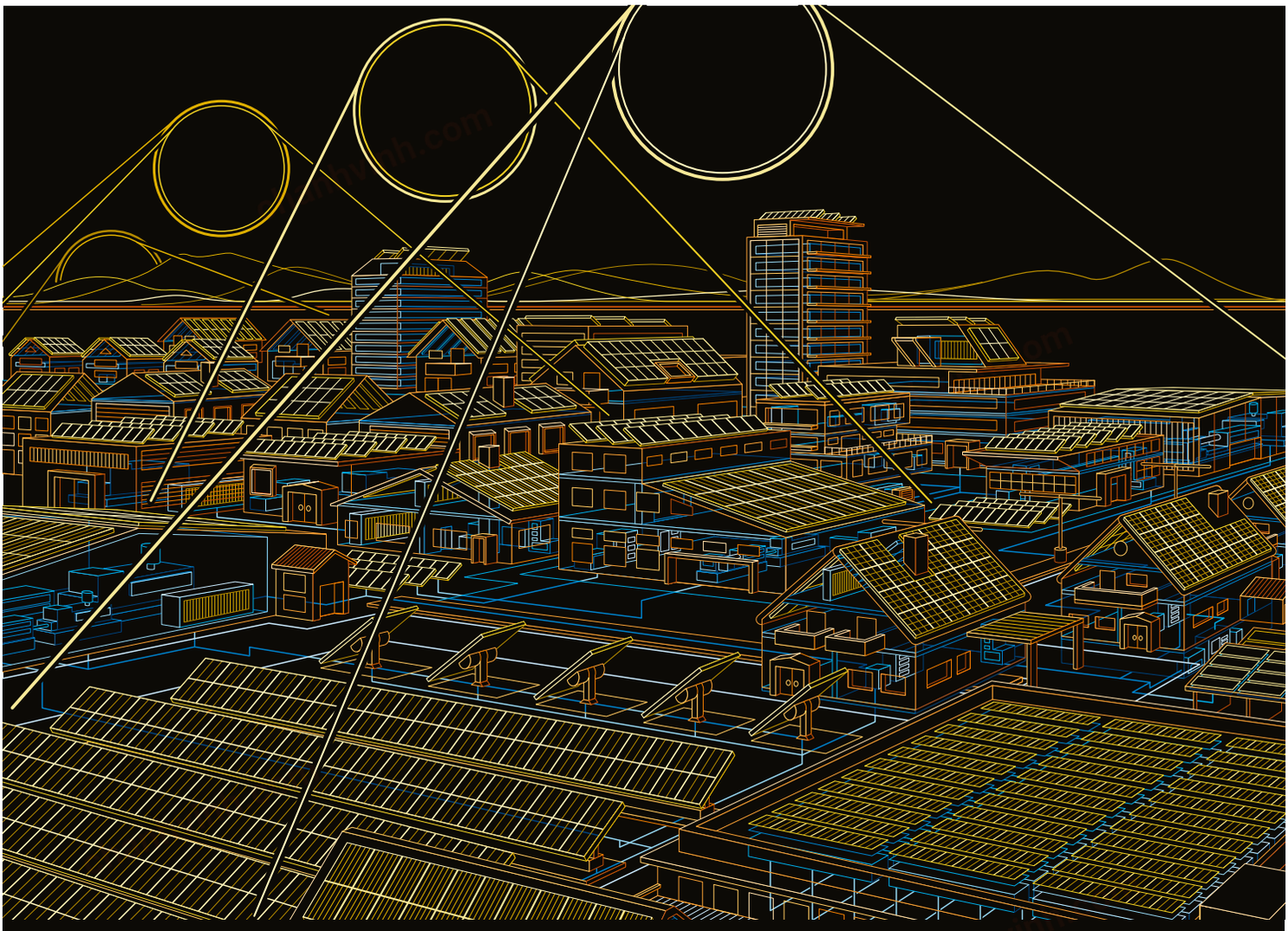
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Breakers and Switches

Switches for PV applications
Switch-disconnectors
OTDC, OT and OTDCP

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Switch-disconnectors OTDC16...250, OT315...630 and OTDCP16...32

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Switch-disconnectors up to 1000 VDC

Switch-disconnectors





	OTDC16F2	OTDC16F3	OTDC16F4
	OTDC25F2	OTDC25F3	OTDC25F4
	OTDC32F2	OTDC32F3	OTDC32F4
U_e [V DC]	**660**	**1000**	**1000 / 2x660**
I_e, DC-21B [A]	16 25 32	16 25 32	16 25 32



	OT315E23P
	OT400E23P
U_e [V DC]	**800**
I_e, DC-21B [A]	315 400

Enclosed switch-disconnectors




	OTDCP16SA11M	OTDCP16S11M
	OTDCP25SA11M	OTDCP25S11M
	OTDCP32SA11M	OTDCP32S11M
U_e [V DC]	**660**	**660**
I_e, DC-21B [A]	16 25 32	16 25 32

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Accessories

Optional handles

Extended shafts

Auxiliary contacts





UL-types
UL98B









OTDC100E02		OTDC100U02	OTDC100US02	OTDC100U11	OTDC100US11
OTDC160E02					
OTDC200E02		OTDC200U02	OTDC200US02	OTDC200U11	OTDC200US11
OTDC250E02					
1000	**U_e [V DC]**	**1000**	**1000**	**1000**	**1000**
100 160 200 250	**Rated current [A]**	100 200	100 200	100 200	100 200







OT315E33P	OT630E23P	OT630E33P
OT400E33P		
1000	**800**	**1000**
315 400	630	630









OTDCP16SA21M	OTDCP16S21M	OTDCP16SA22M	OTDCP16S22M
OTDCP25SA21M	OTDCP25S21M	OTDCP25SA22M	OTDCP25S22M
OTDCP32SA21M	OTDCP32S21M	OTDCP32SA22M	OTDCP32S22M
1000	**1000**	**1000 / 2x660**	**1000 / 2x660**
16 25 32	16 25 32	16 25 32	16 25 32

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Switches for photovoltaic applications
Up to 1000 VDC



ABB's switch offering for PV applications

The switch offering includes switch-disconnectors designed for photovoltaic applications. Switch-disconnectors are typically used to isolate individual strings or arrays of solar panels and battery banks. They can also be used as the main switch for the whole photovoltaic system.

ABB's switches are compact in size, have high DC voltage ratings and unique safety features. The range goes from 16 to 630 Amperes.

OTDC16…32 Amperes

OTDC from 16…32 Amperes have various DC voltage ratings within the same footprint area. Thanks to its modular design the rated operational voltage can be scaled according to your needs, up to 1000 V.

- Reliable PV systems at a wide voltage range

OTDC switch-disconnectors can be DIN rail or screw mounted. Tunnel terminals capture fine stranded wires and

they are wide enough to allow wires up to 16 mm^2. Short-circuit bars are pre-installed as standard.

- Simple and fast installation

OTDC16…32 is also available in a plastic enclosure, suitable for outdoor use. Enclosed OTDCP is made of material resistant to UV light and water exposure. The enclosure has a high degree of protection, IP65. Cover interlock and padlockable handle ensure safe usage.

OTDC…32 switches, with or without enclosure, meet the standard's thermal requirements, even in exceptionally high operating ambient temperatures. The power losses are very low, minimizing the waste of energy.

- Suitable for warm locations
- Maximum energy efficiency of PV systems

OTDC100…250 Amperes

OTDC switches from 100…250 Amperes are the only 2-pole solution in the market with an operational voltage of 1000 VDC. This is possible thanks to carefully optimized arc plates and dual magnetic breaking.

- Breaking power optimized across the entire current range

As a result of a symmetric design, the connections are independent of polarity. The switch works in both ways.

- Simplicity in installation

OTDC is the only DC switch in the market that has visible contacts. The operation of the switch is not vulnerable to voltage peaks and it is independent of the user (quick make-quick brake).

- Safe and reliable operation

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ABB offers a whole range of products dedicated to photovoltaic applications, able to fulfill all installation requirements: from the strings on the direct current side to the grid connection point on the alternate current side.



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Technical data OTDC16...250, OT315...630 and OTDCP16...32

Technical data according to IEC 60947 for switch-disconnectors OTDC and OT

Switch size			A
Rated insulation voltage U_i		Pollution degree 2	V
		Pollution degree 3	V
Dielectric strength		50 Hz 1 min	kV
Rated impulse withstand voltage			kV
Rated thermal current I_{th}		In open air, normal conditions[2]	A
		In enclosure 40°C	A
		In enclosure 60°C	A
...with minimum cable or bar cross section		Cu	mm²
Rated operational current / poles in series		500 V	A
DC-21B		550 V	
		660 V	A
		800 V	
		1000 V	A
		1000 V / 2x660 V[3]	A
Rated short-time withstand current, 1000 V, 1 s		R.M.S. -value I_{cw}	kA
Rated short circuit making capacity, 1000 V		Peak value I_{cm}	kA
		Max. distance from switch frame	
		to nearest busbar / cable support	mm
Power loss / pole		At rated current	W
Cable size		Cu	mm²
Terminal bolt size		Metric thread diameter × length	mm
Terminal tightening torque		Counter torque required	Nm

[1] When used with external handle. For use with direct mounted handle, see installation instructions for restrictions
[2] Normal conditions defined in IEC 60947-1-6.1
[3] 1000 V with all the poles connected in series, 600 V with 2 poles in series

Technical data in accordance to UL98B for switch-disconnectors OTDC100 and OTDC200

Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size			OTDC100	OTDC200
Voltage rating		VDC	1000	1000
Current rating		A	100	200
Rated ambient temperature		°C	-20...+50	-20...+50
Short circuit rating at 1000 VDC		kA	5	5
	Class of fuse		Circuit breaker	Circuit breaker
Mechanical endurance	Divide by two for operation cycles	Oper.	4000	4000
Wire range		MCM	#4-300	#4-300

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OTDC16	OTDC25	OTDC32	OTDC100	OTDC160	OTDC200	OTDC250	OT315	OT400	OT630
1250[1)]	1250[1)]	1250[1)]	1500	1500	1500	1500	1 000	1 000	1 000
1000[1)]	1000[1)]	1000[1)]	1500	1500	1500	1500	1 000	1 000	1 000
6	6	6					10	10	10
8	8	8	12	12	12	12	12	12	12
25	32	45	100	160	200	250	315	400	630
25	32	45	100	160	200	250	315	400	630
25	32	32	80	125	160	200	280	320	500
4	6	10	35	70	95	120	185	240	2x185
			100/1	160/1	200/1	250/1			
							315/4	400/4	600/4
16/2	25/2	32/2							
							315/5	400/5	600/5
16/3	25/3	32/3	100/2	160/2	200/2	250/2	315/6	400/6	600/6
16/4	25/4	32/4							
0.4	0.6	0.8	5	5	5	5	15	15	20
			5	5	5	5			
			150	150	150	150			
0.15	0.3	0.5	2	4	6	9.5	6.5	10	25
2.5...16	2.5...16	2.5...16							
			M8x25	M8x25	M8x25	M8x25	M10x30	M10x30	M12x40
			15-22	15-22	15-22	15-22	30-44	30-44	50-75

Technical data according to IEC 60947 for enclosed switch-disconnectors OTDCP

Switch size		A	OTDCP16	OTDCP25	OTDCP32
Rated insulation voltage	Pollution degree 2	V	1250	1250	1250
	Pollution degree 3	V	1000	1000	1000
Dielectric strength	50 Hz 1 min	kV	6	6	6
Rated impulse withstand voltage		kV	8	8	8
Rated thermal current I_{th}					
DC-20	In enclosure 40°C	A	25	32	45
	In enclosure 60°C	A	25	32	32
Rated operational current / poles in series	660 V	A	16/2	25/2	32/2
DC-21B	1000 V	A	16/3	25/3	32/3
	1000 V / 2x660 V[4)]	A	16/4	25/4	32/4
Rated short-time withstand current, 1000 V, 1 s	R.M.S. -value I_{cw}	kA	0.4	0.6	0.8
Power loss / pole	At rated current	W	0.15	0.3	0.5

[4)] 1000 V with all the poles connected in series, 600 V with 2 poles in series

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Ordering information
Front operated switch-disconnectors

OTDC16...32F2



OTDC16...32F3



OTDC16...32F4



Switch-disconnectors OTDC_, base or DIN-rail mounting

Types OTDC16...32 include protected terminal clamps, IP20. Shafts and handles need to be ordered separetely. The type and the ordering numbers are for one piece.

Up to 660 VDC

Number of poles	I_{th} (open) [A]	Rated operat. current [A] DC 21B / 660 V	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
2	25	16	OTDC16F2	1SCA121454R1001	10	0.15
2	32	25	OTDC25F2	1SCA121455R1001	10	0.15
2	45	32	OTDC32F2	1SCA121456R1001	10	0.15

Up to 1000 VDC

Number of poles	I_{th} (open) [A]	Rated operat. current [A] DC 21B / 1000 V	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
3	25	16	OTDC16F3	1SCA121457R1001	10	0.20
3	32	25	OTDC25F3	1SCA121458R1001	10	0.20
3	45	32	OTDC32F3	1SCA121459R1001	10	0.20

Up to 1000 VDC or 2x660 VDC[1)]

Number of poles	I_{th} (open) [A]	Rated operat. current [A] DC 21B / 1000 V	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
4	25	16	OTDC16F4	1SCA121461R1001	10	0.25
4	32	25	OTDC25F4	1SCA121462R1001	10	0.25
4	45	32	OTDC32F4	1SCA121463R1001	10	0.25

[1)] 1000 V with all poles in series, 660 V with 2 poles in series

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Ordering information
Front operated switch-disconnectors

OTDC16...32FT2



OTDC16...32FT3



OTDC16...32FT4



Switch-disconnectors OTDC_, door mounting

Types OTDC16...32 include protected terminal clamps, IP20. Shafts and handles need to be ordered separetely. The type and the ordering numbers are for one piece.

Up to 660 VDC

Number of poles	I_{th} (open) [A]	Rated operat. current [A] DC 21B / 660 V	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
2	25	16	OTDC16FT2	1SCA123839R1001		0.15
2	32	25	OTDC25FT2	1SCA123842R1001		0.15
2	45	32	OTDC32FT2	1SCA123845R1001		0.15

Up to 1000 VDC

Number of poles	I_{th} (open) [A]	Rated operat. current [A] DC 21B / 1000 V	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
3	25	16	OTDC16FT3	1SCA123840R1001		0.20
3	32	25	OTDC25FT3	1SCA123843R1001		0.20
3	45	32	OTDC32FT3	1SCA123846R1001		0.20

Up to 1000 VDC or 2x660 VDC[1)]

Number of poles	I_{th} (open) [A]	Rated operat. current [A] DC 21B / 1000 V	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
4	25	16	OTDC16FT4	1SCA123841R1001		0.25
4	32	25	OTDC25FT4	1SCA123844R1001		0.25
4	45	32	OTDC32FT4	1SCA123847R1001		0.25

[1)] 1000 V with all poles in series, 660 V with 2 poles in series

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Ordering information
Front operated switch-disconnectors

OT315...400E23P



OT630E23P



OT630E23P31



OTDC100...250E02



OT315-400E33P



OT630E33P



OT630E33P31



Switch-disconnectors OTDC_ and OT_, base mounting

Up to 800 VDC

Types OT315...630 including terminal bolt kit, a black ON-OFF plastic handle and shaft as standard, base mounting. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a depth of installation ranges.

Number of poles	I_{th} (open) [A]	Rated operat. current [A] DC 21 / 800 V	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
Mechanism between the poles						
5	315	315	OT315E23P	1SCA101113R1001	1	4.4
5	400	400	OT400E23P	1SCA103717R1001	1	4.4
5	630	600	OT630E23P	1SCA110644R1001	1	7.8
5	630	600	OT630E23P31	1SCA111409R1001	1	7.8

Up to 1000 VDC

Types OTDC100…250 including terminal bolt kit, the handle and shaft have to be ordered separately, see pages 18…19. Types OT315…630 including terminal bolt kit, a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a depth of installation ranges.

Number of poles	I_{th} (open) [A]	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
Mechanism at the end of the switch						
2	100	100	OTDC100E02	1SCA125822R1001	1	1.1
2	160	160	OTDC160E02	1SCA125840R1001	1	1.1
2	200	200	OTDC200E02	1SCA123687R1001	1	1.1
2	250	250	OTDC250E02	1SCA125866R1001	1	1.1
Mechanism between the poles						
6	315	315	OT315E33P	1SCA103723R1001	1	4.4
6	400	400	OT400E33P	1SCA103355R1001	1	4.4
6	630	600	OT630E33P	1SCA107832R1001	1	11.3
6	630	600	OT630E33P31	1SCA111410R1001	1	11.3

Shafts and handles included as standard

Suitable for switches	Included shaft	Included handle	Included terminal bolts
OTDC100…250E02	-	-	M8x25
OT315…400_P	OXP12X185	OHB95J12	M10x30
OT630_P	OXP12X185	OHB125J12	M12x40
OT630_P31	OXP12X185	OHB150J12P	M12x40

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Ordering information
Front operated switch-disconnectors

OTDC100...200US02



OTDC100...200U02



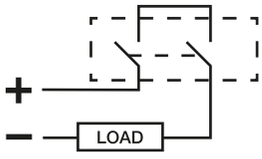
OTDC100...200US11



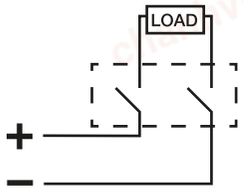
OTDC100...200U11



OTDC100US_, OTDC200US_



OTDC100U_, OTDC200U_



Switch-disconnectors OTDC_, UL-types, base mounting

Up to 1000 VDC

Including terminal bolt kit, the handle and shaft have to be ordered separately, see pages 18…19. OTDC100…200US02 types are equipped with a short circuit link.

Number of poles	Rated current [A] UL98B, 1000 V	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
Mechanism at the end of the switch, includes the short circuit link					
2	100	OTDC100US02	1SCA126155R1001	1	1.2
2	200	OTDC200US02	1SCA126121R1001	1	1.2
Mechanism at the end of the switch					
2	100	OTDC100U02	1SCA126184R1001	1	1.1
2	200	OTDC200U02	1SCA126123R1001	1	1.1
Mechanism between the poles, includes the short circuit link					
2	100	OTDC100US11	1SCA125437R1001	1	1.2
2	200	OTDC200US11	1SCA125436R1001	1	1.2
Mechanism between the poles					
2	100	OTDC100U11	1SCA123957R1001	1	1.1
2	200	OTDC200U11	1SCA123767R1001	1	1.1

Shafts and handles included as standard

Suitable for switches	Included shaft	Included handle	Included terminal bolts
OTDC100…250U_	-	-	M8x25

Ordering information
Plastic enclosed switch-disconnectors

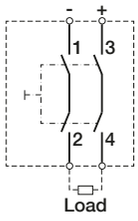
OTDCP_SA_



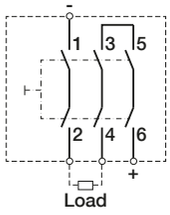
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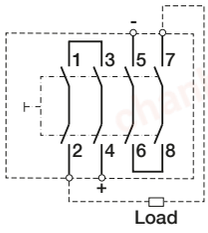
OTDCP_11_



OTDCP_12_



OTDCP_22_



Plastic enclosed switch-disconnectors OTDCP_

M20 threaded knock-outs, compression glands have to be ordered separately.
M16 threaded knock-outs available on request.

Up to 660 VDC

Number of poles	Rated operat. current [A] DC 21B / 660 V	Type	Order number	Weight/ unit [kg]
Includes selector type red-yellow handle (I-0 and ON-OFF indication)				
2	16	OTDCP16SA11M	1SCA125126R1001	0.55
2	25	OTDCP25SA11M	1SCA125127R1001	0.55
2	32	OTDCP32SA11M	1SCA125128R1001	0.55
Includes selector type black handle (I-0 and ON-OFF indication)				
2	16	OTDCP16S11M	1SCA125129R1001	0.55
2	25	OTDCP25S11M	1SCA125130R1001	0.55
2	32	OTDCP32S11M	1SCA125131R1001	0.55

Up to 1000 VDC

Number of poles	Rated operat. current [A] DC 21B / 1000 V	Type	Order number	Weight/ unit [kg]
Includes selector type red-yellow handle (I-0 and ON-OFF indication)				
3	16	OTDCP16SA12M	1SCA125150R1001	0.59
3	25	OTDCP25SA12M	1SCA125151R1001	0.59
3	32	OTDCP32SA12M	1SCA125152R1001	0.59
Includes selector type black handle (I-0 and ON-OFF indication)				
3	16	OTDCP16S12M	1SCA125153R1001	0.59
3	25	OTDCP25S12M	1SCA125154R1001	0.59
3	32	OTDCP32S12M	1SCA125155R1001	0.59

Up to 1000 VDC or 2x660 VDC[1)]

Number of poles	Rated operat. current [A] DC 21B / 1000 V	Type	Order number	Weight/ unit [kg]
Includes selector type red-yellow handle (I-0 and ON-OFF indication)				
4	16	OTDCP16SA22M	1SCA125094R1001	0.63
4	25	OTDCP25SA22M	1SCA125091R1001	0.63
4	32	OTDCP32SA22M	1SCA125090R1001	0.63
Includes selector type black handle (I-0 and ON-OFF indication)				
4	16	OTDCP16S22M	1SCA125095R1001	0.63
4	25	OTDCP25S22M	1SCA125092R1001	0.63
4	32	OTDCP32S22M	1SCA125093R1001	0.63

[1)] 1000 V with all poles in series, 660 V with 2 poles in series

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Ordering information
Accessories

OHBS 1_
S00684A



OHRS 2_
S01368A



OHRS 3_
S01369A



Handle knobs

Mounting directly to the switch, no shaft needed, for base and DIN-rail mounted switches
Padlockable with one padlock with bail diameter 5 mm, see the table below.

Colour	Handle length [mm]	Type	Order number	Units/ type [pcs]
Suitable for switches OTDC16...32F				
Black	31	OHBS1	1SCA109087R1001	10
Black	31	OHBS1/1	1SCA109088R1001	1
Red	31	OHRS1	1SCA109095R1001	10
Red	31	OHRS1/1	1SCA109096R1001	1
Suitable for switches OTDC16...32F				
Black	40	OHBS2	1SCA109089R1001	10
Black	40	OHBS2/1	1SCA109090R1001	1
Red	40	OHRS2	1SCA108598R1001	10
Red	40	OHRS2/1	1SCA108599R1001	1
Black	39	OHBS3	1SCA108320R1001	10
Black	39	OHBS3/1	1SCA108319R1001	1
Red	39	OHRS3	1SCA108667R1001	10
Red	39	OHRS3/1	1SCA108688R1001	1

Special information for handle knobs

Handle type	Padlockable	Shaft through the handle	45 mm cut-out enable*
OHBS1_, OHRS1_	No	No	Yes
OHBS2_, OHRS2_	Yes	No	Yes
OHBS3_, OHRS3_	No	No	Yes

* In I-position the handle shall remain within the cut-out height

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Ordering information
Accessories

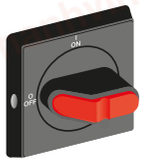
OH_ 1_
S00395A



OH_ 3_
S00687A



OH_ 2_
S00396A



OHBS2_AJEH



Selector type handles for base and DIN-rail mounted switches

Indication I-O and ON-OFF, for shaft diameter 6 mm, door drilling 22.5 mm.
The type and the ordering numbers are for one piece.

Colour	Type	Order number	Delivery batch [pcs]
IP 54 handles, NEMA 1, suitable for switches OTDC16...32F			
Black	OHBS1AH	1SCA102680R1001	150
Yellow-red	OHYS1AH	1SCA105290R1001	150
Silver	OHSS1AH	1SCA105274R1001	150
Grey	OHGS1AH	1SCA105261R1001	150
Door interlock in ON-position.			
Black	OHBS1AH1	1SCA105210R1001	150
Yellow-red	OHYS1AH1	1SCA105291R1001	150
Silver	OHSS1AH1	1SCA105275R1001	150
Grey	OHGS1AH1	1SCA105262R1001	150
Padlockable with one padlock with bail diameter 5...6.3 mm.			
Black	OHBS3AH	1SCA105234R1001	150
Yellow-red	OHYS3AH	1SCA105325R1001	150
Silver	OHSS3AH	1SCA105283R1001	150
Grey	OHGS3AH	1SCA105270R1001	150
Padlockable with one padlock with bail diameter 5...6.3 mm, door interlock in ON-position.			
Black	OHBS3AH1	1SCA105235R1001	150
Yellow-red	OHYS3AH1	1SCA105326R1001	150
Silver	OHSS3AH1	1SCA105284R1001	150
Grey	OHGS3AH1	1SCA105271R1001	150
IP 65 handles, NEMA 1, 3R, 12, suitable for switches OTDC16...32F			
Padlockable with max. 3 padlocks with bail diameter 5...8 mm, door interlock in ON-position, defeatable.			
Black	OHBS2AJ	1SCA105213R1001	120
Yellow-red	OHYS2AJ	1SCA105296R1001	120
Silver	OHSS2AJ	1SCA105278R1001	120
Grey	OHGS2AJ	1SCA105265R1001	120
Padlockable with max. 3 padlocks with bail diameter 5...8 mm, door interlock in ON-position.			
Black	OHBS2AJ1	1SCA105215R1001	120
Yellow-red	OHYS2AJ1	1SCA105297R1001	120
Silver	OHSS2AJ1	1SCA105279R1001	120
Grey	OHGS2AJ1	1SCA105266R1001	120

Selector type handle with metal hasp

IP65 handles, NEMA 1, 3R, 12, suitable for switches OTDC16...32F			
Padlockable with max. 3 padlocks, door interlock in the ON-position, defeatable.			
Black	OHBS2AJEH	1SCA108230R1001	120

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Ordering information
Accessories

OH_1_
S00395A



OH_3_
S00687A



OH_2_
S00396A



Selector type handles, for door mounted switches

Indication I-O and ON-OFF. No separate shaft needed.
The type and the ordering numbers are for one piece.

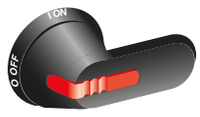
Colour	Type	Order number	Units/ type [pcs]
Snap-on mounting, door drilling 22,5 mm, for OTDC16...32FT			
No padlocking, IP54, NEMA 1			
Black	OHBS1PH	1SCA105211R1001	150
Red-yellow	OHYS1PH	1SCA105294R1001	150
Silver	OHSS1PH	1SCA105276R1001	150
Grey	OHGS1PH	1SCA105263R1001	150
Padlockable with one padlock, IP54, NEMA 1			
Black	OHBS3PH	1SCA105236R1001	150
Red-yellow	OHYS3PH	1SCA105327R1001	150
Silver	OHSS3PH	1SCA105285R1001	150
Grey	OHGS3PH	1SCA105272R1001	150
Padlockable with max. 3 padlocks, IP65, NEMA 1, 3R, 12			
Black	OHBS2PJ	1SCA105231R1001	120
Red-yellow	OHYS2PJ	1SCA105322R1001	120
Silver	OHSS2PJ	1SCA105280R1001	120
Grey	OHGS2PJ	1SCA105268R1001	120
Screw mounting, hole distance 36 mm, for OTDC16...32FT			
No padlocking, IP54, NEMA 1			
Black	OHBS1RH	1SCA105212R1001	150
Red-yellow	OHYS1RH	1SCA105295R1001	150
Silver	OHSS1RH	1SCA105277R1001	150
Grey	OHGS1RH	1SCA105264R1001	150
Padlockable with one padlock, IP54, NEMA 1			
Black	OHBS3RH	1SCA105237R1001	150
Red-yellow	OHYS3RH	1SCA105328R1001	150
Silver	OHSS3RH	1SCA105286R1001	150
Grey	OHGS3RH	1SCA105273R1001	150
Padlockable with max. 3 padlocks, IP65, hole distance 36/48 mm, NEMA 1, 3R, 12			
Black	OHBS2RJ	1SCA105232R1001	120
Red-yellow	OHYS2RJ	1SCA105323R1001	120
Silver	OHSS2RJ	1SCA105281R1001	120
Grey	OHGS2RJ	1SCA105269R1001	120

Ordering information
Accessories

OHY_
S00836A



OHB_
S00601A



OHB_P
S02195A



Pistol type handles

OH_ handles: IP 65, NEMA 1,3R, 12

Padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle. No screws on the front ensures double insulation. The type and the ordering numbers are for one piece.

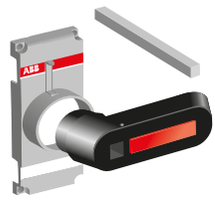
Colour	Handle length [mm]	Suitable for switches	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
For shaft diameter 6 mm, indication in types OHB and OHY: I-0, ON-OFF, in types OHG: I-0.						
Black	65	OTDC100...250_	OHB65J6	1SCA022380R9660	100	0.12
Yellow-red	65	OTDC100...250_	OHY65J6	1SCA022380R9820	100	0.12
Grey	65	OTDC100...250_	OHG65J6	1SCA022380R9740	100	0.12
Black	80	OTDC100...250_	OHB80J6	1SCA022381R0240	100	0.14
Yellow-red	80	OTDC100...250_	OHY80J6	1SCA022381R0410	100	0.14
Grey	80	OTDC100...250_	OHG80J6	1SCA022381R0320	100	0.14
For shaft diameter 6 mm, indication: Test-OFF-ON/Test-0-I						
Black	65	OTDC100...250_	OHB65J6T	1SCA022399R8110	100	0.12
Yellow-red	65	OTDC100...250_	OHY65J6T	1SCA022456R9540	100	0.12
For shaft diameter 12 mm, indication OHB and OHY: I-0, ON-OFF, in types OHG: I-0						
Black	95	OT315...400_	OHB95J12	1SCA022381R0830	90	0.16
Yellow-red	95	OT315...400_	OHY95J12	1SCA022381R1050	90	0.16
Grey	95	OT315...400_	OHG95J12	1SCA022381R0910	90	0.16
Black	125	OT630_	OHB125J12	1SCA022381R1560	90	0.17
Yellow-red	125	OT630_	OHY125J12	1SCA022381R1720	90	0.17
Grey	125	OT630_	OHG125J12	1SCA022381R1640	90	0.17
Black	145	OT630_	OHB145J12	1SCA022381R2110	90	0.17
Yellow-red	145	OT630_	OHY145J12	1SCA022381R2370	90	0.17
Grey	145	OT630_	OHG145J12	1SCA022381R2290	90	0.17
Black	2x150	OT630_	OHB150J12P	1SCA022865R9430	25	0.35
For shaft diameter 12 mm, indication: Test-OFF-ON/Test-0-I						
Black	95	OT315...400	OHB95J12T	1SCA022736R1750	90	0.16
Yellow-red	95	OT315...400	OHY95J12T	1SCA022736R1910	90	0.16
Black	125	OT630_	OHB125J12T	1SCA022652R2220	90	0.17
Yellow-red	125	OT630_	OHY125J12T	1SCA022652R2310	90	0.17

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.
This can be defeated in IP65 types to allow authorized personnel access for inspection.
NEMA 4, 4x pistol handles available on request.
Handles padlockable in all positions available on request.

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Ordering information
Accessories

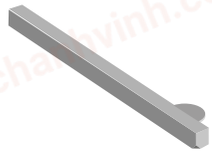
OT_V_
S01997A



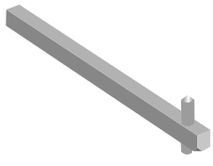
Handles for direct mounting

Colour	Handle length [mm]	Suitable for switches	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
Indication Test-OFF-ON/Test-O-I.						
Padlockable with three padlocks in OFF-position. Includes shaft and mechanism cover.						
Black	65	OTDC100…250	OTDV250EK	1SCA127390R1001	1	0.10
Red-yellow	65	OTDC100…250	OTDVY250EK	1SCA127391R1001	1	0.10
Black	95	OT315…400	OTV400EK	1SCA022763R2960	1	0.20
Red-yellow	95	OT315…400	OTVY400EK	1SCA022772R7830	1	0.20
Black	125	OT630…800	OTV800EK	1SCA022804R6340	1	0.30
Red-yellow	125	OT630...800	OTVY800EK	1SCA022810R2780	1	0.30

OXS6X_
S01026A



OXP6X_
S00050A



Extended shafts

The type and ordering numbers are for one piece.

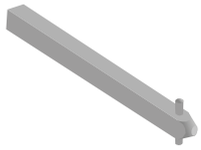
Shaft length [mm]	H	H [mm]	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
For selector type handles						
Suitable for switches OTDC16...32F, shaft diameter 6 mm						
85	See		OXS6X85	1SCA101647R1001	10	0.02
105	dimension		OXS6X105	1SCA108043R1001	10	0.02
120	drawings		OXS6X120	1SCA101654R1001	10	0.03
130			OXS6X130	1SCA101655R1001	10	0.03
160			OXS6X160	1SCA101656R1001	10	0.04
180			OXS6X180	1SCA101659R1001	10	0.04
250			OXS6X250	1SCA101660R1001	10	0.05
330			OXS6X330	1SCA101661R1001	10	0.05
For pistol type handles						
Suitable for switches OTDC100...250_, shaft diameter 6 mm [1]						
130	109…174		OXP6X130	1SCA022057R0570	1	0.04
150	129…194		OXP6X150	1SCA022295R5600	1	0.05
161	140...205		OXP6X161	1SCA022067R1760	1	0.05
210	189…254		OXP6X210	1SCA022295R6080	1	0.06
290	269…334		OXP6X290	1SCA022042R6370	1	0.08

[1] Longer shafts on request

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Ordering information
Accessories

OXP12X_
S00047A



Extended shafts

The type and ordering numbers are for one piece.

Shaft length [mm]	 H [mm]	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
For pistol type handles					
Suitable for switches OT315...400_, shaft diameter 12 mm					
166	146…226	OXP12X166	1SCA022325R7100	1	0.2
185	165…245	OXP12X185	1SCA022325R6710	1	0.2
250	230…310	OXP12X250	1SCA022325R6980	1	0.28
280	260…340	OXP12X280	1SCA022137R5140	1	0.3
325	305…385	OXP12X325	1SCA022042R5810	1	0.36
395	445…525	OXP12X395	1SCA022042R5990	1	0.43
465	439…519	OXP12X465	1SCA022042R6020	1	0.51
535	515…595	OXP12X535	1SCA022042R6110	1	0.59
Suitable for switches OT630_, shaft diameter 12 mm					
250	230…345	OXP12X250	1SCA022325R6980	1	0.28
280	260…375	OXP12X280	1SCA022137R5140	1	0.3
325	305…420	OXP12X325	1SCA022042R5810	1	0.36
395	375…490	OXP12X395	1SCA022042R5990	1	0.43
465	445…560	OXP12X465	1SCA022042R6020	1	0.51
535	515…630	OXP12X535	1SCA022042R6110	1	0.59
Suitable for switches OT630E_P31 with OHB150J12P handle, shaft diameter 12 mm					
250	222…336	OXP12X250	1SCA022325R6980	1	0.28
280	252…366	OXP12X280	1SCA022137R5140	1	0.3
325	297…411	OXP12X325	1SCA022042R5810	1	0.36
395	367…481	OXP12X395	1SCA022042R5990	1	0.43
465	437…551	OXP12X465	1SCA022042R6020	1	0.51
535	507…621	OXP12X535	1SCA022042R6110	1	0.59

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Ordering information
Accessories

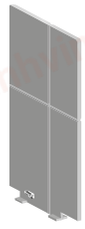
OXP_-45
S00669A



OEZXY91
S07230



OTDCB250/6
KE00052



Extended shafts

Twisted shafts for pistol type handles

The shaft position is rotated 45 degrees.
The type and ordering numbers are for one piece.

Shaft length [mm]	H [mm]	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
Suitable for switches OTDC100...250_, shaft diameter 6 mm					
130	109...174	OXP6X130-45	1SCA022355R9110	1	0.04
150	129...194	OXP6X150-45	1SCA022294R4400	1	0.05
210	189...254	OXP6X210-45	1SCA022294R4230	1	0.06
290	269...334	OXP6X290-45	1SCA022304R4290	1	0.08
Suitable for switches OT315...400_, shaft diameter 12 mm					
250	230...310	OXP12X250-45	1SCA022293R9400	1	0.28
280	260...340	OXP12X280-45	1SCA022382R0800	1	0.3
325	305...385	OXP12X325-45	1SCA022304R4450	1	0.36
395	445...525	OXP12X395-45	1SCA022749R0640	1	0.43
465	439...519	OXP12X465-45	1SCA022423R1770	1	0.51
535	515...595	OXP12X535-45	1SCA022723R2940	1	0.59

Mounting accessories

Short-circuit link

Includes as standard in types OTDC100…200US02.

Shaft length [mm]	Type	Order number	Units type [pcs]	Weight/ unit [kg]
OTDC100..250	OEZXY91	1SCA125290R1001	1	

Phase separators

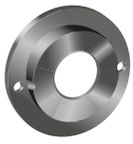
Grey plastic plate for maintaining 1" clearance between the phases without terminal shrouds. Snap-on mounting. Includes as standard in OTDC100…200U_ types.

Shaft length [mm]	Type	Order number	Units type [pcs]	Weight/ unit [kg]
OTDC100..250	OTDCB250/6	1SCA125532R1001	6	

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Ordering information
Accessories

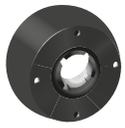
OHZX10
S01432A



Shaft accessories

Colour	Type	Order number	Delivery batch [pcs]	Weight/ unit [kg]
Shaft alignment ring				
Improves the handle operation if a handle and a shaft have been poorly aligned. The type and the ordering numbers are for one piece.				
For pistol type handles OH_65...275J6...12				
Black	OHZX10	1SCA022661R3610	10	0.23
For selector type handles OH_1...3				
Black	OHZX11	1SCA022708R3610	10	0.23

OHZX14
S02194A



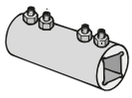
Extension ring for pistol type handles OHB_				
Black	OHZX14	1SCA022851R6590	1	0.06

OXT20X210X
S02211A



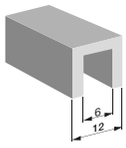
Shaft tube				
Supporting 12 mm shafts longer than 280 mm.				
	OXT20x210X	1SCA103684R1001	1	1.5

OETLZX95, OESAZX167
S00080A



Shaft extension socket				
For extending the shaft of combination attachment. The type and the ordering numbers are for one piece.				
Shaft diameter [mm]	**Type**	**Order number**	**Units/ unit [pcs]**	**Weight/ type [kg]**
6	OESAZX167	1SCA022190R1560	1	0.03
12	OETLZX95	1SCA022083R5620	1	0.04

OETLZK19
S00670C

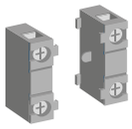


Adapter for extension socket				
The adapter can be placed inside the extension socket OETLZX95.				
6	OETLZK19	1SCA022093R1850	1	0.02

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Ordering information
Accessories

OA1G, OA3G01
S00261A



OEA28
S01641A



Auxiliary contact blocks, IP20

Contact numbering according to EN 50013.
The type and and the ordering numbers are for one piece.

Suitable for switches	Function	Type	Order number	Delivery batch[2] [pcs]	Weight/ unit [kg]
Mounting on the left side of the switch or under the mechanism cover					
Mounting on the left side of the switch: Max. 8 auxiliary contact blocks with the OEA28 module. **Mounting under the mechanism cover:** OTDC100...250: Max. 4 test contacts or 2 test contacts + 2 test indication contacts.[1] OT315...630: Max. 4 test contacts + 4 test indication contacts.[1] The test contacts can be used as standard auxiliary contacts as well.					
OTDC100...250, OT315...630	1NO	OA1G10	1SCA022353R4970	10	0.03
OTDC100...250, OT315...630	1NC	OA3G01	1SCA022456R7410	10	0.03

Module for auxiliary contacts

Screw mounting to the left side of the switch.

Suitable for switches	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
OTDC100..250, OT315...630	OEA28	1SCA022714R8810	1	0.04

[1] Contact numbering:

(83) (43) (53) 13 21 (61) (31) (71)
(84) (44) (54) 14 22 (62) (32) (72)

[2] Auxiliary contacts OA1G_ are available in larger packing as well.
A bulk package includes 50 auxiliary contacts. Type number: add a suffix: /B, e.g. OA1G01/B.
Early break type auxiliary contacts means that in the switches, the NO aux.contacts break before the main contacts open.

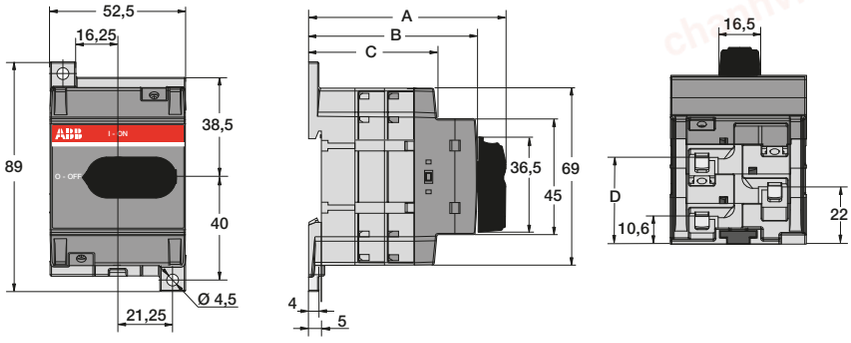
Performance data according to IEC 60947-5-1

For OA1G_, OA3G_						
Ue/[V]	AC15	Ue/[V]	DC12		DC13	
	Ie/[A]		Ie/[A]	P/[W]	Ie/[A]	P/[W]
230	6	24	10	240	2	50
400	4	72	4	290	0.8	60
415	4	125	2	250	0.55	70
690	2	250	0.55	140	0.27	70
		440	0.1	44		

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Dimension drawings
Switch-disconnectors

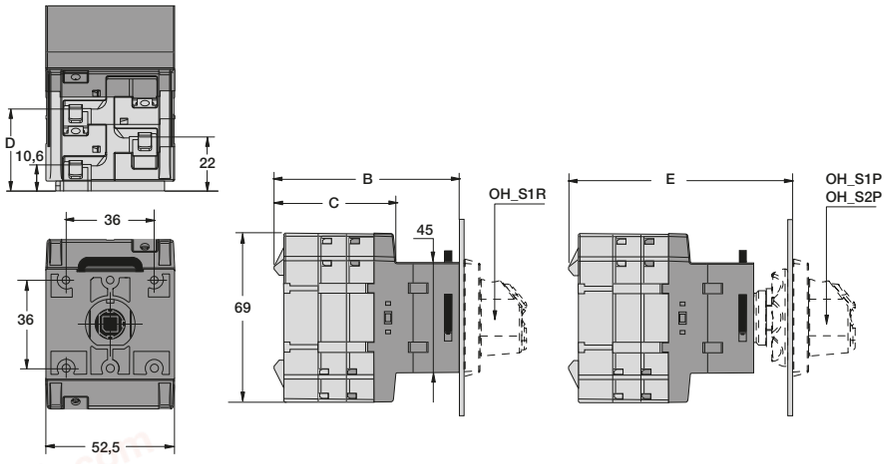
OTDC16...32F_, base or DIN-rail mounting



907151 / M00371 / OTDC16-32_ B

OTDC16...32F_				
Dimension [mm]				
Number of poles	A	B	C	D
2	66,2	54,1	38,3	22
3	77,6	65,5	49,7	33,4
4	89	76,9	61,1	44,8

OTDC16...32FT_, door mounting



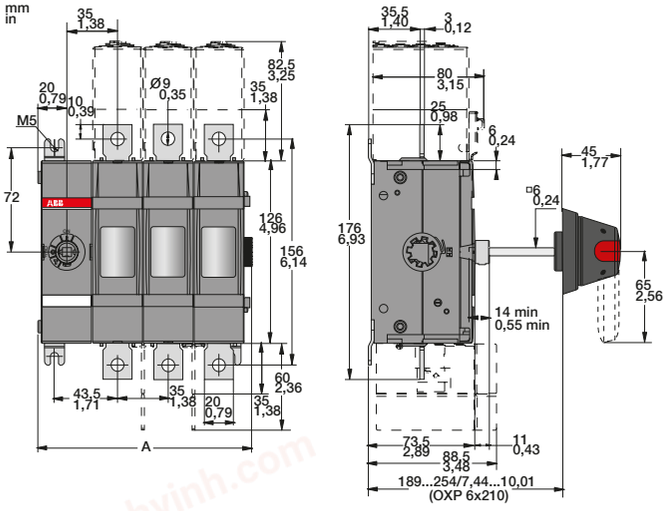
M00416/OTDC32FT-1 B

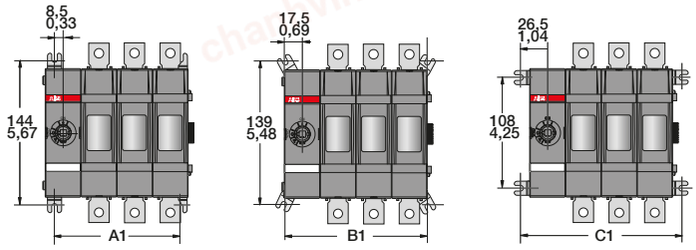
OTDC32FT_				
[mm]	B	C	D	E
FT2	64,1	38,3	22	79,9
FT3	75,5	49,7	33,4	91,3
FT4	86,9	61,1	44,8	102,7

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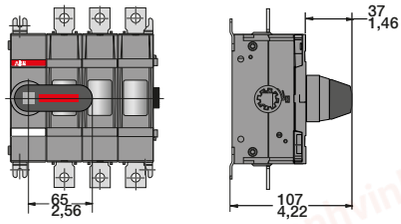
Dimension drawings
Switch-disconnectors

OTDC100...250E02, OTDC100...200U02





OTDC100, 160, 200, 250E01...04K
OTDC 100, 200U01...04K

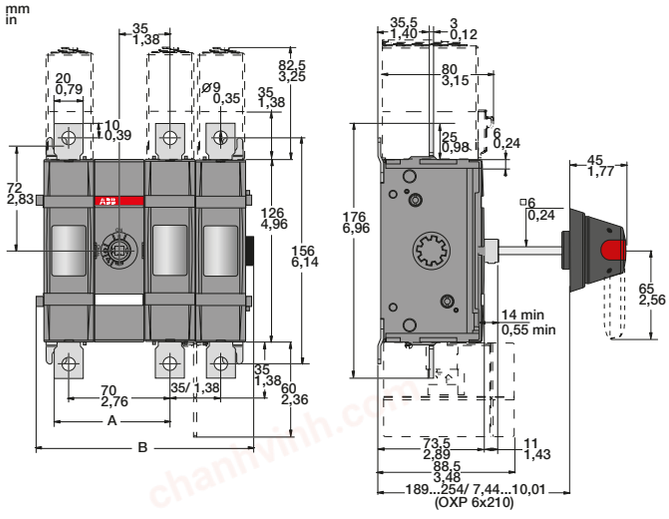


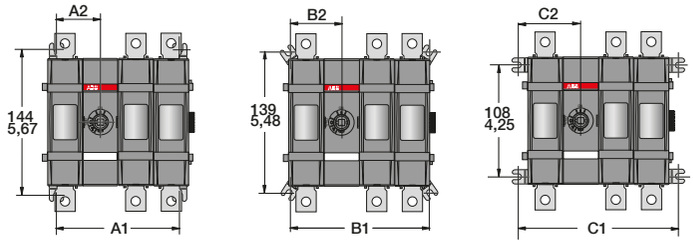
A

[mm/in]	01	02	03	04
	OTDC100, 160, 200, 250E01...04			
	OTDC 100, 200U01...04			
A	78/3,07	113/4,45	148/5,83	183/7,21
A1	52/2,05	87/3,43	122/4,81	157/6,18
B1	70/2,76	105/4,14	140/5,51	175/6,89
C1	88/3,46	123/4,85	158/6,22	193/7,6

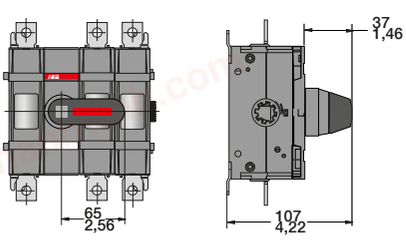
M00414/OTDC200-250E01-04

OTDC100...250E11, OTDC100...200U11





OTDC100, 160, 200, 250E11...22K
OTDC 100, 200U11...22K



A

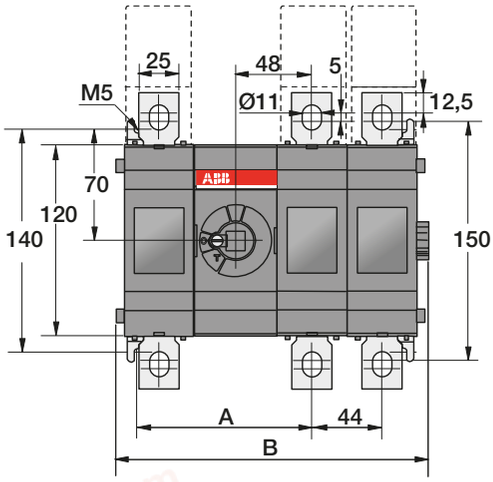
[mm/in]	11	12	13	22
	OTDC100, 160, 200, 250E11...22			
	OTDC100, 200U11...22			
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B	115,5/4,55	150,5/5,93	185,5/7,31	185,5/7,31
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A2	43,5/1,71	43,5/1,71	43,5/1,71	78,5/3,09
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B2	52,5/2,07	52,5/2,07	52,5/2,07	87,5/3,44
C1	123/4,85	158/6,22	193/7,6	193/7,6
C2	61,5	61,5	61,5	96,5

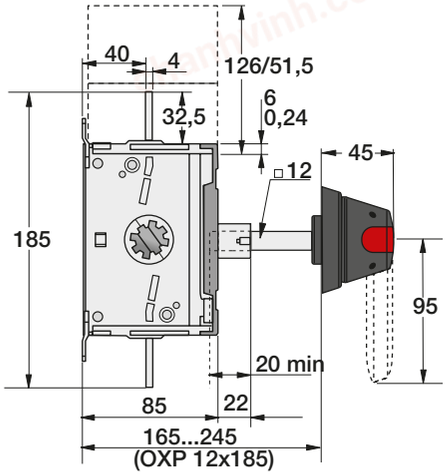
M00415/OTDC200-250E11-22

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Dimension drawings
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OT315-400E23/33P

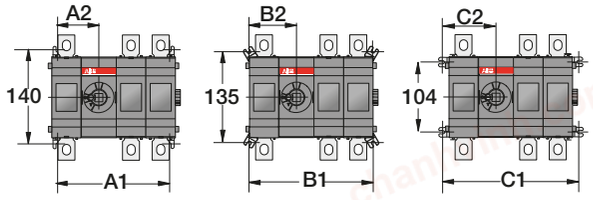




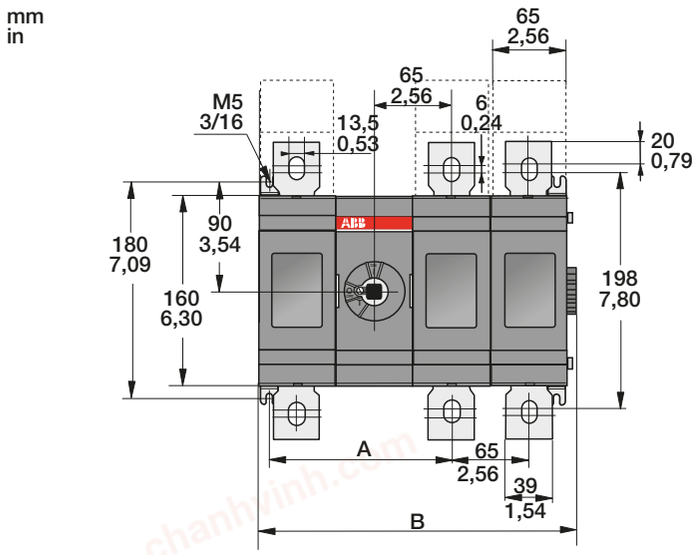
M00018/OT315_400E11_22 F

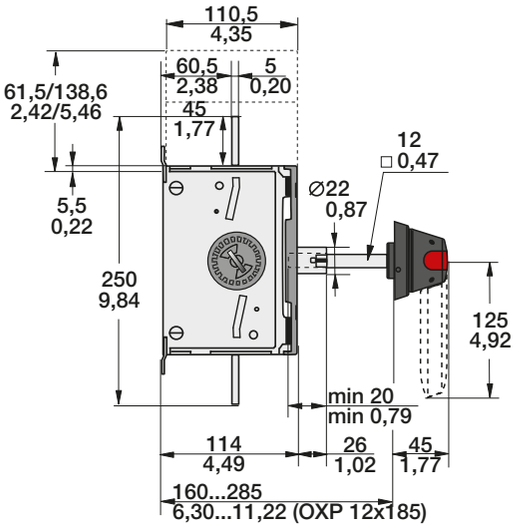
OT315/400/500

[mm]	E11	E12	E13	E22	E23	E33
A	109	109	109	153	153	197
B	152	196	240	240	284	328
A1	122	166	210	210	254	298
A2	61	61	61	105	105	149
B1	140	184	228	228	272	316
B2	70	70	70	114	114	158
C1	158	202	246	246	290	334
C2	79	79	79	123	123	167



OT630E23/33P

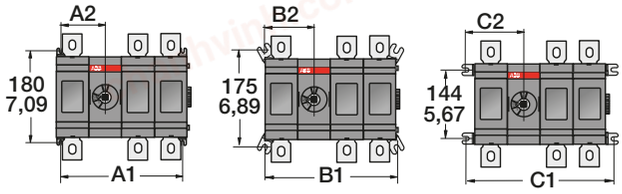




M00082 / OT630-800_11_22 D

OT600/630/800

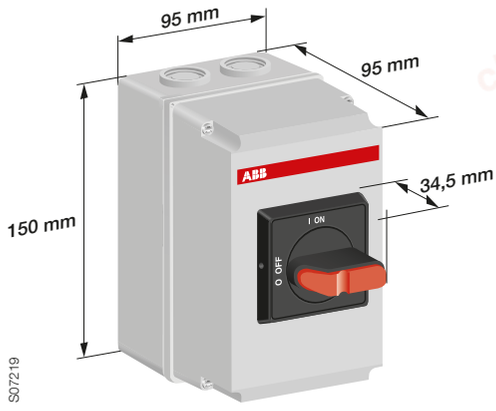
[mm/in]	E11	E12	E13	E22	E23	E33
A	153,5/6,04	153,5/6,04	153,5/6,04	218,5/8,60	218,5/8,60	283,5/11,16
B	201/7,91	266/10,47	331/13,03	331/13,03	39615,59	461/18,15
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B1	195/7,68	260/10,24	325/12,80	325/12,80	390/15,35	455/17,91
B2	97,5/3,84	97,5/3,84	97,5/3,84	162,5/6,40	162,5/6,40	227,5/8,96
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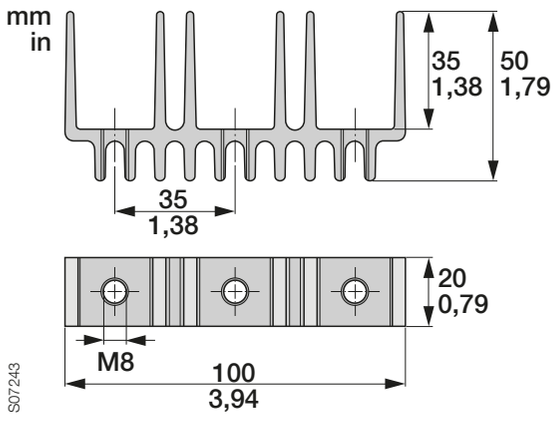
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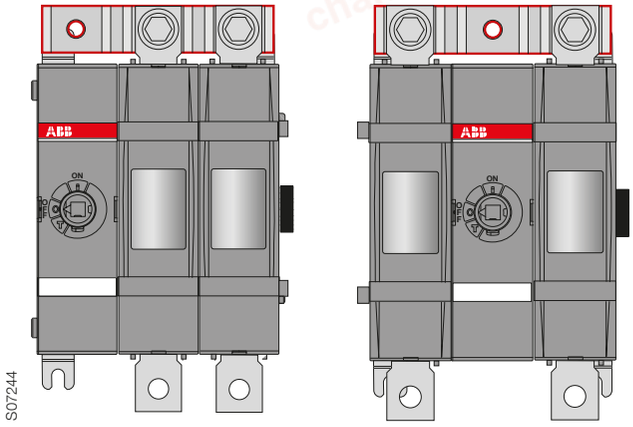
Dimension drawings
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OTDCP16...32



OEZXY91





OS100...200US_ -types

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Producted by: A&V Insinöörit Oy / Tekninen viestintä, Vaasa, Finland
Catalogue OT40GB 12-07 1SCC301009K0201

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