3	Transparent	1	TSG3-1	1SCA162606R1001	10
OTC30G3-...OTC160G3-	G3	Transparent	3	TSG3-3	1SCA162607R1001	10



TSG3-1



TSG3-3

#### Parallel connection kits

Finger protected connection bars for parallel connection of the upper or lower terminals. The bars accept additional cables, the maximum size is started below.

Suitable for switches	Cable cross section			Order code	Units/ type	Weight/ unit kg
	mm <sup>2</sup>	Type	pcs			
OTC63G2-...OTC80G2	25	3 pole	OZXA42	1SCA164225R1001	1	0.06
	25	4 pole	OZXA43	1SCA164226R1001	1	0.09
OTC30G3-...OTC160G3	50	3 pole	OZXA40	1SCA022790R3910	1	0.16
	50	4 pole	OZXA41	1SCA022790R4040	1	0.24



OZXA





# Dimensional drawings

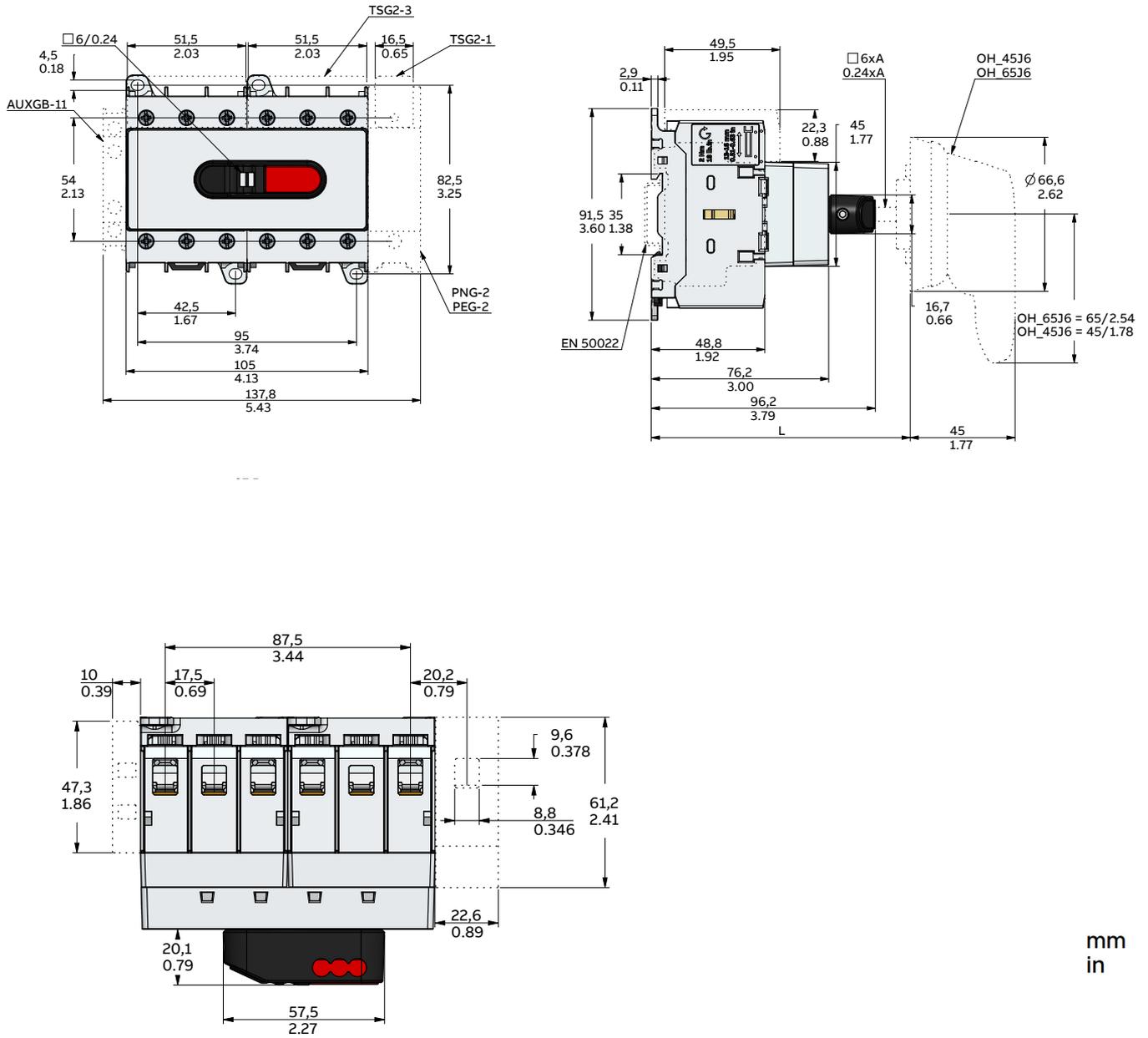
<b>21</b>	OTC63...80G2-3BS
<b>22</b>	OTC63...80G2-4BS
<b>23</b>	OTC30...160G3-3BS
<b>24</b>	OTC30...160G3-4BS

# OT Plus change-over switches

## Dimension drawings

Front operated change-over switches, base and DIN-rail mounting IEC

### OTC63...80G2-3BS



mm  
in



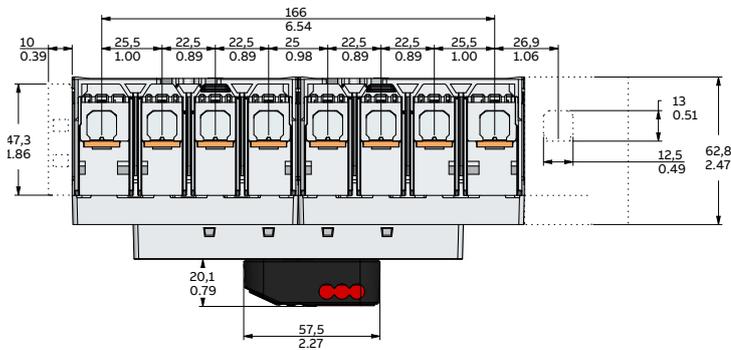
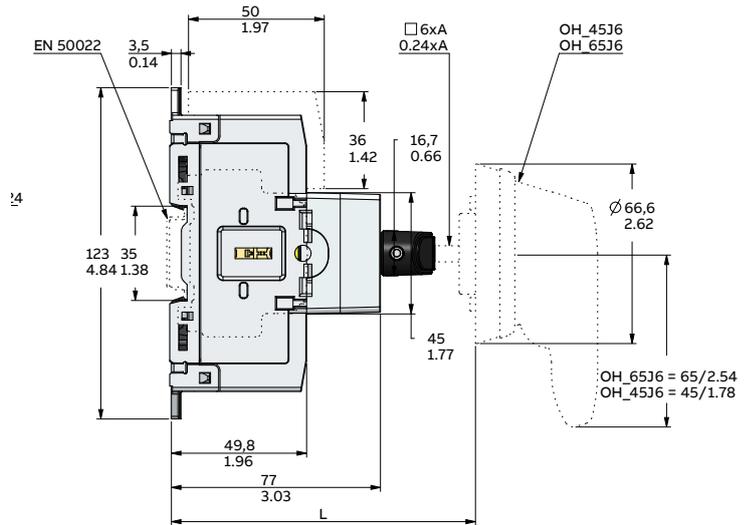
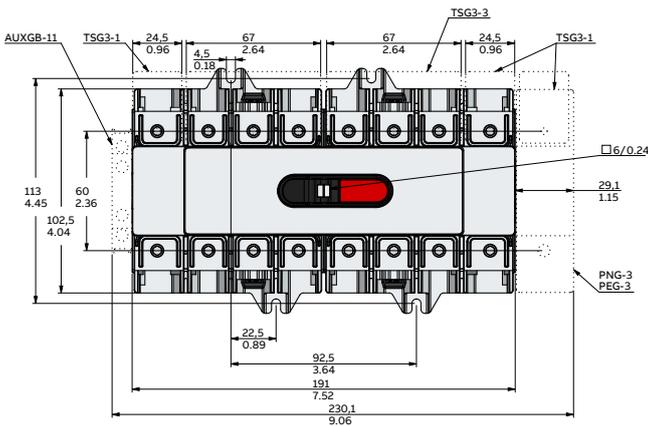


# OT Plus change-over switches

## Dimension drawings

Front operated switch disconnectors, base and DIN-rail mounting IEC

### OTC30...160G3-4BS



mm  
in







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**ABB Oy**  
**Smart Power**

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