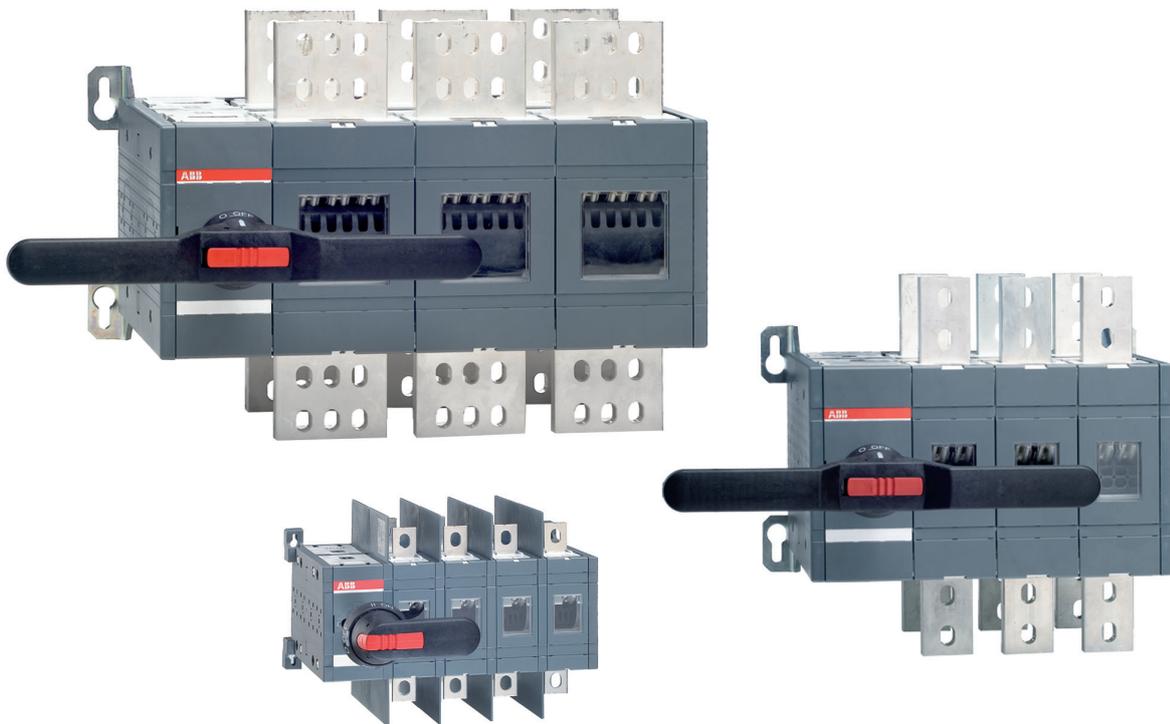


Manual change-over switches

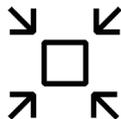
The growing importance of a secure power supply

ABB offers a wide variety of manual change-over switches, from 16 to 3200 Amperes in range. Manual change-over switches are available with three different transition types; Open, fast or closed.



Single terminal per pole construction

A single terminal per pole across the entire range also eliminates the need to use additional fixing sets to do connections and creating savings in terms of energy consumption and space occupied.



Modular and flexible

The modular and flexible construction, which can even include an adjustable periscopic haft, allows for different arrangements of the poles and handle, providing you with the opportunity to create unique space saving solutions for your customers.



UL/CSA certified performance

To complement our wide range of manual change-over switches, we also offer open transition manual change-over switches designed according to UL/CSA certification standards in a power range from 30 to 800 Amperes.

Manual change-over switches

From 16 to 3200 Amperes

Manual operation, change-over switches 16-125A



Types	OT16_C OT25_C OT40_C			OT63_C OT80_C		OT100_C OT125_C	
lth	25 A	32 A	40 A	63 A	80 A	115 A	125 A
le /AC-22A, < 415V	16 A	25 A	40 A	63 A	80 A	100 A	125 A
le /AC-23A, < 415V	16 A	20 A	23 A	63 A	75 A	80 A	90 A

Manual operation, change-over switches 160-800A



Types	OT160_C OT200_C OT250_C			OT160_W_C OT200_W_C OT250_W_C			OT315_C OT400_C		OT630_C OT800_C	
lth	160 A	200 A	250 A	160 A	200 A	250 A	315 A	400 A	630 A	800 A
le /AC-22A, < 415V	160 A	200 A	250 A	160 A	200 A	250 A	315 A	400 A	630 A	800 A
le /AC-23A, < 415V	160 A	200 A	250 A	160 A	200 A	250 A	315 A	400 A	630 A	800 A
le/AC-31B, < 415V	160 A	200 A	250 A	160 A	200 A	250 A	315 A	400 A	630 A	800 A

Manual operation, change-over switches 1000-3200A



Types	OT1000_C OT1250_C		OT1600_C		OT2000_C OT2500_C		OT3200_C	
lth	1000 A	1250 A	1600 A	2000 A	2500 A		3200 A	
le /AC-22A, < 415V	1000 A	1250 A	1600 A	-	-		-	
le /AC-23A, < 415V	1000 A	1250 A	1250 A	-	-		-	
le /AC-21B, < 415V	-	-	-	2000 A	2500 A		3200 A	
le /AC-31B, < 415V	1000 A	1250 A	1600 A	2000 A	2000 A			

UL/CSA manual change-over switches, 30-800 A



Types	OT30_C	OT60_C	OT100_C	OT200_C	OT400_C	OT600_C	OT800_C
Current, general use	30 A	60 A	100 A	200 A	400 A	600 A	800 A
UL98, 600 V	30 A	60 A	100 A	200 A	400 A	600 A	800 A
le /AC-22A, < 415V	40 A	63 A	100 A	250 A	400 A	800 A	800 A

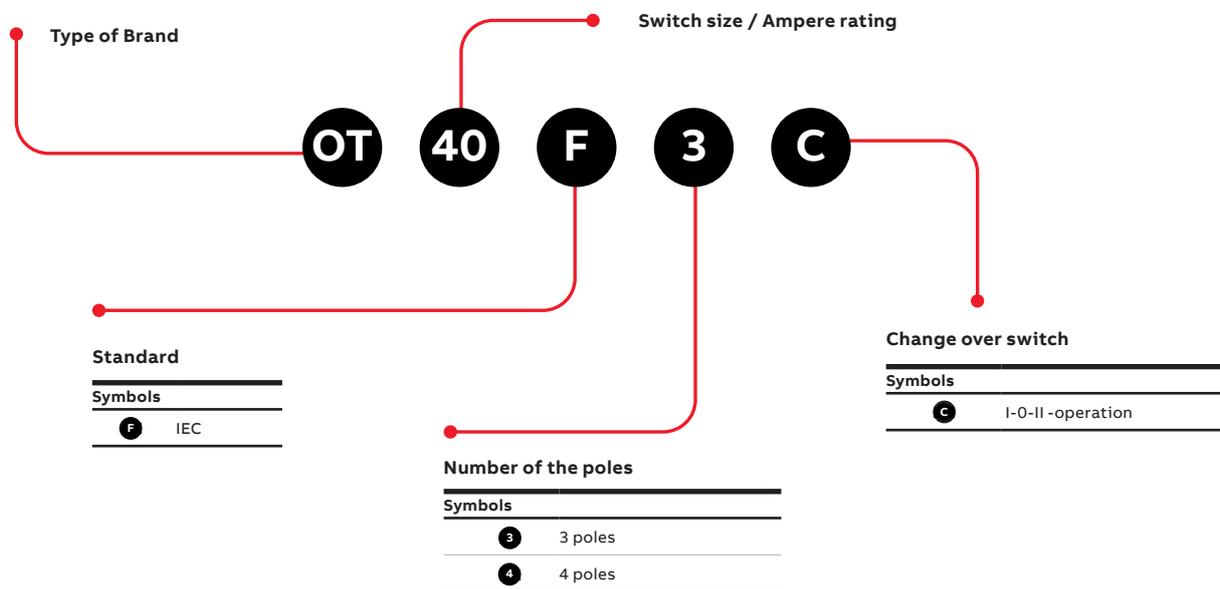
Manual change-over switches

Type codes and pole configuration table

Type codes

Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

Explanation of the types OT16..125_C



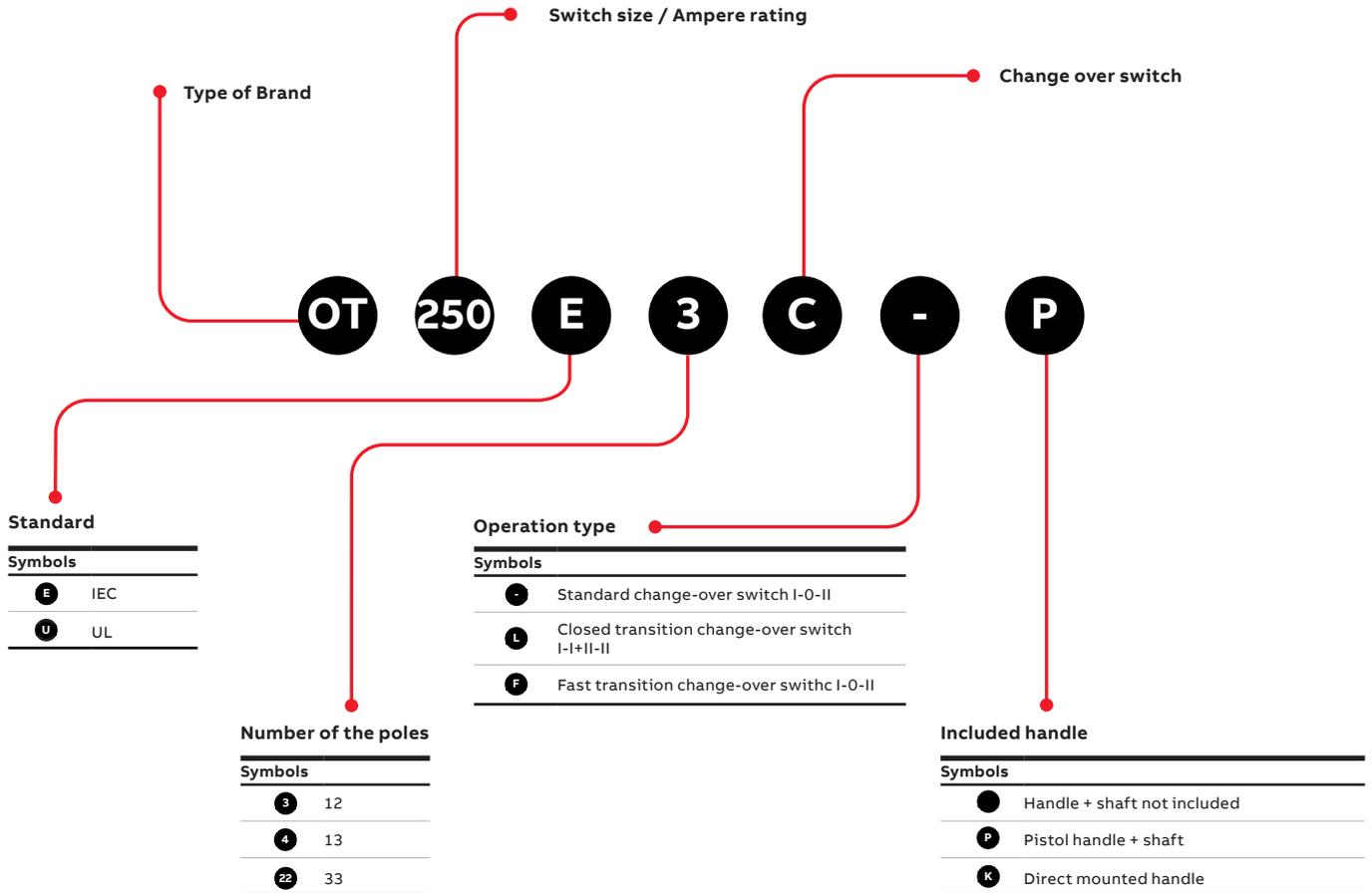
Manual change-over switches

Type codes and pole configuration table

Type codes

Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

Explanation of the types OT160...3200_C



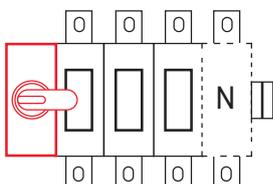
Pole configuration table

The various placing options of the operating mechanism in relation to the 3 or 4 poles is illustrated below. The operating mechanism may be placed at the end of the switch or between poles.

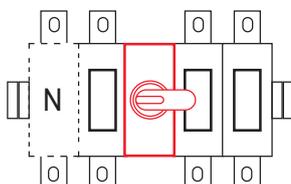
For example:

03	(Without N) 3-poles, operating mechanism at the left end of the switch*
04	(Including N) 4-poles, operating mechanism at the left end of the switch*
12	(Without N) 3-poles, operating mechanism between the poles**
22	(Including N) 4-poles, operating mechanism between the poles**
30	3-poles, operating mechanism at the right end of the switch*
40	4-poles, operating mechanism at the right end of the switch*

*Configuration 03 & 04:



**Configuration 12 & 22:



To learn how to install the key accessories, watch the video



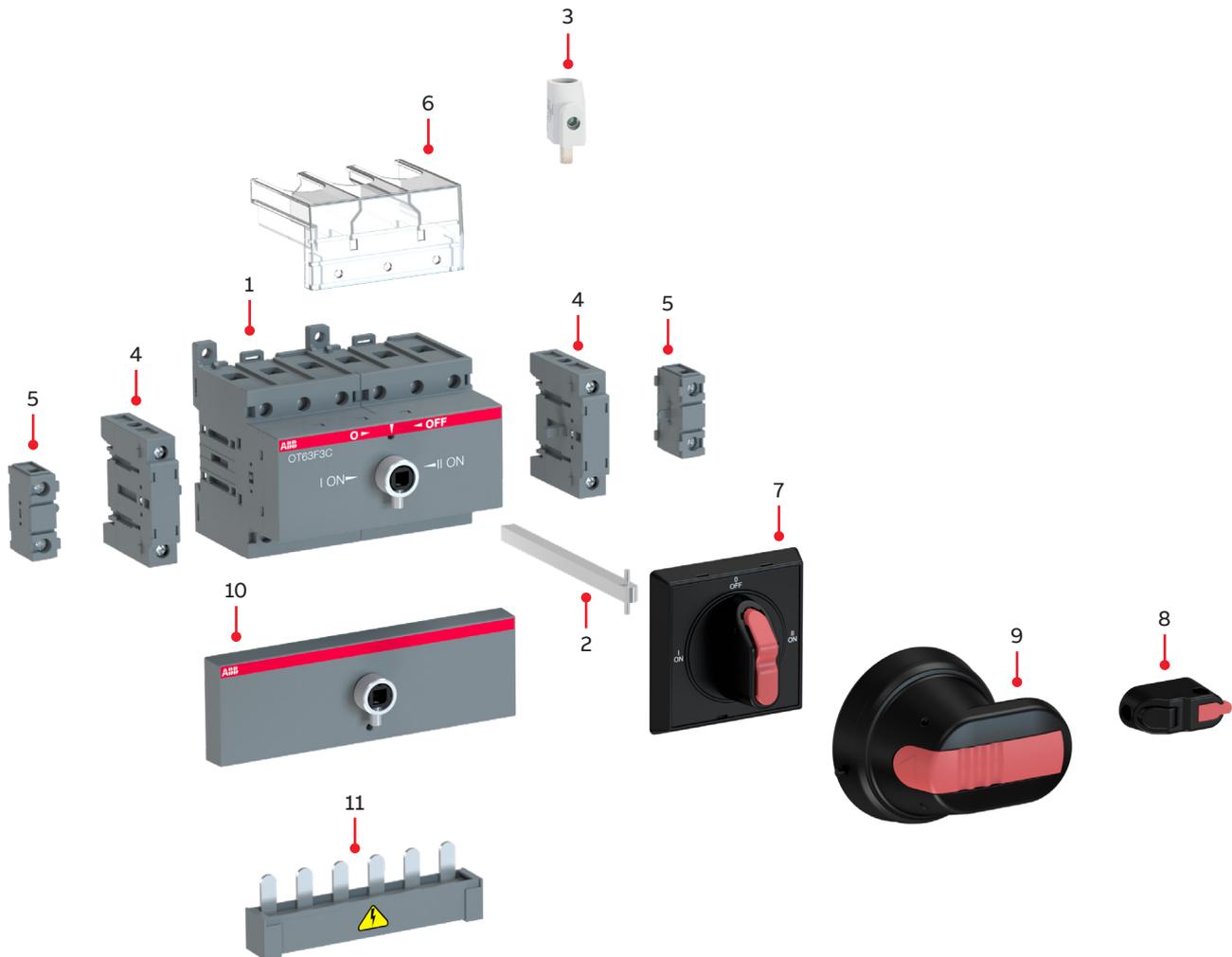
Manual transfer switches 160...3200 A – Installation, operation and accessories

*Max 8 aux. contacts on right side of the switch (4 per position).

** Max. 16 aux contacts on right and left side of the switch (8 per position/side).

Manual change-over switches

Ordering information for OT16...OT125_C



Manual change-over switch accessory guide

- | | |
|------------------------------|---|
| 1. Manual change-over switch | 7. Selector handle, black or red/yellow |
| 2. Extended shaft | 8. Direct handle knob |
| 3. Terminal clamp | 9. Pistol handle, black or red/yellow |
| 4. Fourth pole | 10. Conversion kit |
| 5. Auxiliary contact | 11. Parallel connection kit |
| 6. Terminal shroud | |

Please note that not all listed accessories are automatically included in your order and needs to be ordered separately. See next page for recommendations.

Manual change-over switches

Ordering information for OT16...OT125F_C



OT16...40F3C



OT63...80F3C



OT100...125F3C

Direct operation:



OHBS3



OHBS9

External operation:



OHBS2AJE011



OHB45J6E311



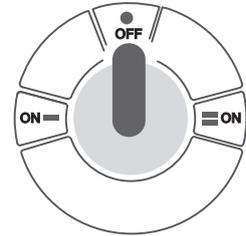
OZXA38



OZXA32

Open transition with stable OFF position

Simple I-O-II –operation where the handle is padlockable in O-position and door interlock available in the I- and II-positions (and when padlocked). Mounting options: Din-rail or base mounting with screws. OT16...40F3C black knob is for position indication purpose only, additional handle must be used for operating the switch.



Manual change-over switches, open transition, OT16...OT125F_C

Handle and shaft not included. See recommended accessories.

No. of poles	Rated current and power			Type	Order code	Weight/ unit kg
	AC-21A/AC-22A		AC-23A			
	≤ 415V	400V	400...415V			
	I	S	I/P			
	A	kVA	A/kW			
3	16	11	16/7.5	OT16F3C	1SCA104816R1001	0.25
4	16	11	16/7.5	OT16F4C	1SCA104831R1001	0.31
3	25	17	20/9	OT25F3C	1SCA104863R1001	0.25
4	25	17	20/9	OT25F4C	1SCA104877R1001	0.31
3	40	27	23/11	OT40F3C	1SCA104913R1001	0.25
4	40	27	23/11	OT40F4C	1SCA104934R1001	0.31
3	63	43	63/30	OT63F3C	1SCA105338R1001	0.64
4	63	43	63/30	OT63F4C	1SCA105369R1001	0.70
3	80	55	75/37	OT80F3C	1SCA105402R1001	0.64
4	80	55	75/37	OT80F4C	1SCA105418R1001	0.70
3	100	70	80/37	OT100F3C	1SCA105008R1001	0.90
4	100	70	80/37	OT100F4C	1SCA105019R1001	1.18
3	125	86	90/45	OT125F3C	1SCA105037R1001	0.90
4	125	86	90/45	OT125F4C	1SCA105054R1001	1.18

Cable cross section of the change-over switches

Suitable for switches	Cable cross section mm ²
OT16...40F_C	0.75 ... 10
OT63...80F_C	1.5 ... 35
OT100...125F_C	10 ... 70

Recommended accessories: Handles, shafts and parallel connection kit

Suitable for switches	Operating type	Handle type	Order code	Shaft type	Order code
OT16...40F_C	Direct operation	OHBS3	1SCA108320R1001	–	–
OT63...125F_C	Direct operation	OHBS9	1SCA108665R1001	–	–
OT16...125F_C	Selector handle (external)	OHBS2AJE011	1SCA105220R1001	OX56X120	1SCA101654R1001
OT16...125F_C	Pistol handle (external)	OHB45J6E311	1SCA022817R2130	EXP6X170	1SCA108224R1001

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 stated below.

Suitable for switches	Cable cross section mm ²	Type	Order code	Units/ type pcs	Weight/ unit kg
OT16...40F3C	6 (fine stranded), 10 (stranded)	OZXA33	1SCA022685R0310	1	0.02
OT16...40F4C	6 (fine stranded), 10 (stranded)	OZXA32	1SCA022683R4110	1	0.03
OT63...80F3C	25	OZXA38	1SCA022785R2140	1	0.06
OT63...80F4C	25	OZXA39	1SCA022790R3820	1	0.09
OT100...125F3C	50	OZXA40	1SCA022790R3910	1	0.16
OT100...125F4C	50	OZXA41	1SCA022790R4040	1	0.24