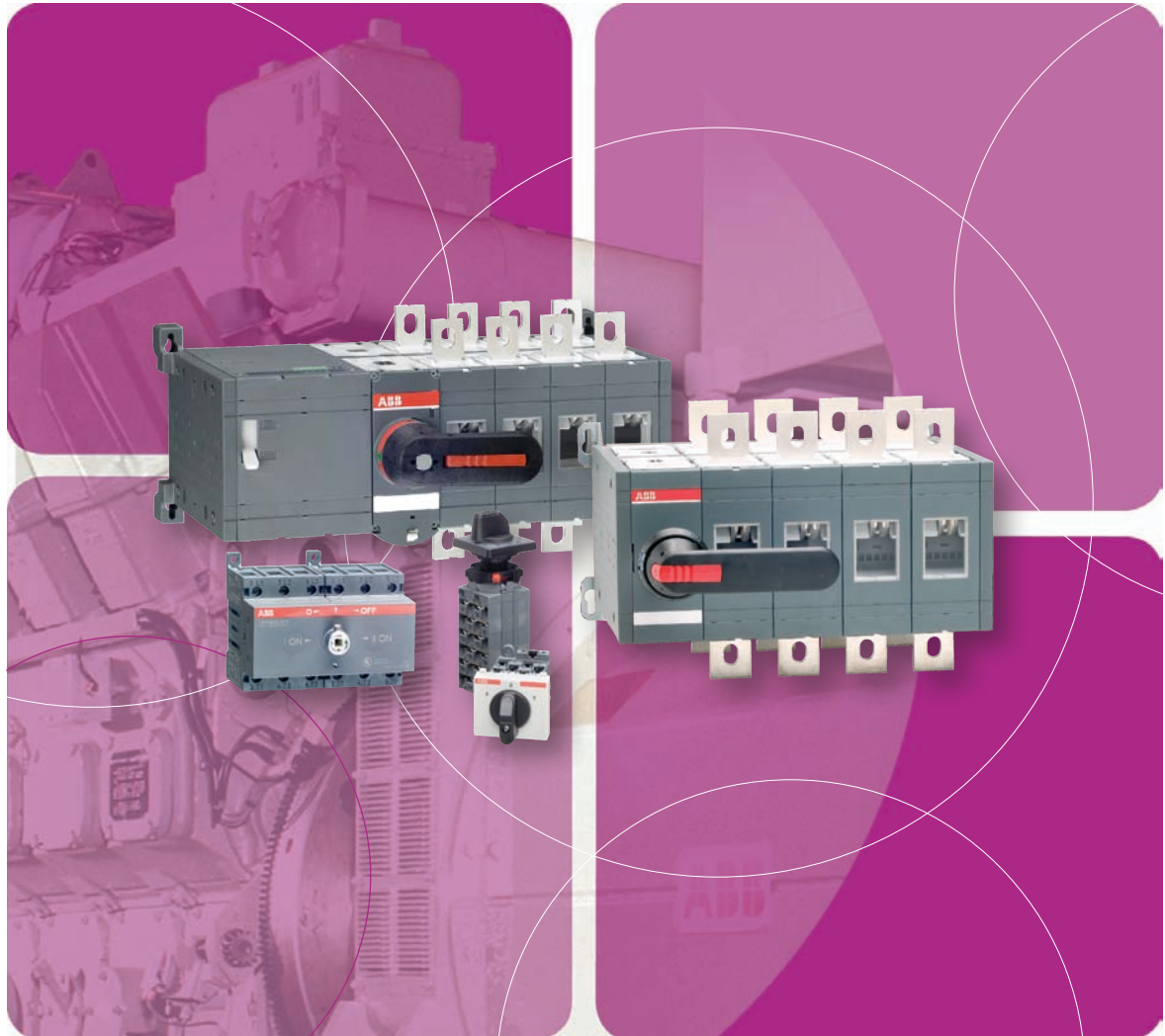


Low Voltage Products

Switches

Change-over and transfer switches

Rotary change-over and bypass cam switches





16...2 500 A

Change-over switches



OT16F
OT25F
OT40F

I_{th} /A
 I_e /AC-22A, ≤ 415V
 I_e /AC-23A, ≤ 415V

25	32	40
16	25	40
16	20	23



OT63F
OT80F

63	80
63	80
45	75



OT100F
OT125F

100	125
100	125
80	90



OT160E
OT200E
OT250E

160	200	250
160	200	250
160	200	250



OT160E_W
OT200E_W
OT250E_W

160	200	250
160	200	250
160	200	250



OT315E
OT400E

315	400
315	400
315	400



OT1000E
OT1250E

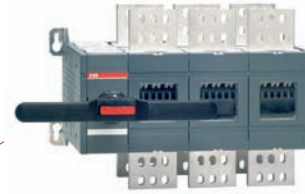
I_{th} /A
 I_e /AC-22A, ≤ 415V
 I_e /AC-23A, ≤ 415V
 I_e /AC-21B, ≤ 415V

1000	1250
1000	1250
1000	1250



OT1600E

1600
1600
1250



OT2000E
OT2500E

2000	2500
------	------

2000	2500
------	------



OTM160E
OTM200E
OTM250E

I_{th} /A
 I_e /AC-22A, ≤ 415V
 I_e /AC-23A, ≤ 415V

160	200	250
160	200	250
160	200	250



OTM160E_W
OTM200E_W
OTM250E_W

160	200	250
160	200	250
160	200	250



OTM315E
OTM400E

315	400
315	400
315	400



OTM630E
OTM800E

630	800
630	800
630	800



Accessories

Optional handles
Extended shafts
Auxiliary contacts

Terminal shrouds
Connecting accessories
Locking accessories



Change-over switches Transfer switches



OT630E
OT800E

630 800
630 800
630 800



OEM1000
OEM1250
OEM1600

1000 1250 1600
1000 1250 1600
800 800 800

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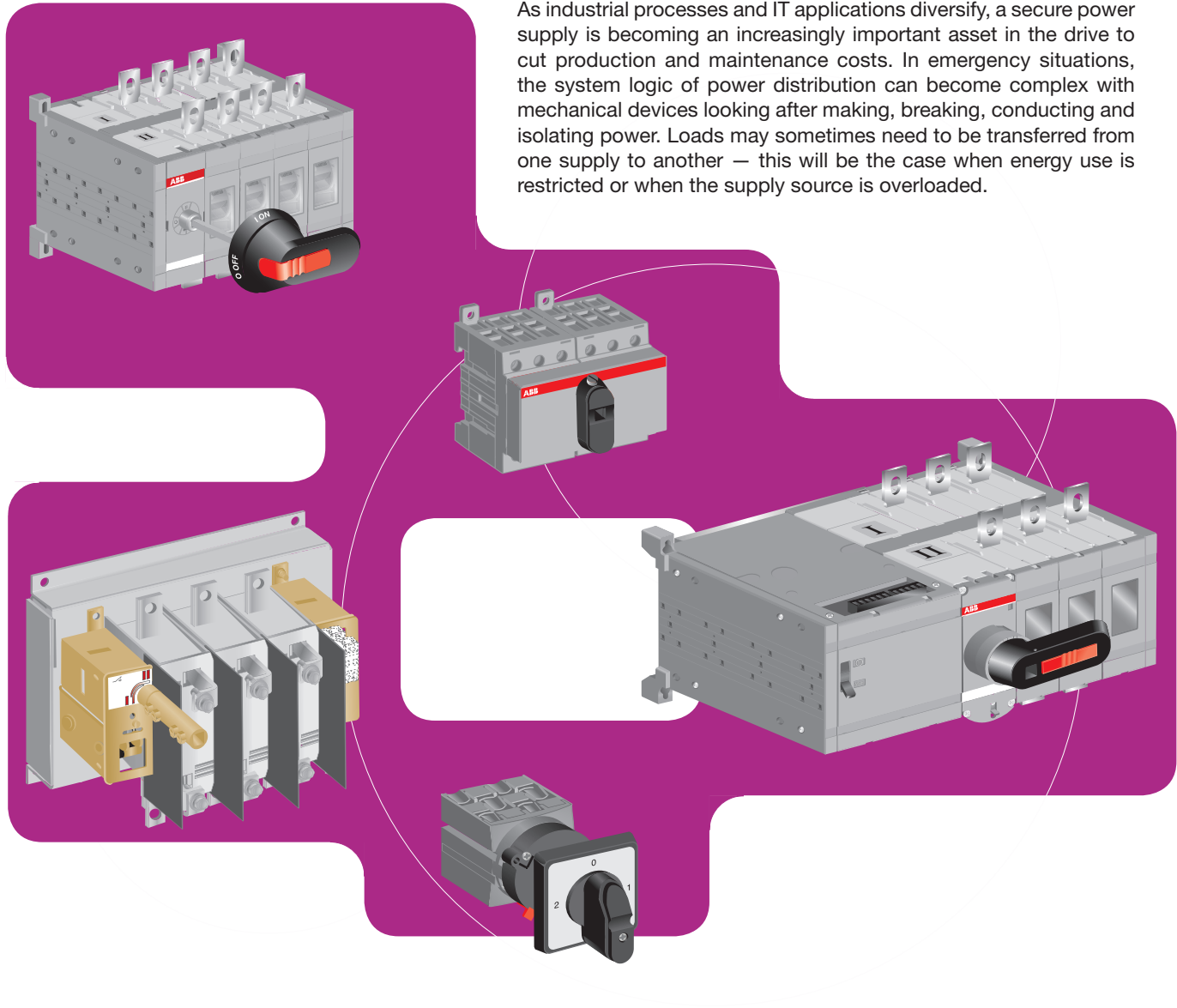
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Secured power supply

Growing importance of a secure power supply

As industrial processes and IT applications diversify, a secure power supply is becoming an increasingly important asset in the drive to cut production and maintenance costs. In emergency situations, the system logic of power distribution can become complex with mechanical devices looking after making, breaking, conducting and isolating power. Loads may sometimes need to be transferred from one supply to another — this will be the case when energy use is restricted or when the supply source is overloaded.



Tested against IEC 60947-6-1

In change-over applications where the loaded switch may need to be operated remotely, adequate durability has been ensured by testing against the IEC 60947-6-1 standard in the specification of endurance requirements.

Utilization categories:

- AC-31 for non-inductive or slightly inductive load
- AC-33 for motor loads or mixed loads including motors

Comparison of endurance test between IEC 60947-3 and -6-1 ($I_e = 315$ Amperes).

Number of operating cycles

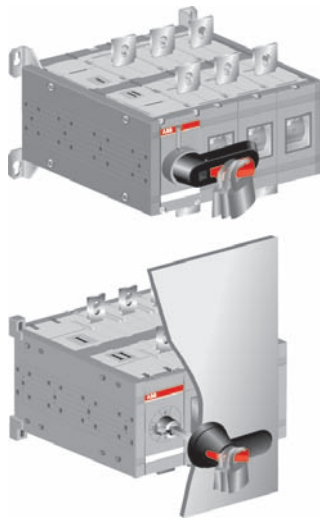
Category A	Category B	I_{Test} [A]	Operating cycle
IEC 60947-3	AC-23		
1000	200	315	O-I-O
IEC 60947-6	AC-33		
4000	1000	315	O-I-O-II-O

to diverse applications

Ensuring service continuity

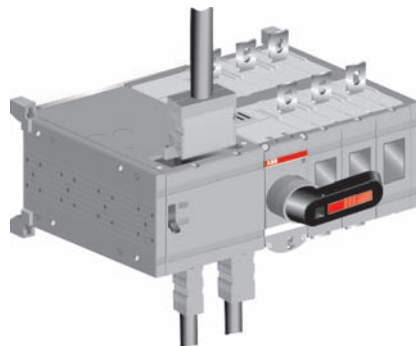
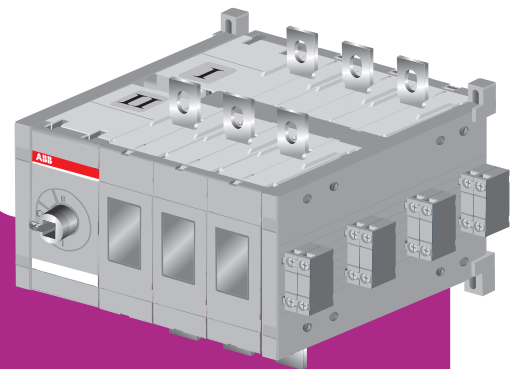
ABB OTc change-over switches ensure service continuity with a number of built-in, integrated safety features. The change-over mechanism, for example, offers three stable positions which ensure isolation of the two asynchronous power supplies. This eliminates any risk of short-circuit between them, even in the presence of transient voltages. In the motorized versions, the control circuit offers extra security: if two commands are received simultaneously, the OFF command is always given priority.

Easy installation for local or remote control



The design of ABB OTc change-over switches is advanced and compact, allowing installation in confined spaces at considerable savings. They are very easy to install: the manually operated switch is operated via a handle fixed directly on the switch or on the panel door.

The 16 to 125 Ampere sizes can be snapped-on to a DIN rail and the front fits in the 45 mm consumer unit cut-out.



The motorized change-over switches have snap-on control wire connections. Auxiliary contacts can be snapped-on to the sides of the switches and the power terminals can be connected in parallel with bridging bars.

Applications

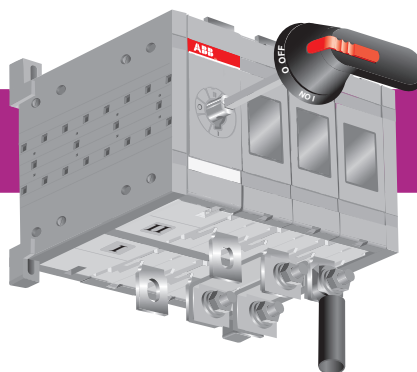
ABB Change-over switches are suitable for any emergency power supply system application requiring an uninterrupted supply of power from generator sets, UPS equipment or power utilities.

In Automatic Transfer Switching Equipment (ATSE), emergency power is transferred automatically from one supply to another via one or more load circuits by

the system logic that controls the motor operated transfer switch. The Closed Transition Transfer switches

ensure uninterrupted manual bypass to the power line. They have two overlapping positions (I and II) which ensure that the equipment is powered even when maintenance work is being done.

The door-mounted rotary cam switches come in many types: with two and three positions, with spring return, with overlapping contacts and so on.





Manual change-over switches

Technical data

Data according to IEC 60947-3

Switch size			OT16_
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3	V	750
Dielectric strength	50 Hz 1min.	kV	6
Rated impulse withstand voltage		kV	8
Rated thermal current and rated operational current AC20/DC20	/ ambient 40°C	In open air	25
	/ ambient 40°C	In enclosure	25
	/ ambient 60°C	In enclosure	20
..with minimum conductor cross section	Cu	mm ²	4
Rated operational current, AC-21A	up to 500 V	A	16
	690 V	A	16
Rated operational current, AC-22A	up to 500 V	A	16
	690 V	A	16
Rated operational current, AC-23A	up to 415 V	A	16
	440 V	A	16
	500 V	A	16
	690 V	A	10
Rated operational power, AC-23A ¹⁾ The kW-ratings are accurate for 3-phase 1500 R.P.M. standard asynchronous motors	230 V	kW	3
	400 V	kW	7.5
	415 V	kW	7.5
	500 V	kW	7.5
	690 V	kW	7.5
Rated breaking capacity in category AC-23	up to 415 V	A	128
	500 V	A	128
	690 V	A	80
Rated conditional short-circuit current I_p (r.m.s.) and corresponding max. allowed cut-off current \hat{i}_c (peak) value. The cut-off current \hat{i}_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).	I_p (r.m.s.) 50 kA, 415 V Max. OFA_ fuse size	\hat{i}_c (peak) gG/aM	6.5 40/32
	I_p (r.m.s.) 100 kA, 500 V Max. OFA_ fuse size	\hat{i}_c (peak) gG/aM	kA A
Rated short-time withstand current	I_{cw} (r.m.s.)	690 V 1s	kA
Rated short-time making capacity ²⁾	I_{cm} (peak)	690 V	kA
Power loss / pole	With rated current	W	0.3
Mechanical endurance	Number of oper. cycles ³⁾	Cycles	10 000
Mechanical endurance / switch	Number of operations	Oper.	20 000
Cable size	Cu-wire size suitable for terminal clamps	mm ²	0.75-10
		AWG	18-8
Terminal tightening torque	Counter torque required	Nm	0.8
Operating torque	Typical for 3-pole switches	Nm	1
Weight without accessories	3-pole switch	kg	0.25
	4-pole switch	kg	0.31

Data according to UL508 (Listed)

Current		A	16
Horsepower, 3-phase	200 V	HP	3
	208 V	HP	3
	240 V	HP	5
	480 V	HP	10
	600 V	HP	10

¹⁾ These values are given for guidance and may vary acc. to the motor manufacturer.

²⁾ Short circuit duration >50ms, without fuse protection

³⁾ Operating cycle: O - I - O - II - O



Manual change-over switches

Technical data

OT25_	OT40_	OT63_	OT80_	OT100_	OT125_
750	750	750	750	750	750
6	6	6	6	6	6
8	8	8	8	8	8
32	40	63	80	115	125
32	40	63	80	115	125
25	32	50	63	80	100
6	10	16	25	35	50
25	40	63	80	100	125
25	40	63	80	100	125
25	40	63	80	100	125
25	40	63	80	100	125
20	23	45	75	80	90
20	23	45	65	65	78
20	23	45	58	60	70
11	12	20	20	40	50
4	5,5	11	22	22	22
9	11	22	37	37	45
9	11	22	37	37	45
9	11	22	37	37	45
9	11	15	18.5	37	45
160	184	360	640	640	720
160	184	360	464	480	560
88	96	160	160	320	400
6.5	6.5	13	13	16.5	16.5
40/32	40/32	100/80	100/80	125/125	125/125
		17	17		
		100/80	100/80		
0.5	0.5	1	1.5	2.5	2.5
0.7	0.7	1.4	2.1	3.6	3.6
0.6	1.6	2.8	4.5	4.0	6.3
10 000	10 000	10 000	10 000	10 000	10 000
20 000	20 000	20 000	20 000	20 000	20 000
0.75-10	0.75-10	1.5-35	1.5-35	10-70	10-70
18-8	18-8	14-4	14-4	8-00	8-00
0.8	0.8	2	2	6	6
1	1	1.2	1.2	2	2
0.25	0.25	0.64	0.64	0.90	0.90
0.31	0.31	0.70	0.70	1.18	1.18
25	40	60	80		
7.5	10	15	20		
7.5	10	15	20		
7.5	10	15	20		
15	20	30	40		
20	25	30	40		



Manual and motorized change-over switches

Technical data

Data according to IEC 60947-3

Switch size			OT_160_	OT_200_	OT_250_
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3	V	1000	1000	1000
Dielectric strength	50 Hz 1min.	kV	10	10	10
Rated impulse withstand voltage		kV	12	12	12
Rated thermal current and rated operational current AC20/DC20 / ambient 40°C / ambient 40°C	In open air	A	160	200	250
	In enclosure	A	160	200	250
..with minimum conductor cross section	Cu	mm ²	70	95	120
Rated operational current, AC-21A	up to 500 V	A	160	200	250
	690 V	A	160	200	250
Rated operational current, AC-22A	up to 500 V	A	160	200	250
	690 V	A	160	200	250
Rated operational current, AC-23A	up to 415 V	A	160	200	250
	440 V	A	160	200	250
	500 V	A	160	200	250
	690 V	A	160	200	250
Rated operational power, AC-23A ¹⁾ The kW-ratings are accurate for 3-phase 1500 R.P.M. standard asynchronous motors	230 V	kW	45	60	75
	400 V	kW	90	110	140
	415 V	kW	90	110	145
	500 V	kW	110	132	170
	690 V	kW	160	200	250
Rated breaking capacity in category AC-23	up to 415 V	A	1 280	1 600	2 000
	500 V	A	1 280	1 600	2 000
	690 V	A	1 280	1 600	2 000
Rated conditional short-circuit current I _p (r.m.s.) and cut-off current I _c (peak) value. The cut-off current I _c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).	I _p (r.m.s.) 80 kA, 415 V Max. OFA ₂ fuse size	I _c (peak) gG/aM	kA A/A	40.5 355/315	40.5 355/315
	I _p (r.m.s.) 100 kA, 500 V Max. OFA ₂ fuse size	I _c (peak) gG/aM	kA A	40.5 315/315	40.5 315/315
	I _p (r.m.s.) 80 kA, 690 V Max. OFA ₂ fuse size	I _c (peak) gG/aM	kA A	40.5 355/315	40.5 355/315
Rated short-time withstand current	I _{cw} (r.m.s.)	690 V 0.15s	kA	15	15
		690 V 0.25s	kA	15	15
		690 V 1s	kA	8	8
		690 V	kA	30	30
Rated short-time making capacity ²⁾	I _{cm} (peak) ³⁾				
Power loss / pole	With rated current	W	2.4	4	6.5
Mechanical endurance	Number of oper. cycles ⁴⁾	Cycles	8 000	8 000	8 000
Mechanical endurance / switch	Number of operations	Oper.	16 000	16 000	16 000
Terminal bolt size	Metric thread diameter x length	mm	M8x25	M8x25	M8x25
Terminal tightening torque	Counter torque required	Nm	15-22	15-22	15-22
Operating torque	Typical for 3-pole switches	Nm	7	7	7
Weight without accessories	3-pole switch	kg	2.5	2.5	2.5
	4-pole switch	kg	3.2	3.2	3.2

Data according to IEC 60947-6-1

Class of equipment			PC	PC	PC
Rated short-time withstand current	I _{cw} (r.m.s.)	690 V 0.1s	kA	15	15
Rated operational current, AC-31B		up to 415 V	A	160	250
Rated operational current, AC-33B		up to 415 V	A	160	250

¹⁾ These values are given for guidance and may vary acc. to the motor manufacturer.

²⁾ Short circuit duration >50ms, without fuse protection

³⁾ Max. distance from switch frame to nearest busbar / cable support 150 mm

⁴⁾ Operating cycle: O - I - O - II - O

⁵⁾ Category AC-21B, up to 415V

⁶⁾ For manual change-over switches.

⁷⁾ For motorized change-over switches.



Manual and motorized change-over switches

Technical data

OT_315_	OT_400_	OT_630_	OT_800_	OT1000_	OT1250_	OT1600_	OT2000_	OT2500_
1000	1000	1000	1000	1 000	1 000	1 000	1 000	1 000
10	10	10	10	10	10	10	10	10
12	12	12	12	12	12	12	12	12
315	400	630	800	1 000	1 250	1 600	2000	2500
315	400	630	800					
185	240	2 x 185	2x240	2 x 300	2 x 400	2 x 500	3 x 500	4 x 500
315	400	630	800	1 000	1 250	1 600	2000 ⁵⁾	2500 ⁵⁾
315	400	630	800	1 000	1 250	1 600		
315	400	630	800	1 000	1 250	1 600		
315	400	630	800	1 000	1 250	1 250		
315	400	630	800	1 000	1 250	1 250		
315	400	630	800	1 000	1 250	1 250		
315	400	630	800	1 000	1 250	1 250		
100	132	200	250	315	400	400		
160	220	355	450	560	710	710		
180	230	355	450	560	710	710		
220	280	400	560	710	900	900		
315	400	630	800	1 000	1 200	1 200		
2 520	3 200	5 040	6 400	10 000	10 000	10 000		
2 520	3 200	5 040	6 400	10 000	10 000	10 000		
2 520	3 200	5 040	6 400	10 000	10 000	10 000		
59	59	83.5	83.5	100	100	100		
500/500	500/500	800/1 000	800/1 000	1 250/1 250	1 250/1 250	1 250/1 250		
61.5	61.5	90	90	106	106	106		
500/450	500/450	800/800	800/800	1 250/1 250	1 250/1 250	1 250/1 250		
59	59	83.5	83.5					
500/500	500/500	800/1 000	800/1 000					
31	31	38	38	50	50	50	50	50
24	24	36	36	50	50	50	50	50
15	15	20	20	50	50	50	50	50
65	65	80	80	92	92	92	110	110
6.5	10	25	40	19	29	48	55	85
8 000	8 000	5 000	5 000	3 000	3 000	3 000	2000	2000
16 000	16 000	10 000	10 000	6 000	6 000	6 000	4000	4000
M10x30	M10x30	M12x40	M12x40	M12x60	M12x60	M12x60	M12x60	M12x60
30-44	30-44	50-75	50-75	50-75	50-75	50-75	50-75	50-75
16	16	27	27	78	78	78	78	78
4.7	4.7	12.8	12.8	32.3	32.3	34.8	48	48
5.8	5.8	15.6	15.6	40.2	40.2	43.3	60	60
PC	PC	PC	PC	PC	PC	PC	PC	PC
25	25	38	38	50	50	50	50	50
315	400	630 ⁶⁾ /650 ⁷⁾	800 ⁶⁾ /720 ⁷⁾	1 000	1 250	1 600	2000	2000
315	400	630 ⁶⁾ /650 ⁷⁾	800 ⁶⁾ /650 ⁷⁾	1 000	1 000	1 000		



Motorized change-over switches

Technical data

Data for motorized change-over switches OEM according to IEC 60947-3

Switch size		A	OEM 1000	OEM 1250	OEM 1600
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3	V	1000	1000	1000
Dielectric strength	50 Hz 1 min.	kV	8	8	8
Rated impulse withstand voltage		kV	8	8	8
Rated thermal current and rated operational current AC20/DC20	/ ambient 40°C / ambient 40°C / ambient 60°C	In open air	A	1000	1250
		In enclosure	A	1000	1250
		In enclosure	A	900	1000
..with minimum conductor cross section		Cu	mm ²	2x (60x5)	2x (80x5)
Rated operational current, AC-21A	up to 690 V	A	1000	1250	1600
	1000 V	A	1000	1000	1000
Rated operational current, AC-22A	up to 500 V	A	1000	1250	1600
Rated operational current, AC-23A	up to 415 V	A	800	800	800
	440 V	A	800	800	800
	500 V	A	800	800	800
Rated operational power, AC-23A	The kW-ratings are accurate for 3-phase 1500 R.P.M. standard asynchronous motors.	220-240 V	kW	250	250
		400-415 V	kW	400	400
		440 V	kW	400	400
		500 V	kW	450	450
Rated conditional short-circuit current I_p (r.m.s.) and corresponding max. allowed cut-off current \hat{I}_c (peak) ¹⁾	I_p (r.m.s.) : 50 kA, ≤ 690 V	\hat{I}_c (peak)	kA	105	105
Rated short-time withstand current	I_{cw} (r.m.s.)	690V, 1s	kA	50 ²⁾	50 ²⁾
Rated short-circuit making capacity	I_{cm} (peak)	690V/500V	kA	105	105
Mechanical endurance	Number of operating cycles ³⁾	Cycles	3 000	3 000	3 000
Mechanical endurance / switch	Number of operations	Oper.	6000	6000	6000
Terminal bolt size	Metric thread diameter x length	mm	12x60	12x60	12x60
Terminal tightening torque	Counter torque required	Nm	50...75	50...75	50...75
Operating torque	3-pole switches	Nm	25	25	25

Data according to IEC 60947-6-1


Rated operational current, AC-31B	up to 415 V	A	1000	1250	1600
Rated operational current, AC-33B	up to 415 V	A	800	800	800
Rated operational current, AC-31A	up to 415 V	A	1000	1250	1600
Rated operational current, AC-33A	up to 415 V	A	450	450	450

¹⁾ The cut-off current \hat{I}_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).

²⁾ Maximum distance between busbar support and switch terminal 70 mm.

³⁾ Operating cycle: O - I - O - II - O

Data according to UL and CSA

Data according to UL and CSA							
	Switch size		OT200U_	OT400U_	OT600U_	OETL- NFC800	OETL- NFC1200
Standards			UL98 CSA 22.2#4	UL98 CSA 22.2#4	UL98 CSA 22.2#4	UL1008	UL1008
General use ratings - 1- or 3-phase ratings		V	600	600	600		
		A	200	400	600		
Horsepower, 3-phase ratings	240V	HP	75	125	200		
	480V	HP	150	250	450		
	600V	HP	200	350	500		
Resistive load							
Voltage		V				600	600
Current		A				800	1200
Total load							
Voltage		V				240	
Current		A				630	
Short-circuit ratings	Required protection	Circuit breaker	kA	14	25	35	
	Class J/L fuse	kA	65/100	100	100		
	...fuse size	A	400/200	600	800		
	Class RK5 fuse	kA			100		
	...fuse size	A			600		

Data according to IEC 60947-3

Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3		V	1000	1000	1000	1000	1000
Dielectric strength	50 Hz 1min.		kV	10	10	10	8	8
Rated impulse withstand voltage			kV	12	12	12	8	8
Rated thermal current and rated operational current AC20/DC20	/ ambient 40°C	In open air	A	250	400	800	1250	1600
..with minimum conductor cross section		Cu	mm ²	120	240	2x 240	2x (80x5)	2x (100x5)
Rated operational current, AC-21A		up to 690 V	A	250	400	800	1250	1600
Rated operational current, AC-22A		up to 500 V	A	250	400	800	1250	1600
		690 V	A	250	400	800		
Rated operational current, AC-23A		up to 500 V	A	250	400	800	800	800
		690 V	A	250	400	800		
Rated conditional short-circuit current I _p (r.m.s.) and	I _p (r.m.s.) : 100 kA, 500 V	ic (peak)	kA	40.5	61.5	90		
corresponding max. allowed	Max. OFA ₁ fuse size	gG/aM	A	315/315	500/450	800/800		
cut-off current i _c peak value ¹⁾	I _p (r.m.s.) : 80 kA, 690 V	ic (peak)	kA	40.5	59	83,5		
	Max. OFA ₁ fuse size	gG/aM	A	355/315	500/500	800/1000		
Rated short-time withstand current	I _{cw} (r.m.s.)	690V, 1s	kA	8	15	20	50 ²⁾	50 ²⁾
Rated short-circuit making capacity	I _{cm} (peak)	690V	kA	30	65	80	105	105
Mechanical endurance	Number of operating cycles ³⁾		Cycles	8000	8000	5000	3 000	3 000
Mechanical endurance / switch	Number of operations		Oper.	16000	16000	10000	6000	6000
Terminal bolt size	Metric thread diameter x length		mm	M8x25	M10x30	M12x40	M12x60	M12x60
Terminal tightening torque	Counter torque required		Nm	15...22	30...44	50...75	50...75	50...75
Operating torque	3-pole switches		Nm	7	16	27	25	25

Data according to IEC 60947-6-1

Rated operational current	AC-31B	up to 415 V	A	250	400	800	1250	1600
	AC-33B	up to 415 V	A	250	400	800	800	800
	AC-31A	up to 415 V	A				1250	1600
	AC-33A	up to 415 V	A				450	450

¹⁾ The fuse in single-phase test according to IEC 60269.

²⁾ Maximum distance between busbar support and switch terminal 70 mm.

³⁾ Operating cycle: O - I - O - II - O.



Motor operators Technical data

Data for motor operator OTM according to IEC 60947

			Switch size	160...250	315...400	600...800
Rated operational voltage U_o	Pollution degree 3 50/60 Hz		V AC V AC/DC V DC V DC	220 - 240 110 - 125 48 24	220 - 240 110 - 125 48 24	220 - 240 110 - 125 48 24
Operating voltage range				$0.85 - 1.1 \times U_o$	$0.85 - 1.1 \times U_o$	$0.85 - 1.1 \times U_o$
Operating time ¹⁾	90° I-0, 0-I, 0-II, II-0	0.85 - 1.1 x U_o				
		220-240V AC	s	0.4 - 1.0	0.4 - 1.0	0.4 - 1.0
		110-125V AC/DC	s	0.5 - 1.5	0.5 - 1.5	0.6 - 1.2
		48V DC	s	0.5 - 1.5	0.4 - 1.0	0.6 - 1.6
Operating transfer time ¹⁾	180° I-0-II, II-0-I	24V DC	s	0.4 - 1.0	0.4 - 1.0	0.5 - 1.5
		0.85 - 1.1 x U_o				
		220-240V AC	s	1.0 - 2.0	0.9 - 2.0	0.9 - 2.0
		110-125V AC/DC	s	1.1 - 2.5	1.2 - 2.6	1.2 - 3.0
OFF -time when operating I - II or II - I ¹⁾	180° I - II, II - I	48V DC	s	1.4 - 2.5	1.0 - 2.0	1.3 - 3.0
		24V DC	s	1.0 - 2.0	1.0 - 2.0	1.1 - 2.5
		0.85 - 1.1 x U_o				
		220-240V AC	s	0.4 - 1.0	0.4 - 1.0	0.4 - 1.0
Nominal current I_n ¹⁾		110-125V AC/DC	s	0.4 - 1.1	0.5 - 1.5	0.6 - 1.5
		48V DC	s	0.5 - 1.1	0.4 - 1.0	0.7 - 1.6
		24V DC	s	0.4 - 1.0	0.4 - 1.0	0.5 - 1.5
		220-240V AC	A	0.2	0.5	0.7
Current Inrush ¹⁾		110-125V AC/DC	A	0.5	0.6	0.8
		48V DC	A	1.1	2.1	2.6
		24V DC	A	3.3	4.2	4
		220-240V AC	A	1.3	2.1	2.8
Overload fuse	Type / I_n / Capacity	110-125V AC/DC	A	2.1	2.5	4.6
		48V DC	A	4.4	8.3	8.4
		24V DC	A	16.8	17.5	22.4
		220-240V AC	A	T / 315 / H	T / 500 / H	T / 1000 / H
Operating rate	Cycle 0-I-0-II-0 Max. continuous	110-125V AC/DC	mA	T / 500 / H	T / 630 / H	T / 1000 / H
		48V DC	A	T / 1.25 / H	T / 2.5 / H	T / 2.5 / H
		24V DC	A	T / 4.0 / H	T / 5.0 / H	T / 5.0 / H
		220-240V AC	mm	5x20	5x20	5x20
Max. short-time ≤ 10 cycles		220-240V AC	cycles/min	1	1	1
		110-125V AC/DC	cycles/min	1	1	1
		48V DC	cycles/min	1	1	1
		24V DC	cycles/min	1	1	1
Overvoltage category	Rated impulse withstand voltage U_{imp}	220-240V AC	cycles/min	10	10	10
		110-125V AC/DC	cycles/min	10	10	10
		48V DC	cycles/min	10	10	10
		24V DC	cycles/min	10	10	10
Dielectric strength	Min. impulse duration		ms		100	
Impulse command						
Terminals						
Voltage supply wiring for U_o					PE- N - L	
Cross section		solid/stranded	mm ²		1.5 - 2.5	
Short-circuit protection device		max. fuse size	A		16	
Push-button control		C - II - I - O			no SELV	
Cross section		solid/stranded	mm ²		1.5 - 2.5	
Maximum cable length			m		100	
State information of locking						
Handle attached or motor operator locked		11-12-14 (C/O)			no SELV	
Locking motor operator		23-24 (NO)			5A/250V/cosφ=1	
Short-circuit protection device		MCB type and size			5A/250V/cosφ=1	
Protection degree					C/2A	
Operating temperature			°C		IP20	
Transportation and storage temperature			°C		-25...+55°C	
Max. altitude			m		-40...+70°C	
					2 000	

¹⁾ Under nominal conditions

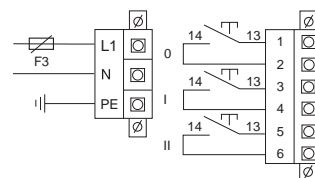
Technical data for motor operator OEM

Rated insulation voltage (control circuit), U_i	250V
Operating temperature	-5... +40°C
Rated control voltage	$0.85...1.1 \times U_s$
Rated control frequency (230 VAC)	45...66 Hz

Nominal voltage U_s [V]	Type	Operation time [s] when operating 0-I, 0-II, I-0 or II-0		Operation time [s] when operating I-II or II-I		OFF-time [s] when operating I-II or II-I		Max. continuous operating rate [cycles / h]	Max. short-time (≤ 10 cycles) operating rate [cycles / h]
		Min	Max	Min	Max	Min	Max		
24	OEM1000...1600	0.3	1.1	0.7	2	0.4	1	120	240
48	OEM1000...1600	0.3	1	0.6	1.9	0.3	1	120	240
230	OEM1000...1600	0.4	1.4	1	2.7	0.5	1.4	120	240

Nominal voltage [V]	Operational current [A]	Max. current [A]
230 VAC	1	4
48 VAC/VDC	5	18
24 VAC/VDC	10	36

Connection diagram
for supply and control
wires
(max. 2.5 mm²)



Technical data for auxiliary contacts according to IEC 60947-5-1

For OA1G_, OA2G_, OA3G_, OA7G_, OA8G_							For OZ XK_			
U _e /[V]	AC15 I _e /[A]	U _e /[V]	DC12 I _e /[A]	P/[W]	DC13 I _e /[A]	P/[W]	U _e /[V]	AC12 I _e /[A]	U _e /[V]	DC12 I _e /[A]
230	6	24	10	240	2	50	120	8	125	1.1
400	4	72	4	290	0.8	60	240	6	250	0.55
415	4	125	2	250	0.55	70	400	4	440	0.31
690	2	250	0.55	140	0.27	70	415	4	500	0.27
		440	0.1	44			480	3	600	0.2
							500	3		
							690	2		



Manual transfer switches, closed transition

Technical data

Data according to UL508 (Recognized)



	Switch size	OESC	250K ₁	500K ₁	250K04N2	400K04N2
General use						
Voltage		V	480	480	480	480
Current		A	250	500	250 ¹⁾	400 ²⁾
Short circuit current r.m.s		kA	50	50	50	50

Data according to IEC 60947-3

Rated insulation voltage	Pollution degr. 3	V	1 000	1 000	1000	1000
Dielectric strength	50 Hz 1min.	kV	8	8	8	8
Rated impulse withstand voltage		kV	12	12	12	12
Rated thermal current in ambient 40 °C	In open air	A	250	500	250	400
...with minimum cable cross section	Cu	mm ²	120	2x 120	120	240
Rated operational voltage AC-20 and DC-20		V	1 000	1 000	1000	1000
Rated operational current, AC-21A	500 V	A	250	500	250 ¹⁾	400 ²⁾
Rated operational current, AC-22A	500 V	A	250	500	250 ¹⁾	400 ²⁾
Rated conditional short-circuit current I _p (r.m.s.) and corresponding max. allowed cut-off current î _p , peak value.	I _p : 50 kA/ ≤ 500 V	kA	42	42	42	42
Mechanical endurance	Number of operating cycles ³⁾	Cycles	8 000	8 000	8 000	8 000
Mechanical endurance / switch	Number of operations	Oper.	16 000	16 000	16 000	16 000
Terminal bolt size	Diameter x length	mm	M10x40	M10x40	M10x40	M10x40
Terminal tightening torque	Counter torque required	Nm	30...44	30...44	30...44	30...44
Operating torque	3-pole switches	Nm	30	30		

¹⁾ Powerpoles 250 A; Neutral 400 A, with minimum cable cross section 240 mm².

²⁾ Powerpoles 400 A; Neutral 630 A, with minimum cable cross section 2 x 185 mm².

³⁾ Operating cycle: O - I - O - II - O

Manual change-over switches, I-O-II -operation, open transition

Including terminal clamps, IP20. Handle and shaft has to be ordered separately. OT 16...80 are UL Listed.

Number of poles	Rated current AC-21A...AC-22A Up to 415V 400V I[A] S[kVA]		Rated power AC-23A 400...415V I[A] / P[kW]	Cable cross section [mm ²]	Type	Order number	Weight [kg]
3	16	11	16/7.5	0.75 ... 10	OT16F3C	1SCA104816R1001	0.25
4	16	11	16/7.5	0.75 ... 10	OT16F4C	1SCA104831R1001	0.31
3	25	17	20/9	0.75 ... 10	OT25F3C	1SCA104863R1001	0.25
4	25	17	20/9	0.75 ... 10	OT25F4C	1SCA104877R1001	0.31
3	40	27	23/11	0.75 ... 10	OT40F3C	1SCA104913R1001	0.25
4	40	27	23/11	0.75 ... 10	OT40F4C	1SCA104934R1001	0.31
3	63	43	45/22	1.5 ... 35	OT63F3C	1SCA105338R1001	0.64
4	63	43	45/22	1.5 ... 35	OT63F4C	1SCA105369R1001	0.70
3	80	55	75/37	1.5 ... 35	OT80F3C	1SCA105402R1001	0.64
4	80	55	75/37	1.5 ... 35	OT80F4C	1SCA105418R1001	0.70
3	100	70	80/37	10 ... 70	OT100F3C	1SCA105008R1001	0.90
4	100	70	80/37	10 ... 70	OT100F4C	1SCA105019R1001	1.18
3	125	86	90/45	10 ... 70	OT125F3C	1SCA105037R1001	0.90
4	125	86	90/45	10 ... 70	OT125F4C	1SCA105054R1001	1.18

Manual change-over switches, I-O-II -operation, open transition

Including a black plastic IP65 I - O - II pistol type handle, see the table below, shaft and bolt set for the cable connection. Handle padlockable in the 0-position, door interlock in the I- and II-positions and when padlocked.

Number of poles	Rated current AC-21A...AC-22A Up to 415V 400V I[A] S[kVA]		Rated power AC-23A 400V I[A] / P[kW]	Type	Order number	Weight [kg]
Place of mechanism, see the picture. Types -W: with wide phase distance.						
3	160	110	160/90	OT160E03CP	1SCA022772R6510	3.3
3				OT160E12CP	1SCA022776R9080	3.3
3				OT160E03WCP	1SCA022772R8210	3.6
4				OT160E04CP	1SCA022775R9440	4.1
4				OT160E13CP	1SCA022777R0170	4.1
4				OT160E04WCP	1SCA022775R0220	4.4
3	200	135	200/110	OT200E03CP	1SCA022771R7520	3.3
3				OT200E12CP	1SCA022776R8510	3.3
3				OT200E03WCP	1SCA022772R8720	3.6
4				OT200E04CP	1SCA022771R7280	4.1
4				OT200E13CP	1SCA022777R0250	4.1
4				OT200E04WCP	1SCA022775R0650	4.4
3	250	170	250/140	OT250E03CP	1SCA022771R3450	3.3
3				OT250E12CP	1SCA022776R9320	3.3
3				OT250E03WCP	1SCA022772R8300	3.6
4				OT250E04CP	1SCA022775R4640	4.1
4				OT250E13CP	1SCA022777R0330	4.1
4				OT250E04WCP	1SCA022775R0810	4.4
3	315	215	315/160	OT315E03CP	1SCA022772R6780	5.9
3				OT315E12CP	1SCA022776R9910	5.9
4				OT315E04CP	1SCA022775R7150	7.1
4				OT315E13CP	1SCA022777R0410	7.1
3	400	275	400/220	OT400E03CP	1SCA022771R8500	5.9
3				OT400E12CP	1SCA022776R9590	5.9
4				OT400E04CP	1SCA022771R8680	7.1
4				OT400E13CP	1SCA022777R0500	7.1
3	630	435	630/355	OT630E03CP	1SCA022785R6050	17.7
3				OT630E12CP	1SCA022785R8690	17.7
4				OT630E04CP	1SCA022785R6130	21
4				OT630E13CP	1SCA022785R9070	21
3	800	550	800/450	OT800E03CP	1SCA022785R6300	17.7
3				OT800E12CP	1SCA022785R8850	17.7
4				OT800E04CP	1SCA022785R6210	21
4				OT800E13CP	1SCA022785R9230	21
3	1000	680	1000/560	OT1000E03CP	1SCA022872R1680	48
3				OT1000E12CP	1SCA103287R1001	48
4				OT1000E04CP	1SCA022872R1500	60
4				OT1000E13CP	1SCA103291R1001	60
4				OT1000E22CP	1SCA103289R1001	60



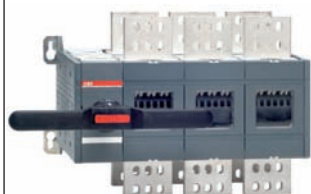
OT630...800E03CP



OT630...800E04CP



OT1000...1250E22CP



OT2000...2500E03CP

Manual change-over switches, I-O-II -operation, open transition

Including a black plastic IP65 I - 0 - II pistol type handle, see the table below, shaft and bolt set for the cable connection. Handle padlockable in the 0-position, door interlock in the I- and II-positions and when padlocked.

Number of poles	Rated current ⁽¹⁾ AC-21A...AC-22A Up to 415V 400V I[A] S[kVA]		Rated power AC-23A 400V I[A] / P[kW]	Type	Order number	Weight
						[kg]
Place of mechanism, see the picture.						
3	1250	850	1250/710	OT1250E03CP	1SCA022872R0790	48
3				OT1250E12CP	1SCA103308R1001	48
4				OT1250E04CP	1SCA022872R1250	60
4				OT1250E13CP	1SCA103313R1001	60
4				OT1250E22CP	1SCA103311R1001	60
3	1600	1000	1250/710	OT1600E03CP	1SCA022872R1840	51
3				OT1600E12CP	1SCA103293R1001	51
4				OT1600E04CP	1SCA022872R2310	63
4				OT1600E13CP	1SCA103306R1001	63
4				OT1600E22CP	1SCA103303R1001	63
3	2000	1350		OT2000E03CP	1SCA103908R1001	70
3				OT2000E12CP	1SCA103915R1001	70
4				OT2000E04CP	1SCA103912R1001	86
4				OT2000E13CP	1SCA103918R1001	86
4				OT2000E22CP	1SCA103953R1001	86
3	2500	1700		OT2500E03CP	1SCA105615R1001	70
3				OT2500E12CP	1SCA103891R1001	70
4				OT2500E04CP	1SCA103906R1001	86
4				OT2500E13CP	1SCA103895R1001	86
4				OT2500E22CP	1SCA103902R1001	86

¹⁾ OT2000...2500: Category AC-21B

Shafts, handle and bolt kits included as standard

Suitable for switches	Shaft	Handle	Bolt kit
OT160...250	OX P6x161	OHB65J6E011	M8x25
OT315...400	OX P12x166	OHB95J12E011	M10x30
OT630...800	OX P12x185	OHB125J12E011	M12x40
OT1000...2500	OX P12x185	OHB200J12PE011	M12x60



Motorized change-over switches

Ordering information

Change-over switches, motor operation, I-0-II -operation, open transition

Including a handle for manual operation, bolt kit with nut and washers for all terminals and male connectors for control circuits. Types OTM160-250E_W are equipped with extended phase distance.



OTM160...250E3_



OTM160...250E4_



OTM160...250E3W_



OTM315...400E3_



OTM315...400E4_

Number of poles	Rated Current AC-21A...AC-22A Up to 415 V I [A]	Rated Current AC-23A Up to 415 V I [A]/P[kW]	Rated Current AC-31B...AC-33B Up to 415 V I [A]	Motor voltage U _e	Type	Order number	Weight [kg]
3	160	160/90	160	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM160E3CM230C	1SCA022845R8610	6.6
					OTM160E3CM110V	1SCA022845R8530	6.6
					OTM160E3CM48D	1SCA022845R8450	6.6
					OTM160E3CM24D	1SCA022845R8110	6.6
3	160	160/90	160	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM160E3WCM230C	1SCA022846R4000	6.9
					OTM160E3WCM110V	1SCA022846R3450	6.9
					OTM160E3WCM48D	1SCA022846R3370	6.9
					OTM160E3WCM24D	1SCA022846R3290	6.9
4	160	160/90	160	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM160E4CM230C	1SCA022848R1510	7.5
					OTM160E4CM110V	1SCA022846R1080	7.5
					OTM160E4CM48D	1SCA022846R0940	7.5
					OTM160E4CM24D	1SCA022846R0860	7.5
4	160	160/90	160	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM160E4WCM230C	1SCA022846R7440	7.9
					OTM160E4WCM110V	1SCA022846R7360	7.9
					OTM160E4WCM48D	1SCA022846R7280	7.9
					OTM160E4WCM24D	1SCA022846R7100	7.9
3	200	200/110	200	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM200E3CM230C	1SCA022845R8960	6.6
					OTM200E3CM110V	1SCA022845R8880	6.6
					OTM200E3CM48D	1SCA022845R8700	6.6
					OTM200E3CM24D	1SCA022845R8290	6.6
3	200	200/110	200	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM200E3WCM230C	1SCA022846R3960	6.9
					OTM200E3WCM110V	1SCA022846R3880	6.9
					OTM200E3WCM48D	1SCA022846R3700	6.9
					OTM200E3WCM24D	1SCA022846R3610	6.9
4	200	200/110	200	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM200E4CM230C	1SCA022846R1590	7.5
					OTM200E4CM110V	1SCA022846R1410	7.5
					OTM200E4CM48D	1SCA022846R1320	7.5
					OTM200E4CM24D	1SCA022846R1240	7.5
4	200	200/110	200	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM200E4WCM230C	1SCA022846R7870	7.9
					OTM200E4WCM110V	1SCA022846R7790	7.9
					OTM200E4WCM48D	1SCA022846R7610	7.9
					OTM200E4WCM24D	1SCA022846R7520	7.9
3	250	250/140	250	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM250E3CM230C	1SCA022845R9260	6.6
					OTM250E3CM110V	1SCA022845R9180	6.6
					OTM250E3CM48D	1SCA022845R9000	6.6
					OTM250E3CM24D	1SCA022845R8370	6.6
3	250	250/140	250	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM250E3WCM230C	1SCA022846R4770	6.9
					OTM250E3WCM110V	1SCA022846R4690	6.9
					OTM250E3WCM48D	1SCA022846R4510	6.9
					OTM250E3WCM24D	1SCA022846R4420	6.9
4	250	250/140	250	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM250E4CM230C	1SCA022846R1910	7.5
					OTM250E4CM110V	1SCA022846R1830	7.5
					OTM250E4CM48D	1SCA022846R1750	7.5
					OTM250E4CM24D	1SCA022846R1670	7.5
4	250	250/140	250	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM250E4WCM230C	1SCA022846R8250	7.9
					OTM250E4WCM110V	1SCA022846R8170	7.9
					OTM250E4WCM48D	1SCA022846R8090	7.9
					OTM250E4WCM24D	1SCA022846R7950	7.9
3	315	315/160	315	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM315E3CM230C	1SCA022847R1210	11.1
					OTM315E3CM110V	1SCA022847R1120	11.1
					OTM315E3CM48D	1SCA022847R1040	11.1
					OTM315E3CM24D	1SCA022847R0910	11.1
4	315	315/160	315	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM315E4CM230C	1SCA022847R2870	12.5
					OTM315E4CM110V	1SCA022847R2790	12.5
					OTM315E4CM48D	1SCA022847R2610	12.5
					OTM315E4CM24D	1SCA022847R2520	12.5
3	400	400/220	400	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM400E3CM230C	1SCA022847R1630	11.1
					OTM400E3CM110V	1SCA022847R1550	11.1
					OTM400E3CM48D	1SCA022847R1470	11.1
					OTM400E3CM24D	1SCA022847R1390	11.1
4	400	400/220	400	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM400E4CM230C	1SCA022847R3250	12.5
					OTM400E4CM110V	1SCA022847R3170	12.5
					OTM400E4CM48D	1SCA022847R3090	12.5
					OTM400E4CM24D	1SCA022847R2950	12.5



Motorized change-over switches

Ordering information



OTM630...800E3_



OTM630...800E4_



OEM1000...1600K3C



YASDA_



OTV_

Change-over switches, motor operation, I-0-II -operation, open transition

Including a handle for manual operation, bolt kit with nut and washers for all terminals and male connectors for control circuits.

Number of poles	Rated Current AC-21A...AC-22A Up to 415 V I [A]	Rated Current AC-23A Up to 415V I [A]/P[kW]	Rated Current AC-31B...AC-33B Up to 415V I [A]	Motor voltage U _e	Type	Order number	Weight [kg]
3	630	630/355	650/650	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM630E3CM230C OTM630E3CM110V OTM630E3CM48D OTM630E3CM24D	1SCA103567R1001 1SCA022873R1050 1SCA022873R1300 1SCA022873R1210	22 22 22 22
4	630	630/355	650/650	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM630E4CM230C OTM630E4CM110V OTM630E4CM48D OTM630E4CM24D	1SCA022873R1990 1SCA022873R1810 1SCA022873R2110 1SCA022873R2020	25 25 25 25
3	800	800/450	720/650	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM800E3CM230C OTM800E3CM110V OTM800E3CM48D OTM800E3CM24D	1SCA103570R1001 1SCA022872R5750 1SCA022872R6050 1SCA022872R5910	22 22 22 22
4	800	800/450	720/650	220-240 V AC 110-125 V AC/DC 48 V DC 24 V DC	OTM800E4CM230C OTM800E4CM110V OTM800E4CM48D OTM800E4CM24D	1SCA022872R8340 1SCA022872R8260 1SCA022872R8510 1SCA022872R8420	25 25 25 25

Including a metallic I - 0 - II handle, for manual operation and bolt kit with nut and washers for all terminals.

Number of poles	Rated Current AC-21A...AC-22A Up to 415 V I [A]	Rated Power AC-31B...AC-22A V 400V S[kVA]	AC-23A Up to 415V I [A]/P[kW]	Type	Order number	Weight [kg]
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Motor operation, operational voltage Un = 24V AC/DC

3	1000	690	800/400	OEM1000K3C24AC/DC	1SCA022607R5530	46
4	1000	690	800/400	OEM1000K4C24AC/DC	1SCA022607R7910	58
3	1250	860	800/400	OEM1250K3C24AC/DC	1SCA022607R5610	46
4	1250	860	800/400	OEM1250K4C24AC/DC	1SCA022607R7820	58
3	1600	1100	800/400	OEM1600K3C24AC/DC	1SCA022607R5700	48
4	1600	1100	800/400	OEM1600K4C24AC/DC	1SCA022607R7660	60

Motor operation, operational voltage Un = 48V AC/DC

3	1000	690	800/400	OEM1000K3C48AC/DC	1SCA022607R6000	46
4	1000	690	800/400	OEM1000K4C48AC/DC	1SCA022607R9280	58
3	1250	860	800/400	OEM1250K3C48AC/DC	1SCA022607R5960	46
4	1250	860	800/400	OEM1250K4C48AC/DC	1SCA022607R9360	58
3	1600	1100	800/400	OEM1600K3C48AC/DC	1SCA022607R5880	48
4	1600	1100	800/400	OEM1600K4C48AC/DC	1SCA022607R9440	60

Motor operation, operational voltage Un = 230V AC

3	1000	690	800/400	OEM1000K3C230AC	1SCA022607R7310	46
4	1000	690	800/400	OEM1000K4C230AC	1SCA022607R9790	58
3	1250	860	800/400	OEM1250K3C230AC	1SCA022607R7400	46
4	1250	860	800/400	OEM1250K4C230AC	1SCA022607R9610	58
3	1600	1100	800/400	OEM1600K3C230AC	1SCA022607R7580	49
4	1600	1100	800/400	OEM1600K4C230AC	1SCA022607R9520	60

Handle and bolt kits included as standard

Suitable for switches	Handle	Bolt kit
OTM160...250	OTV250ECMK	M8x25
OTM315...400	OTV400ECMK	M10x30
OTM630...800	OTV800ECMK	M12x40
OEM1000...1600	YASDA23/ 3	M12x60



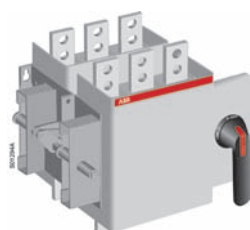
OT200U03CP



OT400U04CP



OT600U03CP



OETL-NFC800-1200



OHB_

Transfer switches, I-O-II -operation, open transition

The transfer switches include a black handle IP65; see the table below, Nema type 1, 3R, 12, a shaft and a bolt set for the cable connection and a set of phase barriers (OT600U_).

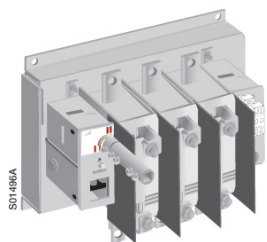
Number of poles	UL98 600 V general use [A]	Rated Current [A]		Type	Order number	Weight [kg]
		IEC60947-3 ≤ 690 V AC-21-23A	IEC60947-6-1 ≤ 415 V AC-31B, AC-33B			
3	200	250	250	OT200U03CP	1SCA022771R5910	3.6
4	200	250	250	OT200U04CP	1SCA022771R6210	4.4
3	400	400	400	OT400U03CP	1SCA022771R2810	6.2
4	400	400	400	OT400U04CP	1SCA022771R2300	8.1
3	600	800	800	OT600U03CP	1SCA022785R5320	17.9
4	600	800	800	OT600U04CP	1SCA022785R5410	21

Number of poles	UL1008 600 V Resistive	Rated Current [A]		Type	Order number	Weight [kg]
		IEC60947-3 ≤ 415 V AC-21-22A	IEC60947-6-1 ≤ 415 V AC-31A			
3	800	1250	1250	OETL-NFC800-P	1SCA022596R1280	38
4	800	1250	1250	OETL-NFC800-4P	1SCA022705R2020	50
3	1200	1600	1600	OETL-NFC1200-P	1SCA022596R1360	40
4	1200	1600	1600	OETL-NFC1200-4P	1SCA022705R2110	52

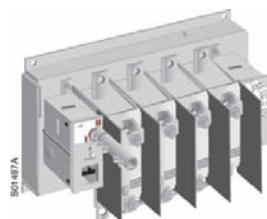
Shafts, handles and bolt kits included as standard

The handles are equipped with door interlock function in both I- and II-position and when padlocked. Padlocking possibility in O-position with 3 padlocks, bail dia Ø 5...10 mm. Indication I-O-II. Nema type 1, 3R, 12

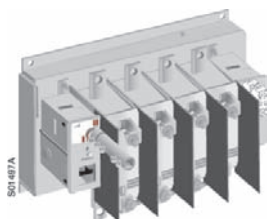
Suitable for switches	Shaft	Handle	Bolt kit
OT200U_	OXp6x161	OHB65J6E011	M8x25
OT400U_	OXp12x166	OHB95J12E011	M10x30
OT600U_	OXp12x185	OHB125J12E011	M12x40
OETL-NFC 800...1200	OXp12x325	OHB175J12E011	M10x50



OESC_K03



OESC_K04



OESC_K04N2

Transfer switches, I-II -operation, closed transition

Make-before-break -operation, operating angle 90 degrees. IEC 60947 rated and UL508 recognized. The switch includes a black handle IP65, see the table below, shaft and bolt set for the cable connection. The bridging bars between the load supplies are also included.

Number of poles	Rated current AC-21A...AC-22A, 400V I/[A]	Type	Order number	Weight [kg]
3	250	OESC250K03	1SCA022700R2270	12.0
4	250	OESC250K04	1SCA022700R2510	14.6
3	500	OESC500K03	1SCA022700R2350	12.0
4	500	OESC500K04	1SCA022700R2600	14.6

Transfer switches, double rated neutral

Number of poles	Rated current AC-21A...AC-22A, 400V I/[A] power poles / neutral pole	Type	Order number	Weight [kg]
4	250 / 400	OESC250K04N2	1SCA022703R9940	15.2
4	400 / 630	OESC400K04N2	1SCA022704R0010	15.2

Shafts and handles included as standard

The handle is equipped with door interlock function in II-position and when padlocked, only in I -position. Padlocking with 3 padlocks, bail dia Ø 5...10 mm. Indication I-II. IP65, Nema type 1, 3R, 12

Suitable for switches	Shaft	Handle	Terminal bolt set
OESC 250...500	OXF12x250	OHB275J12E16	M10x50



OHRS2



OHRS3



OHBS9



OHBS11



OHBS12



OHBS2_



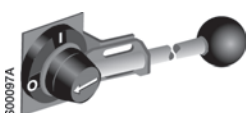
OHY_



OHB_



OHB200_



YASDA_

Handle knobs,

No shaft needed, direct mounting on the top of the switch.

For switches	Colour	Non padlockable	Padlockable in 0-position	Type	Order number	Units/ type	Weight [kg]
OT16...80F_C	Black	x		OHBS2/1	1SCA109090R1001	1	0.01
	Black	x		OHBS2	1SCA109089R1001	10	0.01
	Red	x		OHRS2/1	1SCA108599R1001	1	0.01
	Red	x		OHRS2	1SCA108598R1001	10	0.01
	Black	x		OHBS3/1	1SCA108319R1001	1	0.01
	Black	x		OHBS3	1SCA108320R1001	10	0.01
	Red	x		OHRS3/1	1SCA108688R1001	1	0.01
	Red	x		OHRS3	1SCA108667R1001	10	0.01
OT100...125F_C	Black		x	OHBS12/1	1SCA109094R1001	1	0.01
	Black		x	OHBS12	1SCA108252R1001	10	0.01
	Red		x	OHRS12/1	1SCA109097R1001	1	0.01
	Red		x	OHRS12	1SCA108253R1001	10	0.01
	Black	x		OHBS9/1	1SCA108689R1001	1	0.01
	Black	x		OHBS9	1SCA108665R1001	10	0.01
	Red	x		OHRS9/1	1SCA108690R1001	1	0.01
	Red	x		OHRS9	1SCA108666R1001	10	0.01
	Black		x	OHBS11/1	1SCA109093R1001	1	0.02
	Black		x	OHBS11	1SCA109092R1001	10	0.02

External handles

Selector handle, IP65, Nema type 1, 3R, 12, indication I-O-II. Padlockable in O -position with maximum three padlocks with bail diameter 5...8 mm (two lower holes) and 5...6.3 mm (the upper hole). Door interlock in I- and II-position and when padlocked in O-position.

For switches	Colour	Shaft diameter [mm]	Type	Order number	Weight [kg]
OT16...125F_C	Black	6	OHBS2AJE011	1SCA105220R1001	0.07
OT16...125F_C	Red-yellow	6	OHYS2AJE011	1SCA105301R1001	0.07

Pistol type handle, plastic, IP65, Nema type 1, 3R, 12. Indication I-O-II. Door interlock in I- and II-position and when padlocked. Padlocking possibility with three padlocks, bail dia Ø 5...10 mm.

For switches	Colour	Shaft diameter [mm]	Type	Order number	Weight [kg]
Padlockable in all positions					
OT16...125F_C	Black	6	OHB45J6E311	1SCA022817R2130	0.10
	Red-yellow	6	OHY45J6E311	1SCA022817R2300	0.1
OT160...250E_C	Black	6	OHB65J6E311	1SCA022662R4730	0.12
OT315...400E_C	Black	12	OHB95J12E311	1SCA022779R2140	0.12
OT630...800E_C	Black	12	OHB125J12E311	1SCA022615R1730	0.14
OT1000...2500E_C	Black	12	OHB200J12PE311	1SCA104685R1001	0.40
OETL-NFC800...1200	Black	12	OHB175J12E311	1SCA022615R1810	0.17
Padlockable in the 0-position					
OT16...125F_C	Black	6	OHB45J6E011	1SCA022594R7110	0.10
	Red/yellow	6	OHY45J6E011	1SCA022817R2210	0.10
OT160...250E_C	Black	6	OHB65J6E011	1SCA022383R2480	0.12
	Red/yellow	6	OHY65J6E011	1SCA022779R1840	0.12
OT315...400E_C	Black	12	OHB95J12E011	1SCA022621R0760	0.12
	Red/yellow	12	OHY95J12E011	1SCA022621R0920	0.12
OT630...800E_C	Black	12	OHB125J12E011	1SCA022589R3340	0.14
	Red/yellow	12	OHY125J12E011	1SCA022615R1650	0.14
OT1000...2500E_C	Black	12	OHB200J12PE011	1SCA022873R4230	0.40
	Red/yellow	12	OHY200J12PE011	1SCA104686R1001	0.40
OETL-NFC 800...1200	Black	12	OHB175J12E011	1SCA022459R9700	0.17
	Red/yellow	12	OHY175J12E011	1SCA022461R1920	0.17

Metallic handles, IP65, Nema types 1, 3R, 4, 4X, 12. Indication I - 0 - II. Padlockable with 3 padlocks in OFF- position, door interlock in I- and II- position.

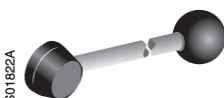
Handle length [mm]	Colour	Shaft diam. [mm]	Type	Order number	Weight [kg]
220	Metal	12	YASDA21	1SCA022098R9420	0.68
320	Metal	12	YASDA6	1SCA022071R2890	0.80



OHB_



OTV_



YASDA_

Pistol handles, indication I - II

Plastic IP65, handles are equipped with door interlock function in II-position and when padlocked, only in I -position. Padlocking with 3 padlocks, bail dia Ø 5...10 mm.

For switches	Colour	Type	Order number	Weight [kg]
Padlocking possibility in I-position				
OESC 250...500	Black	OHB175J12E16	1SCA022692R2080	0.17
	Black	OHB275J12E16	1SCA022690R0350	0.17

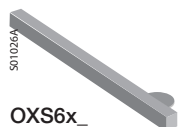
Handles, direct mounting

Plastic I - 0 - II handle, padlockable with three padlocks in 0-position. Includes a shaft and a mechanism cover. Types -ECMK include also microswitches.

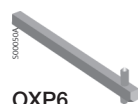
4 mechanism cover type. 2mm module also microswitches.					
For switches		Colour	Type	Order number	Weight [kg]
OT160...250E_C	Black	Shaft incl.	OTV250ECK	1SCA022783R0090	0.08
OT315...400E_C	Black	Shaft incl.	OTV400ECK	1SCA022783R0170	0.26
OT630...800E_C	Black	Shaft incl.	OTV800ECK	1SCA022797R2470	0.30
OT1000...2500E_C	Black	Shaft incl.	OTV1000ECK	1SCA107481R1001	0.75
OTM160...250E_C	Black	Shaft incl.	OTV250ECMK	1SCA022804R0570	0.10
OTM315...400E_C	Black	Shaft incl.	OTV400ECMK	1SCA022843R2900	0.28
OTM630...800E_C	Black	Shaft incl.	OTV800ECMK	1SCA022804R3410	0.32

Handles, OEM

For switches	Colour	Type	Order number	Weight [kg]
OEM1000...1600		YASDA23/3	1SCA022689R6810	0.43



OXS6x_



OXP6_



OXP12_

Shafts for selector type handles

Suitable for switches	Installation depth [mm]	Length [mm]	Type	Order number	Weight [kg]
Shaft diameter 6 mm					
OT16...40	103...114	85	OXS6x85	1SCA101647R1001	0.03
	123...134	105	OXS6x105	1SCA108043R1001	0.03
	138...149	120	OXS6x120	1SCA101654R1001	0.04
	148...159	130	OXS6x130	1SCA101655R1001	0.04
OT63...80	121...131	85	OXS6x85	1SCA101647R1001	0.03
	141...151	105	OXS6x105	1SCA108043R1001	0.03
	156...166	120	OXS6x120	1SCA101654R1001	0.04
	166...176	130	OXS6x130	1SCA101655R1001	0.04
OT 100...125	120...130	85	OXS6x85	1SCA101647R1001	0.03
	140...150	105	OXS6x105	1SCA108043R1001	0.03
	155...165	120	OXS6x120	1SCA101654R1001	0.04
	165...175	130	OXS6x130	1SCA101655R1001	0.04

Shafts for pistol type handles

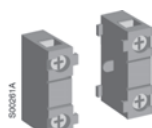
Suitable for switches	Installation depth [mm]	Length [mm]	Type	Order number	Weight [kg]
Shaft diameter 6 mm					
OT16...40	164...175	150	OXP6x150	1SCA022295R5600	0.05
	184...195	170	OXP6x170	1SCA108224R1001	0.05
	279...290	265	OXP6x265	1SCA108225R1001	0.08
	414...425	400	OXP6x400	1SCA108226R1001	0.12
OT63...80	183...194	150	OXP6x150	1SCA022295R5600	0.05
	203...214	170	OXP6x170	1SCA108224R1001	0.05
	298...309	265	OXP6x265	1SCA108225R1001	0.08
	433...444	400	OXP6x400	1SCA108226R1001	0.12
OT100...125	192...206	150	OXP6x150	1SCA022295R5600	0.05
	212...226	170	OXP6x170	1SCA108224R1001	0.05
	307...321	265	OXP6x265	1SCA108225R1001	0.08
	442...456	400	OXP6x400	1SCA108226R1001	0.12
Shaft diameter 6 mm					
OT160...250E_C	166...214	90	OXP6X90	1SCA022064R1180	0.03
	209...254	130	OXP6X130	1SCA022057R0570	0.04
	240...285	161	OXP6X161	1SCA022067R1760	0.05
	289...334	210	OXP6X210	1SCA022295R6080	0.06
	369...414	290	OXP6X290	1SCA022042R6370	0.08
	439...484	360	OXP6X360	1SCA022042R6530	0.11
Shaft diameter 12 mm					
OT315...400E_C	209...266	107	OXP12X107	1SCA022029R9750	0.12
	243...307	148	OXP12X148	1SCA022658R5570	0.17
	261...325	166	OXP12X166	1SCA022325R7100	0.20
	280...344	185	OXP12X185	1SCA022325R6710	0.22
	345...409	250	OXP12X250	1SCA022325R6980	0.29
	375...439	280	OXP12X280	1SCA022137R5140	0.33
	420...484	325	OXP12X325	1SCA022042R5810	0.38
	490...554	395	OXP12X395	1SCA022042R5990	0.46
	560...624	465	OXP12X465	1SCA022042R6020	0.54
	287...355	148	OXP12X148	1SCA022658R5570	0.17
	324...422	185	OXP12X185	1SCA022325R6710	0.22
OT630...800E_C	389...487	250	OXP12X250	1SCA022137R5140	0.29
	464...562	325	OXP12X325	1SCA022042R5810	0.38
	534...632	395	OXP12X395	1SCA022042R5990	0.46
	604...702	465	OXP12X465	1SCA022042R6020	0.54
	339...425	166	OXP12X166	1SCA022325R7100	0.20
OT1000...2500E_C	423...509	250	OXP12X250	1SCA022137R5140	0.29
	498...584	325	OXP12X325	1SCA022042R5810	0.38
	568...654	395	OXP12X395	1SCA022042R5990	0.46
	638...724	465	OXP12X465	1SCA022042R6020	0.54
	574...647	395	OXP12x395	1SCA022042R5990	0.45
OETL-NFC800...1200	644...717	465	OXP12x465	1SCA022042R6020	0.53
OESC 250...500		395	OXP12x395	1SCA022042R5990	0.45
		465	OXP12x465	1SCA022042R6020	0.53



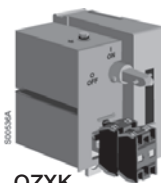
OA_G_



OA2G11



OA1G01 OA1G10
OA7G10 OA8G01



OZ XK_

Auxiliary contacts

Snap-on mounting to the switch, IP 20, max. 2 blocks/ side.

I_{th} = 16 A, suitable for cable cross sections max. 2 x 2,5 mm². See the contact functions, pages 31 - 33.

Suitable for switches	Contact functions	Installation side	Type	Order number	Weight [kg]
OT16...125F_C	1NO	Right	OA1G10	1SCA022353R4970	0.03
	1NC	Right	OA8G01	1SCA022744R2240	0.03
	1NO	Left	OA7G10	1SCA022673R1140	0.03
	1NC	Left	OA1G01	1SCA022353R4890	0.03
OT63...125F3C	1NO+1NC	Either	OA2G11	1SCA022379R8010	0.03

Mounting on the right side of the switch: Max. 4 auxiliary contact blocks/switch (totally 8 blocks). Simultaneous action with the main contacts, IP20.

Suitable for switches	Contact function	Type	Order number	Weight [kg]
OT_160...2500E_C	1NO	OA1G10	1SCA022353R4970	0.03
	1NC	OA3G01	1SCA022456R7410	0.03

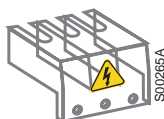
Mounting locations, see dimension drawings. See the contact functions, pages 31 - 33.

Wire cross section 0.5 mm²...2 x 2.5 mm². Thermal current I_{th} = 10 A. Protection degree IP 20.

OETL-NFC800...1200	1NO+1NC	OZ XK1	1SCA022131R8690	0.09
OETL-NFC800...1200	2NO+2NC	OZ XK2	1SCA022131R8850	0.12
OEM1000...1600	1NO+1NC	OZ XK1	1SCA022131R8690	0.09
OEM1000...1600	2NO+2NC	OZ XK2	1SCA022131R8850	0.12
OESC 250...500	1NO+1NC	OZ XK1	1SCA022131R8690	0.09
OESC 250...500	2NO+2NC	OZ XK2	1SCA022131R8850	0.12
OESC 250...500	2NO+2NC	OZ XK4	1SCA022131R9230	0.09
OESC 250...500	4NO	OZ XK5	1SCA022131R9400	0.12



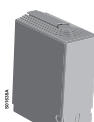
OTPS



OTS_T3



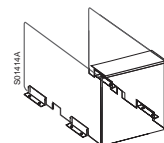
OTS_T1



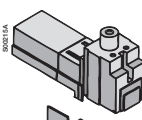
OTS_L



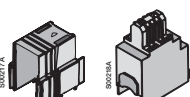
OTS_S



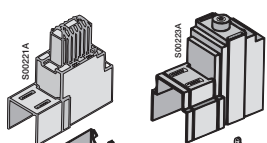
OETLZXC 19...22



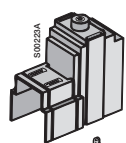
OZXB2K



OZXB3K



OZXB4K



OZXB5K

4th poles

Snap-on mounting to the left or right side of the switches, IP20. Simultaneous operation with power poles.

Suitable for switches	Rated current / up to 415V AC-21A / AC-22A I[A]	AC-23A I[A]	Type	Order number	Weight [kg]
OT16...40	40	23	OTPS40FPN1 ¹⁾	1SCA105001R1001	0.03
OT16...40	40	23	OTPS40FPN2 ²⁾	1SCA105000R1001	0.03
OT63...80	80	75	OTPS80FP	1SCA105461R1001	0.06
OT100...125	125	90	OTPS125FP	1SCA105099R1001	0.14

¹⁾ Installation to the left side

²⁾ Installation to the right side

Terminal shrouds

Transparent plastic, snap-on mounting to the switches, IP20. The full shrouding of a 3-pole change-over switch is achieved with four 3-pole shrouds.

Suitable for switches	Type	Order number	Weight [kg]
For three pole switches			
OT16...40	OTS40T3	1SCA105317R1001	0.01
OT63...80	OTS63T3	1SCA022353R6750	0.01
OT100...125	OTS125T3	1SCA022379R9680	0.01
For fourth pole			
OTPS40FPN1	OTS40T1	1SCA105314R1001	0.01
OTPS40FPN2	OTS40T1	1SCA105314R1001	
OTPS80FP	OTS63T1	1SCA022353R6910	
OTPS125FP	OTS125T1	1SCA022379R9760	

Suitable for switches	Number of poles	Description	Type	Order number	Weight [kg]
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Snap-on mounting, grey plastic

A kit includes three (four) shrouds which can be used on either side of the switch. Suitable for the upper switch. Transparent shrouds for OT_160...2500 available on request, please replace the letter "G" with "T".

OT160...250E_C	3	Long type	OTS250G1L/3	1SCA022731R8150	0.09
	3	Short type	OTS250G1S/3	1SCA022731R8310	0.06
OT160...250E_C	4	Long type	OTS250G1L/4	1SCA022731R8230	0.12
	4	Short type	OTS250G1S/4	1SCA022731R8400	0.08
OT315...400E_C	3	Long type	OTS400G1L/3	1SCA022736R8840	0.15
	3	Short type	OTS400G1S/3	1SCA022736R9060	0.09
OT315...400E_C	4	Long type	OTS400G1L/4	1SCA022736R9490	0.20
	4	Short type	OTS400G1S/4	1SCA022736R9650	0.12
OT_600...800E_C	3	Long type	OTS800G1L/3	1SCA022776R7890	0.32
	3	Short type	OTS800G1S/3	1SCA022776R8190	0.17
OT_600...800E_C	4	Long type	OTS800G1L/4	1SCA022776R7970	0.42
	4	Short type	OTS800G1S/4	1SCA022776R8270	0.26
OT1000...1600E_C	3	Long type	OTS1600G1L/3	1SCA022871R9510	0.64
	3	Short type	OTS1600G1S/3	1SCA022871R9600	0.37
OT1000...1600E_C	4	Long type	OTS1600G1L/4	1SCA022871R9780	0.85
	4	Short type	OTS1600G1S/4	1SCA022871R9860	0.49
OT2000...2500E_C	3	Long type	OTS2500G1L/3	1SCA107261R1001	0.77
	3	Short type	OTS2500G1S/3	1SCA107260R1001	0.47
OT2000...2500E_C	4	Long type	OTS2500G1L/4	1SCA107262R1001	1.0
	4	Short type	OTS2500G1S/4	1SCA107271R1001	0.61

Screw mounting, transparent plastic

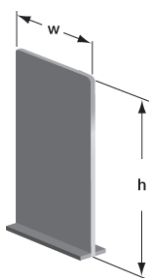
OETL-NFC800...1200	3		OETLZXC21	1SCA022658R9720	0.45
	4		OETLZXC22	1SCA022658R9810	0.55
OEM1000-1250	3		OETLZXC19	1SCA022658R9560	0.45
	4		OETLZXC20	1SCA022658R9640	0.55
OEM1600	3		OETLZXC21	1SCA022658R9720	0.45
	4		OETLZXC22	1SCA022658R9810	0.55

Snap-on mounting to the terminal clamps, transparent plastic, IP 2X.

Suitable for terminal clamps	Number of poles	Type	Order number	Weight [kg]
OZXB2, 2L	3	OZXB2K	1SCA022264R0010	0.05
OZXB3, 4	3	OZXB3K	1SCA022264R0440	0.20
OZXB5, 6	3	OZXB4K	1SCA022199R2850	0.24
OZXB7, 7L	3	OZXB5K	1SCA022283R8040	0.13



OTB_



PB_

Phase separators

Grey plastic plate for maintaining clearance between the phases without terminal shrouds. Snap-on mounting. The package includes 12 plates and 6 filling plates.

Suitable for switches	Type	Order number	Weight [kg]
OT600U, OT630...800E, 3- and 4-pole	OTB800/6C	1SCA107272R1001	0.55
OT1000...2500, 3- and 4-pole	OTB1600/6C	1SCA104661R1001	0.74

Phase barriers

The phase barriers designed for ABB Tmax T4-T5 MCCB's can also be used for OT_160...800 change-over switches.

3-pole change-overs need 8 barriers and 4-pole change-overs need 12 barriers for full protection.

Suitable for switches	Number of poles	Height h [mm]	Cutting width w of the phase barrier [mm]	Type	Order number	Units/ type [pcs]
OT160... ...250E_C	3	100	55	PB100 low	1SDA054970R1	4
	3	200	55	PB200 high	1SDA054972R1	4
	4	100	55	PB100 low	1SDA054971R1	6
	4	200	55	PB200 high	1SDA054973R1	6
OT315... ...400E_C	3	100	67	PB100 low	1SDA054970R1	4
	3	200	67	PB200 high	1SDA054972R1	4
	4	100	67	PB100 low	1SDA054971R1	6
	4	200	67	PB200 high	1SDA054973R1	6
OT600... ...800E_C	3	100	90	PB100 low	1SDA054970R1	4
	3	200	90	PB200 high	1SDA054972R1	4
	4	100	90	PB100 low	1SDA054971R1	6
	4	200	90	PB200 high	1SDA054973R1	6



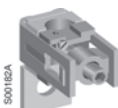
OZXB 1L



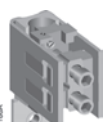
OZXB 2



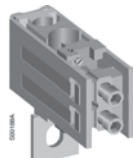
OZXB 8, 9



OZXB 2L, 7L



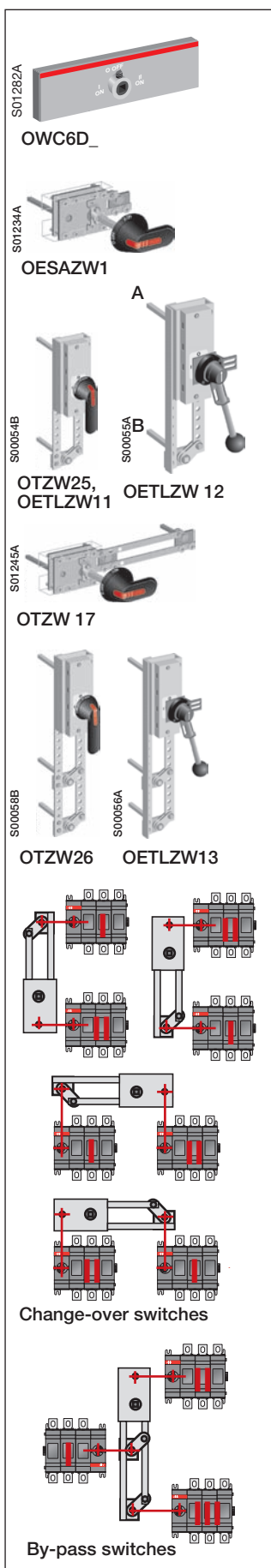
OZXB 3



OZXB 4

Terminal clamp sets

Suitable for switches	Cable cross section [mm²]	Suitable shroud	Type	Order number	Package [pcs]	Weight [kg]
Parallel connection terminal						
OT100...125	2xAl/Cu 6...50		OZXT3	1SCA022639R0720	3	0.21
Terminal clamp sets for Al- and Cu-cables						
OT160...250E_C	10...70	OTS250_L	OZXB1L	1SCA022169R2030	3	0.15
	10...70	OTS250_L	OZXB1L/1	1SCA022194R0030	1	0.05
	25...120	OZXB2K	OZXB2	1SCA022119R7610	3	0.34
	25...120	OZXB2K	OZXB2/1	1SCA022194R0200	1	0.12
	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.43
	25...120	OZXB2K	OZXB2L/1	1SCA022194R0460	1	0.15
	95...185	OTS250_L	OZXB8	1SCA022744R1510	3	0.50
	95...185	OTS250_L	OZXB8/1	1SCA022744R1600	1	0.15
	95...240	OTS250_L	OZXB9	1SCA022750R3210	3	0.50
	95...240	OTS250_L	OZXB9/1	1SCA022750R3300	1	0.15
OT315...400E_C	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.43
	25...120	OZXB2K	OZXB2L/1	1SCA022194R0460	1	0.15
	95...185	OZXB3K	OZXB3	1SCA022136R8100	3	1.28
	95...185	OZXB3K	OZXB3/1	1SCA022194R0620	1	0.43
	2x(95...185)	OZXB3K	OZXB4	1SCA022137R4760	3	1.71
	2x(95...185)	OZXB3K	OZXB4/1	1SCA022194R0890	1	0.57
	120...240	OZXB5K	OZXB7	1SCA022185R0040	3	1.00
	120...240	OZXB5K	OZXB7/1	1SCA022194R1430	1	0.34
	120...240	OZXB5K	OZXB7L	1SCA022185R7130	3	1.17
	120...240	OZXB5K	OZXB7L/1	1SCA022194R1600	1	0.40
	95...185	OTS400_L	OZXB8	1SCA022744R1510	3	0.50
	95...185	OTS400_L	OZXB8/1	1SCA022744R1600	1	0.15
	95...240	OTS400_L	OZXB9	1SCA022750R3210	3	0.50
	95...240	OTS400_L	OZXB9/1	1SCA022750R3300	1	0.15
OT630...800E_C	120...300	OZXB4K	OZXB5	1SCA022137R2470	3	2.28
	120...300	OZXB4K	OZXB5/1	1SCA022194R1010	1	0.76
	2x(120...300)	OZXB4K	OZXB6	1SCA022137R4920	3	3.12
	2x(120...300)	OZXB4K	OZXB6/1	1SCA022194R1270	1	1.04
OT1000...1600E_C	95...185	OTS1600_L	OZXB3	1SCA022136R8100	3	1.28
	95...185	OTS1600_L	OZXB3/1	1SCA022194R0620	1	0.13
	2x(95...185)	OTS1600_L	OZXB4	1SCA022137R4760	3	1.71
	2x(95...185)	OTS1600_L	OZXB4/1	1SCA022194R0890	1	0.60
	120...300	OTS1600_L	OZXB5	1SCA022137R2470	3	2.22
	120...300	OTS1600_L	OZXB5/1	1SCA022194R1010	1	0.80
	2x(120...300)	OTS1600_L	OZXB6	1SCA022137R4920	3	3.03
	2x(120...300)	OTS1600_L	OZXB6/1	1SCA022194R1270	1	1.00
	120...240	OTS1600_L	OZXB7L	1SCA022185R7130	3	1.20
	120...240	OTS1600_L	OZXB7L/1	1SCA022194R1600	1	0.39
OEM1000...1600	70...185 Al/Cu		OZXB3	1SCA022136R8100	3	1.28
			OZXB3/1	1SCA022194R0620	1	0.43
	2x(70...185) Al/Cu		OZXB4	1SCA022137R4760	3	1.71
			OZXB4/1	1SCA022194R0890	1	0.57
OEM1000...1600	120...300 Al/Cu		OZXB5	1SCA022137R2470	3	2.28
			OZXB5/1	1SCA022194R1010	1	0.76
OEM1000...1600	2x(120...300) Al/Cu		OZXB6	1SCA022137R4920	3	3.12
			OZXB6/1	1SCA022194R1270	1	1.04



Change-over kits

The modular change-over switches can be built up by adding a compact snap-on kit on the top of two switch-disconnectors. The kits do not require any additional foot print area, only the height is increased 12 mm.

For switches	For shafts	Type	Order number	Weight [kg]
OT16...40	OXS6_, OXP6_	OWC6D40	1SCA022865R4550	0.03
OT63...80	OXS6_, OXP6_	OWC6D80	1SCA022865R4630	0.07
OT100...125	OXS6_, OXP6_	OWC6D125	1SCA104494R1001	0.09

Two standard switch-disconnectors can be connected with a mechanism operating into I-O-II positions. Two 3 or 4-pole switches are needed.

Suitable for switches	Shafts distance [mm]	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
OT16 - 125	90+(0 - 10)x15	OESAZW1	1SCA022064R3710	1	0.78
OT160 - 250	210+(0 - 18)x20	OTZW25	1SCA022778R6920	1	2.8
OT315 - 800	210+(0 - 11)x20	OETLZW11	1SCA022078R0030	1	3.0
OETL _ NF800 - 1200	210+(0 - 20)x20	OETLZW12	1SCA022078R9200	1	4.6

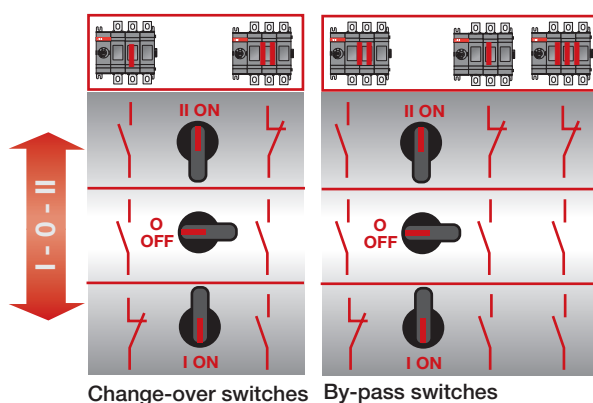
By-pass kits

A combination of two switches in parallel with a third switch for change-over operation to by-pass , for example, a breaker for maintenance. The by-pass attachment can be used together with another combination attachment. Three 3 or 4-pole switches needed.

OT 16 - 125	Between 1 and 2: 90+(0 - 6)x15 Between 1 and 3: 90+(0 - 10)x15	OTZW17	1SCA022387R1620	1	0.88
OT160 - 250	Between 1 and 2: 210+(0 - 9)x20 Between 1 and 3: 250+(0 - 9)x20	OTZW26	1SCA022778R7060	1	3.3
OT315 - 800	Between 1 and 2: 210+(0 - 18)x20 Between 1 and 3: 250+(0 - 18)x20	OETLZW13	1SCA022078R0460	1	4.0

Shafts and handles for conversion kits

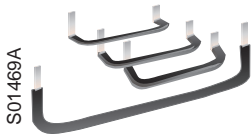
Conversion kit type	Included in conversion kit delivery	
	Shaft	Handle
OESAZW1	x (2 pcs)	OHB80J6E011
OTZW25	x (2 pcs)	OHB95J12E011
OETLZW11	x (2 pcs)	OHB145J12E011
OETLZW12	x (2 pcs)	YASDA21 (metallic)
OTZW17	x (3 pcs)	OHB80J6E011
OTZW26	x (3 pcs)	OHB95J12E011
OETLZW13	x (3 pcs)	YASDA 6



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.

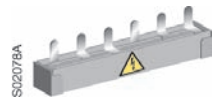
For switches	Max. cable size [mm²]	Type	Order number	Weight [kg]
OT16...40F3C	6 (fine stranded), 10 (stranded)	OZXA33	1SCA022685R0310	0.02
OT16...40F4C	6 (fine stranded), 10 (stranded)	OZXA32	1SCA022683R4110	0.03
OT63...80F3C	25	OZXA38	1SCA022785R2140	0.06
OT63...80F4C	25	OZXA39	1SCA022790R3820	0.09
OT100...125F3C	50	OZXA40	1SCA022790R3910	0.16
OT100...125F4C	50	OZXA41	1SCA022790R4040	0.24



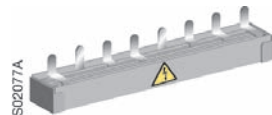
OZXA 32



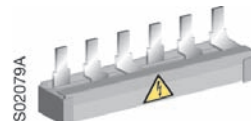
OZXA 33



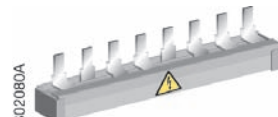
OZXA 38



OZXA 39



OZXA 40



OZXA 41



OTZC13...34



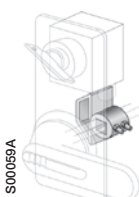
OTZC43...44
OTZC53...54



OETLZXC7...10



OTZR_



OETLZW_



OETLZWC 1

Bridging bars

The bridging bars provide a connection link either on the incoming or outgoing side of the switch.

For switches	Number of poles	Type	Order number	Weight [kg]
OT_160...250E_C	3	OTZC13	1SCA022767R6910	0.6
	4	OTZC14	1SCA022767R7040	0.8
OT_315...400E_C	3	OTZC23	1SCA022767R7120	0.6
	4	OTZC24	1SCA022767R7210	0.8
OT_600...800E_C	3	OTZC33	1SCA022785R7020	1.0
	4	OTZC34	1SCA022785R7110	1.3
OT1000...1250E_C	3	OTZC43	1SCA022868R0710	4.2
	4	OTZC44	1SCA022868R0800	5.6
OT1600E_C	3	OTZC53	1SCA022868R0980	5.6
	4	OTZC54	1SCA022868R1010	7.4
OT2000...2500E_C	3	OTZC63	1SCA022868R1100	10.8
	4	OTZC64	1SCA022868R1360	14.5
OEM1000...1250	3	OETLZXC7	1SCA022608R1000	5.4
	4	OETLZXC8	1SCA022608R1180	7.2
OEM1600	3	OETLZXC9	1SCA022608R1260	7.5
	4	OETLZXC10	1SCA022608R1340	10.0

Reversing bars

A reversing switch can be built up by using phase sequence bars in two phases.

The kit includes two phase sequence conversion bars.

The missing bridging bars must be ordered separately.

For example 3-pole switches: one 4-pole standard bridging bar kit is required (one bar for the reversing side, three bars for the other side).

Suitable for switches	Type	Order number	Weight [kg]
OT_160...250E_C	OTZR1	1SCA100352R1001	0.3
OT_315...400E_C	OTZR2	1SCA104647R1001	0.3
OT_600...800E_C	OTZR3	1SCA100355R1001	0.4

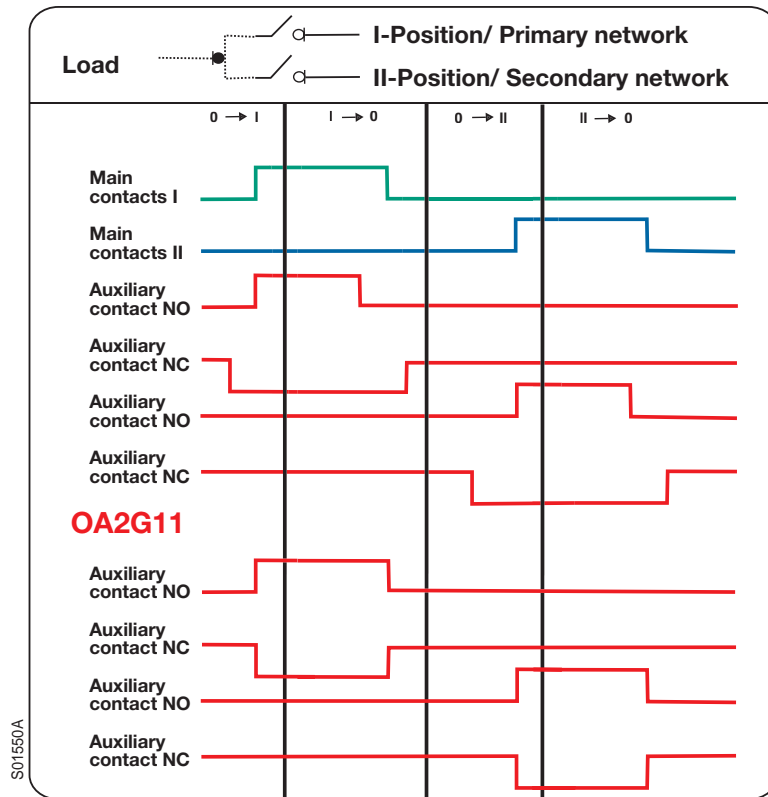
Interlocking device for locks

Cam attachment for Castell, Lowe & Fletcher or Ronis interlock. Lock, handle or shaft not included.

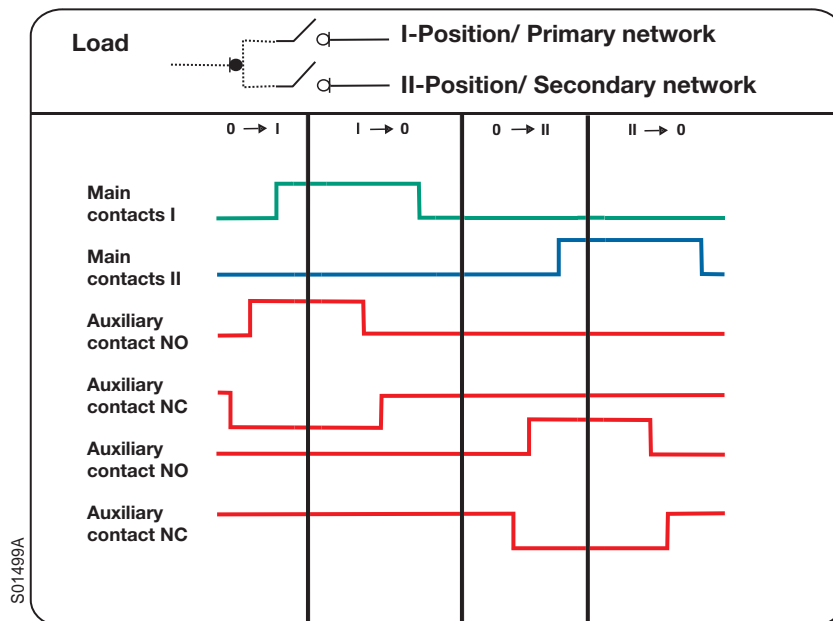
Mounting to OXP-shaft, works together with OH-door handle and a shaft. This accessory is mounted to the operating shaft of the switch and therefore only compatible with external handles.

OT16...125F_C	OETLZW16	1SCA022093R2070	0.17
OT160...250E_C	OETLZW16	1SCA022093R2070	0.17
OT315...2500E_C	OETLZW5	1SCA022052R3900	0.14
Direct mounting to the switch with OH-handle.			
OETL-NFC800...1200	OETLZWC1	1SCA022608R1420	1.1

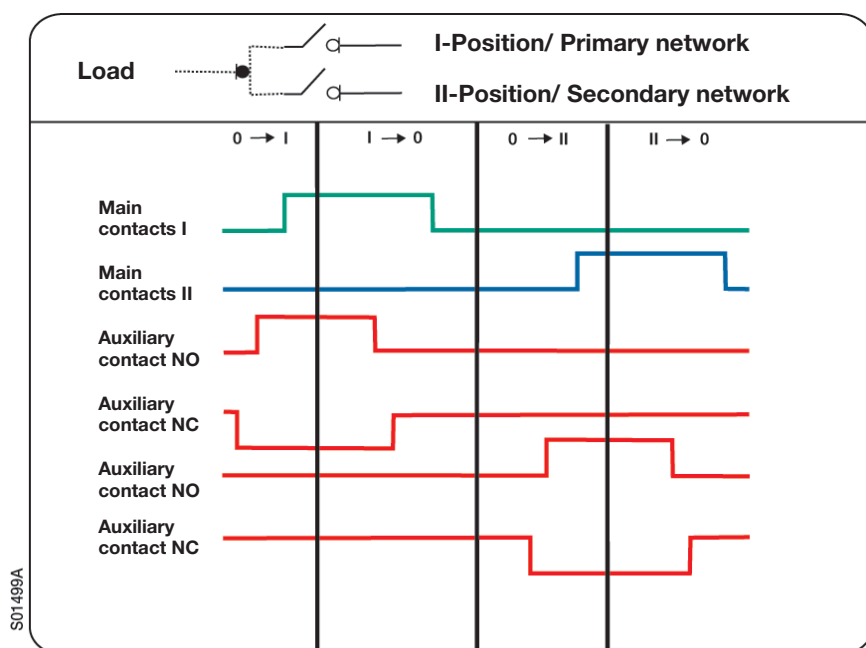
Contact functions for OT16...125



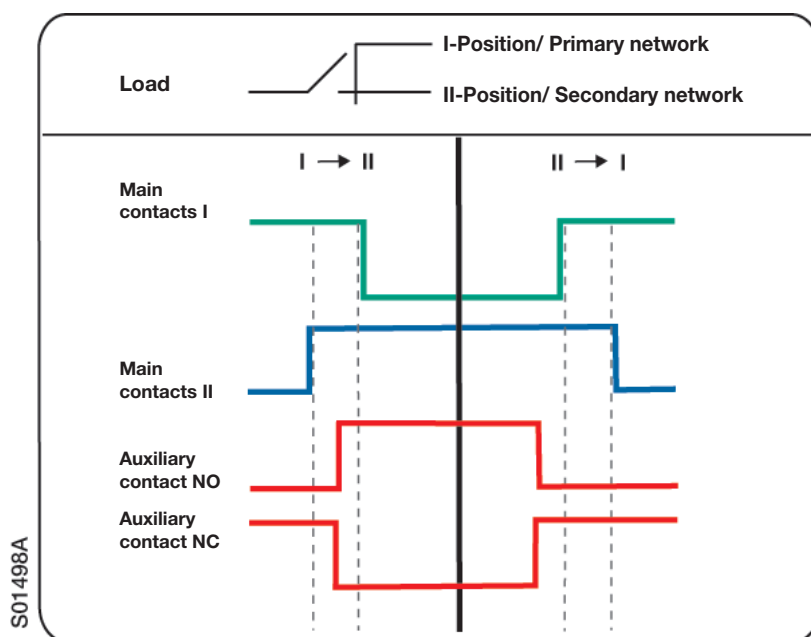
Contact functions for OEM1000...1600



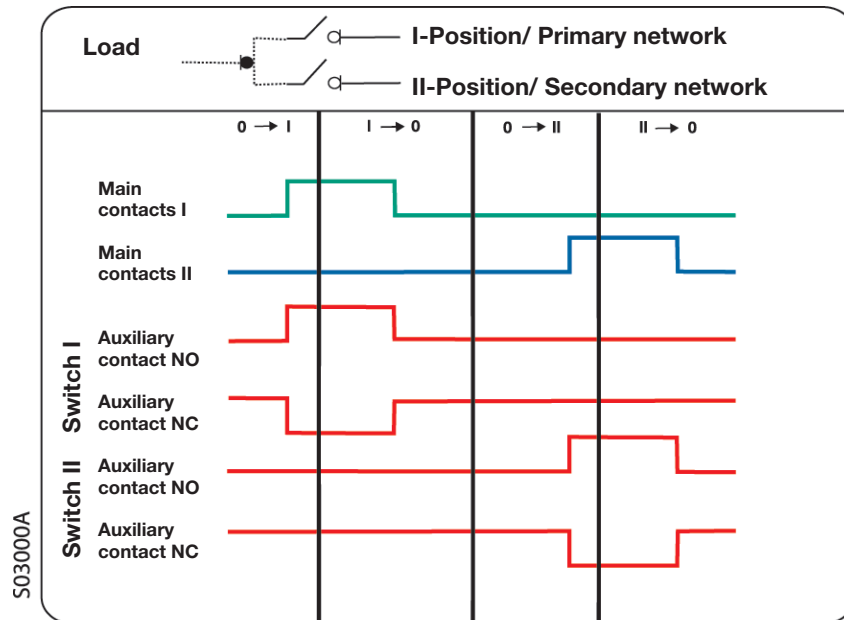
Contact functions for OETL-NFC800...1200



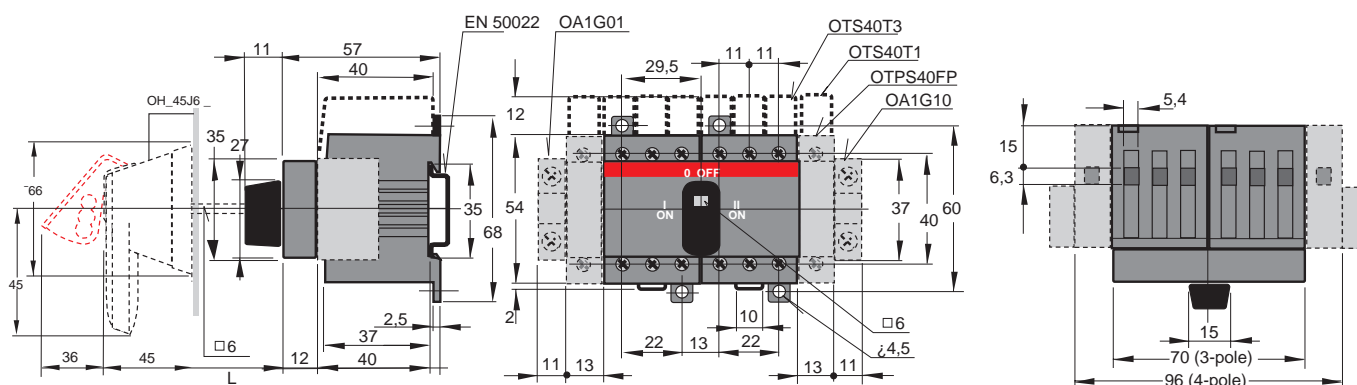
Contact functions for OESC250...500



Contact functions for OT_160...2500

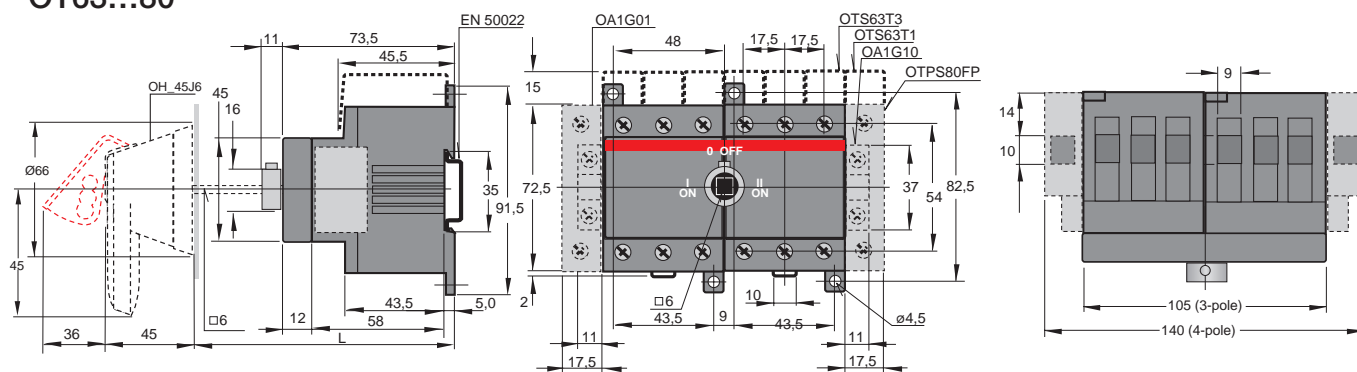


OT16...40



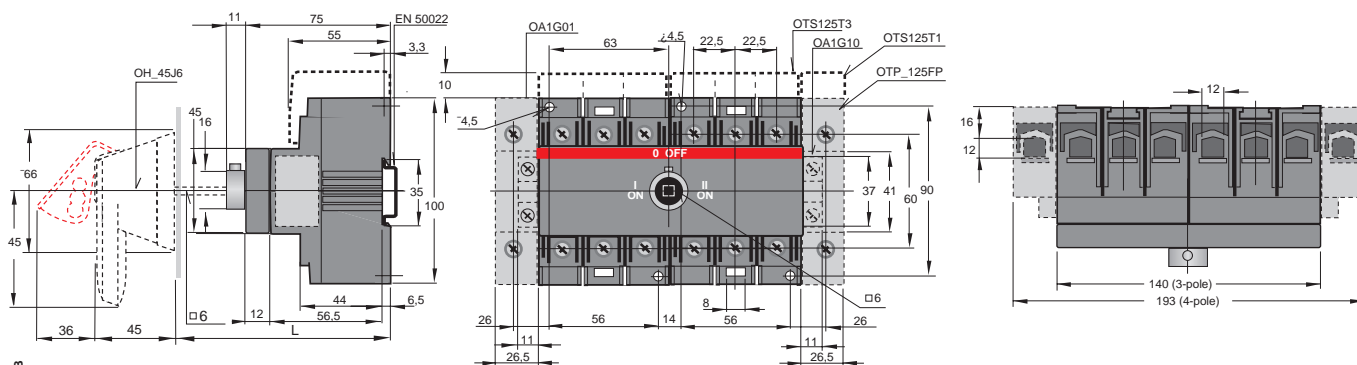
OH_45J6E311	
Shaft OXP6x	L
150	164...175
170	184...195
265	279...290
400	414...425

OT63...80



OH_45J6E311	
Shaft OXP6x	L
150	183...194
170	203...214
265	298...309
400	433...444

OT100...125

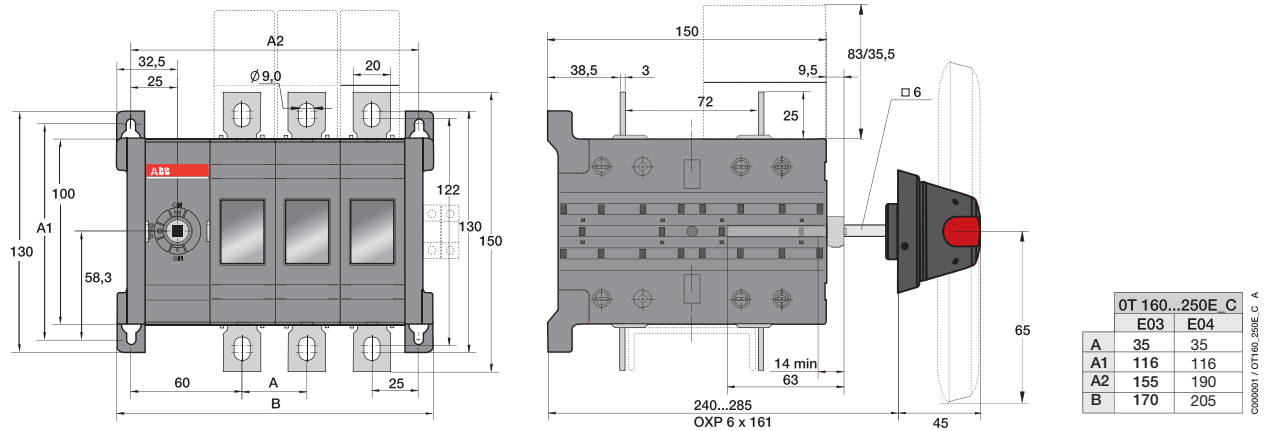


OH_45J6E311	
Shaft OXP6x	L
150	192...206
170	212...226
265	307...321
400	442...456

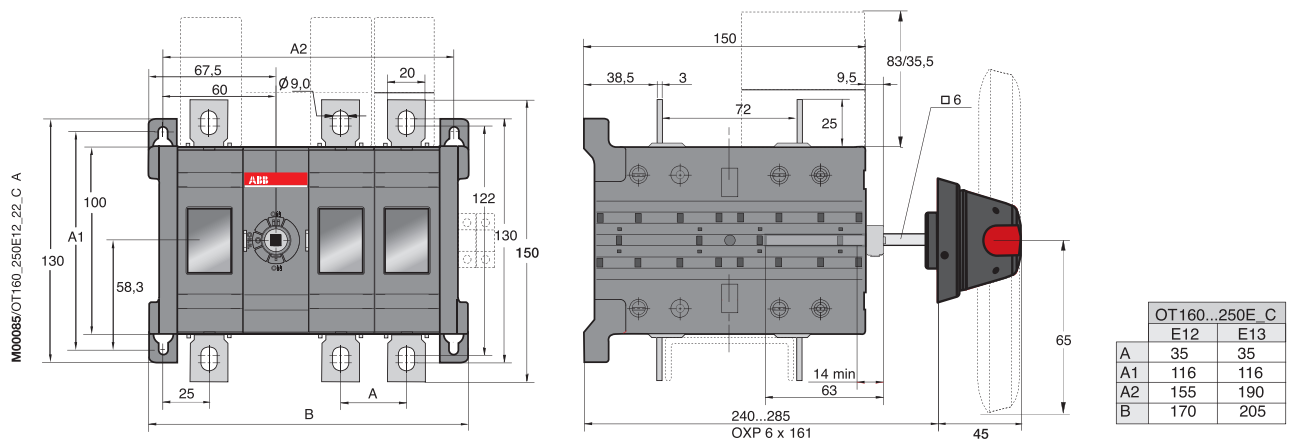


Change-over switches Dimension drawings

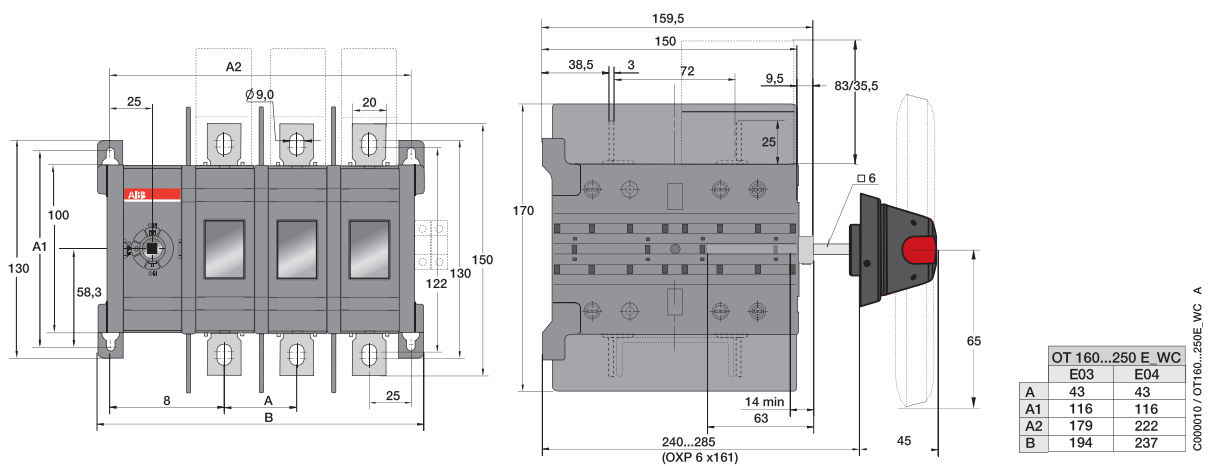
OT160E03/04CP...OT250E03/04CP



OT160E12/13CP...OT250E12/13CP



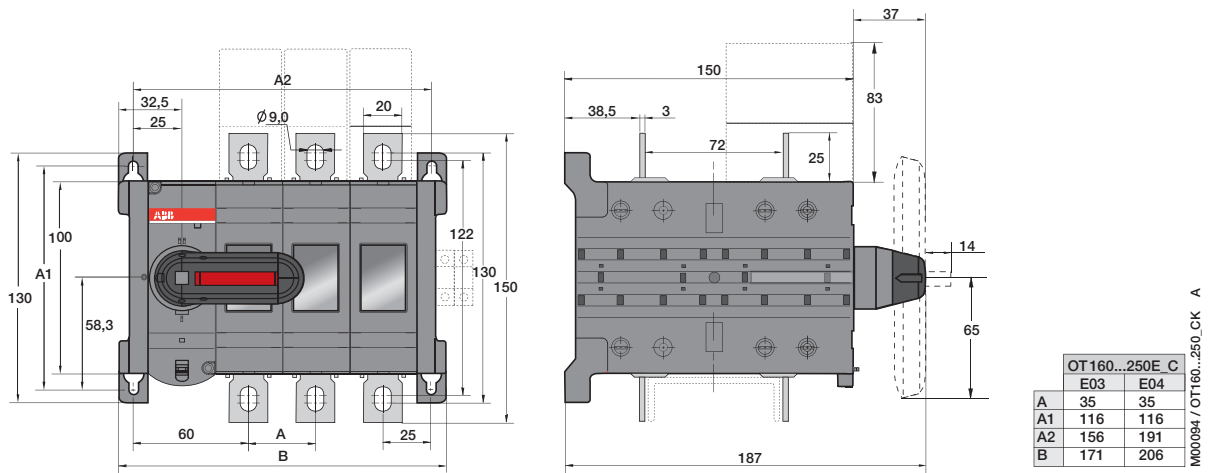
OT160E03/04WCP...OT250E03/04WCP



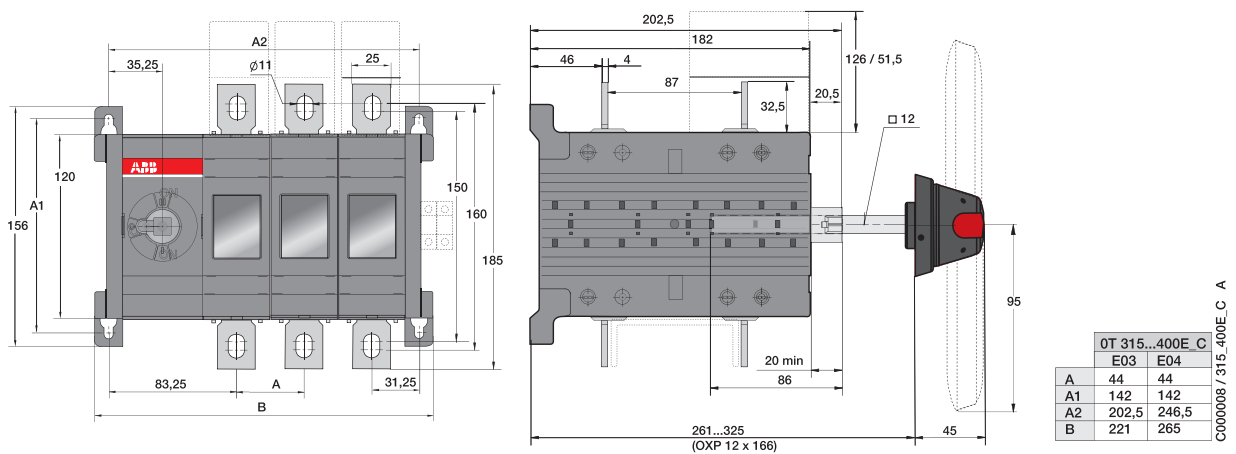


Change-over switches Dimension drawings

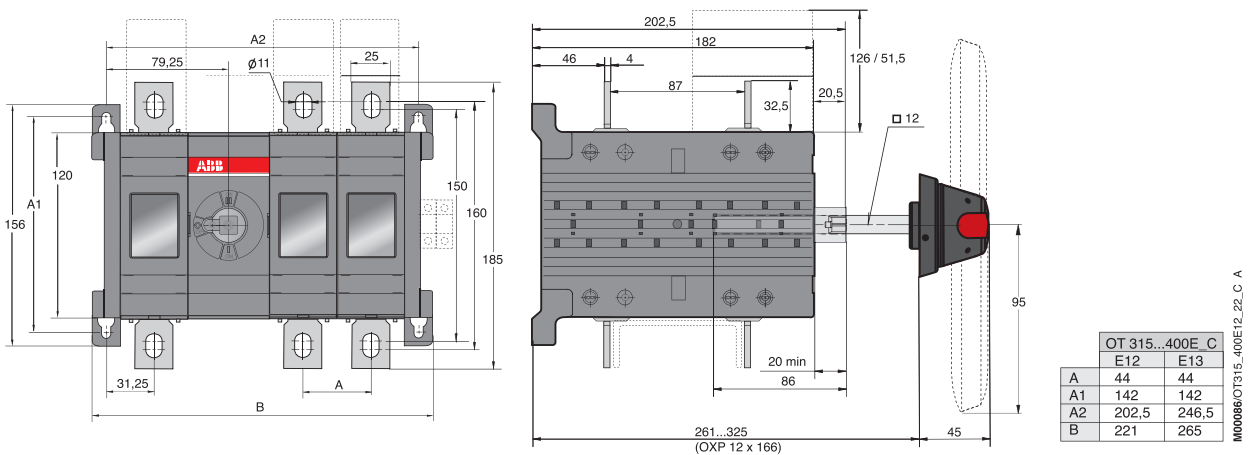
OT160...250_ with direct mounted handle



OT315E03/04CP and OT400E03/04CP



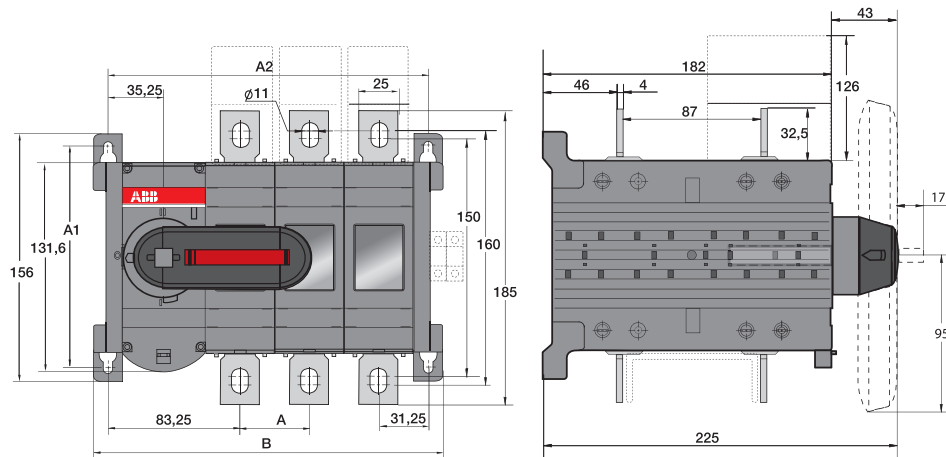
OT315E12/13CP..OT400E12/13CP



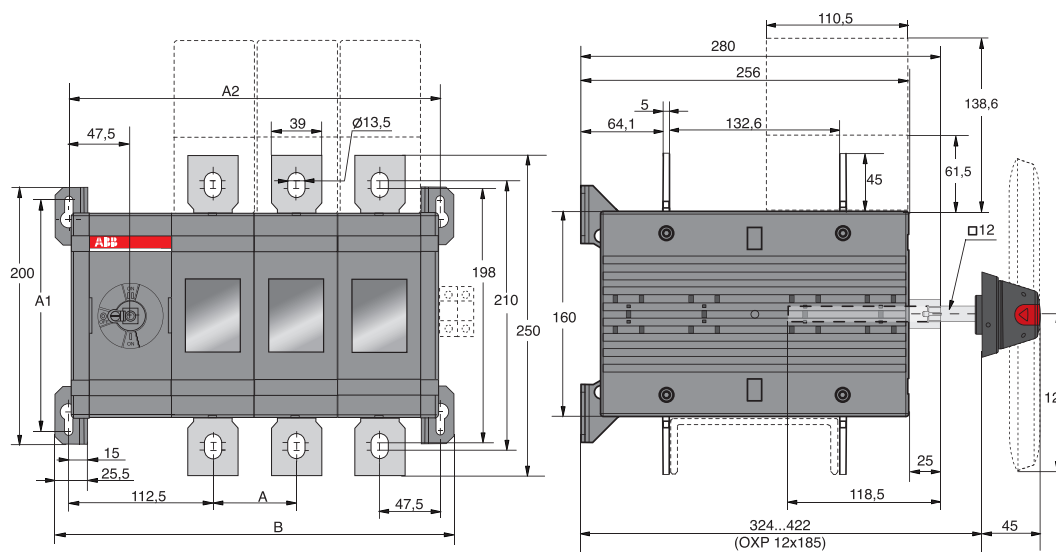


Change-over switches Dimension drawings

OT315E03/04_...400E03/04_ with direct mounted handle



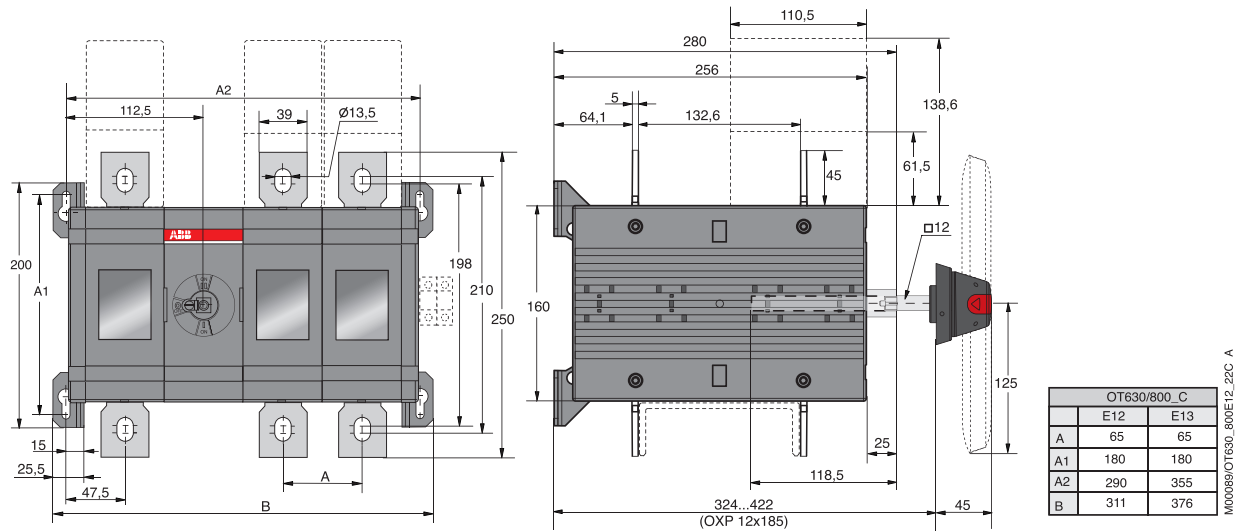
OT630E03/04CP...800E03/04CP



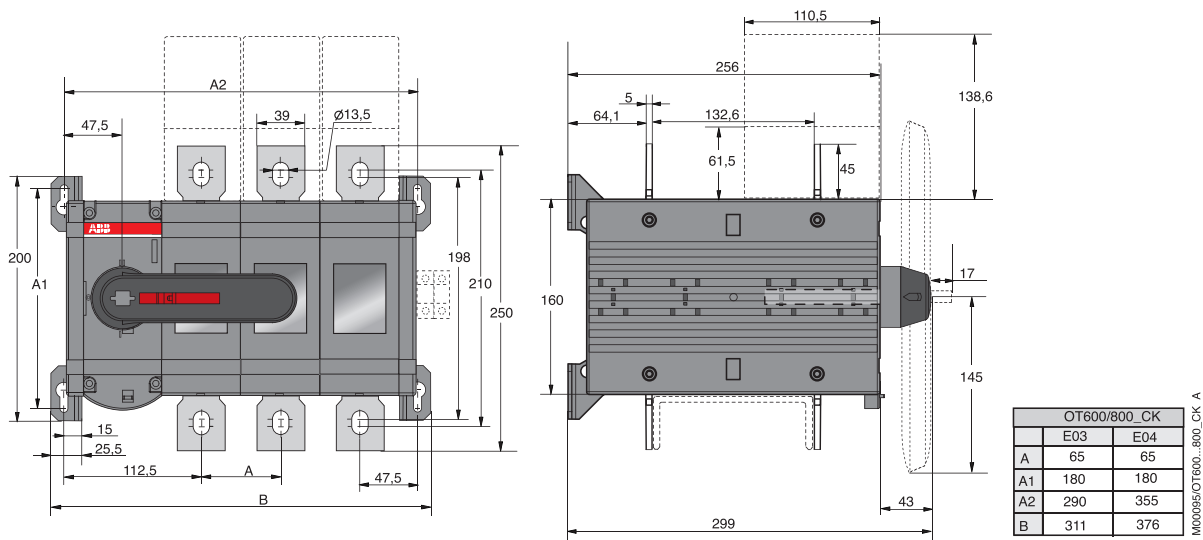


Change-over switches Dimension drawings

OT630E12/13CP...800E12/13CP



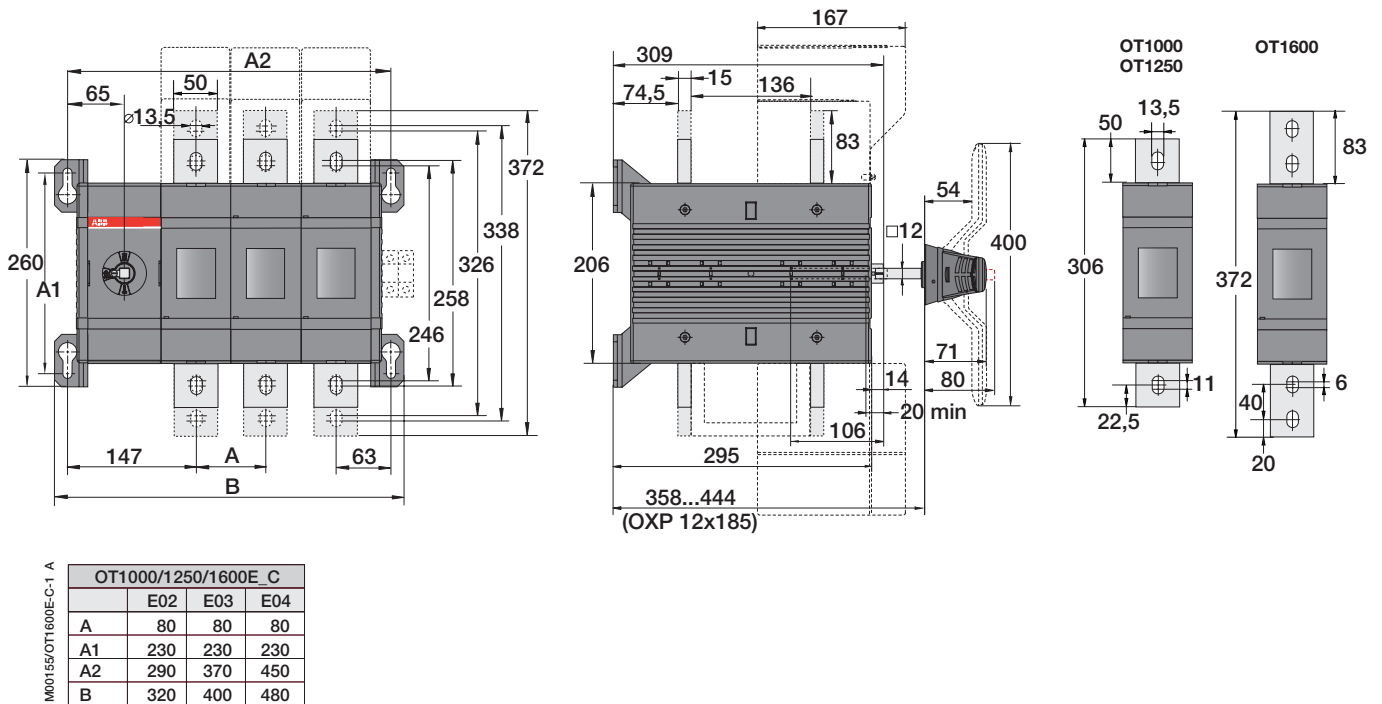
OT630E03/04...800E03/04_ with direct mounted handle



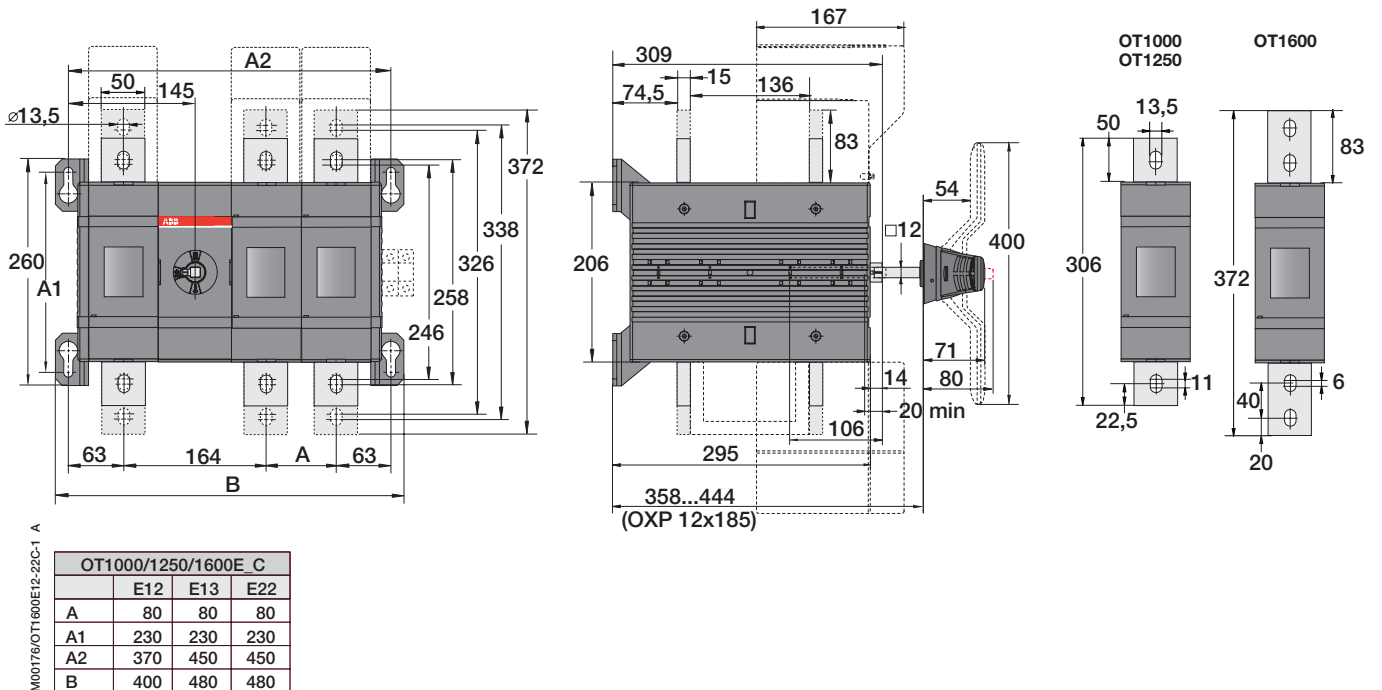


Change-over switches Dimension drawings

OT1000...1600E03/04CP



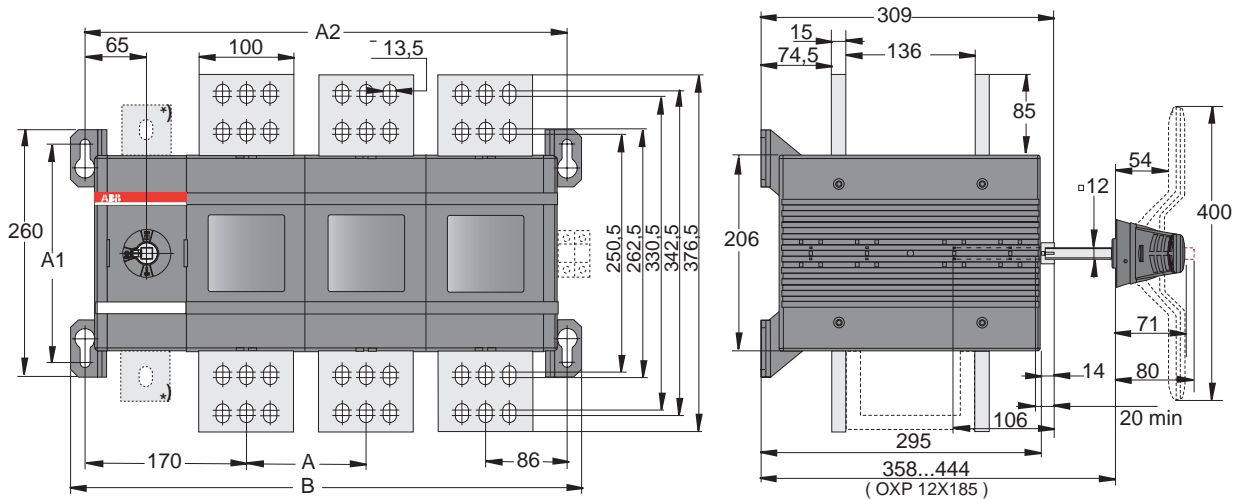
OT1000...1600E12/E13/E22CP





Change-over switches Dimension drawings

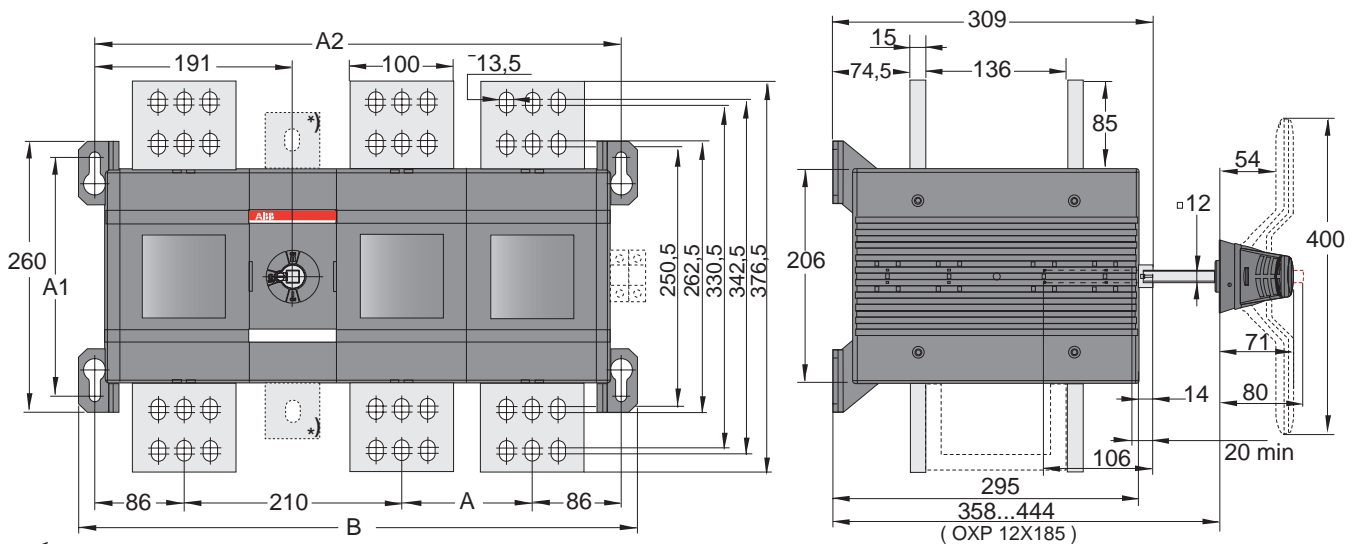
OT2000...2500E03/04CP



M00179/ OT2500E-C A

OT 2500-C			
	E02	E03	E04
A	126	126	126
A1	230	230	230
A2	382	508	634
B	412	538	664

OT2000...2500E12/E13/E22CP



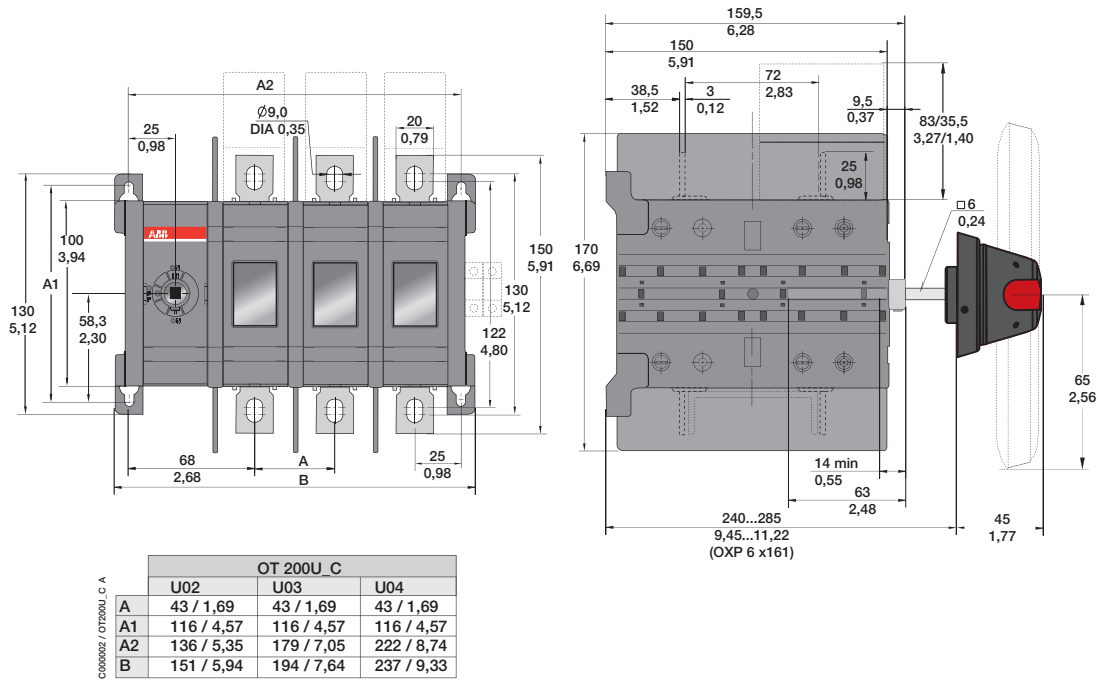
M00178/ OT2500E12-C A

OT2000...2500E C			
	E12	E13	E22
A	126	126	126
A1	230	230	230
A2	508	634	634
B	538	664	664

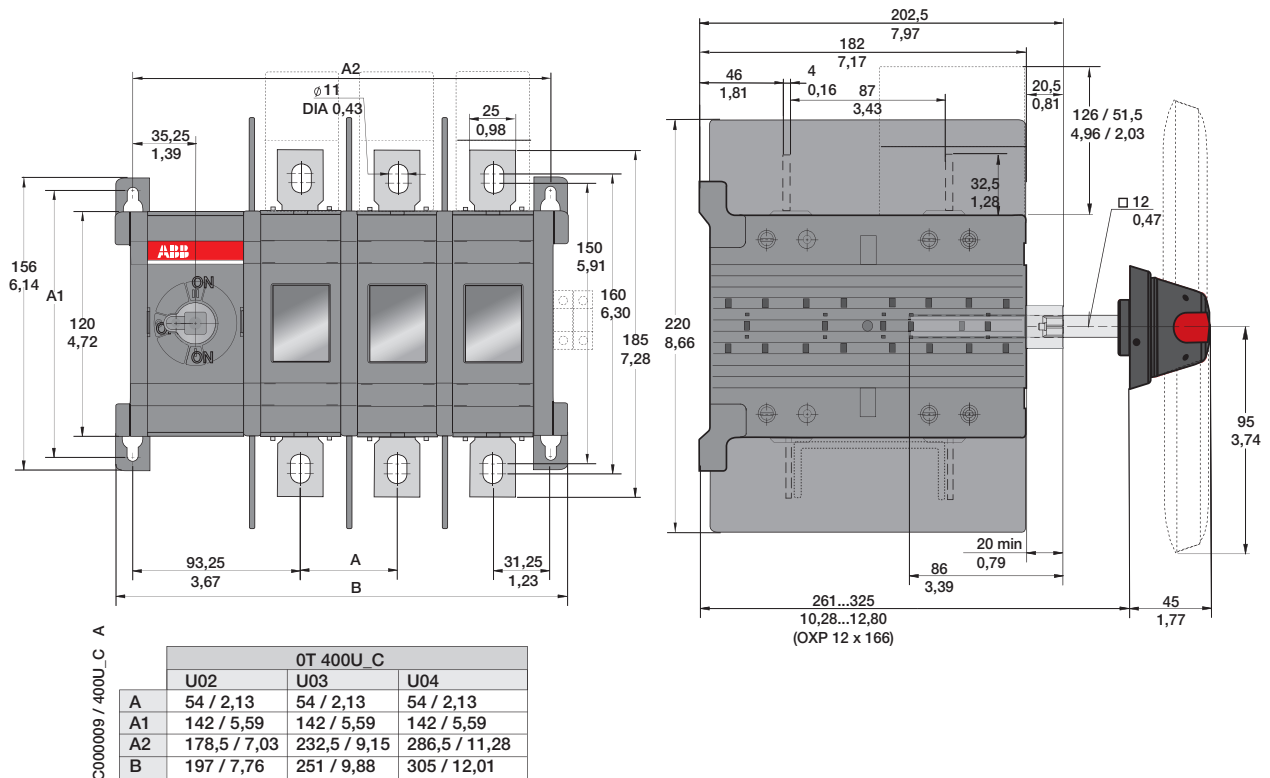


Change-over switches Dimension drawings

OT200U03/04CP



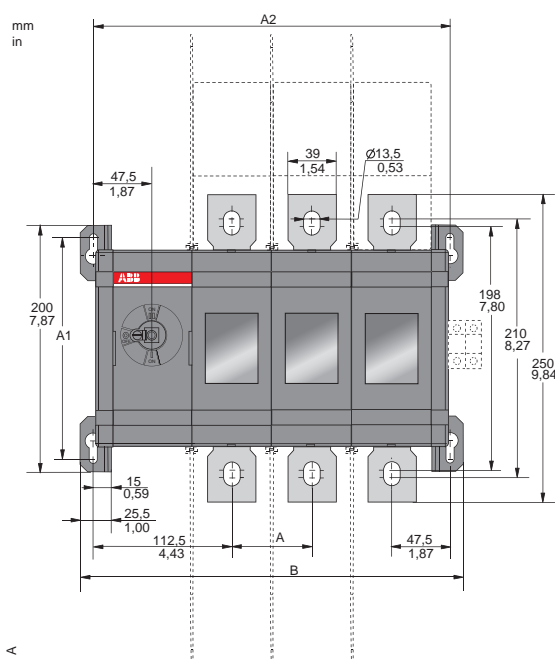
OT400U03/04CP



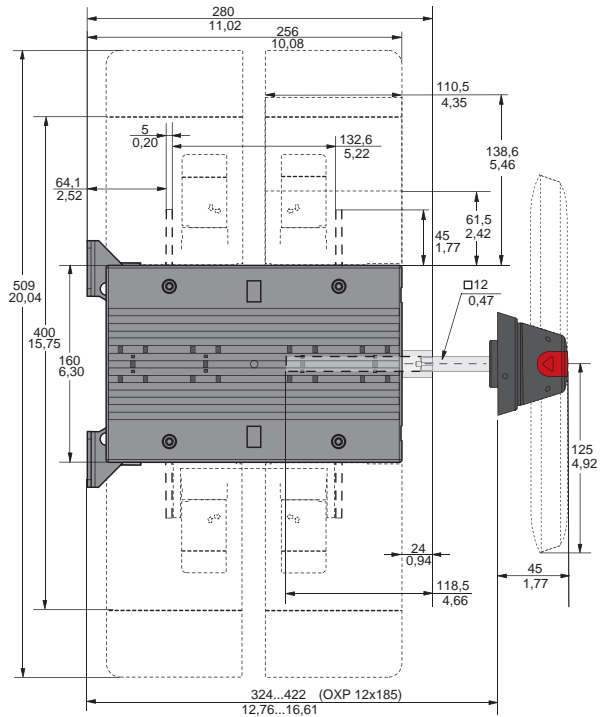


Change-over switches Dimension drawings

OT600U03/04CP



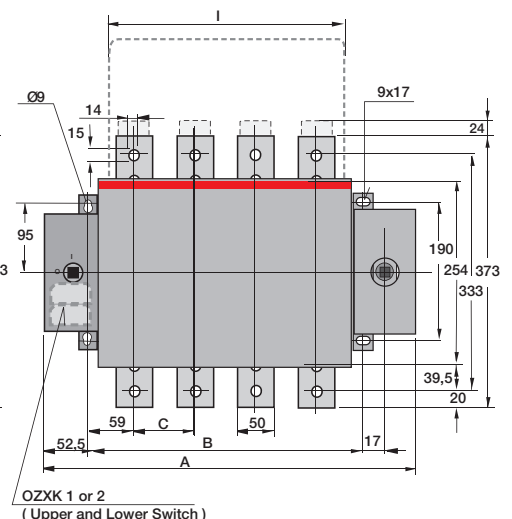
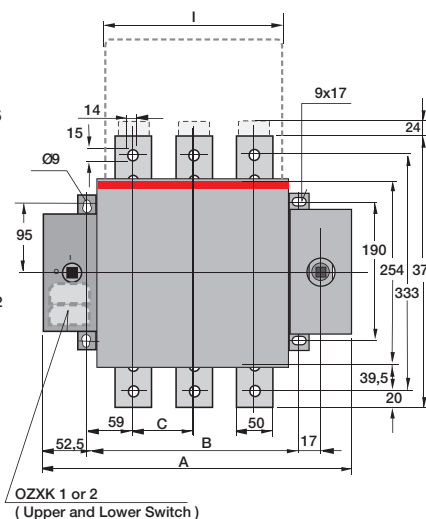
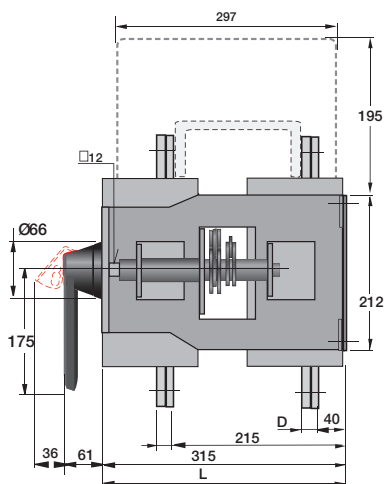
OT600U02-04C			
	U02	U03	U04
A	65/2,56	65/2,56	65/2,56
A1	180/7,09	180/7,09	180/7,09
A2	225/8,86	290/11,42	355/13,98
B	246/9,69	311/12,24	376/14,80



OETL-NFC800...1200

OETL-NFC800
OETL-NFC1200

OETL-NFC800-4
OETL-NFC1200-4



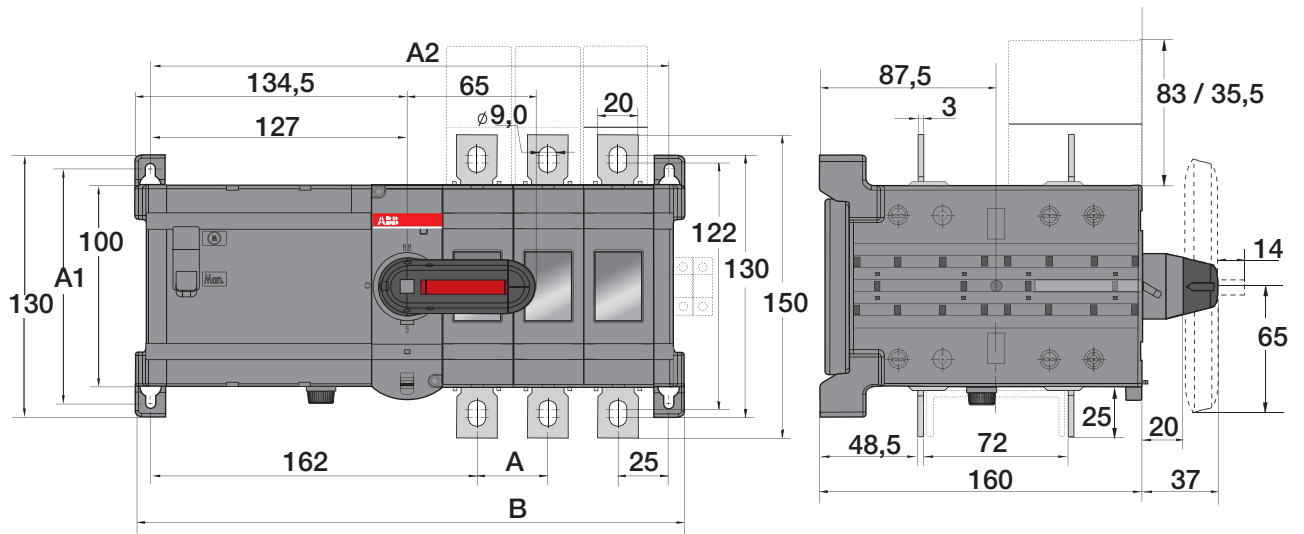
OETL-NFC800 ...1200					
	A	B	C	D	I
OETL-NFC800	410	298	90	12	267
OETL-NFC800-4	500	388	90	12	357
OETL-NFC1200	410	298	90	16	267
OETL-NFC1200-4	500	388	90	16	357

Shaft OXP 12x	Mounting depth/L
185	364...437
250	429...502
325	504...577
395	574...647
465	644...717



Change-over switches Dimension drawings

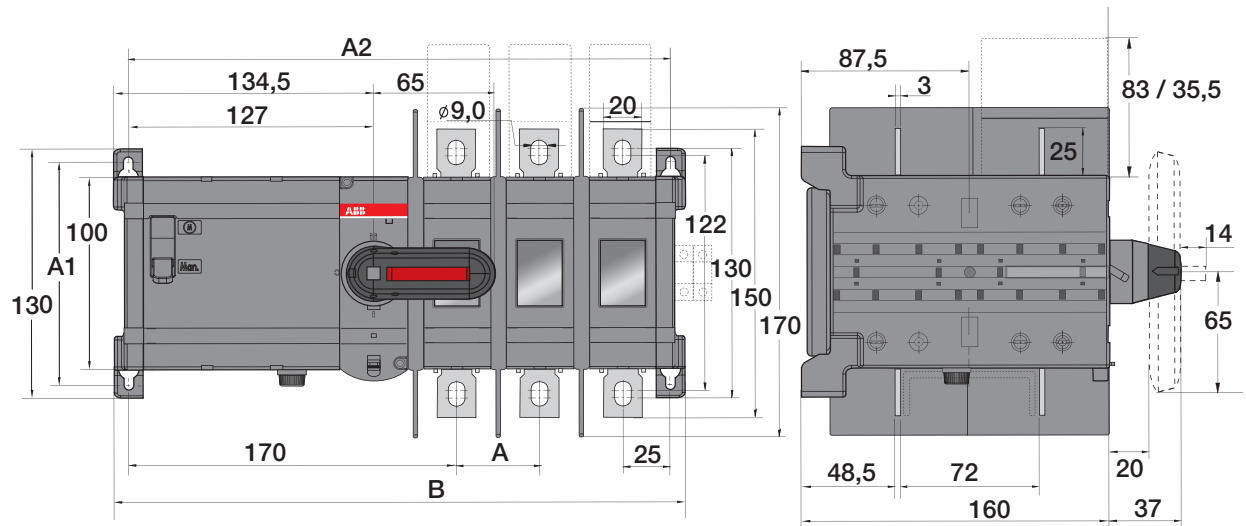
OTM160...250E3/4CM



M00111 / OTM160-250E3-4CM A

OTM 160...250E-C-M		
	E3	E4
A	35	35
A1	116	116
A2	257	292
B	272	307

OTM160...250E3/4WCM



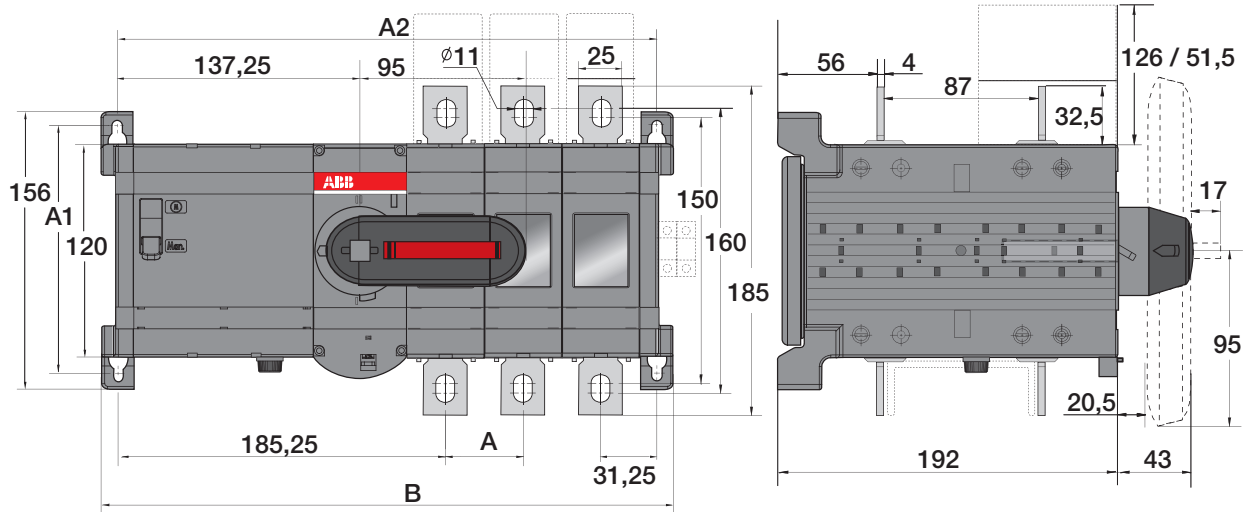
M00115 / OTM160-250E3-4WCM A

OTM 160-250_WCM		
	E3	E4
A	43	43
A1	116	116
A2	281	324
B	296	339



Change-over switches Dimension drawings

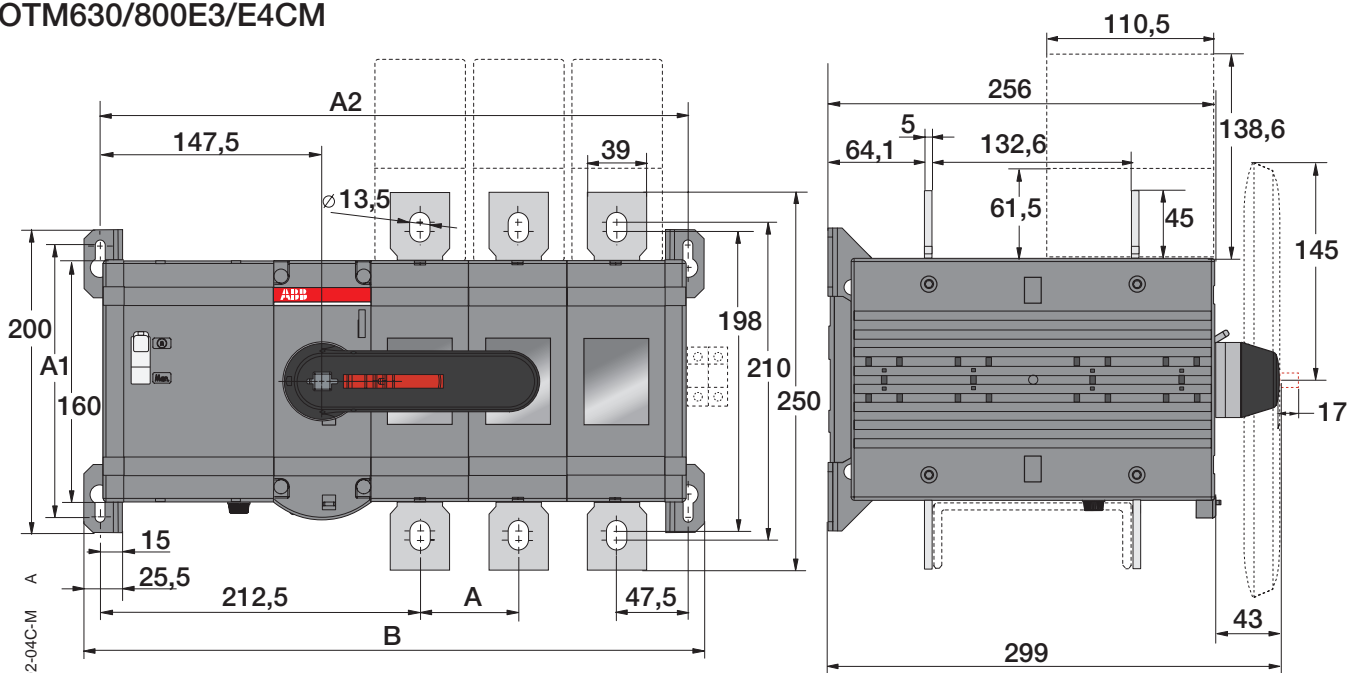
OTM315...400E3/4CM



M00113 / OTM315-400E3-4CM A

OTM 315...400E_C_M		
	E3	E4
A	44	44
A1	142	142
A2	304,5	348,5
B	323	367

OTM630/800E3/E4CM



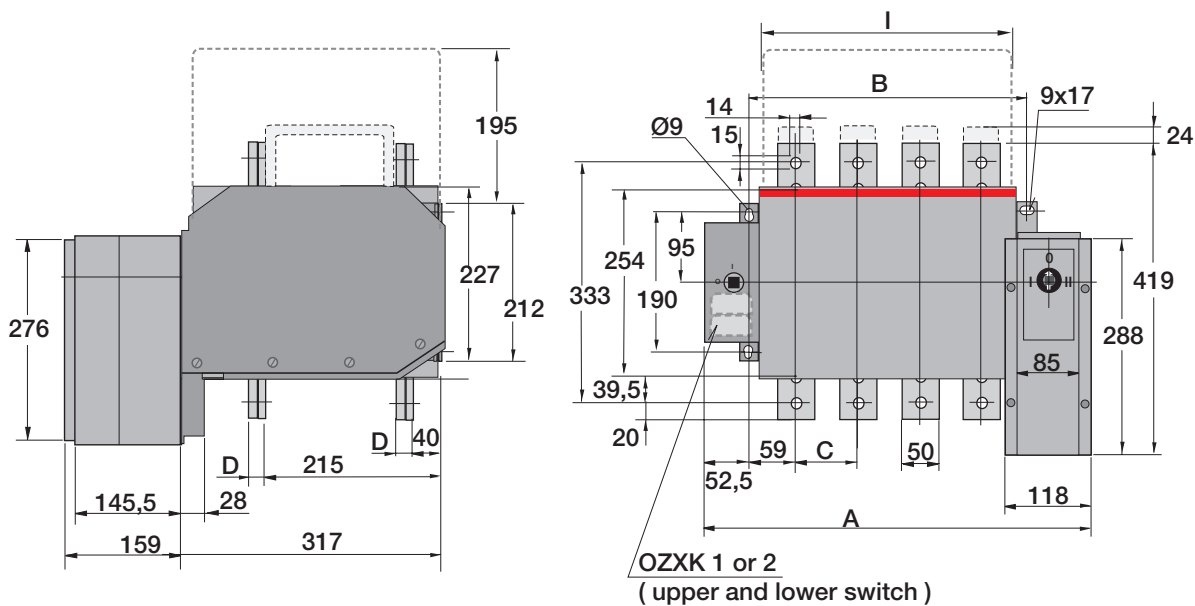
M00140/OTM630-800E02-04C-M

OTM630-800E-C-M			
	E02	E03	E04
A	65	65	65
A1	180	180	180
A2	325	390	455
B	346	411	476



Transfer switches Dimension drawings

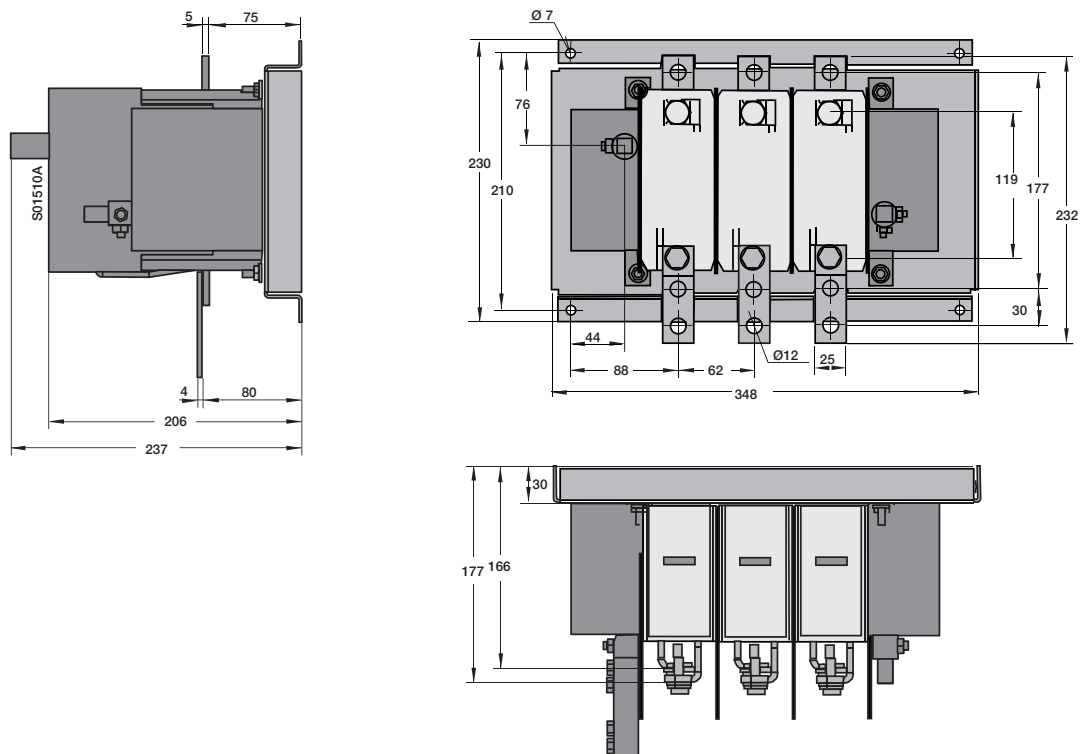
OEM1000...1600



OEM 1000K3C...OEM 1600K4C					
	A	B	C	D	I
OEM 1000K3C	414	278	80	12	237
OEM 1000K4C	494	358	80	12	317
OEM 1250K3C	414	278	80	12	237
OEM 1250K4C	494	358	80	12	317
OEM 1600K3C	434	298	90	16	257
OEM 1600K4C	524	388	90	16	347

S01320/A

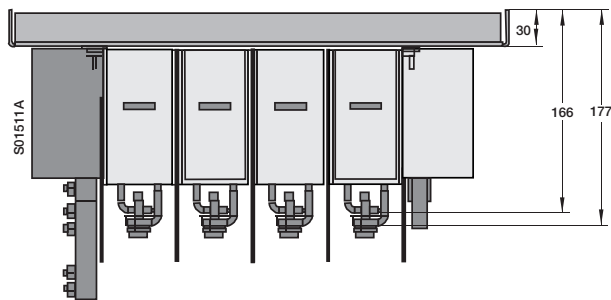
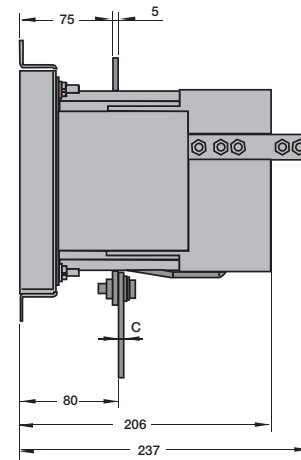
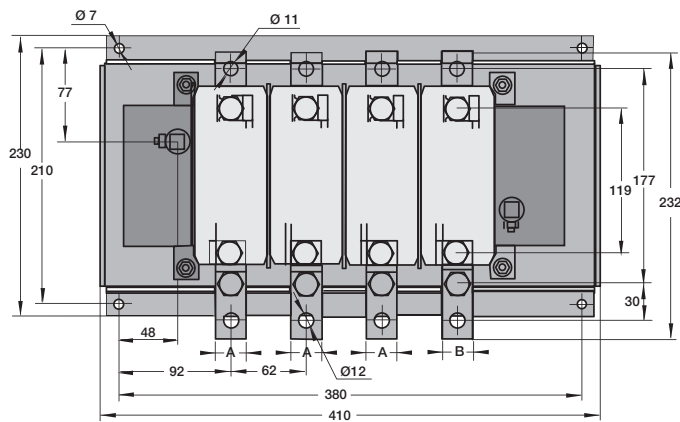
OESC250...500, 3-pole





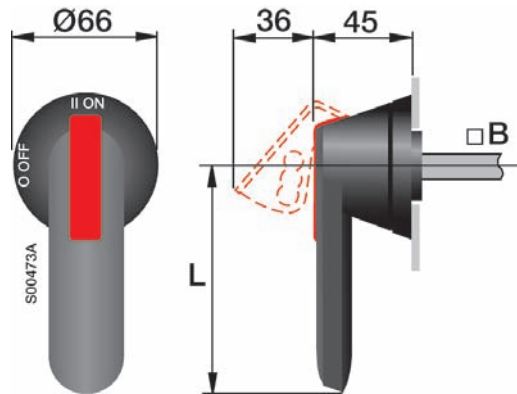
Transfer switches Dimension drawings

OESC250...500, 4-pole

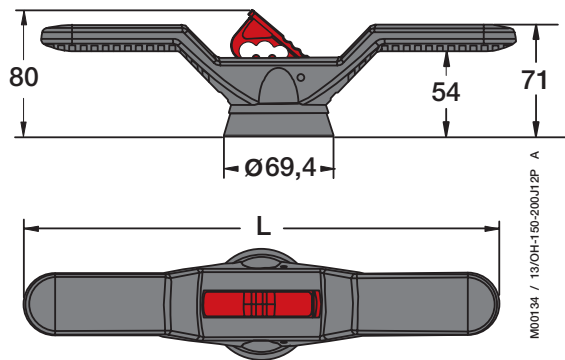


	AxC	BxC
OESC 250K04	25x4	25x4
OESC 500K04	25x4	25x4
OESC 250K04N2	25x4	25x4
OESC400K04N2	25x4	30x8

Plastic handles

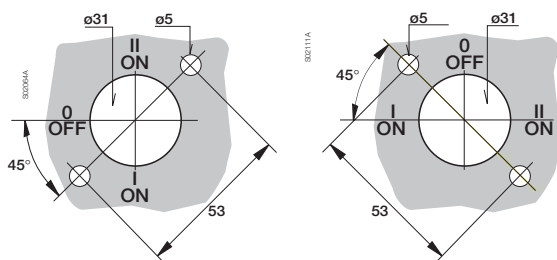


Handle type	Handle length (mm) L	Shaft (mm) B
OH_45J6E_	45	6
OH_65J6E_	65	6
OH_95J12E_	95	12
OH_125J12E_	125	12
OH_145J12E_	145	12
OH_175J12E_	175	12
OH_200J12E_	200	12
OH_275J12E_	275	12

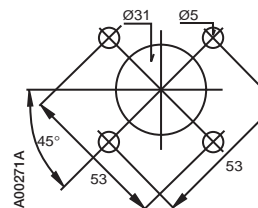


Handle type	L
OHB200J12PE_	400

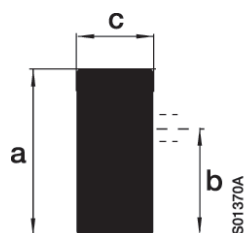
Door drilling for OH_ handles:



OHB200J12P



Handle knobs



	a	b	c
OHBS2, OHRS2	40	25	13
OHBS3, OHRS3	39	23	18
OHBS9, OHRS9	72	55	16
OHBS11, OHRS11	57.5	34.5	20
OHBS12, OHRS12	37	22.5	19

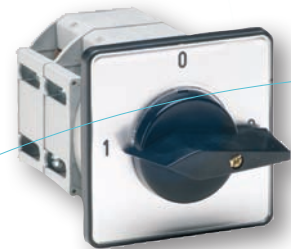


Notes

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Rotary change-over and bypass cam switches

OM
ON
OL



The rotary cam switches are the most space saving changeover solutions, for the door and modular base mounting.

The standard range includes a black handle and finger protected terminals. A large variation of front plates for customized engraving enables special cam switches.

Special cam switches can be configured on the Internet by the Camweb configurator. The specification and ordering of special cam switches is as easy as selecting standard products!





Rotary change-over and bypass cam switches

Contents:

Rotary cam switches

Rotary change-over and bypass cam switches OM, ON and OL40...200

Technical data.....	44 - 45
Ordering information.....	46 - 53
Change-over switches, OM, ON and OL.....	46 - 48
Bypass switches, ON and OL.....	49
Accessories	50 - 53
Dimension drawings.....	54 - 57
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Ratings according to IEC60947

			Size	OM	ON	OL40	OL80	OL125	OL160	OL200
Impuls withstand voltage	U_{imp}		kV	2.5	4	6	6	6	6	6
Rated insulation voltage			V	500	690	690	690	690	690	690
Rated operational voltage	U_e		V	250	400	690	690	690	690	690
Rated thermal current	I_{th}		A	10	25	45	115	150	175	315
Rated conditional short circuit current	I_p (r.m.s.)		kA	1	7	10	10	10	10	10
Max back-up fuse link			A	10	25	40	125	160	200	315
Rated short time withstand current (r.m.s)	3s		A		100	360	800	1280	1280	1600
	10s		A		60	200	420	700	700	1000
	30s		A		32	120	260	400	400	600
	60s		A		30	80	160	280	280	400
Rated operational current	I_e		A	10	25	45	115	150	160	250
	AC1	400V	A	10	25	45	115	150	170	250
	AC21	400V	A	10	25	45	115	150	170	250
	AC11	220-240V	A	2.5	5.5	14	30	45	45	80
		380-440V	A	-	3.5	6.0	30	45	45	80
		500V	A	-	4.5	7.0	28	40	40	70
	AC22	220-500V	A	10	20	40	100	150	170	250
		660-690V	A	-	20	40	80	100	100	125
Rated operational current	Time constant 0...1ms									
	1-contact in series	DC21 24V	A	10	20	40	115	130	150	250
	1-contact in series	48V	A	10	20	40	115	130	150	250
	2-contact in series	60V	A	10	20	40	115	130	150	250
	3-contact in series	110V	A	10	20	40	115	130	150	250
	5-contact in series	220V	A	10	20	40	115	130	150	250
	9-contact in series	440V	A	10	20	40	115	130	150	250
Rated operational current	Time constant 1...50 ms									
	1-contact in series	DC22 24V	A	6	10	32	100	115	130	200
	1-contact in series	30V	A	3	4.5	11	33	36	40	50
	1-contact in series	40V	A	3	4.5	11	33	36	40	50
	2-contact in series	60V	A	3	4.5	11	33	36	40	50
	3-contact in series	110V	A	3	4.5	11	33	36	40	50
	5-contact in series	220V	A	3	4.5	11	33	36	40	50
Rated operational power										
	AC23 3 ph.	220-240V	kW	1.8	2.6	7.5	30	37	37	56
		380-440V	kW	3	7.5	15	45	75	75	75
		500V	kW	-	4.8	15	55	75	90	85
		660-690V	kW	-	4.8	15	45	50	55	90
	AC23 1 ph.	110V	kW	0.37	0.5	2.5	5.5	9	11	14
		220-240V	kW	0.75	0.9	4	15	20	22	30
		400V	kW	1.1	1.5	7.5	22	35	37	45
Rated operational power										
	AC2 3 ph.	220-240V	kW	2.5	3.5	11	30	35	37	70
		380-440V	kW	-	6	18.5	45	50	55	95
		500V	kW	-	6	18.5	55	65	75	103
		660-690V	kW	-	6	18.5	55	65	55	110
	AC3 3 ph.	220-240V	kW	1.8	2.2	7.5	15	20	22	47
		380-440V	kW	2.2	5.5	11	30	35	37	64
		500V	kW	-	4	11	30	35	37	82
		660-690V	kW	-	4	11	30	30	30	88

Ratings according to IEC60947

			Size	OM	ON	OL40	OL80	OL125	OL160	OL200
AC3 1 ph.	110V	kW		0.3	0.4	2.5	3.7	6	6	12
	220-240V	kW		0.55	0.75	4.0	7.5	11	11	24
	400V	kW		0.75	1.3	5.5	13	19	19	40

Terminals

			Size	OM	ON	OL40	OL80	OL125	OL160	OL200
Connecting screws			M	2.5	3.5	5	5	5	5	10
Max cable cross section, solid or stranded			mm ²	1.5	4	6	70	70	70	150
			AWG	14	14-12	14-8	12-2/0	12-2/0	12-2/0	kcmil 300

Contacts

			Size	OM	ON	OL40	OL80	OL125	OL160	OL200
Minimum voltage AC/DC			V	5	5	5	5	5	5	5
Minimum current AC/DC			mA	5	5	5	5	5	5	5
Standard butt contact with plain contact tip					x	x	x	x	x	x
Butt contact with peak type contact tip				x						
Gold contacts (special)				x	x	x				
Storing temperature			°C	-40...+80	-40...+80	-40...+80	-40...+80	-40...+80	-40...+80	-40...+80
Operational temperature ¹⁾			°C	-30...+70	-30...+70	-30...+70	-30...+70	-30...+70	-30...+70	-30...+70

¹⁾ At 40°C, derating 0%
At 70°C, derating 80%
Current peaks up to 60°C, derating 0%

Ratings according to UL and CSA

				Size	OM	ON	OL40	OL80	OL125	OL160	OL200
Maximum operating voltage				V	300	600	600	600	600	600	600
	Pilot duty category	CSA/UL	VAC	A300	A600	A600	A600	A600	A600	A600	
Ampere rating	General use at 600VAC	CSA	A	10	25	40	80	125	170	200	
		UL	A	10	25	40	80	125	170	200	
Rated power	3-phase	120V	HP	1	1	5	10	15	15	32	
		240V	HP	1	2	10	30	40	40	64	
		480V	HP	-	5	20	30	40	50	120	
		600V	HP	-	5	20	30	40	50	120	
	1-phase	120V	HP	0.33	1	2	7.5	10	10	-	
		240V	HP	1	1	3	15	20	20	-	
		480V	HP	-	2	10	-	-	-	-	
		600V	HP	-	3	10	-	-	-	10	
Short cicuit ratings											
Maximum prospective fault current				kA	1	10	10	10	10	10	10
Maximum fuse size				A	16	35(RK5)	50(RK3)	100(RK5)	150(RK5)	200(RK5)	250(RK5)
Switching frequency				cycles/hour	150	150	150	150	150	150	150

Change-over switches

Black handle and front plate with position indication are included.
The type and the ordering number are for one piece.

Function	Number of poles	Rated thermal current I_{th} [A]	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
----------	-----------------	------------------------------------	------	--------------	----------------------	------------------

With 0-position, step angle 60°

Door mounted, snap-on mounted handle

1 - 0 - 2	1	10	OMU1PB	1SCA022532R5960	10	0.09
	2	10	OMU2PB	1SCA022532R6000	10	0.11
	3	10	OMU3PB	1SCA022532R6180	10	0.13
	4	10	OMU4PB	1SCA022532R6260	10	0.14
1 - 0 - 2	1	25	ONU1PB	1SCA022532R7310	10	0.09
	2	25	ONU2PB	1SCA022532R7400	10	0.11
	3	25	ONU3PB	1SCA022532R7580	10	0.13
	4	25	ONU4PB	1SCA022532R7660	10	0.14
1 - 0 - 2	1	45	OL40U1PB	1SCA022761R0990	10	0.17
	2	45	OL40U2PB	1SCA022761R1020	10	0.25
	3	45	OL40U3PB	1SCA022761R1110	10	0.33
	4	45	OL40U4PB	1SCA022761R1290	10	0.41

Door mounted, screw mounted handle

1 - 0 - 2	1	25	ONU1RB	1SCA100216R1001	10	0.09
	2	25	ONU2RB	1SCA100219R1001	10	0.11
	3	25	ONU3RB	1SCA100220R1001	10	0.13
	4	25	ONU4RB	1SCA100222R1001	10	0.14
1 - 0 - 2	1	40	OL40U1RB	1SCA100307R1001	10	0.17
	2	40	OL40U2RB	1SCA100308R1001	10	0.25
	3	40	OL40U3RB	1SCA100309R1001	10	0.33
	4	40	OL40U4RB	1SCA100311R1001	10	0.41
1 - 0 - 2	1	115	OL80U1RB	1SCA022790R0560	1	0.34
	2	115	OL80U2RB	1SCA022790R0640	1	0.45
	3	115	OL80U3RB	1SCA022790R0720	1	0.56
	4	115	OL80U4RB	1SCA022790R0810	1	0.67
1 - 0 - 2	1	150	OL125U1RB	1SCA022790R1960	1	0.34
	2	150	OL125U2RB	1SCA022790R2000	1	0.45
	3	150	OL125U3RB	1SCA022790R2180	1	0.56
	4	150	OL125U4RB	1SCA022790R2260	1	0.67
1 - 0 - 2	1	175	OL160U1RB	1SCA022790R6840	1	0.34
	2	175	OL160U2RB	1SCA022790R6920	1	0.45
	3	175	OL160U3RB	1SCA022790R7060	1	0.56
	4	175	OL160U4RB	1SCA022790R7140	1	0.67
1 - 0 - 2	1	315	OL200U1RB	1SCA022790R7220	1	2.00
	2	315	OL200U2RB	1SCA022790R7310	1	3.10
	3	315	OL200U3RB	1SCA022790R7490	1	4.20
	4	315	OL200U4RB	1SCA022790R7570	1	5.30

Door mounted, round front ring

1 - 0 - 2	1	25	ONU1XB	1SCA022708R9370	10	0.09
	2	25	ONU2XB	1SCA022708R9450	10	0.11
	3	25	ONU3XB	1SCA022708R9530	10	0.13
	4	25	ONU4XB	1SCA022708R9610	10	0.14

Door mounted, key operated, withdrawable in all positions

1 - 0 - 2	1	10	OMU1KB	1SCA022532R6340	10	0.07
	3	10	OMU3KB	1SCA022532R6420	10	0.08
1 - 0 - 2	1	25	ONU1KB	1SCA022532R7740	10	0.12
	3	25	ONU3KB	1SCA022532R7820	10	0.13

DIN-rail mounted

1 - 0 - 2	1	25	ONU1M	1SCA022532R8210	10	0.09
	2	25	ONU2M	1SCA022532R8390	10	0.11
	3	25	ONU3M	1SCA022532R8470	10	0.13
	4	25	ONU4M	1SCA022534R2710	10	0.14

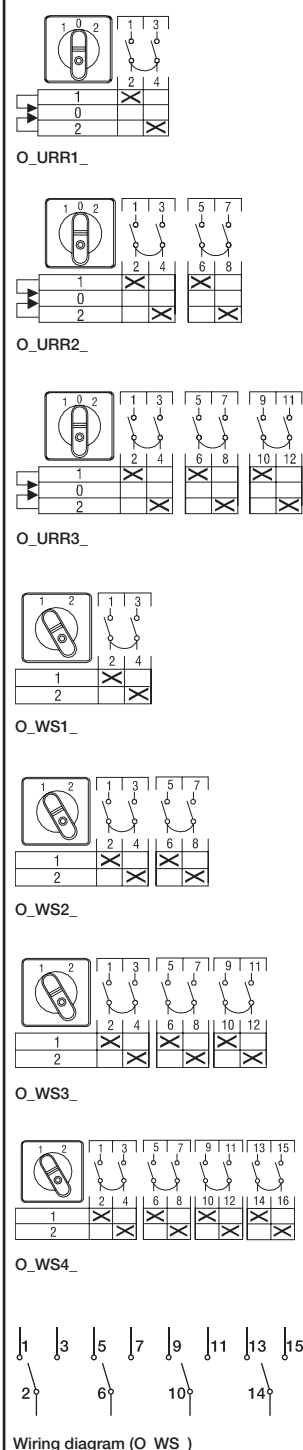
Packing sizes for 10 pcs: OM 130 x 100 x 120 [mm]
ON, OL40 250 x 100 x 110 [mm]

Change-over switches

Black handle and front plate with position indication are included.
The type and the ordering number are for one piece.

Function	Number of poles	Rated thermal current I_{th} [A]	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
With 0-position, with two sided spring return, step angle 60°						
Door mounted, snap-on mounted handle						
1 _R - 0 - 2 _R	1	10	OMURR1PB	1SCA022532R6510	10	0.05
	3	10	OMURR3PB	1SCA022532R6690	10	0.06
1 _R - 0 - 2 _R	1	25	ONURR1PB	1SCA022532R7910	10	0.09
	2	25	ONURR2PB	1SCA022558R4040	10	0.11
	3	25	ONURR3PB	1SCA022532R8040	10	0.12
1 _R - 0 - 2 _R	1	45	OL40URR1PB	1SCA022761R1370	10	0.17
	2	45	OL40URR2PB	1SCA022761R1450	10	0.25
	3	45	OL40URR3PB	1SCA022761R1530	10	0.33
Door mounted, screw mounted handle						
1 _R - 0 - 2 _R	2	25	ONURR2RB	1SCA100223R1001	10	0.11
Door mounted, round front ring						
1 _R - 0 - 2 _R	2	25	ONURR2XB	1SCA022709R0620	10	0.11
DIN-rail mounted						
1 _R - 0 - 2 _R	1	25	ONURR1M	1SCA022568R3530	10	0.09
Without 0-position, step angle 60°						
Door mounted, snap-on mounted handle						
1 - 2	1	10	OMWS1PB	1SCA022532R6770	10	0.09
	2	10	OMWS2PB	1SCA022532R6850	10	0.11
	3	10	OMWS3PB	1SCA022533R0610	10	0.13
	4	10	OMWS4PB	1SCA022533R0700	10	0.14
1 - 2	1	25	ONWS1PB	1SCA022532R8120	10	0.09
	2	25	ONWS2PB	1SCA022532R9360	10	0.11
	3	25	ONWS3PB	1SCA022532R9440	10	0.13
	4	25	ONWS4PB	1SCA022532R9520	10	0.14
1 - 2	1	45	OL40WS1PB	1SCA022761R1610	10	0.17
	2	45	OL40WS2PB	1SCA022761R1700	10	0.25
	3	45	OL40WS3PB	1SCA022761R1880	10	0.33
	4	45	OL40WS4PB	1SCA022761R1960	10	0.41
Door mounted, screw mounted handle						
1 - 2	1	25	ONWS1RB	1SCA100236R1001	10	0.09
	2	25	ONWS2RB	1SCA100240R1001	10	0.11
	3	25	ONWS3RB	1SCA022874R9180	10	0.13
	4	25	ONWS4RB	1SCA100254R1001	10	0.14
1 - 2	1	40	OL40WS1RB	1SCA100316R1001	10	0.17
	2	40	OL40WS2RB	1SCA100319R1001	10	0.25
	3	40	OL40WS3RB	1SCA100320R1001	10	0.33
	4	40	OL40WS4RB	1SCA100321R1001	10	0.41
1 - 2	1	115	OL80WS1RB	1SCA022790R0990	1	0.34
	2	115	OL80WS2RB	1SCA022790R1020	1	0.45
	3	115	OL80WS3RB	1SCA022790R1110	1	0.56
	4	115	OL80WS4RB	1SCA022790R1290	1	0.67
1 - 2	1	150	OL125WS1RB	1SCA022790R2340	1	0.34
	2	150	OL125WS2RB	1SCA022790R2420	1	0.45
	3	150	OL125WS3RB	1SCA022790R2510	1	0.56
	4	150	OL125WS4RB	1SCA022790R2690	1	0.67
1 - 2	1	175	OL160WS1RB	1SCA022790R8030	1	0.34
	2	175	OL160WS2RB	1SCA022790R8110	1	0.45
	3	175	OL160WS3RB	1SCA022790R8200	1	0.56
	4	175	OL160WS4RB	1SCA022790R8380	1	0.67
1 - 2	1	315	OL200WS1RB	1SCA022790R8460	1	2.00
	2	315	OL200WS2RB	1SCA022790R8540	1	3.10
	3	315	OL200WS3RB	1SCA022790R8620	1	4.20
	4	315	OL200WS4RB	1SCA022790R8710	1	5.30

Packing sizes for 10 pcs: OM 130 x 100 x 120 [mm]
ON, OL40 250 x 100 x 110 [mm]



Change-over switches

Black handle and front plate with position indication are included.
The type and the ordering number are for one piece.

Function	Number of poles	Rated thermal current I_{th} [A]	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
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Without 0-position, step angle 60°

Door mounted, round front ring

1 - 2	1	25	ONWS1XB	1SCA022709R1270	10	0.09
	2	25	ONWS2XB	1SCA022709R1350	10	0.11
	3	25	ONWS3XB	1SCA022709R1430	10	0.13
	4	25	ONWS4XB	1SCA022709R1510	10	0.14

DIN-rail mounted

1 - 2	1	25	ONWS1M	1SCA022532R8710	10	0.09
	2	25	ONWS2M	1SCA022532R8800	10	0.11
	3	25	ONWS3M	1SCA022532R8980	10	0.13
	4	25	ONWS4M	1SCA022532R9010	10	0.14

With overlapping contacts

Door mounted, snap-on mounted handle

1 - 2	1	10	OMWC1PB	1SCA022799R8270	10	0.09
	2	10	OMWC2PB	1SCA022799R8600	10	0.11
	3	10	OMWC3PB	1SCA022799R9080	10	0.13
	4	10	OMWC4PB	1SCA022799R9320	10	0.14

1 - 2	1	25	ONWC1PB	1SCA022799R8350	10	0.09
	2	25	ONWC2PB	1SCA022799R8780	10	0.11
	3	25	ONWC3PB	1SCA022799R9240	10	0.13
	4	25	ONWC4PB	1SCA022799R9320	10	0.14

1 - 2	1	45	OL40WC1PB	1SCA022799R8430	10	0.17
	2	45	OL40WC2PB	1SCA022799R8860	10	0.25
	3	45	OL40WC3PB	1SCA022799R9410	10	0.33
	4	45	OL40WC4PB	1SCA022799R9590	10	0.41

Door mounted, screw mounted handle

1 - 2	1	115	OL80WC1RB	1SCA022799R8510	1	0.34
	2	115	OL80WC2RB	1SCA022799R8940	1	0.45
	3	115	OL80WC3RB	1SCA022799R9670	1	0.56
	4	115	OL80WC4RB	1SCA022799R9750	1	0.67

With common center position and with overlapping contacts

Door mounted, snap-on mounted handle

1 - (1 + 2) - 2	3	25	ONUC3PB	1SCA022791R0360	10	0.13
	4	25	ONUC4PB	1SCA022791R0280	10	0.14

1 - (1 + 2) - 2	3	45	OL40UC3PB	1SCA022791R0870	10	0.13
	4	45	OL40UC4PB	1SCA022791R0950	10	0.14

Door mounted, screw mounted handle

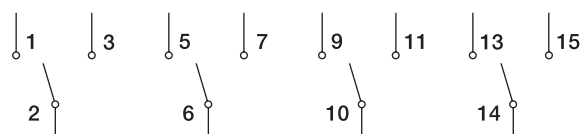
1 - (1 + 2) - 2	3	115	OL80UC3RB	1SCA022791R1410	1	0.56
	4	115	OL80UC4RB	1SCA022791R1920	1	0.67

1 - (1 + 2) - 2	3	150	OL125UC3RB	1SCA022791R1500	1	0.56
	4	150	OL125UC4RB	1SCA022791R2060	1	0.67

1 - (1 + 2) - 2	3	175	OL160UC3RB	1SCA022791R1680	1	0.56
	4	175	OL160UC4RB	1SCA022791R2140	1	0.67

1 - (1 + 2) - 2	3	315	OL200UC3RB	1SCA022791R1760	1	4.20
	4	315	OL200UC4RB	1SCA022791R2220	1	5.30

Wiring diagram (O_WS_, O_WC_, O_UC_)



Packing sizes for 10 pcs: OM 130 x 100 x 120 [mm]
ON, OL40 250 x 100 x 110 [mm]

O_WS36_

O_WS48_

O_PW36_

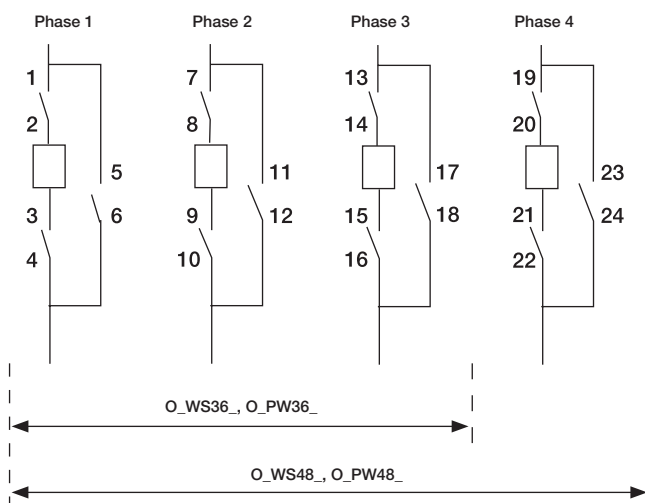
O_PW48_

Bypass switches

Black handle and front plate with position indication are included.
The type and the ordering number are for one piece.

Function	Number of poles	Rated thermal current I_{th} [A]	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
With 0-position, step angle 60°, without overlapping, 3 and 4- pole network						
Door mounted, snap-on mounted handle						
1 - 0 - Bypass	3 / 6	25	ONWS36PB	1SCA022791R0440	10	0.17
	4 / 8	25	ONWS48PB	1SCA022791R0520	10	0.19
1 - 0 - Bypass	3 / 6	45	OL40WS36PB	1SCA022791R1090	10	0.21
	4 / 8	45	OL40WS48PB	1SCA022791R1170	10	0.31
Door mounted, screw mounted handle						
1 - 0 - Bypass	3 / 6	115	OL80WS36RB	1SCA022791R2490	1	0.78
	4 / 8	115	OL80WS48RB	1SCA022791R2900	1	0.89
1 - 0 - Bypass	3 / 6	150	OL125WS36RB	1SCA022791R2570	1	0.78
	4 / 8	150	OL125WS48RB	1SCA022791R3030	1	0.89
1 - 0 - Bypass	3 / 6	175	OL160WS36RB	1SCA022791R2650	1	0.78
	4 / 8	175	OL160WS48RB	1SCA022791R3110	1	0.89
1 - 0 - Bypass	3 / 6	315	OL200WS36RB	1SCA022791R2730	1	6.40
	4 / 8	315	OL200WS48RB	1SCA022791R3200	1	7.50
Without 0-position, step angle 60°, with overlapping, 3 and 4- pole network						
Door mounted, snap-on mounted handle						
1 - Bypass	3 / 6	25	ONPW36PB	1SCA022791R0610	10	0.17
	4 / 8	25	ONPW48PB	1SCA022791R0790	10	0.19
1 - Bypass	3 / 6	45	OL40PW36PB	1SCA022791R1250	10	0.21
	4 / 8	45	OL40PW48PB	1SCA022791R1330	10	0.31
Door mounted, screw mounted handle						
1 - Bypass	3 / 6	115	OL80PW36RB	1SCA022791R3460	1	0.78
	4 / 8	115	OL80PW48RB	1SCA022791R3970	1	0.89
1 - Bypass	3 / 6	150	OL125PW36RB	1SCA022791R3540	1	0.78
	4 / 8	150	OL125PW48RB	1SCA022791R4010	1	0.89
1 - Bypass	3 / 6	175	OL160PW36RB	1SCA022791R3620	1	0.78
	4 / 8	175	OL160PW48RB	1SCA022791R4190	1	0.89
1 - Bypass	3 / 6	315	OL200PW36RB	1SCA022791R3710	1	6.40
	4 / 8	315	OL200PW48RB	1SCA022791R4270	1	7.50

Wiring diagram, bypass switches



Packing sizes for 10 pcs: OM 130 x 100 x 120 [mm]
ON, OL40 250 x 100 x 110 [mm]

Handles

The type and the ordering number are for one piece.

Colour	For cam switches	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
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Snap on handle with front plate without engraving

(The black handle is standard delivery in types OM, ON, and OL40)

Size 30x30

Black	OM	OMPB1	1SCA022553R7470	5	0.05
Gray	OM	OMPG1	1SCA022553R8010	5	0.05
Red	OM	OMPR1	1SCA022796R2830	5	0.05
Red-yellow	OM	OMPRY1	1SCA022796R2910	5	0.05

Size 48x48

Black	ON_PB, OL40	ONPB1	1SCA022553R7550	5	0.08
Gray	ON_PB, OL40	ONPG1	1SCA022553R7630	5	0.08
Red	ON_PB, OL40	ONPR1	1SCA022796R3050	5	0.08
Red-yellow	ON_PB, OL40	ONPRY1	1SCA022796R3130	5	0.08

Snap on handle with large front plate without engraving

Size 64x64

Black	ON_PB, OL40	ONPLB1	1SCA022776R5680	5	0.10
Gray	ON_PB, OL40	ONPLG1	1SCA022776R5760	5	0.10
Red	ON_PB, OL40	ONPLR1	1SCA022776R5840	5	0.10
Red-yellow	ON_PB, OL40	ONPLRY1	1SCA022796R3130	5	0.10

Screw mounting handle with front plate without engraving

(The black handle is standard delivery in types OL 80...200)

Size 90x90

Black	OL80, OL125, OL160	OLR2B	1SCA022796R3720	10	0.10
Gray	OL80, OL125, OL160	OLR2G	1SCA022796R3810	10	0.10
Red	OL80, OL125, OL160	OLR2R	1SCA022796R3990	10	0.10

Size 130x130

Black	OL200	OLR3B	1SCA022796R4110	10	0.10
Gray	OL200	OLR3G	1SCA022796R4290	10	0.10
Red	OL200	OLR3R	1SCA022796R4370	10	0.10

Snap on handle with round escutcheon plate

Black	OM	OMXB1	1SCA022629R7270	5	0.02
Black, nose-type	OM	OMXNB1	1SCA022577R9810	5	0.02
Black	ON_PB, OL40	ONXB1	1SCA022629R7350	5	0.02

More cam switches with padlockable handles can be configured on Internet by the Camweb configurator tool.

Optional handles

The type and the ordering number are for one piece.

Colour	For cam switches	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
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Low extended handle knob

Replaces the standard knob in handles ONP_ and ONPL_.

Black	ON_, OL40_	ONSB1	1SCA100878R1001	5	0.02
Grey	ON_, OL40_	ONSG1	1SCA100879R1001	5	0.02

Hand grip handle, screw mounting

Black		OLHSD1	1SCA022765R2480	1	0.38
Grey		OLHGD1	1SCA022765R2560	1	0.38
Red		OLHRD1	1SCA022765R2640	1	0.38

Ball grip handle, screw mounting

Black		OLISD1	1SCA022820R3380	1	0.25
Grey		OLIGD1	1SCA022820R3460	1	0.25
Red		OLIRD1	1SCA022820R3540	1	0.25

Pistol type handle, screw mounting

Black	OL80, OL125, OL160	OLZ2RB	1SCA022796R4530	10	0.10
Red	OL80, OL125, OL160	OLZ2RR	1SCA022796R4610	10	0.10
Black	OL200	OLZ3RB	1SCA022796R4700	10	0.2
Red	OL200	OLZ3RR	1SCA022796R4880	10	0.2

Double lever handle, screw mounting

Black	OL200	OLZ3DB	1SCA022796R4960	1	0.3
Red	OL200	OLZ3DR	1SCA022796R5000	1	0.3

Padlockable handle knob, without front plate

The standard handle knob is replaced by the padlockable handle knob. For max 2 padlocks of 6 mm hasp diameter. Standard padlocking in the OFF-position at 9 o'clock. Padlocking in the ON-position (12 o'clock) by turning the control piece 180 degrees. Padlocking in both OFF-and ON-positions by removing a precut in the yellow control piece.

Black	ON_PB, ON_M, OL40	ONZ20B	1SCA022621R1810	5	0.06
Red-yellow	ON_PB, ON_M, OL40	ONZ20RY	1SCA022621R1900	5	0.06

Round padlockable handle for mounting on door

For max 3 padlocks with max 8 mm hasp diameter, locking position 9 o'clock (O, OFF). Locking positions 12 o'clock (1, ON) or when switch rotated. More locking possibilities with programmable square handle type _ 5 _ can be specified by the camweb tool.

Colour	For cam switches	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
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Snap on mounting handle, IP65, NMEA 4 x, size 66x66, shaft 6 mm

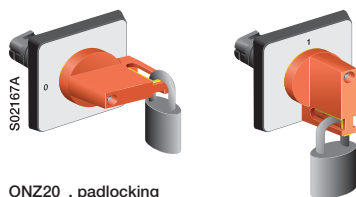
Black	ON_PB, OL40_PB	OZ331PB	1SCA100657R1001	10	0.04
Red-yellow	ON_PB, OL40_PB	OZ331PRY	1SCA100664R1001	10	0.04

Screw mounting handle, IP65, NMEA 4 x, size 66x66, shaft 6 mm

Black	ON_RB, OL40_RB	OZ331RB	1SCA100702R1001	10	0.04
Red-yellow	ON_RB, OL40_RB	OZ331RRY	1SCA100678R1001	10	0.04

Screw mounting handle, IP65, NMEA 4 x, size 90x90, shaft 8 mm

Black	OL80, OL125, OL160	OLZ332RB	1SCA022794R7790	10	0.10
Red-yellow	OL80, OL125, OL160	OLZ332RRY	1SCA022794R7870	10	0.10



More cam switches with padlockable handles can be configured on Internet by the Camweb configurator tool.



ONSB1



OLHSD1



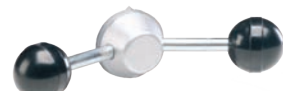
OLISD1



OLZ2RB



OLZ3RB



OLZ3DB



ONZ20B



ONZ20RY



OZ331_B



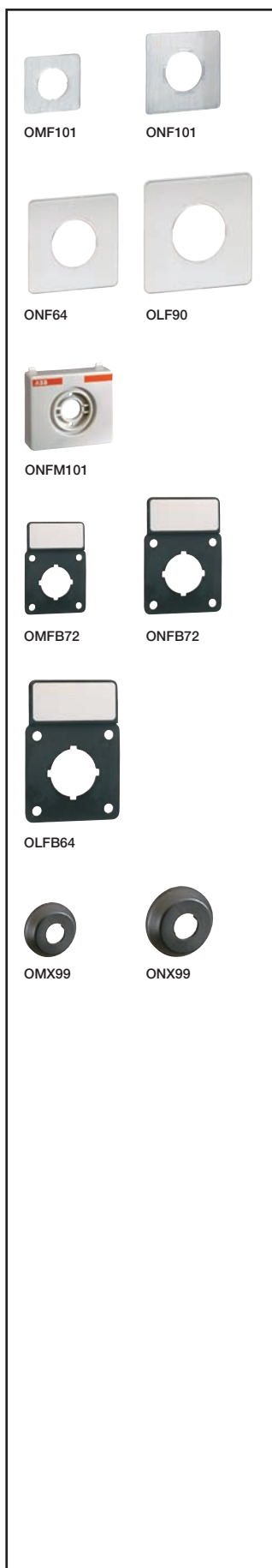
OZ331_RY



OLZ332RB



OLZ332RRY



Front plates

The type and the ordering number are for one piece.

Colour	For cam switches/ handle size	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
Front plates, without engraving					
Size 30x30					
Silver	OM/OMP_1	OMF101	1SCA022540R4590	10	0.003
Yellow	OM/OMPR41	OMFY101	1SCA022796R3210	10	0.003
Size 48x48					
Silver	ON_PB, OL 40/ONP_1	ONF101	1SCA022540R6290	10	0.003
Yellow	ON_PB, OL 40/ONPRY1	ONFY101	1SCA022716R4250	10	0.003
Size 64x64					
Silver	ONPL_1	OLF64	1SCA022798R6260	10	0.003
Yellow	ONPLR41	OLFY64	1SCA022798R6340	10	0.003
Size 90x90					
Silver	OL80, OL125, OL160/OLR2_	OLF90	1SCA022796R5180	10	0.01
Yellow	OL80, OL125, OL160/OLR2_	OLFY90	1SCA022796R5260	10	0.01
Size 130x130					
Silver	OL200/OLR3_	OLF130	1SCA022796R5420	10	0.01
Yellow	OL200/OLR3_	OLFY130	1SCA022796R5340	10	0.01
Size H=45mm, W=54mm					
Grey	ON_M	ONFM101	1SCA022553R8520	10	0.01

Additional lettering plates

Without engraving, black engraving from front side available.

Size 30x30					
Black frame	OM	OMFB72	1SCA022555R4990	5	0.01
Grey frame	OM	OMFG72	1SCA022556R1850	5	0.01
Size 48x48					
Black frame	ON_PB, OL 40	ONFB72	1SCA022555R5020	5	0.01
Grey frame	ON_PB, OL 40	ONFG72	1SCA022556R1930	5	0.01
Size 64x64					
Black frame	ON_PB, OL 40	OLFB64	1SCA022796R3300	10	0.01
Grey frame	ON_PB, OL 40	OLFG64	1SCA022796R3480	10	0.01

Front ring

Black	OM	OMX99	1SCA022553R8100	10	0.01
Black	ON_PB, OL40	ONX99	1SCA022553R7710	10	0.01

Shaft sealing

To prevent dust and moisture penetrating along the switch shaft when no handle is installed. Protection to IP 65 from the front. Door drilling 16...17 mm.

For cam switches	Type	Order number	Delivery batch [pcs]	Weight [kg]
ON, OL40	ONZ11	1SCA022807R0300	10	0.01
OL 80...160	OLZ12	1SCA022807R0560	10	0.01



OMK95



ONZ10L_



OMNX80



ONX30

ONZ37



ONZ74_



ONZ45P
ONZ65_

Other accessories

The type and the ordering number are for one piece.

Spare key

The keynumber has to be mentioned when ordering.

Number of keys included	For cam switches	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
2 pcs	OM, ON, OL40	OMK95	1SCA022553R8360	2	0.01

Protective rear cover

Transparent, IP 42 protection

Number of chambers	Number of contacts	For cam switches	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
1-2	2-4	ON	ONZ10L2	1SCA022621R1570	1	0.02
3-4	6-8	ON	ONZ10L4	1SCA022621R1650	1	0.04
5-6	10-12	ON	ONZ10L6	1SCA022621R1730	1	0.06
2		OL40	OLZ401L2	1SCA022805R9910	1	
4		OL40	OLZ401L4	1SCA022806R0090	1	
6		OL40	OLZ401L6	1SCA022806R0170	1	
2		OL80...160	OLZ1601L2	1SCA022806R0250	1	
4		OL80...160	OLZ1601L4	1SCA022806R0330	1	
6		OL80...160	OLZ1601L6	1SCA022806R0410	1	

Nut spanner

for mounting the handle to the door

Colour	For cam switches	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
Black	OM, ON	OMNX80	1SCA022553R8440	1	0.02

Adaptor ring

for fixing the snap-on handles in the 30 mm door drilling.

Black	ON	ONX30	1SCA022643R8510	10	0.01
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Base mounting kit

Includes base for DIN-rail mounting, shaft adaptor and 200 mm shaft for cutting up to 250 mm panel depth.

Depth [mm]	For cam switches	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
250	ON	ONZ74	1SCA022757R3510		0.05

DIN-Rail mounting plate

Includes base for DIN-rail mounting.

	ON, OL40	ONZ37	1SCA022789R8810	1	0.02
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Door coupling kits for base mounting switches

For snap-on type handle

	ON, OL40	ONZ45P	1SCA022819R5850	1	0.01
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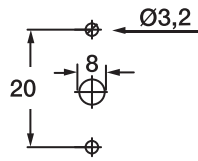
For screw mounted handle

	OL80...160	OLZ652	1SCA022819R5930	1	0.02
	OL200	OLZ653	1SCA022819R6070	1	0.02

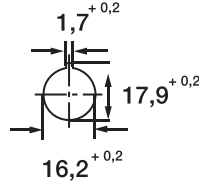
Rotary change-over cam switches

Dimension drawings, OM and ON

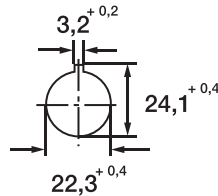
OM



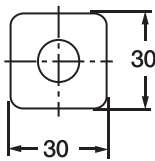
R-type



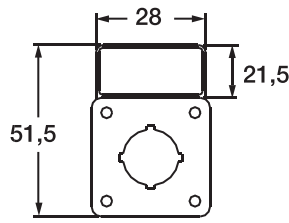
P, K and X-type



P, K and X-type



P, R and K-type

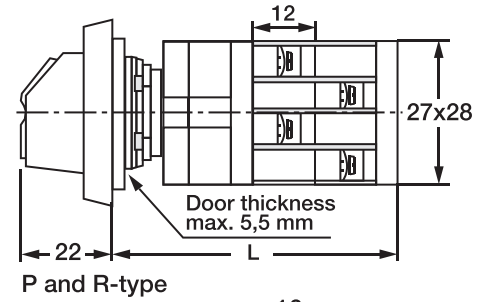


P, R and K-type

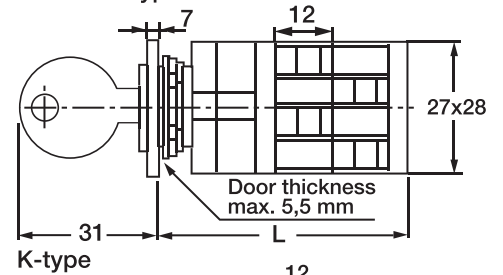
KE00033

Number of contact chambers

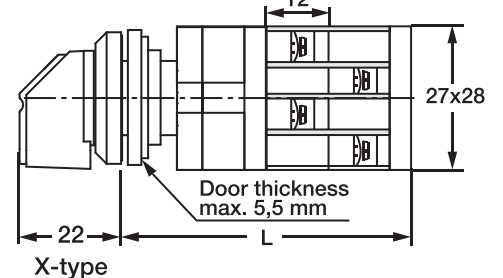
		1	2	3	4	5	6	7	8
Snap-on mounting (P type)	L	45	57	69	81	90	105	117	129
Screw mounting (R type)	L	33	45	57	69	81	93	105	117
Key operated (K-type)	L	45	57	69	81	90	105	117	129
Round front ring (X-type)	L	45	57	69	81	90	105	117	129



P and R-type

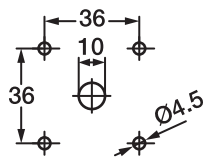


K-type

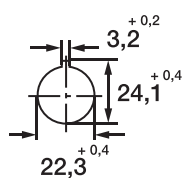


X-type

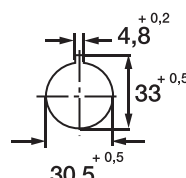
ON



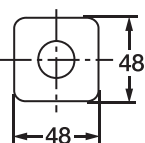
R-type



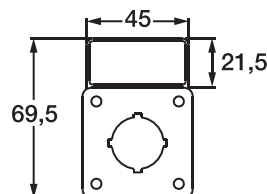
P, K and X-type



P, K and X-type



P, R and K-type

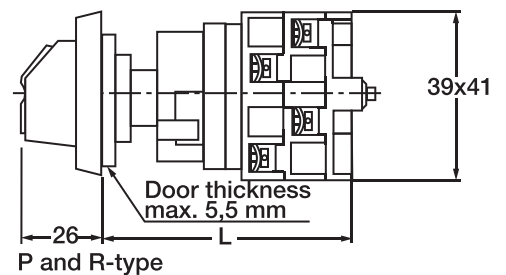


P, R and K-type

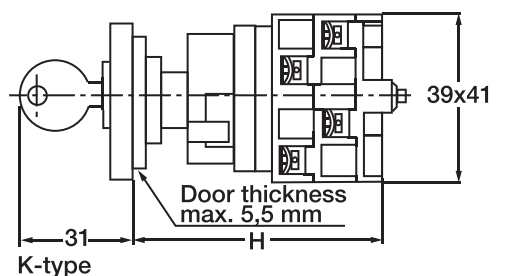
KE00034

Number of contact chambers

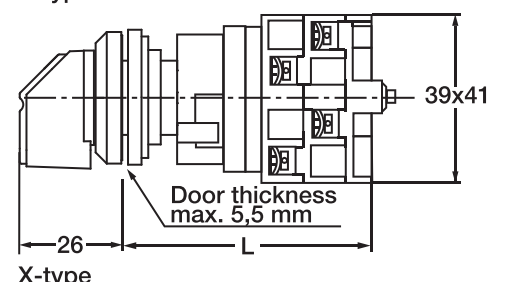
		1	2	3	4	5	6	7	8	9	10
Snap-on mounting (P-type)	L	54	66	78	90	102	114	126	138	150	162
Screw mounting (R-type)	L	34	46	58	70	82	94	106	118	130	142
Key operated (K-type)	H	62	74	86	98	110	122	134	146	159	171
Round front ring (X-type)	L	54	66	78	90	102	114	126	138	150	162



P and R-type

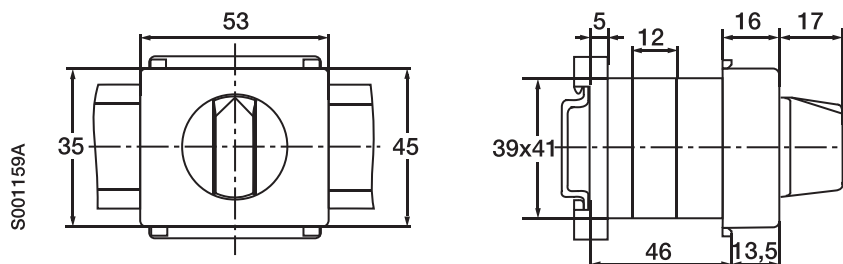


K-type

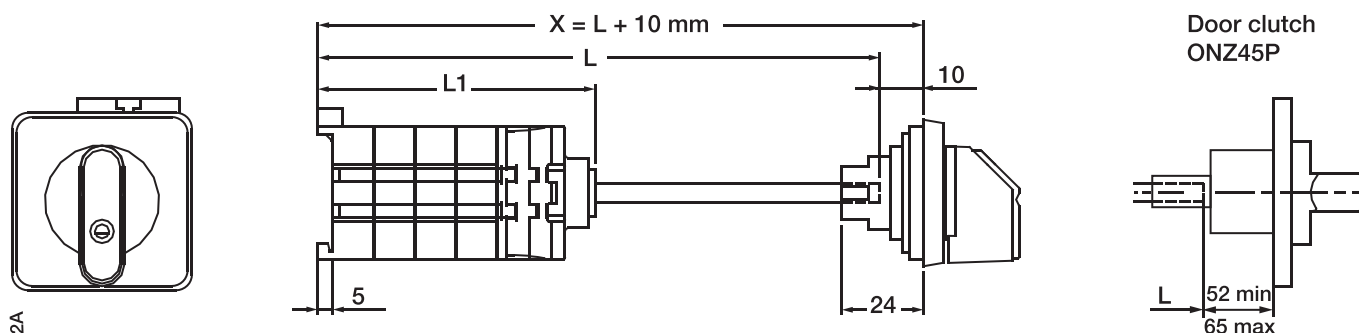


X-type

ON_M

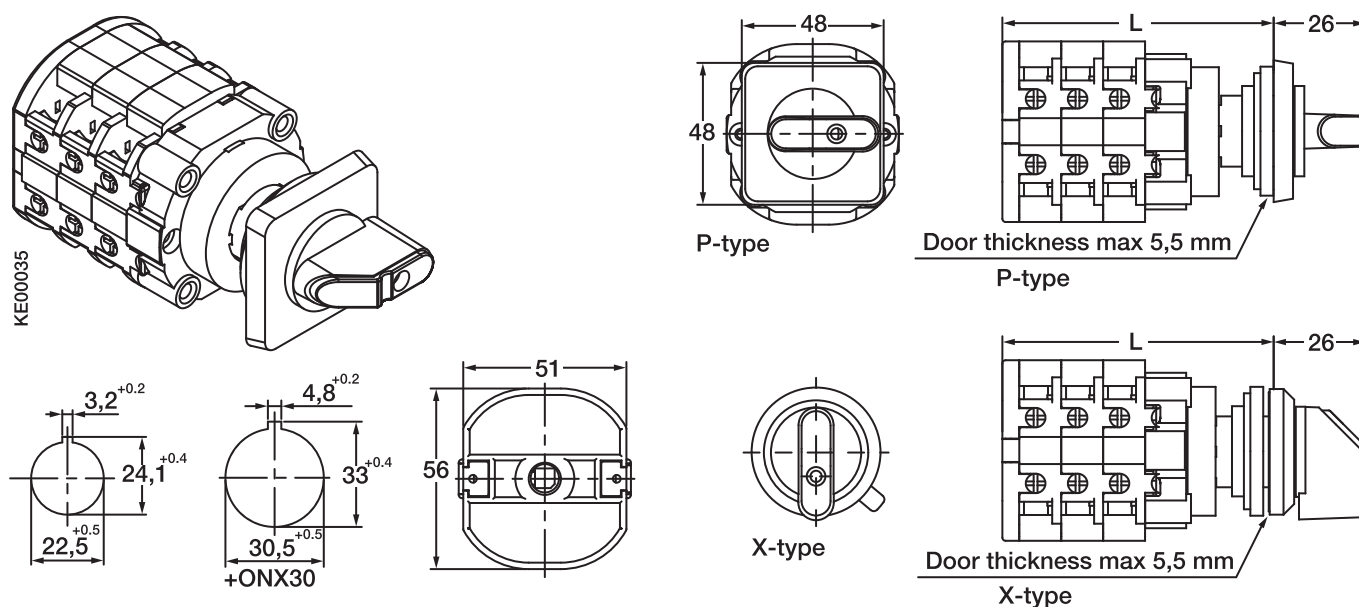


ON with base mounting, type _ B _ to be specified by Camweb configurator



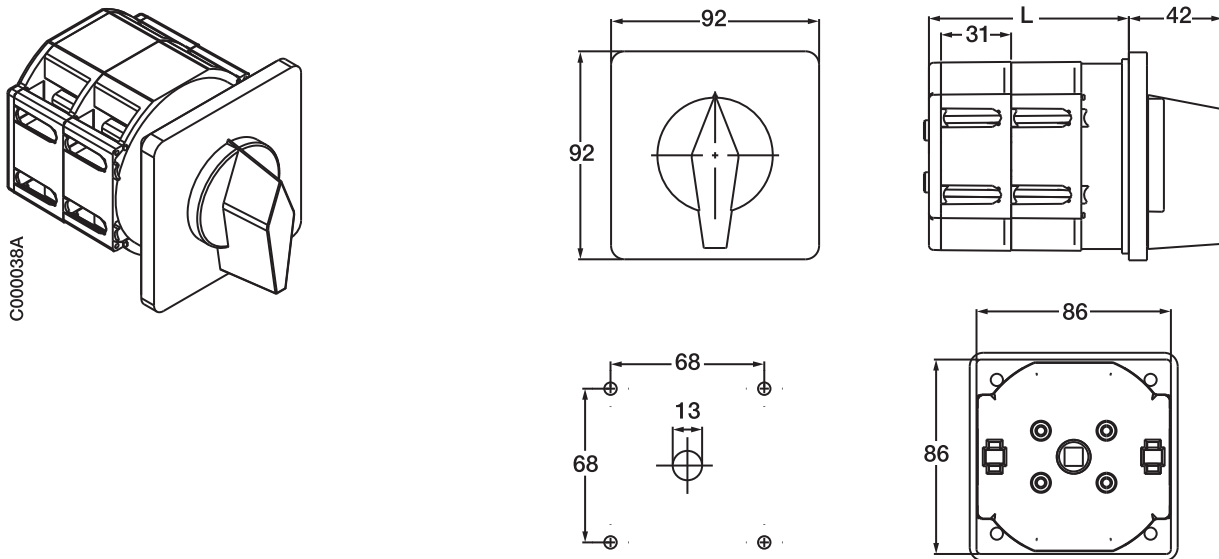
	Number of contact chambers/example: Shaft length 200 mm									
	1	2	3	4	5	6	7	8	9	10
L ₁	55	67	79	91	103	115	127	139	151	163
L	345	357	369	381	393	405	417	429	441	453

OL40, door mounted with snap-on mounting handle, type _ P _ and round front ring, type _ X _.



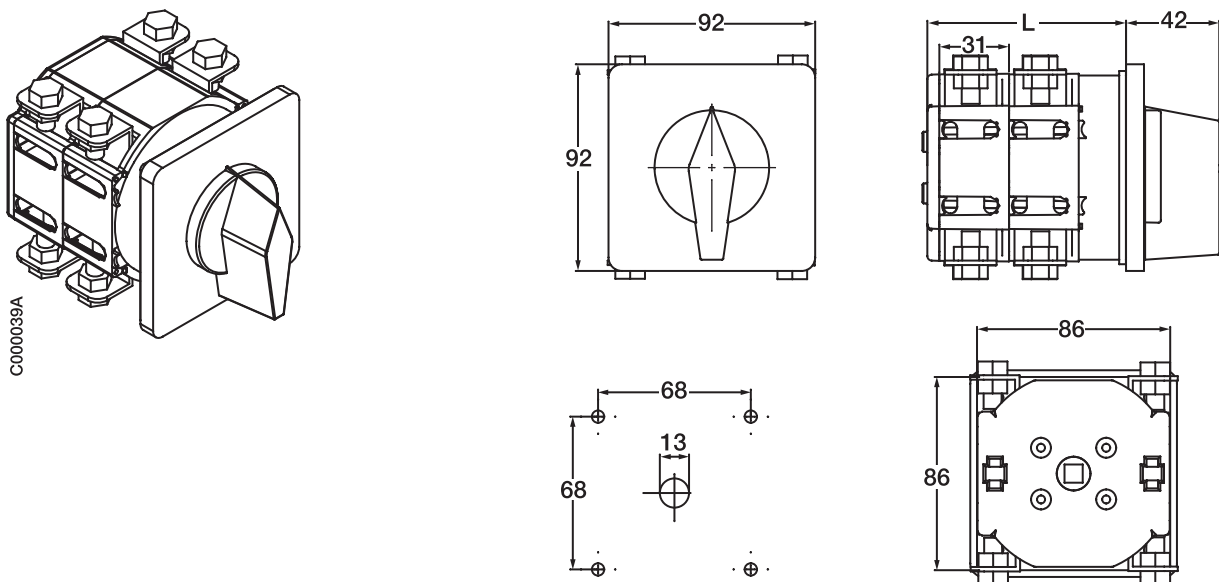
	Number of contact chambers									
	1	2	3	4	5	6	7	8	9	10
L	59	72	85	98	111	124	137	150	163	176

OL80, OL125, OL160 door mounted



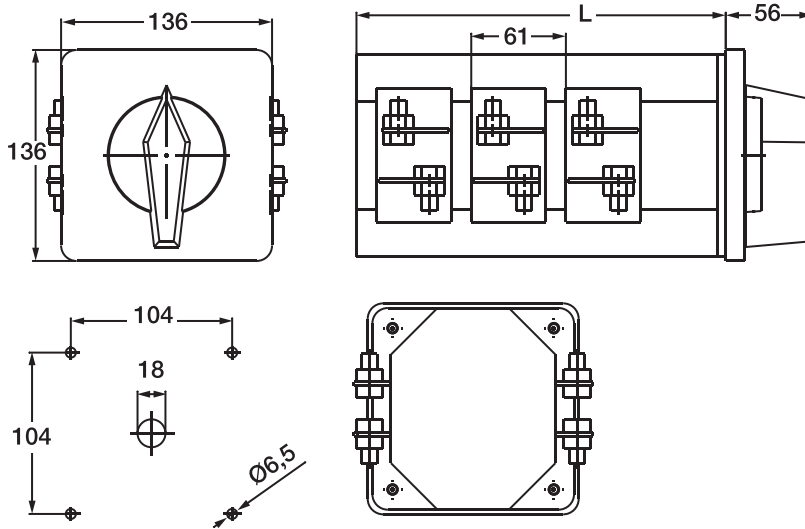
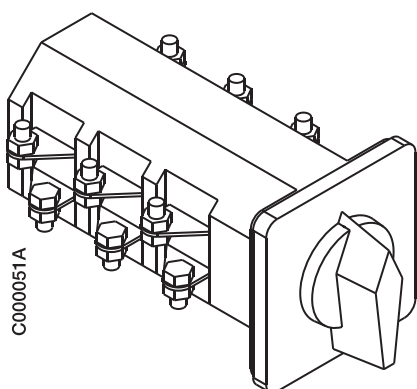
	Number of contact chambers									
	1	2	3	4	5	6	7	8	9	10
L	66	97	128	159	190	221	252	283	314	345

OL80, OL125, OL160 door mounted, lug terminals - to be specified by Camweb configurator



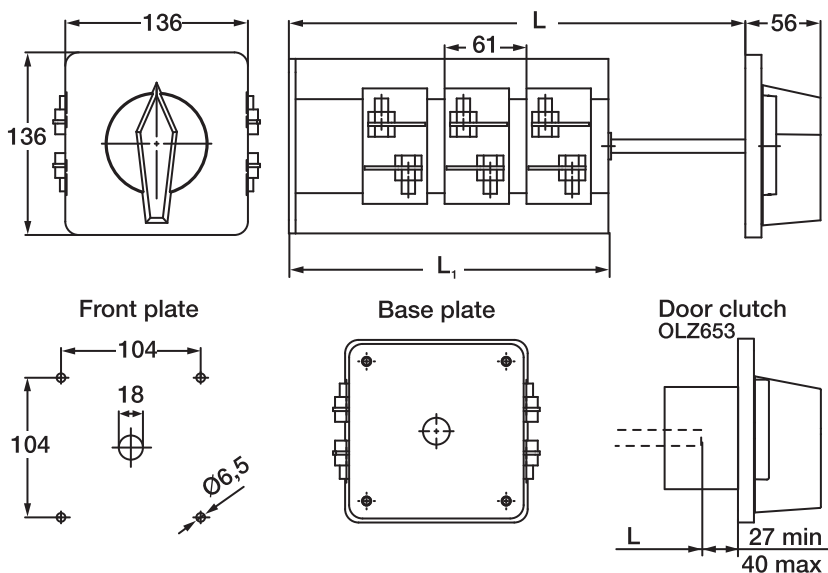
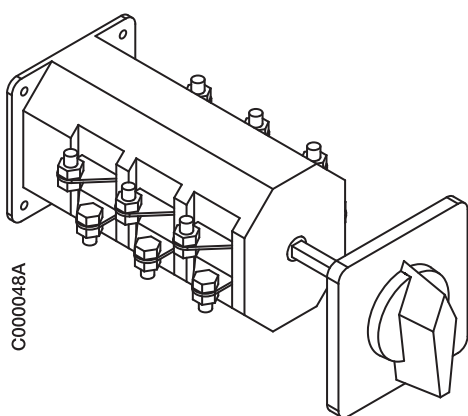
	Number of contact chambers									
	1	2	3	4	5	6	7	8	9	10
L	66	97	128	159	190	221	252	283	314	345

OL200 door mounted



	Number of contact chambers									
	1	2	3	4	5	6	7	8	9	10
L	120	181	242	303	364	425	486	547	608	669

OL200 base mounted - to be specified by Camweb configurator



	Number of contact chambers/example: Shaft length 100 mm									
	1	2	3	4	5	6	7	8	9	10
L _i	120	181	242	303	364	425	486	547	608	669
L	220	281	342	403	464	525	586	647	708	769



Type	Order number	Page	Description
OHB175J12E311	1SCA022615R1810	21	External handle
OHBS2	1SCA109089R1001	21	Handle knob
OHBS2/1	1SCA109090R1001	21	Handle knob
OHB200J12PE011	1SCA022873R4230	21	External handle
OHB200J12PE311	1SCA104685R1001	21	External handle
OHB275J12E16	1SCA022690R0350	22	Pistol handle
OHBS2AJE011	1SCA105220R1001	21	External handle
OHBS3	1SCA108320R1001	21	Handle knob
OHBS3/1	1SCA108319R1001	21	Handle knob
OHB45J6E011	1SCA022594R7110	21	External handle
OHB45J6E311	1SCA022817R2130	21	External handle
OHB65J6E011	1SCA022383R2480	21	External handle
OHB65J6E311	1SCA022662R4730	21	External handle
OHBS9	1SCA108665R1001	21	Handle knob
OHBS9/1	1SCA108689R1001	21	Handle knob
OHB95J12E011	1SCA022621R0760	21	External handle
OHB95J12E311	1SCA022779R2140	21	External handle
OHR512	1SCA108253R1001	21	Handle knob
OHR512/1	1SCA109097R1001	21	Handle knob
OHR52	1SCA108598R1001	21	Handle knob
OHR52/1	1SCA108599R1001	21	Handle knob
OHR53	1SCA108667R1001	21	Handle knob
OHR53/1	1SCA108688R1001	21	Handle knob
OHR59	1SCA108666R1001	21	Handle knob
OHR59/1	1SCA108690R1001	21	Handle knob
OHY125J12E011	1SCA022615R1650	21	External handle
OHY175J12E011	1SCA022461R1920	21	External handle
OHY200J12PE011	1SCA104686R1001	21	External handle
OHY2AJE011	1SCA105301R1001	21	External handle
OHY45J6E011	1SCA022817R2210	21	External handle
OHY45J6E311	1SCA022817R2300	21	External handle
OHY65J6E011	1SCA022779R1840	21	External handle
OHY95J12E011	1SCA022621R0920	21	External handle
OT1000E03CP	1SCA022872R1680	15	Manual change-over switch
OT1000E04CP	1SCA022872R1500	15	Manual change-over switch
OT1000E12CP	1SCA103287R1001	15	Manual change-over switch
OT1000E13CP	1SCA103291R1001	15	Manual change-over switch
OT1000E22CP	1SCA103289R1001	15	Manual change-over switch
OT100F3C	1SCA105008R1001	15	Manual change-over switches
OT100F4C	1SCA105019R1001	15	Manual change-over switches
OT1250E03CP	1SCA022872R0790	16	Manual change-over switch
OT1250E04CP	1SCA022872R1250	16	Manual change-over switch
OT1250E12CP	1SCA103308R1001	16	Manual change-over switch
OT1250E13CP	1SCA103313R1001	16	Manual change-over switch
OT1250E22CP	1SCA103311R1001	16	Manual change-over switch
OT125F3C	1SCA105037R1001	15	Manual change-over switches
OT125F4C	1SCA105054R1001	15	Manual change-over switches
OT1600E03CP	1SCA022872R1840	16	Manual change-over switch
OT1600E04CP	1SCA022872R2310	16	Manual change-over switch
OT1600E12CP	1SCA103293R1001	16	Manual change-over switch
OT1600E13CP	1SCA103306R1001	16	Manual change-over switch
OT1600E22CP	1SCA103303R1001	16	Manual change-over switch
OT160E03CP	1SCA022772R6510	15	Manual change-over switch
OT160E03WCP	1SCA022772R8210	15	Manual change-over switch
OT160E04CP	1SCA022775R9440	15	Manual change-over switch
OT160E04WCP	1SCA022775R0220	15	Manual change-over switch
OT160E12CP	1SCA022776R9080	15	Manual change-over switch
OT160E13CP	1SCA022777R0170	15	Manual change-over switch
OT16F3C	1SCA104816R1001	15	Manual change-over switches
OT16F4C	1SCA104831R1001	15	Manual change-over switches
OT2000E03CP	1SCA103908R1001	16	Manual change-over switch



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Type	Order number	Page	Description
OT2000E04CP	1SCA103912R1001	16	Manual change-over switch
OT2000E12CP	1SCA103915R1001	16	Manual change-over switch
OT2000E13CP	1SCA103918R1001	16	Manual change-over switch
OT2000E22CP	1SCA103953R1001	16	Manual change-over switch
OT200E03CP	1SCA022771R7520	15	Manual change-over switch
OT200E03WCP	1SCA022772R8720	15	Manual change-over switch
OT200E04CP	1SCA022771R7280	15	Manual change-over switch
OT200E04WCP	1SCA022775R0650	15	Manual change-over switch
OT200E12CP	1SCA022776R8510	15	Manual change-over switch
OT200E13CP	1SCA022777R0250	15	Manual change-over switch
OT200U03CP	1SCA022771R5910	19	Transfer switch
OT200U04CP	1SCA022771R6210	19	Transfer switch
OT2500E03CP	1SCA105615R1001	16	Manual change-over switch
OT2500E04CP	1SCA103906R1001	16	Manual change-over switch
OT2500E12CP	1SCA103891R1001	16	Manual change-over switch
OT2500E13CP	1SCA103895R1001	16	Manual change-over switch
OT2500E22CP	1SCA103902R1001	16	Manual change-over switch
OT250E03CP	1SCA022771R3450	15	Manual change-over switch
OT250E03WCP	1SCA022772R8300	15	Manual change-over switch
OT250E04CP	1SCA022775R4640	15	Manual change-over switch
OT250E04WCP	1SCA022775R0810	15	Manual change-over switch
OT250E12CP	1SCA022776R9320	15	Manual change-over switch
OT250E13CP	1SCA022777R0330	15	Manual change-over switch
OT25F3C	1SCA104863R1001	15	Manual change-over switches
OT25F4C	1SCA104877R1001	15	Manual change-over switches
OT315E03CP	1SCA022772R6780	15	Manual change-over switch
OT315E04CP	1SCA022775R7150	15	Manual change-over switch
OT315E12CP	1SCA022776R9910	15	Manual change-over switch
OT315E13CP	1SCA022777R0410	15	Manual change-over switch
OT40F3C	1SCA104913R1001	15	Manual change-over switches
OT40F4C	1SCA104934R1001	15	Manual change-over switches
OT400E03CP	1SCA022771R8500	15	Manual change-over switch
OT400E04CP	1SCA022771R8680	15	Manual change-over switch
OT400E12CP	1SCA022776R9590	15	Manual change-over switch
OT400E13CP	1SCA022777R0500	15	Manual change-over switch
OT400U03CP	1SCA022771R2810	19	Transfer switch
OT400U04CP	1SCA022771R2300	19	Transfer switch
OT63F3C	1SCA105338R1001	15	Manual change-over switches
OT63F4C	1SCA105369R1001	15	Manual change-over switches
OT600U03CP	1SCA022785R5320	19	Transfer switch
OT600U04CP	1SCA022785R5410	19	Transfer switch
OT630E03CP	1SCA022785R6050	15	Manual change-over switch
OT630E04CP	1SCA022785R6130	15	Manual change-over switch
OT630E12CP	1SCA022785R8690	15	Manual change-over switch
OT630E13CP	1SCA022785R9070	15	Manual change-over switch
OT80F3C	1SCA105402R1001	15	Manual change-over switches
OT80F4C	1SCA105418R1001	15	Manual change-over switches
OT800E03CP	1SCA022785R6300	15	Manual change-over switch
OT800E04CP	1SCA022785R6210	15	Manual change-over switch
OT800E12CP	1SCA022785R8850	15	Manual change-over switch
OT800E13CP	1SCA022785R9230	15	Manual change-over switch
OTB1600/6C	1SCA104661R1001	26	Phase separator
OTB800/6C	1SCA107272R1001	26	Phase separator
OTM160E3CM110V	1SCA022845R8530	17	Change-over switch, motor operation
OTM160E3CM230C	1SCA022845R8610	17	Change-over switch, motor operation
OTM160E3CM24D	1SCA022845R8110	17	Change-over switch, motor operation
OTM160E3CM48D	1SCA022845R8450	17	Change-over switch, motor operation
OTM160E3WCM110V	1SCA022846R3450	17	Change-over switch, motor operation
OTM160E3WCM230C	1SCA022846R4000	17	Change-over switch, motor operation
OTM160E3WCM24D	1SCA022846R3290	17	Change-over switch, motor operation
OTM160E3WCM48D	1SCA022846R3370	17	Change-over switch, motor operation

Type	Order number	Page	Description
OTM160E4CM110V	1SCA022846R1080	17	Change-over switch, motor operation
OTM160E4CM230C	1SCA022848R1510	17	Change-over switch, motor operation
OTM160E4CM24D	1SCA022846R0860	17	Change-over switch, motor operation
OTM160E4CM48D	1SCA022846R0940	17	Change-over switch, motor operation
OTM160E4WCM110V	1SCA022846R7360	17	Change-over switch, motor operation
OTM160E4WCM230C	1SCA022846R7440	17	Change-over switch, motor operation
OTM160E4WCM24D	1SCA022846R7100	17	Change-over switch, motor operation
OTM160E4WCM48D	1SCA022846R7280	17	Change-over switch, motor operation
OTM200E3CM110V	1SCA022845R8880	17	Change-over switch, motor operation
OTM200E3CM230C	1SCA022845R8960	17	Change-over switch, motor operation
OTM200E3CM24D	1SCA022845R8290	17	Change-over switch, motor operation
OTM200E3CM48D	1SCA022845R8700	17	Change-over switch, motor operation
OTM200E3WCM110V	1SCA022846R3880	17	Change-over switch, motor operation
OTM200E3WCM230C	1SCA022846R3960	17	Change-over switch, motor operation
OTM200E3WCM24D	1SCA022846R3610	17	Change-over switch, motor operation
OTM200E3WCM48D	1SCA022846R3700	17	Change-over switch, motor operation
OTM200E4CM110V	1SCA022846R1410	17	Change-over switch, motor operation
OTM200E4CM230C	1SCA022846R1590	17	Change-over switch, motor operation
OTM200E4CM24D	1SCA022846R1240	17	Change-over switch, motor operation
OTM200E4CM48D	1SCA022846R1320	17	Change-over switch, motor operation
OTM200E4WCM110V	1SCA022846R7790	17	Change-over switch, motor operation
OTM200E4WCM230C	1SCA022846R7870	17	Change-over switch, motor operation
OTM200E4WCM24D	1SCA022846R7520	17	Change-over switch, motor operation
OTM200E4WCM48D	1SCA022846R7610	17	Change-over switch, motor operation
OTM250E3CM110V	1SCA022845R9180	17	Change-over switch, motor operation
OTM250E3CM230C	1SCA022845R9260	17	Change-over switch, motor operation
OTM250E3CM24D	1SCA022845R8370	17	Change-over switch, motor operation
OTM250E3CM48D	1SCA022845R9000	17	Change-over switch, motor operation
OTM250E3WCM110V	1SCA022846R4690	17	Change-over switch, motor operation
OTM250E3WCM230C	1SCA022846R4770	17	Change-over switch, motor operation
OTM250E3WCM24D	1SCA022846R4420	17	Change-over switch, motor operation
OTM250E3WCM48D	1SCA022846R4510	17	Change-over switch, motor operation
OTM250E4CM110V	1SCA022846R1830	17	Change-over switch, motor operation
OTM250E4CM230C	1SCA022846R1910	17	Change-over switch, motor operation
OTM250E4CM24D	1SCA022846R1670	17	Change-over switch, motor operation
OTM250E4CM48D	1SCA022846R1750	17	Change-over switch, motor operation
OTM250E4WCM110V	1SCA022846R8170	17	Change-over switch, motor operation
OTM250E4WCM230C	1SCA022846R8250	17	Change-over switch, motor operation
OTM250E4WCM24D	1SCA022846R7950	17	Change-over switch, motor operation
OTM250E4WCM48D	1SCA022846R8090	17	Change-over switch, motor operation
OTM315E3CM110V	1SCA022847R1120	17	Change-over switch, motor operation
OTM315E3CM230C	1SCA022847R1210	17	Change-over switch, motor operation
OTM315E3CM24D	1SCA022847R0910	17	Change-over switch, motor operation
OTM315E3CM48D	1SCA022847R1040	17	Change-over switch, motor operation
OTM315E4CM110V	1SCA022847R2790	17	Change-over switch, motor operation
OTM315E4CM230C	1SCA022847R2870	17	Change-over switch, motor operation
OTM315E4CM24D	1SCA022847R2520	17	Change-over switch, motor operation
OTM315E4CM48D	1SCA022847R2610	17	Change-over switch, motor operation
OTM400E3CM110V	1SCA022847R1550	17	Change-over switch, motor operation
OTM400E3CM230C	1SCA022847R1630	17	Change-over switch, motor operation
OTM400E3CM24D	1SCA022847R1390	17	Change-over switch, motor operation
OTM400E3CM48D	1SCA022847R1470	17	Change-over switch, motor operation
OTM400E4CM110V	1SCA022847R3170	17	Change-over switch, motor operation
OTM400E4CM230C	1SCA022847R3250	17	Change-over switch, motor operation
OTM400E4CM24D	1SCA022847R2950	17	Change-over switch, motor operation
OTM400E4CM48D	1SCA022847R3090	17	Change-over switch, motor operation
OTM630E3CM110V	1SCA022873R1050	18	Change-over switch, motor operation
OTM630E3CM230C	1SCA103567R1001	18	Change-over switch, motor operation
OTM630E3CM24D	1SCA022873R1210	18	Change-over switch, motor operation
OTM630E3CM48D	1SCA022873R1300	18	Change-over switch, motor operation
OTM630E4CM110V	1SCA022873R1810	18	Change-over switch, motor operation



Type	Order number	Page	Description
OTZR1	1SCA100352R1001	30	Reversing bar
OTZR2	1SCA104647R1001	30	Reversing bar
OTZR3	1SCA100355R1001	30	Reversing bar
OTZW17	1SCA022387R1620	28	By-pass kit
OTZW25	1SCA022778R6920	28	Change-over kit
OTZW26	1SCA022778R7060	28	By-pass kit
OWC6D40	1SCA022865R4550	28	Change-over kit
OWC6D80	1SCA022865R4630	28	Change-over kit
OWC6D125	1SCA104494R1001	28	Change-over kit
EXP12X107	1SCA022029R9750	23	Shaft
EXP12X148	1SCA022658R5570	23	Shaft
EXP12X148	1SCA022658R5570	23	Shaft
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EXP12X325	1SCA022042R5810	23	Shaft
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The operations of the manufacturing plant have been certified.