

Protection and Connection

Switch-disconnectors OTDC and OTDCP Switches for photovoltaic applications

Switch-disconnectors OTDC and OTDCP

Switches for photovoltaic applications

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OTDC switch-disconnectors by ABB offer reliability and efficiency for direct current applications such as solar farms.

Switch-disconnectors OTDC and OTDCP

Premium performance for DC applications

The OTDC range of switch-disconnectors is specially designed for DC applications. Thanks to a compact design, efficiency and reliability, OTDC switches bring photovoltaic installations to the next level.

1



Reliable in extreme conditions

Designed for harsh environments

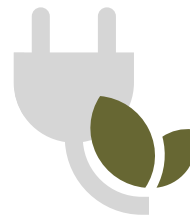
Solar farms are typically located in remote and inhospitable environments. The OTDC switch-disconnectors are designed to offer efficient and reliable performance even in high ambient temperatures and harsh environmental conditions. They are virtually maintenance-free. The unique contact design results in a lower temperature rise, making only a minimal contribution to the overall heat-rise within any enclosure. The patented dual magnetic breaking (DMB) solution in our larger OTDC 100...1600 switch-connectors results in market-leading performance and reliable switching in all applications.



Easy installation

Compact and modular design

The smart modular design of these devices means that they are fast and easy to install in a wide variety of ways, none of which take up large amounts of space. The switch-disconnectors can be mounted in any direction, and thanks to their polarity independence connections can be made in both ways. Additionally, the unique modular and compact design of our smaller OTDC 16...32 switch-disconnectors means that the same dimensions apply to a 2-pole and 6-pole switch. These switches offer various DC voltage ratings and control of up to three circuits within the same footprint area. Three mounting options are available for easy installation in a variety of enclosure designs: door, base and DIN rail.



Energy efficiency

Reduced power losses

Energy efficiency and sustainability are important factors in photovoltaic energy production and distribution applications. Switches often generate considerable amounts of heat within the enclosure. The OTDC switch-disconnectors by ABB have a superior thermal structure, which help decrease switch power losses by up to 50%. These devices are extremely well suited for applications in high ambient temperatures. The rated currents need no derating even beyond 60°C (140°F). Overall these devices enable energy savings and reduced active ventilation costs, all within a smaller enclosure.

Switch-disconnectors OTDC and OTDCP

Typical photovoltaic applications

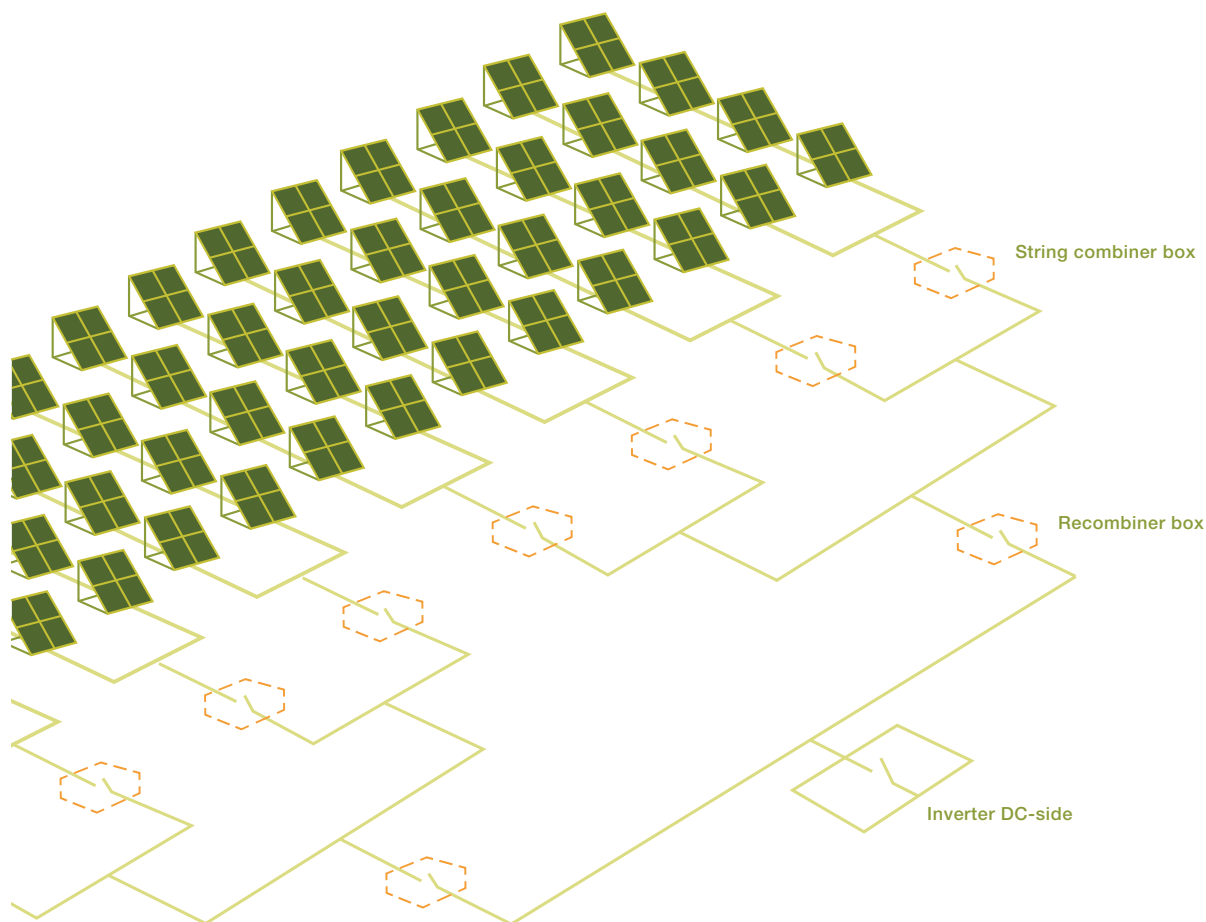
1



Direct current switch-disconnectors by ABB offer reliable switching for a wide range of photovoltaic (PV) applications. They are durable and virtually maintenance-free, and offer easy installation for all imaginable situations.

Depending on the solar farm layout and the customer's wishes, the OTDC switch-disconnectors may be used in one or more sections of the overall setup, on the DC side prior to the inverter. The most typical uses for direct current switch-disconnectors include:

- String combiner boxes
- Recombiner boxes
- Inverter input



String combiner box

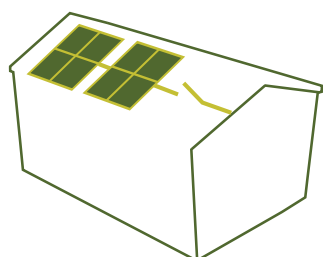
The switch-disconnectors can also be used to disconnect individual arrays. In larger photovoltaic (PV) sources arrays, which consist of parallel-connected strings, are often used, with combiner boxes grouping individual strings together. Combiner boxes are an ideal place for placing PV devices, for example control and over-current protective devices. Switches inside combiner boxes allow possible fuse replacement and safe maintenance to be performed on individual arrays.

Recombiner box

Additional disconnect switches may also be installed in the proximity of the inverter to provide a means of isolation, for example for local fuse isolation. Service isolation may be required 'within sight' of the inverter or other locations frequently requiring service. Also these switches may be integrated inside the inverter although more often they are housed in a recombiner box.

Inverter DC-side

These same devices may also be used to disconnect the inverter from the DC side entirely. For this use the switch-disconnector is installed either just before the inverter on the DC side or inside the inverter itself. This type of main disconnection means is a good practice and generally required by installation norms.



String disconnect for residential use

String disconnects

The switch-disconnectors can be used to break and isolate panels and individual strings on roof-tops to allow for safe repair operations for maintenance workers. The switch-disconnectors can be used to break and isolate panels and individual strings on roof-tops to allow safe repair operations for maintenance workers or fire-brigade.



Switch-disconnectors OTDC and OTDCP

Overview of product range

Product range

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For the best possible global coverage, we offer devices with compliance to both IEC and UL standards.





Switch-disconnectors OTDC and OTDCP

Quick selection for IEC

Wide portfolio for global compatibility

Global availability and compatibility of our direct current switch-disconnectors has been ensured with a wide portfolio of devices. Our portfolio includes devices compliant with the UL standard typically required of devices used in the North American market as well as IEC standard devices used in most other markets across the globe. All devices, regardless of standard, offer the reliability and efficiency expected of a switch device by ABB.

2

VDC	CIRCUITS	AMPERAGE				
660		XS				
		10	16	20	25	32
	1 circuit	OTDC16U2 		OTDC25U2 		OTDC32F2 
	Wire diagram	On page 41		On page 41		On page 27
	2 circuits	OTDC16U4 		OTDC25U4 		OTD32U4 
	Wire diagram	On page 41		On page 41		On page 41
1000	3 circuits	OTDC16U6 				
	Wire diagram	On page 41				
	1 circuit	OTDC16U2 	OTDC25U2 	OTDC32F2 	OTDC25F3 	OTDC32F3 
	Wire diagram	On page 41	On page 41	On page 27	On page 27	On page 27
	2 circuits	OTDC16U4 	OTDC25U4 	OTDC32U4 		
	Wire diagram	On page 41	On page 41	On page 41		
1000	3 circuits	OTDC16U6 				
	Wire diagram	On page 41				



NOTE: The complete list of available switches can be found in the Product range starting on page 14.

Switch-disconnectors OTDC and OTDCP

Quick selection for IEC

VDC	CIRCUITS	AMPERAGE											
		S				M			L		XL		
		100	160	200	250	315	400	500	630	800	1000	1250	1600
660...1000	1 circuit	 OTDC100...250E11, OTDC100...250E02				 OTDC315...500E11, OTDC315...500E02			 OTDC630...800EPP22		 OTDC1000...1600E22		
	Wire diagram	2a,2b on page 54				2a,2b on page 54			6c on page 57		6a,6b on page 57		
	2 circuits	 OTDC100...250E22				 OTDC315...500E22							
	Wire diagram	4a, 4c on page 55				4a, 4c, 6d on page 55, 57							
	3 circuits					 OTDC315...500E33							
	Wire diagram					7a on page 59							
1500	1 circuit					 OTDC315...500EV12							
	Wire diagram					5a on page 56							
	2 circuits					 OTDC315...500E33							
	Wire diagram					7b on page 59							







2



NOTE: The complete list of available switches can be found in the Product range starting on page 14.

Switch-disconnectors OTDC and OTDCP

Quick selection for UL

VDC	CIRCUITS	XS		
600		16	25	32
	1 circuit			
		OTDC16U2	OTDC25U2	
	Wire diagram	On page 41	On page 41	
	2 circuits			
		OTDC16U4	OTDC25U4	OTD32U4
	Wire diagram	On page 41	On page 41	On page 41
	3 circuits			
		OTDC16U6		
	Wire diagram	On page 41		

> NOTE: Door mounted U_T and US models for grounded systems can be found on page 42.



Switch-disconnectors OTDC and OTDCP

Quick selection for UL

VDC	CIRCUITS	S		M			L	XL		
		100	200	250	320	400	600	800	1000	
UP TO 1000 VDC	1 circuit									
		OTDC100...200US11, OTDC100...200US02		OTDC250...400US11, OTDC250...400US02			OTDC600USPP22	OTDC800...1000US22		
	Wire diagram	1a,1b on page 54		1a,1b on page 54			6e on page 58	6m on page 58		
	2 circuits									
		OTDC100...180US22		OTDC250...400US22						
	Wire diagram	3, 6f on page 55, 58		3, 6f on page 55, 58						
1500 VDC	1 circuit									
				OTDC250...400USV12						
	Wire diagram			5c, 5d on page 56						

US = grounded system
 U = ungrounded system

>

NOTE: The complete list of availabe switches can be found in the Product range starting on page 14.

Switch-disconnectors OTDC and OTDCP

Front operated switch-disconnectors 16..1600 A, IEC



2

IEC 60947

	OTDC16U2	OTDC16U4	OTDC16U6
	OTDC25U2	OTDC25U4	
		OTDC32U4	
U_g [V DC]	660/1000	2x660/1000	3x660/1000
I_{e1} DC-21B [A]	16/10 25/16	16/10 25/16 32/20	16/10



IEC 60947

Door mounting

	OTDC16UT2	OTDC16UT4	OTDC16UT6
	OTDC25UT2	OTDC25UT4	
		OTDC32UT4	
U_g [V DC]	660/1000	2x660/1000	3x660/1000
I_{e1} DC-21B [A]	16/10 25/16	16/10 25/16 32/20	16/10



IEC 60947

	OTDC16F2	OTDC16F3	OTDC16F4
		OTDC25F3	OTDC25F4
		OTDC32F3	OTDC32F4
U_g [V DC]	660	1000	1000 / 2x660
I_{e1} DC-21B [A]	16 25 32	16 25 32	16 25 32



IEC 60947

	OTDC16FT2	OTDC16FT3	OTDC16FT4
		OTDC25FT3	OTDC25FT4
		OTDC32FT3	OTDC32FT4
U_g [V DC]	660	1000	1000 / 2x660
I_{e1} DC-21B [A]	16 25 32	16 25 32	16 25 32

Switch-disconnectors OTDC and OTDCP

Front operated switch-disconnectors 16..1600 A, IEC



IEC 60947			
	OTDC100E02	OTDC100E11	OTDC100E22
	OTDC160E02	OTDC160E11	OTDC160E22
	OTDC200E02	OTDC200E11	OTDC200E22
	OTDC250E02	OTDC250E11	OTDC250E22
U _e [V DC]	1000	1000	1000
I _e , DC-21B [A]	100 160 200 250	100 160 200 250	100 160 200 250

2



IEC 60947			
	OTDC315E02	OTDC315E11	OTDC315EV12
	OTDC400E02	OTDC400E11	OTDC400EV12
	OTDC500E02	OTDC500E11	OTDC500EV12
U _e [V DC]	1000	1000	1500
I _e , DC-21B [A]	315 400 500	315 400 500	315 400 500



IEC 60947				
	OTDC315E22	OTDC315E33	OTDC630EPP22	OTDC1000E22
	OTDC400E22	OTDC400E33	OTDC800EPP22	OTDC1250E22
	OTDC500E22	OTDC500E33		OTDC1600E22
U _e [V DC]	1000	1000/1500	1000	1000
I _e , DC-21B [A]	315 400 500	315 400 500	630 800	1000 1250 1600

Enclosed switch-disconnectors 16...32 A, IEC



IEC 60947						
	OTDCP16SA11M	OTDCP16S11M	OTDCP16SA21M	OTDCP16S21M	OTDCP16SA22_	OTDCP16S22_
	OTDCP25SA11M	OTDCP25S11M	OTDCP25SA21M	OTDCP25S21M	OTDCP25SA22_	OTDCP25S22_
	OTDCP32SA11M	OTDCP32S11M	OTDCP32SA21M	OTDCP32S21M	OTDCP32SA22_	OTDCP32S22_
U _e [V DC]	660	660	1000	1000	1000 / 2x660	1000 / 2x660
I _e , DC-21B [A]	16 25 32	16 25 32	16 25 32	16 25 32	16 25 32	16 25 32

Switch-disconnectors OTDC and OTDCP

Front operated switch-disconnectors 16...1000, UL^{*})



2

UL508i
File E4466875

Base or DIN-rail mounting

	OTDC16U2	OTDC16U4	OTDC16U6	OTDC16US2	OTDC16US4	OTDC16US6
	OTDC25U2	OTDC25U4		OTDC25US2	OTDC25US4	
		OTDC32U4			OTDC32US4	
Rated Voltage [V DC]	600	600	600	600	600	600
Rated current [A]	16 25	16 25 35	16	16 25	16 25 32	16



UL508i
File E4466875

Door mounting

	OTDC16UT2	OTDC16UT4	OTDC16UT6	OTDC16UST2	OTDC16UST4	OTDC16UST6
	OTDC25UT2	OTDC25UT4		OTDC25UST2	OTDC25UST4	
		OTDC32UT4			OTDC32UST4	
Rated Voltage [V DC]	600	600	600	600	600	600
Rated current [A]	16 25	16 25 35	16	16 25	16 25 32	16



UL98B
File #E354681

	OTDC100U02	OTDC100U11	OTDC100U22	OTDC100US02	OTDC100US11	OTDC100US22
	OTDC200U02	OTDC200U11	OTDC180U22	OTDC200US02	OTDC200US11	OTDC180US22
Rated Voltage [V DC]	1000	1000	1000	1000	1000	1000
Rated current [A]	100 200	100 200	100 180	100 200	100 200	100 180



UL98B
File #E354681

	OTDC250U02	OTDC250U11	OTDC250UV12	OTDC250U22	OTDC600UPP22	OTDC800U22
	OTDC320U02	OTDC320U11	OTDC320UV12	OTDC320U22		OTDC1000U22
	OTDC400U02	OTDC400U11	OTDC400UV12	OTDC400U22		
Rated Voltage [V DC]	1000	1000	1500	1000	1000	1000
Rated current [A]	250 320 400	250 320 400	250 320 400	250 320 400	600	800 1000

^{*}All UL listed products (except side operated) are also IEC rated up to 800 A.

Switch-disconnectors OTDC and OTDCP Front operated switch-disconnectors 16...1000, UL^{*})



UL98B
File #E354681

	OTDC250US02	OTDC250US11	OTDC250USV12
	OTDC320US02	OTDC320US11	OTDC320USV12
	OTDC400US02	OTDC400US11	OTDC400USV12
Rated Voltage [V DC]	1000	1000	1500
Rated current [A]	250 320 400	250 320 400	250 320 400

^{*} All UL listed products (except side operated) are also IEC rated up to 800 A



UL98B
File #E354681

	OTDC250US22	OTDC600USPP22	OTDC8000US22
	OTDC320US22		OTDC1000US22
	OTDC400US22		
Rated Voltage [V DC]	1000	1000	1000
Rated current [A]	250 320 400	600	800 1000

^{*} All UL listed products (except side operated) are also IEC rated up to 800 A

Switch-disconnectors OTDC and OTDCP Side operated switch-disconnectors 100...400 A, UL



UL-types
UL98B
File #E354681

	OTDC100U20S	OTDC250U20S	OTDC100US20S	OTDC250US20S
	OTDC200U20S	OTDC320U20S	OTDC200US20S	OTDC320US20S
		OTDC400U20S		OTDC400US20S
Rated Voltage [V DC]	1000	1000	1000	1000
Rated current [A]	100 200	250 320 400	100 200	250 320 400

Switch-disconnectors OTDC and OTDCP

Type codes and pole configuration table

2

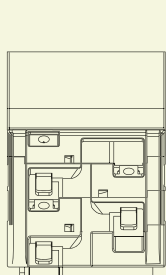
Type codes

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

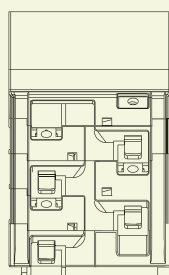
Explanation of the types

16 to 32 Amperes, open version

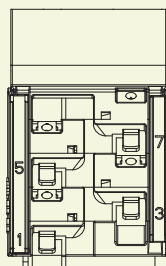
Option:	OTDC	16	F	3
Position:	1	2	3	4
1	Brand and Switch size/Ampere rating			
2	Ampere rating			
3	Standard			
F	IEC			
U	Base mounted, IEC and 508i, non grounded			
US	Base mounted, IEC and 508i, non grounded (includes factory mounted jumpers)			
FT	Door mounted, IEC			
UT	Door mounted, IEC and 508i, non grounded			
UST	Door mounted, UL, factory mounted jumpers			
4	Number of the poles			
2				
3				
4				
6				



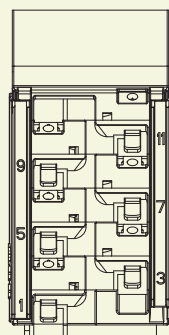
2 pole version



3 pole version



4 pole version

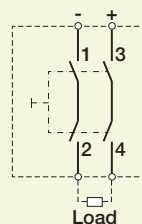


6 pole version

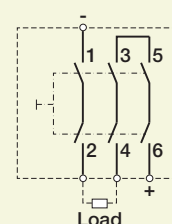
Explanation of the types

16 to 32 Amperes, enclosed version

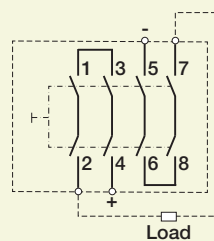
Option:	OTDC	P	16	S	11	M	D
Position:	1	2	3	4	5	6	7
1	Brand						
OTDC	ABB DC switch-disconnector brand						
2	Enclosure material						
P	Plastic						
3	Switch size						
16...32	16, 25 and 32 Amperes						
4	Selector handle color						
S	Black						
SA	Red-yellow						
5	Contact configuration						
11, 12, 22							
6	Cable entries						
M	Threaded knock-out M20						
M16	Threaded knock-out M16						
M25	Threaded knockout M25						
U	Blank cable entries						
UM	Black top cable entry and threaded knockout M20 bottom cable entry						
M20/M16	Threaded knockouts: M16 top cable entry and M20 bottom cable entry						
7	Connection options						
-	Single circuit use						
D	Double circuit use						



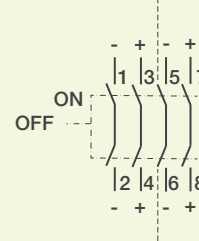
OTDCP_11_



OTDCP_12_



OTDCP_22_



OTDCP22_22_MD

Switch-disconnectors OTDC and OTDCP

Type codes and pole configuration table

Type codes

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

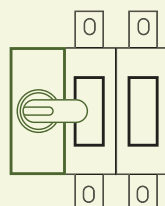
Explanation of the types

OTDC100...1600, IEC and UL98B

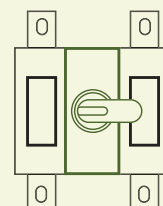
Option:	OTDC	200	U	S	11	K
Position:	1	2	3	4	5	6
1	Brand					
OTDC	ABB DC switch-disconnector brand					
2	Switch size					
100...1600	100...1600 Amperes					
3	Voltage and standard					
E	IEC					
U	UL98B					
4	Connection bars/jumpers					
blank	Connection bars/jumpers not included					
V	1500 VDC (includes factory mounted connection kits)					
S	Grounded versions (connection kits are premounted)					
PP	Parallel poles (factory mounted connection kit)					
5	Number of poles					
11	Two poles, mechanism between the poles					
02, 20	Two poles, mechanism at the end of the switch					
12	Three poles, mechanism between the poles					
22	Four poles, mechanism between the poles					
04, 40	Four poles, mechanism at the end of the switch					
33	Six poles, mechanism between the poles					
6	Included handle					
-	none					
P	external handle					
K	direct mount, front operation					
S	none (side operation)					

Pole configuration table

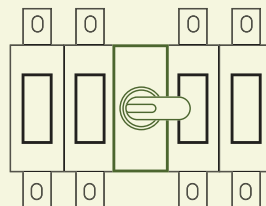
Configuration 02



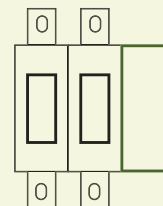
Configuration 11



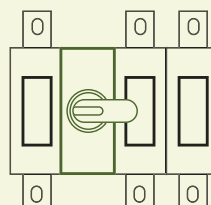
Configuration 22



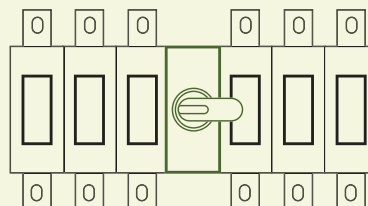
Configuration 20
(side operated only)



Configuration 12



Configuration 33





Switch-disconnectors OTDC and OTDCP

Technical data for OTDC16...1600, IEC

Technical data according to IEC 60947 for switch-disconnectors OTDC16...250

Switch size				OTDC16F	OTDC25F	OTDC32F	OTDC16U	OTDC25U	OTDC32U	OTDC100E	OTDC160E	OTDC200E	OTDC250E
Rated insulation voltage U _i	Pollution degree 2		V	1250 ¹⁾	1250 ¹⁾	1250 ¹⁾	1250 ¹⁾	1250 ¹⁾	1250 ¹⁾				
	Pollution degree 3		V	1000 ¹⁾	1000 ¹⁾	1000 ¹⁾	1000 ¹⁾	1000 ¹⁾	1000 ¹⁾	1000	1000	1000	1000
Rated impulse withstand voltage			kV	8	8	8	8	8	8	12	12	12	12
Rated thermal current I _{th}	In open air, normal conditions ²⁾		A	25	32	45	40	50	63	100	160	200	250
	In enclosure 40°C		A	25	32	45	32	40	50	100	160	200	250
	In enclosure 60°C		A	25	32	32	25	32	40	100	160	200	200
...with minimum cable or bar cross section	Cu		mm ²	4	6	10	4	6	10	35	70	95	120
Rated operational current / poles in series DC-21B	500	One circuit	V							100 / 1	160 / 1	200 / 1	250 / 1
	660	One circuit	V	16/2	25/2	32/2	16/2	25/2					
		Two circuits	V		25/2	32/2	16/2	25/2	32/2				
	1000	One circuit	V	10/2	16/2	20/2	10/2 ³⁾	16/2 ³⁾		100 / 2	160 / 2	200 / 2	250 / 2
			V	16/3	25/3	32/3							
		Two circuits	V	10/2	16/2	20/2	10/2 ³⁾	16/2 ³⁾	20/2 ³⁾	100 / 2	160 / 2	200 / 2	250 / 2
Three circuits		V				10/2 ³⁾							
Rated short-time withstand current, 1000 V, 1 s	R.M.S. -value I _{sw}		kA	0,4	0,6	0,8	1,0	1,0	1,0	5	5	5	5
Rated conditional short-circuit current I _p (r.m.s.)	I _p (r.m.s.), 1000 V		kA				10	10	10				
	Max fuse size, gPV		A				80	80	80				
Power loss / pole	At rated current		W	0,15	0,3	0,5	0,1	0,2	0,35	2	4	6	9,5
Terminal cable size	Cu		mm ²	2.5...16	2.5...16	2.5...16	2.5...16	2.5...16	2.5...16				
Terminal bolt size	Metric thread diameter × length		mm							M8x25	M8x25	M8x25	M8x25
Terminal tightening torque	Counter torque required		Nm							15...22	15...22	15...22	15...22

¹⁾ When used with external handle. For use with direct mounted handle, see installation instruction.

²⁾ Normal conditions defined in IEC 60947-1-6.1

³⁾ U and UT types only. (Not applicable for US nor UST.)

Technical data according to IEC 60947 for switch-disconnectors OTDC315...800

Switch size				OTDC315E	OTDC400E	OTDC500E	OTDC630E	OTDC800E
Rated insulation voltage Ui	Pollution degree 3	V	1500	1500	1500	1500	1500	
Rated impulse withstand voltage		kV	12	12	12	12	12	
Rated thermal current I _{th}	In open air, normal conditions ⁴⁾	A	315	400	630	630	800	
	In enclosure 40°C	A	315	400	550	630	800	
	In enclosure 60°C	A	315	400	440	630	680	
...with minimum cable or bar cross section	Cu	mm²	185	240	240	2x185	2x240	
Rated operational current / poles in series DC-21B	1000	One circuit	V	315/2	400/2	500/2	630/2	800/2
		Two circuits	V	315/2	400/2	500/2		
		Three circuits	V	315/2	400/2	500/2		
	1500	One circuit	V	315/3	400/3	500/3		
			V	315/4	400/4	500/4		
		Two circuits	V	315/3	400/3	500/3		
Rated short-time withstand current, 1000 V, 1 s	R.M.S. -value I _{cw}	kA	10	10	10	10	10	
Power loss / pole	At rated current	W	6	9,7	15,1	29,1	40	
Terminal bolt size	Metric thread diameter × length	mm	M 10x30	M 10x30	M 12x40	M 12x40	M 12x40	
Terminal tightening torque	Counter torque required	Nm	30-44	30-44	50-75	50-75	50-75	

⁴⁾ Normal conditions defined in IEC 60947-1-6.1

Switch-disconnectors OTDC and OTDCP

Technical data for OTDC16...1600, IEC

Technical data according to IEC 60947 for switch-disconnectors OTDC1000...1600

Switch size		A	OTDC1000E	OTDC1250E	OTDC1600E
Rated insulation voltage U_i	Pollution degree 3	V	1500	1500	1500
Rated impulse withstand voltage		kV	12	12	12
Rated thermal current I_{th}	In open air, normal conditions ⁴⁾	A	1000	1250	1600
	In enclosure 40°C	A	1000	1250	1250
	In enclosure 60°C	A	800	1000	1000
	Cu	mm ²	2x (60x5)	2x (50x8)	2x (50x10)
...with minimum cable or bar cross section					
Rated operational current / poles in series	1000 One circuit	A	1000/4	1250/4	1600/4
Rated short-time withstand current, 1000 V, 1 s	R.M.S. -value I_{cw}	kA	10	10	10
Rated short circuit making capacity, 1000 V	Peak value I_{cm}	kA	10	10	10
Power loss / pole	At rated current	W	22	35	58

⁴⁾ Normal conditions defined in IEC 60947-1-6.1

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 DC-21B	660 V	A	16/2	25/2	32/2
	1000 V	A	16/3	25/3	32/3
			10/2	16/2	20/2
	2x660 V ⁵⁾	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

⁵⁾ 1000 V with all the poles connected in series, 600 V with 2 poles in series

Switch-disconnectors OTDC and OTDCP

Technical data for OTDC16...1000, UL

Technical data in accordance to UL508I for photovoltaic disconnect switches OTDC16...32U

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

Switch size			OTDC16U	OTDC25U	OTDC32U
UL Listed		Standard	UL 508I	UL 508I	UL 508I
Rated ambient temperature		°C	-20...+60	-20...+60	-20...+60
Rated current /poles in series	600 V	One circuit	16/2	25/2	
		Two circuits	16/2	25/2x2	32/2x2
		Three circuits	16/2		
Short circuit rating		kA, 600 V	5	5	5
		Protection type	RK5 Fuse	RK5 Fuse	RK5 Fuse
Wire range		MCM	12-6 AWG	12-6 AWG	12-6 AWG
Technical data according to IEC 60947		See IEC table for type	OTDC16U	OTDC25U	OTDC32U

2

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC100...600U

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

Switch size			OTDC100U	OTDC200U	OTDC250U	OTDC320U	OTDC400U	OTDC600U
UL Listed		Standard	UL 98B	UL 98B	UL 98B	UL 98B	UL 98B	UL 98B
Rated ambient temperature		°C	-20...+50	-20...+50	-20...+50	-20...+50	-20...+50	-20...+50
Rated current /poles in series	1000 V	One circuit	100/2	200/2	250/2	320/2	400/2	600/2
		Two circuits	100/2	180/2	250/2	320/2	400/2	
	1500 V	One circuit			250/3	320/3	400/3	
Short circuit rating		kA, 1000 V	5	5	10	10	10	10
Protection type			Circuit breaker	Circuit breaker	Circuit breaker	Circuit breaker	Circuit breaker	Circuit breaker
Wire range		MCM	#4-300	#4-300	#2 – 600	#2 – 600	#2 – 600	#2 – 600
Technical data according to IEC 60947		See IEC table for type	OTDC160E	OTDC250E	OTDC315E	OTDC400E	OTDC500E	OTDC630E

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC800...1000U

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

Switch size			OTDC800US22	OTDC800U22	OTDC1000US22	OTDC1000U22
UL Listed		Standard	UL 98B	UL 98B	UL 98B	UL 98B
Rated ambient temperature		°C	-20...+50	-20...+50	-20...+50	-20...+50
Rated current /poles in series	1000 V	One circuit	800 / 4	800 / 4	930 / 4 ²⁾	1000 / 4 ³⁾
Short circuit rating		kA, 1000 V	10	10	10	10
Protection type			Circuit breaker	Circuit breaker	Circuit breaker	Circuit breaker
Wire range		MCM	4 x #4 - 300	4 x #4 - 300	4 x #4 - 300	4 x #4 - 300
Cable lug			OZXA1200	OZXA1200	OZXA1200	OZXA1200
Technical data according to IEC		refer to	OTDC1000E	OTDC1250E	OTDC1250E	OTDC1600E

²⁾ When shrouds are used rated current I = 920A

³⁾ When shrouds are used rated current I = 980A



Switch-disconnectors OTDC and OTDCP

Ordering information

IEC	
16...32, 1000VDC	27
100...250, 1000VDC	32
315...500, 1000VDC	33
315...500, 1500VDC	37
630...800, 1000VDC	38
1000...1600, 1000VDC	39

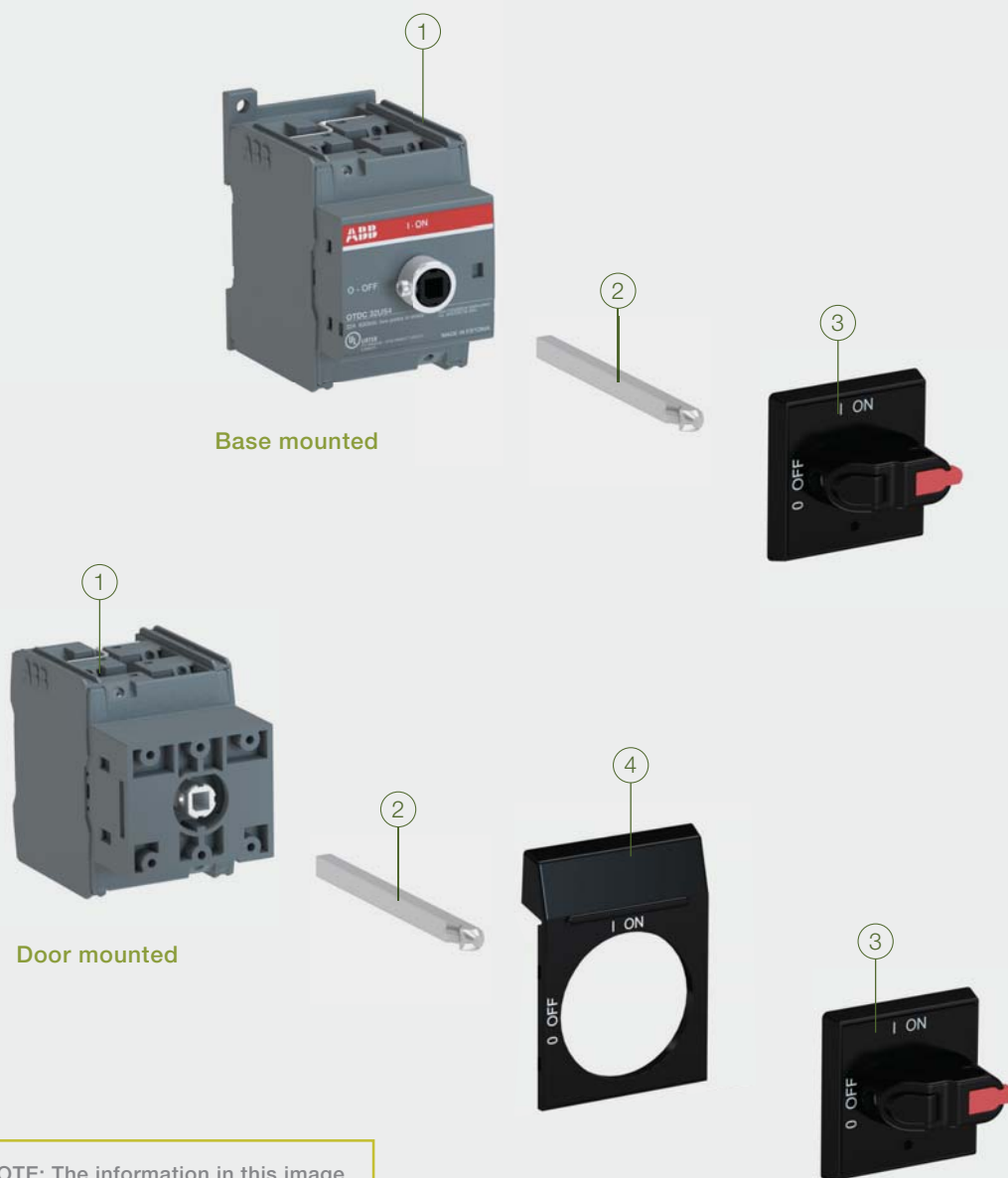
UL	
16...32, 1000VDC	41
100...200, 1000VDC	43
100...200, 1000VDC, side operated	44
250...400, 1000VDC	45
250...400, 1000VDC, side operated	46
250...400, 1500VDC	48
600, 1000VDC	49
800...1000, 1000VDC	50

Direct current switch-disconnectors are a perfect solution for any photovoltaic plant, regardless of size or geographical location.

Switch-disconnectors, IEC

Ordering information for OTDC16...32

3



NOTE: The information in this image applies to both IEC and UL versions of the depicted product.

DC switch-disconnectors accessory guide

- | | |
|------------------------|--|
| 1. Switch-disconnector | 3. Selector handle (options for direct mount or external mount with a shaft available) |
| 2. Shaft | 4. Legend plate |

Please note that not all listed accessories are automatically included in your order. See next page for recommendations.

Switch-disconnectors, IEC

Ordering information for OTDC16...32



OTDC16...32F2



OTDC16...32F3



OTDC16...32F4

Switch-disconnectors OTDC, base or DIN-rail mounting, IEC

Types OTDC16...32 include IP20 protected terminal clamps. Shafts and handles need to be ordered separately. s included in the package.

Single circuit use - up to 660 VDC

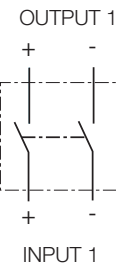
Number of poles	Rated operat. current [A] DC 21B / 660 V	Type	Order number	Weight/unit [kg]
2	16	OTDC16F2	1SCA121454R1001	0.15
2	25	OTDC25F2	1SCA121455R1001	0.15
2	32	OTDC32F2	1SCA121456R1001	0.15

Up to 1000 VDC

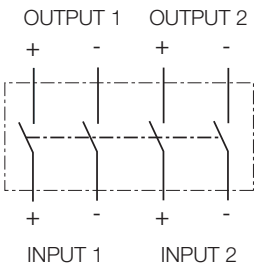
Number of poles	Rated operat. current [A] DC 21B / 1000 V	Type	Order number	Weight/unit [kg]
2	10	OTDC16F2	1SCA121454R1001	0.15
2	16	OTDC25F2	1SCA121455R1001	0.15
2	20	OTDC32F2	1SCA121456R1001	0.15
3	16	OTDC16F3	1SCA121457R1001	0.20
3	25	OTDC25F3	1SCA121458R1001	0.20
3	32	OTDC32F3	1SCA121459R1001	0.20

Double circuit use - up to 1000 VDC

Number of poles	Rated operat. current [A]		Type	Order number	Weight/unit [kg]
	DC21B / 660 V	DC21B / 1000 V			
2x2	16	10	OTDC16F4	1SCA121461R1001	0.25
2x2	25	16	OTDC25F4	1SCA121462R1001	0.25
2x2	32	20	OTDC32F4	1SCA121463R1001	0.25



Single circuit



Double circuit

Switch-disconnectors, IEC

Ordering information for OTDC16...32



OTDC16...32FT2



OTDC16...32FT3



OTDC16...32FT4

Switch-disconnectors OTDC_, door mounting, IEC

Types OTDC16...32 include IP20 protected terminal clamps. Shafts and handles need to be ordered separately. Jumpers included in the package.

Single circuit use - up to 660 VDC

Number of poles	Rated operat. current [A] DC 21B / 660 V	Type	Order number	Weight/unit [kg]
2	16	OTDC16FT2	1SCA123839R1001	0.15
2	25	OTDC25FT2	1SCA123842R1001	0.15
2	32	OTDC32FT2	1SCA123845R1001	0.15

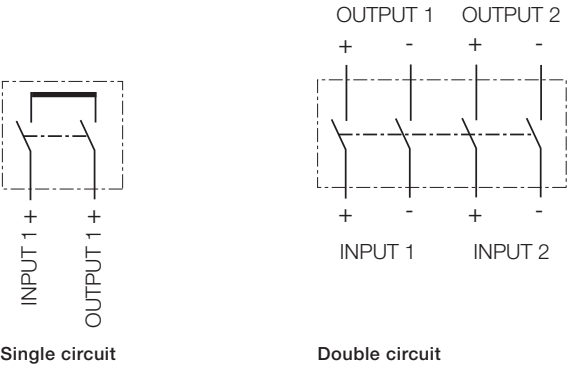
Up to 1000 VDC

Number of poles	Rated operat. current [A] DC 21B / 1000 V	Type	Order number	Weight/unit [kg]
2	10	OTDC16FT2	1SCA123839R1001	0.20
2	16	OTDC25FT2	1SCA123842R1001	0.20
2	20	OTDC25FT2	1SCA123845R1001	0.20
3	16	OTDC16FT3	1SCA123840R1001	0.20
3	25	OTDC25FT3	1SCA123843R1001	0.20
3	32	OTDC32FT3	1SCA123846R1001	0.20

Double circuit use - up to 1000 VDC

Number of poles	Rated operat. current [A]		Type	Order number	Weight/unit [kg]
	DC 21B / 660 V	DC 21B / 1000 V			
2x2	16	10	OTDC16FT4	1SCA123841R1001	0.25
2x2	25	16	OTDC25FT4	1SCA123844R1001	0.25
2x2	32	20	OTDC32FT4	1SCA123847R1001	0.25

> NOTE: The complete list of available accessories for OTDC16...32 can be found in the Accessories section starting on page 77.



Switch-disconnectors, IEC

Ordering information for OTDCP16...32



OTDCP_SA_



OTDCP_S_M20



OTDCP_S_M25

Plastic enclosed switch-disconnectors OTDCP_, IEC

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 / 1000 V	Type	Order number	Weight/unit [kg]
Includes red-yellow selector handle (I-O and ON-OFF indication)				
2	16	OTDCP16SA11M	1SCA125126R1001	0.55
2	25	OTDCP25SA11M	1SCA125127R1001	0.55
2	32	OTDCP32SA11M	1SCA125128R1001	0.55
Includes black selector handle (I-O 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 red-yellow selector handle (I-O and ON-OFF indication)				
3	16	OTDCP16SA12M	1SCA125150R1001	0.55
3	25	OTDCP25SA12M	1SCA125151R1001	0.55
3	32	OTDCP32SA12M	1SCA125152R1001	0.55
Includes black selector handle (I-O and ON-OFF indication)				
3	16	OTDCP16S12M	1SCA125153R1001	0.59
3	25	OTDCP25S12M	1SCA125154R1001	0.59
3	32	OTDCP32S12M	1SCA125155R1001	0.59

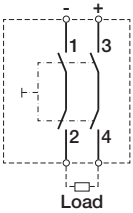
Up to 1000 VDC or 2x660 VDC

Number of poles	Rated operat. current [A] DC 21B / 1000 V	Type	Order number	Weight/unit [kg]
Includes red-yellow selector handle (I-O and ON-OFF indication). The _M25 versions have M25 threaded knockouts.				
4	16	OTDCP16SA22M	1SCA125094R1001	0.63
4	25	OTDCP25SA22M	1SCA125091R1001	0.63
4	32	OTDCP32SA22M	1SCA125090R1001	0.63
4	16	OTDCP16SA22M25	1SCA144900R1001	0.63
4	25	OTDCP25SA22M25	1SCA144902R1001	0.63
4	32	OTDCP32SA22M25	1SCA144904R1001	0.63
Includes black selector handle (I-O and ON-OFF indication)				
4	16	OTDCP16S22M	1SCA125095R1001	0.63
4	25	OTDCP25S22M	1SCA125092R1001	0.63
4	32	OTDCP32S22M	1SCA125093R1001	0.63

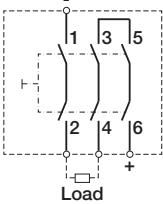
Switch-disconnectors, IEC

Ordering information for OTDCP16...32

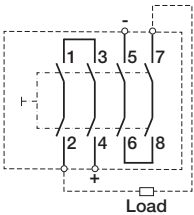
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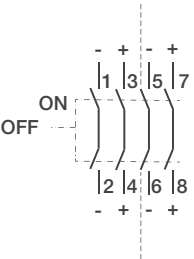
OTDCP_11_



OTDCP_12_



OTDCP_22_



OTDCCP22_22_MD

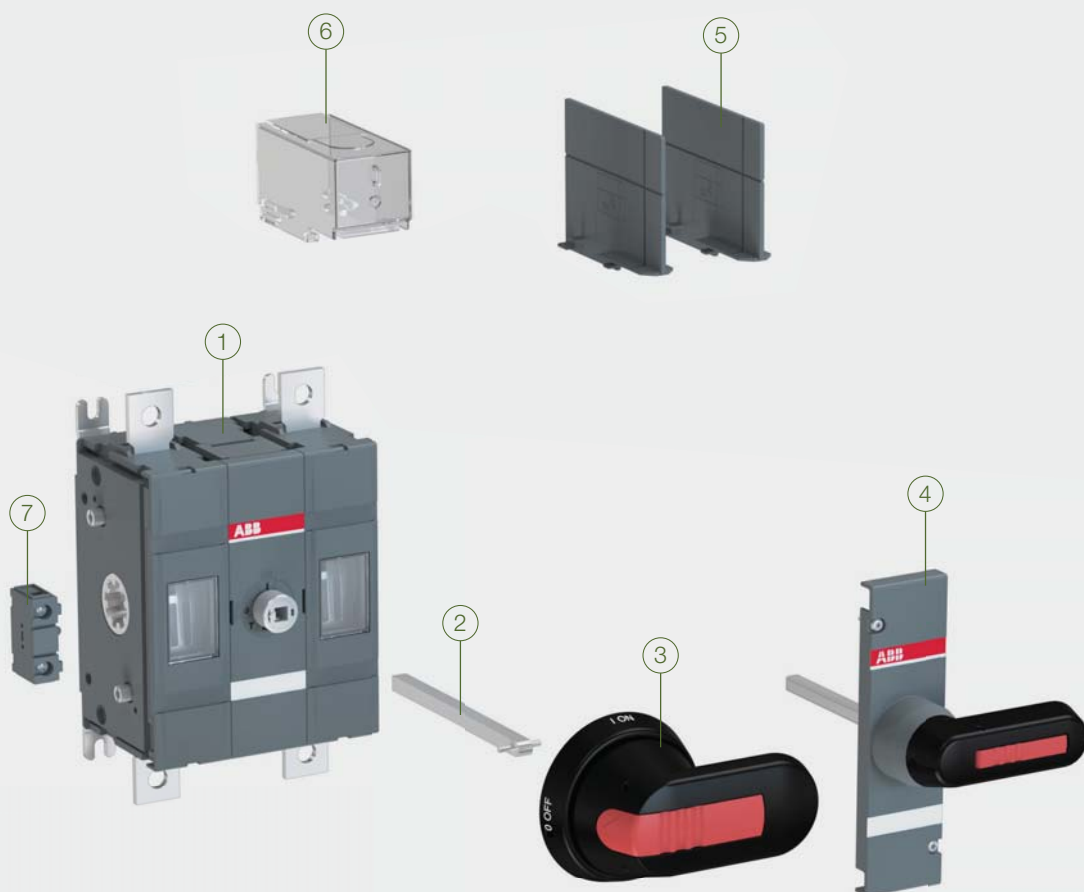
Double circuit

Number of poles	Rated operat. current [A]		Type	Order number	Weight/ unit [kg]
	DC 21B / 660 V	DC 21B / 1000 V			
Includes red-yellow selector handle (I-0 and ON-OFF indication)					
4	16	10	OTDCP16SA22MD	1SCA131850R1001	0.63
4	25	16	OTDCP25SA22MD	1SCA131851R1001	0.63
4	32	20	OTDCP32SA22MD	1SCA131852R1001	0.63
Includes black selector handle (I-0 and ON-OFF indication)					
4	16	10	OTDCP16S22MD	1SCA131730R1001	0.63
4	25	16	OTDCP25S22MD	1SCA131731R1001	0.63
4	32	20	OTDCP32S22MD	1SCA131732R1001	0.63

Switch-disconnectors, IEC

Ordering information for OTDC100...250

3



NOTE: The information in this image applies to both IEC and UL versions of the depicted product.

DC switch-disconnectors accessory guide

- | | |
|------------------------|----------------------|
| 1. Switch-disconnector | 5. Phase barriers |
| 2. Shaft | 6. Terminal shroud |
| 3. Pistol handle | 7. Auxiliary contact |
| 4. Direct mount handle | |

Please note that not all listed accessories are automatically included in your order.
See next page for recommendations.

Switch-disconnectors, IEC

Ordering information for OTDC100...250



OTDC100...250E02



OTDC100...250E11



OTDC100...250E22

Single circuit, 1000 VDC, IEC - 100...250 A

Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC200E02P) or direct mount handle (OTDC_K, e.g.OTDC200E02K) are available.

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/unit [kg]
Front operated, mechanism at the end of the switch.					
2	2a, 2b	100	OTDC100E02	1SCA125822R1001	1.1
2	2a, 2b	160	OTDC160E02	1SCA125840R1001	1.1
2	2a, 2b	200	OTDC200E02	1SCA123687R1001	1.1
2	2a, 2b	250	OTDC250E02	1SCA125866R1001	1.1
Front operated, mechanism between the poles. OTDC_EPP types include pre-mounted connection bars.					
2	2a, 2b	100	OTDC100E11	1SCA125821R1001	1.1
2	2a, 2b	160	OTDC160E11	1SCA123745R1001	1.1
2	2a, 2b	200	OTDC200E11	1SCA125626R1001	1.1
2	2a, 2b	250	OTDC250E11	1SCA125865R1001	1.1

Double circuit, 1000 VDC, IEC - 100...250 A

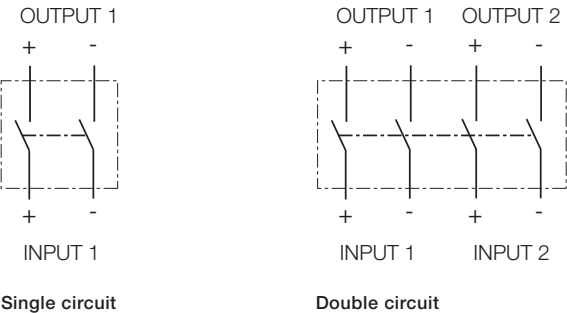
The switches OTDC_E22 can be used for double circuit applications. Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC200E22P) or direct mount handle (OTDC_K, e.g. OTDC200E22K) are available.

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/unit [kg]
Mechanism between the poles					
2x2	4a, 4c	100	OTDC100E22	1SCA125824R1001	1.9
2x2	4a, 4c	160	OTDC160E22	1SCA125844R1001	1.9
2x2	4a, 4c	200	OTDC200E22	1SCA125856R1001	1.9
2x2	4a, 4c	250	OTDC250E22	1SCA125869R1001	1.9

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC100...250	OXp6X210	OHb65J6	M8x25
OTDC100...250	-	OTdV250EK	M8x25

> NOTE: The complete list of available accessories for OTDC100...250 can be found in the Accessories section starting on page 77.



Switch-disconnectors, IEC

Ordering information for OTDC315...500



OTDC315...500E02



OTDC315...500E11

Single circuit, 1000 VDC, IEC - 315...500 A

Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400E02P) or direct mount handle (OTDC_K, e.g.OTDC400E02K) are available. Phase barriers are included in types OTDC315...500E02 - installation mandatory.

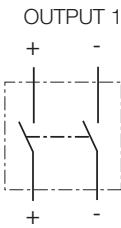
Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/unit [kg]
Front operated, mechanism at the end of the switch.					
2	2a, 2b	315	OTDC315E02	1SCA132337R1001	4.3
2	2a, 2b	400	OTDC400E02	1SCA132349R1001	4.3
2	2a, 2b	500	OTDC500E02	1SCA132357R1001	4.3
Front operated, mechanism between the poles. OTDC_EPP types include pre-mounted connection bars.					
2	2a, 2b	315	OTDC315E11	1SCA130982R1001	4.3
2	2a, 2b	400	OTDC400E11	1SCA130983R1001	4.3
2	2a, 2b	500	OTDC500E11	1SCA132135R1001	4.3

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC315...400	EXP12x185	OHB95J12	M10x30
OTDC500	EXP12x185	OHB95J12	M12x40
OTDC315...400	-	OTDV400EK	M10x30
OTDC500	-	OTDV400EK	M12x40



NOTE: The complete list of available accessories for OTDC315...500 can be found in the Accessories section starting on page 77.



Single circuit

Switch-disconnectors, IEC

Ordering information for OTDC315...500



3

OTDC315...500E22

Double circuit and load side combining, 1000 VDC, IEC - 315...500 A

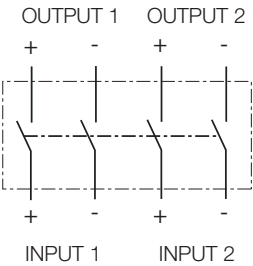
The switches OTDC_U22 can be used for double circuit applications or to create a combined output up to 1000 A. Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400E22P) or direct mount handle (OTDC_K, e.g.OTDC400E22K). Phase barriers are included. The connection kit for load side combining should be ordered separately.

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/unit [kg]
Mechanism between the poles					
2x2	4a, 6d	315	OTDC315E22	1SCA131001R1001	6.6
2x2	4a, 6d	400	OTDC400E22	1SCA131036R1001	6.6
2x2	4a, 6d	500	OTDC500E22	1SCA132142R1001	7

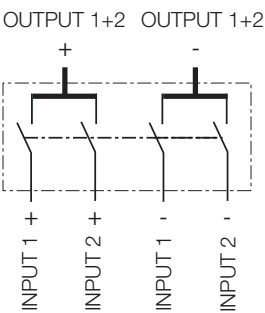
Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC315...400	EXP12x185	OHB95J12	M10x30
OTDC500	EXP12x185	OHB95J12	M12x40
OTDC315...400	-	OTDV400EK	M10x30
OTDC500	-	OTDV400EK	M12x40

> NOTE: The complete list of available accessories for OTDC315...500 can be found in the Accessories section starting on page 77.



Double circuit



Load side combining

Switch-disconnectors, IEC

Ordering information for OTDC315...500



OTDC315...500E33

Triple circuit and load side combining, up to 1000 VDC, IEC - 315...500 A

The switches OTDC_E33 can be used for triple circuit applications or to create a combined output up to 1500 A. Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400E33P) or direct mount handle (OTDC_K, e.g. OTDC400E33K) are available. Phase barriers included. Connection kits for load combining should be ordered separately.

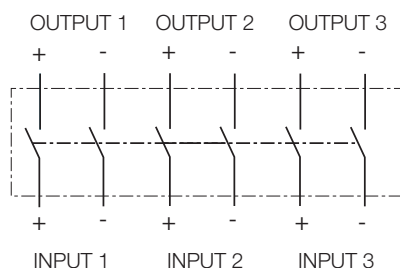
Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/ unit [kg]
Mechanism between the poles					
2x3	7a, 7e, 7d	315	OTDC315E33	1SCA137230R1001	6.6
2x3	7a, 7e, 7d	400	OTDC400E33	1SCA137231R1001	6.6
2x3	7a, 7e, 7d	500	OTDC500E33	1SCA137234R1001	6.6

Recommended shafts, handles and bolt kits

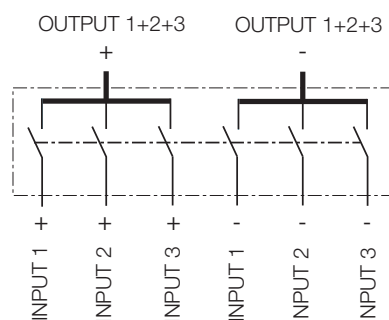
Suitable for switches	Shaft	Handle	Bolt kit
OTDC315...400	OXP12x185	0HB145J12	M10x30
OTDC500	OXP12x185	0HB145J12	M12x40
OTDC315...400	-	OTDV400EK	M10x30
OTDC500	-	OTDV400EK	M12x40

Required connection kits and shrouds for load side combining

Suitable for switches	Connection kit	Shroud
OTDC315...500	OTDCKIT400B111	OTDCS400T3L



Triple circuit



Load side combining

Switch-disconnectors, IEC

Ordering information for OTDC315...500

3



OTDC315...500EV12

Single circuit, 1500 VDC, IEC - 315...500 A

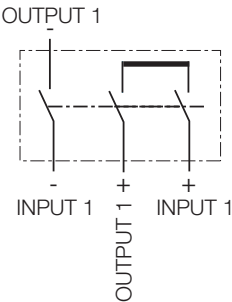
Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400EV12P) or direct mount handle (OTDC_K, e.g. OTDC400EV12K) are available. Phase barriers included.

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1500 V	Type	Order number	Weight/ unit [kg]
Mechanism between the poles, single circuit. Pre-mounted connection bar.					
3	5a	315	OTDC315EV12	1SCA132258R1001	5.1
3	5a	400	OTDC400EV12	1SCA132256R1001	5.1
3	5a	500	OTDC500EV12	1SCA132257R1001	5.1

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC315...400	EXP12x185	OH895J12	M10x30
OTDC500	EXP12x185	OH895J12	M12x40
OTDC315...400	-	OTDV400EK	M10x30
OTDC500	-	OTDV400EK	M12x40

> NOTE: The complete list of available accessories for OTDC315...500 can be found in the Accessories section starting on page 77.



Single PV Circuit

Switch-disconnectors, IEC

Ordering information for OTDC315...500



OTDC315...500E33

Double circuit, 1500 VDC, IEC - 315...500 A

Shaft, handles and connection kit are not included. Switches with external handle (OTDC_P, e.g. OTDC400EV12P) or direct mount handle (OTDC_K, e.g. OTDC400EV12K) are available. Phase barriers included.

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1500 V	Type	Order number	Weight/unit [kg]
Mechanism between the poles.					
2x3	7b, 7g	315	OTDC315E33	1SCA137230R1001	10.4
2x3	7b, 7g	400	OTDC400E33	1SCA137231R1001	10.4
2x3	7b, 7g	500	OTDC500E33	1SCA137234R1001	10.4

Recommended shafts, handles and bolt kits

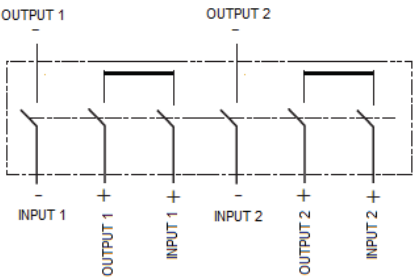
Suitable for switches	Shaft	Handle	Bolt kit
OTDC315...400	EXP12x185	OHB145J12	M10x30
OTDC500	EXP12x185	OHB145J12	M12x40
OTDC315...400	-	OTDV400EK	M10x30
OTDC500	-	OTDV400EK	M12x40

Required connection kits and shrouds

Suitable for switches	Connection kit	Shroud
OTDC315...500	OTDCKIT400S11	OTDCS400G2B



NOTE: The complete list of available accessories for OTDC315...500 can be found in the Accessories section starting on page 77.



Double PV Circuit

Switch-disconnectors, IEC

Ordering information for OTDC630...800



OTDC630...800EPP22

Single circuit, 1000 VDC, IEC - 630...800 A

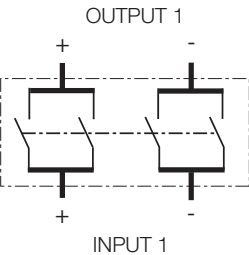
Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC630EPP22P) or direct mount handle (OTDC_K, e.g.OTDC630EPP22K) are available. Includes pre-mounted connection bars.

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/unit [kg]
Front operated, mechanism between the poles. OTDC_EPP types include pre-mounted connection bars.					
2x2	6c	630	OTDC630EPP22	1SCA137205R1001	7
2x2	6c	800	OTDC800EPP22	1SCA137210R1001	7

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC630...800	OXp12x185	0HB95J12	M12x40
OTDC630...800	-	OTDV400EK	M12x40

> NOTE: The complete list of available accessories for OTDC630...800 can be found in the Accessories section starting on page 77.



Single circuit

Switch-disconnectors, IEC

Ordering information for OTDC1000...1600



OTDC1000...1600E22



OTDC1000...1250E22

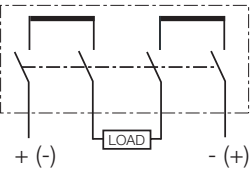


OTDC1600E22

Single circuit, 1000 VDC, IEC - 1000 to 1600 A

Front operated, mechanism at the end of the switch. Switches with external handle (OTDC_P, e.g. OTDC1600E22P) or direct mount handle (OTDC_K, e.g.OTDC1600E22K) are available. Phase barriers included. Included terminal bolts: M12X60.

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/unit [kg]
Handle and shaft not included					
4	6a, 6b	1000	OTDC1000E22	1SCA142337R1001	21
4	6a, 6b	1250	OTDC1250E22	1SCA140871R1001	21
4	6a, 6b	1600	OTDC1600E22	1SCA143718R1001	21
External handle OHB274J12 and shaft OXP12X280 included					
4	6a, 6b	1000	OTDC1000E22P	1SCA143711R1001	21
4	6a, 6b	1250	OTDC1250E22P	1SCA143717R1001	21
4	6a, 6b	1600	OTDC1600E22P	1SCA143720R1001	21
Direct mount handle OTV1000EK included					
4	6a, 6b	1000	OTDC1000E22K	1SCA143710R1001	21
4	6a, 6b	1250	OTDC1250E22K	1SCA143716R1001	21
4	6a, 6b	1600	OTDC1600E22K	1SCA143719R1001	21

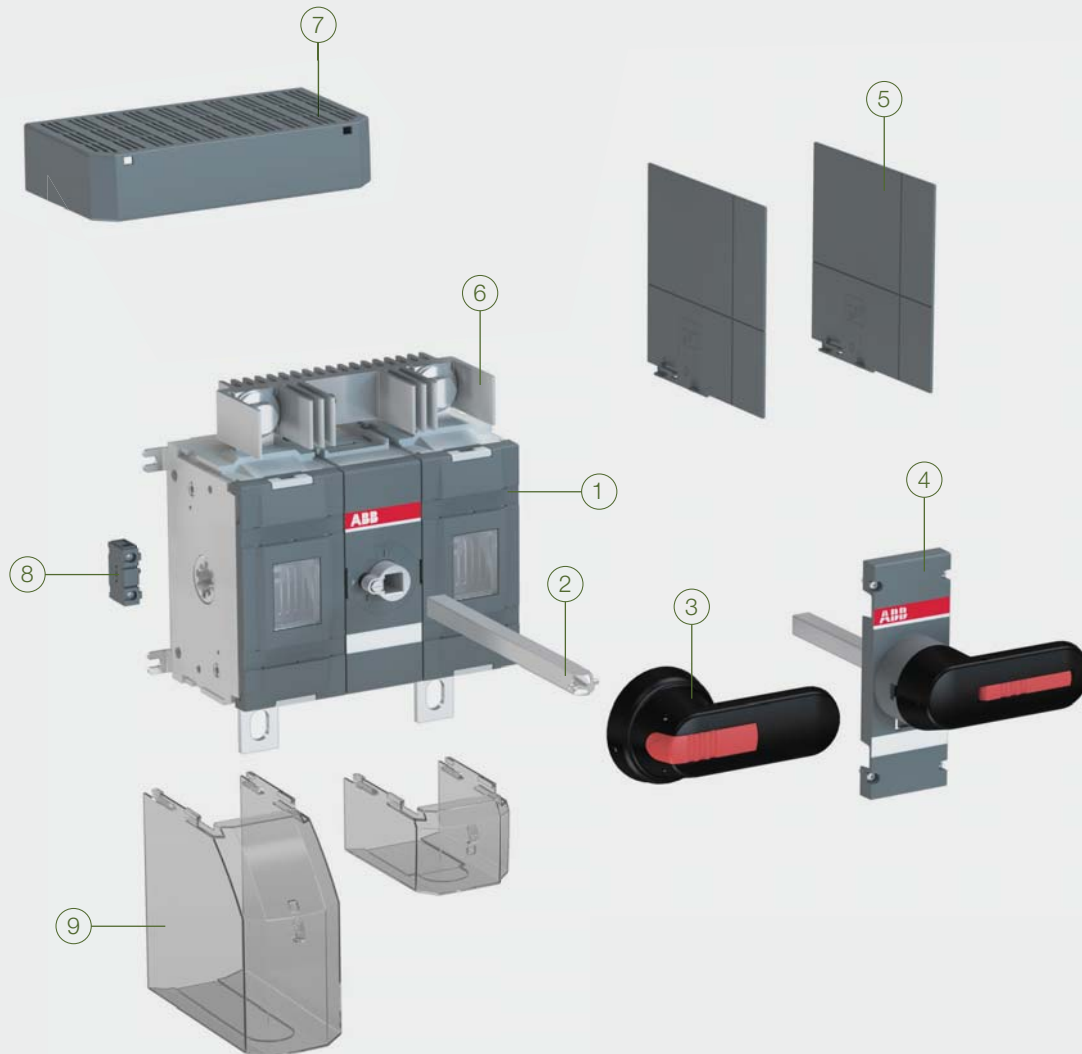


Single circuit

Disconnect switches, UL

Ordering information for OTDC315...500

3



DC switch-disconnectors accessory guide

- | | |
|------------------------|----------------------------------|
| 1. Disconnect switch | 6. Jumper (for grounded systems) |
| 2. Shaft | 7. Shroud |
| 3. Pistol handle | 8. Auxiliary contact |
| 4. Direct mount handle | 9. Terminal shrouds |
| 5. Phase barriers | |

Please note that not all listed accessories are automatically included in your order.
See next page for recommendations.

Disconnect switches, UL

Ordering information for OTDC16...32



OTDC16...32U2, OTDC16...32US2



OTDC16...32U4, OTDC16...32US4



OTDC16...32U6, OTDC16...32US6

Disconnect switches OTDC_, base or DIN-rail mounting, UL
Touch-safe IP20 protected terminal clamps included. Types OTDC16...32US include pre-mounted jumper. Shafts and handles to be ordered separately.

Single circuit

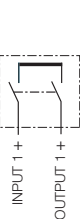
Number of poles	Rated operat. current [A]			Type	Order number	Weight/ unit [kg]
	UL	IEC				
	600 VDC	660 VDC	1000 VDC			
2	16	16	10	OTDC16U2	1SCA134369R1001	0.15
2	25	25	16	OTDC25U2	1SCA134375R1001	0.15
2	32	32	-	OTDC32U2	1SCA141976R1001	0.15
2	16	16	-	OTDC16US2	1SCA134372R1001	0.15
2	25	25	-	OTDC25US2	1SCA134378R1001	0.15

Double circuit

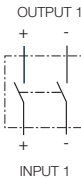
Number of poles	Rated operat. current [A]			Type	Order number	Weight/ unit [kg]
	UL	IEC				
	600 VDC	660 VDC	1000 VDC			
4	16	16	10	OTDC16U4	1SCA134370R1001	0.15
4	25	25	16	OTDC25U4	1SCA134377R1001	0.15
4	32	32	20	OTDC32U4	1SCA136703R1001	0.15
4	16	16	-	OTDC16US4	1SCA134373R1001	0.15
4	25	25	-	OTDC25US4	1SCA134379R1001	0.15
4	32	32	-	OTDC32US4	1SCA136704R1001	0.15

Triple circuit

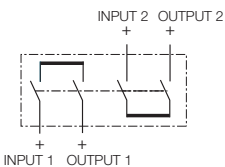
Number of poles	Rated operat. current [A]			Type	Order number	Weight/ unit [kg]
	UL	IEC				
	600 VDC	660 VDC	1000 VDC			
6	16	16	10	OTDC16U6	1SCA134371R1001	0.15
6	16	16	-	OTDC16US6	1SCA134374R1001	0.15
6	25	25	-	OTDC25U6	1SCA141960R1001	0.15
6	32	32	-	OTDC32U6	1SCA141963R1001	0.15



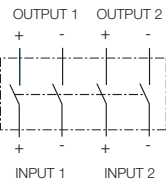
Single circuit, US types



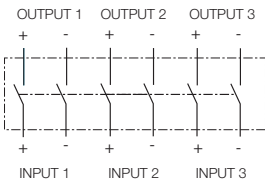
Single circuit, U types



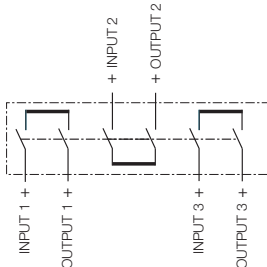
Double circuit, US types



Double circuit, U types



Triple circuit, U types



Triple circuit, US types

Disconnect switches, UL

Ordering information for OTDC16...32U_T



OTDC16...32UT2,
OTDC16...32UST2

OTDC16...32U_T

Touch-safe IP20 protected terminal clamps included. Types OTDC16...32US include pre-mounted jumper OEZXY86. Shafts and handles to be ordered separately.

Single circuit - up to 1000 VDC

Number of poles	Rated operat. current [A]			Type	Order number	Weight/ unit [kg]
	UL	IEC				
	600 VDC	660 VDC	1000 VDC			
2	16	16	10	OTDC16UT2	1SCA134387R1001	0.15
2	25	25	16	OTDC25UT2	1SCA134388R1001	0.15
2	16	16	-	OTDC16UST2	1SCA134581R1001	0.15
2	25	25	-	OTDC25UST2	1SCA134578R1001	0.15
2	32	32	-	OTDC32UT2	1SCA141966R1001	0.15



OTDC16...32UT4,
OTDC16...32UST4

Double circuit - up to 1000 VDC

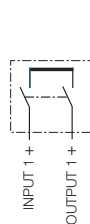
Number of poles	Rated operat. current [A]			Type	Order number	Weight/ unit [kg]
	UL	IEC				
	600 VDC	660 VDC	1000 VDC			
4	16	16	10	OTDC16UT4	1SCA134390R1001	0.15
4	25	25	16	OTDC25UT4	1SCA134391R1001	0.15
4	32	32	20	OTDC32UT4	1SCA136705R1001	0.15
4	16	16	-	OTDC16UST4	1SCA134582R1001	0.15
4	25	25	-	OTDC25UST4	1SCA134579R1001	0.15
4	32	32	-	OTDC32UST4	1SCA136706R1001	0.15



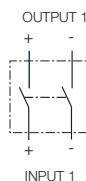
OTDC16...32UT6,
OTDC16...32UST6

Triple circuit - up to 1000 VDC

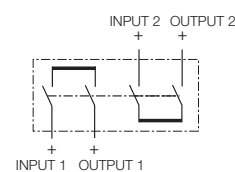
Number of poles	Rated operat. current [A]			Type	Order number	Weight/ unit [kg]
	UL	IEC				
	600 VDC	660 VDC	1000 VDC			
6	16	16	10	OTDC16UT6	1SCA134580R1001	0.15
6	16	16	-	OTDC16UST6	1SCA134583R1001	0.15



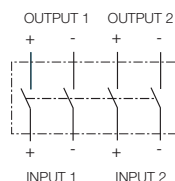
Single circuit, US types



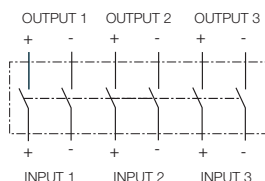
Single circuit, U types



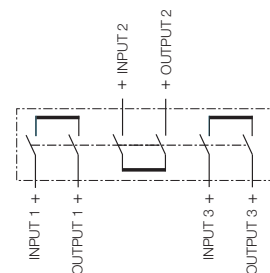
Double circuit, US types



Double circuit, U types



Triple circuit, U types



Triple circuit, US types

Disconnect switches, UL

Ordering information for OTDC100...200



OTDC100...200US02



OTDC100U...200US11



OTDC100...180US22



OTDC100...200U22

Single circuit, 1000 VDC, UL98B - 100 to 200 A

Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC100E02K) are available. Phase barriers are included in types OTDC100...200E02 - installation mandatory.

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/ unit [kg]
Front operated, mechanism at the end of the switch. OTDC_US types include pre-mounted jumpers					
2	1a, 1b	100	OTDC100US02	1SCA126155R1001	1.2
2	1a, 1b	200	OTDC200US02	1SCA126121R1001	1.2
2	2a, 2b	100	OTDC100U02	1SCA126184R1001	1.1
2	2a, 2b	200	OTDC200U02	1SCA126123R1001	1.1
Front operated, mechanism between the poles. OTDC_US types include pre-mounted jumpers					
2	1a, 1b	100	OTDC100US11	1SCA125437R1001	1.2
2	1a, 1b	200	OTDC200US11	1SCA125436R1001	1.2
2	2a, 2b	100	OTDC100U11	1SCA123957R1001	1.1
2	2a, 2b	200	OTDC200U11	1SCA123767R1001	1.1

Double circuit, 1000 VDC, UL98B -100...180 A

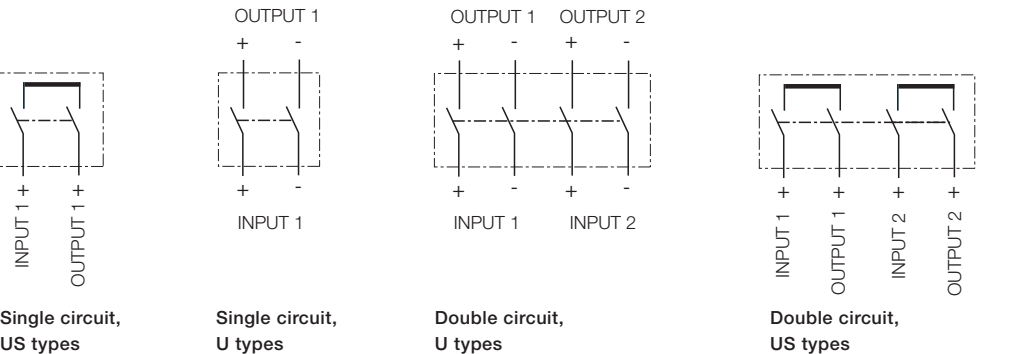
The switches OTDC_U22 and OTDCUS22 can be used for double circuit applications. Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC180U22K) are available. Phase barriers are included.

Number of poles	Circuit	Rated operat. current [A] UL98B, 1000 V	Type	Order number	Weight/ unit [kg]
Mechanism between the poles					
2X2	3, 6f	100	OTDC100US22	1SCA126181R1001	2.5
2X2	3, 6f	180	OTDC180US22	1SCA126942R1001	2.5
2X2	4a, 6d	100	OTDC100U22	1SCA126180R1001	2.3
2X2	4a, 6d	180	OTDC180U22	1SCA126941R1001	2.3

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC100...200	EXP6X210	OH665J6	M8x25
OTDC100...200	-	OTDV250EK	M8x25

> NOTE: The complete list of available accessories for OTDC100...200 can be found in the Accessories section starting on page 77.



Disconnect switches, UL

Ordering information for OTDC100...200



OTDC100...200U20S



OTDC100...200US20S

Single circuit, 1000 VDC, UL98B - 100...200 A

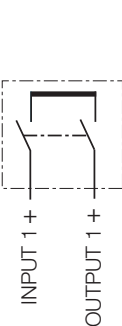
Side operation. Shafts and handles are not included. OTDC_US types include pre-mounted jumper. The mechanism is located at the end of the switch.

Number of poles	Circuit	Rated operat. current [A] UL98B, 1000 V	Type	Order number	Weight/unit [kg]
2	1a	100	OTDC100US20S	1SCA131541R1001	1.7
2	1a	200	OTDC200US20S	1SCA131549R1001	1.7
2	2a	100	OTDC100U20S	1SCA131540R1001	1.3
2	2a	200	OTDC200U20S	1SCA131548R1001	1.5

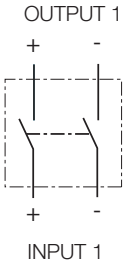
Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC100...250	EXP6X210	OHB65JE005	M8x25

> NOTE: The complete list of available accessories for OTDC100...200 can be found in the Accessories section starting on page 77.



Single circuit, US types



Single circuit, U types

Disconnect switches, UL

Ordering information for OTDC250...400



OTDC250...400US11



OTDC250...400U11

Single circuit, 1000 VDC, UL98B - 250 to 400 A

Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC400E02K) are available. Phase barriers are included in types OTDC250...400E02 - installation mandatory.

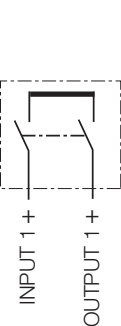
Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/unit [kg]
Front operated, mechanism at the end of the switch. OTDC_US types include pre-mounted jumpers					
2	1a, 1b	250	OTDC250US02	1SCA132335R1001	4.4
2	1a, 1b	320	OTDC320US02	1SCA132345R1001	4.4
2	1a, 1b	400	OTDC400US02	1SCA132354R1001	4.4
2	2a, 2b	250	OTDC250U02	1SCA132330R1001	3.8
2	2a, 2b	320	OTDC320U02	1SCA132341R1001	3.8
2	2a, 2b	400	OTDC400U02	1SCA132352R1001	3.8
Front operated, mechanism between the poles. OTDC_US types include pre-mounted jumpers					
2	1a, 1b	250	OTDC250US11	1SCA131012R1001	4.4
2	1a, 1b	320	OTDC320US11	1SCA131013R1001	4.4
2	1a, 1b	400	OTDC400US11	1SCA131014R1001	4.4
2	2a, 2b	250	OTDC250U11	1SCA130985R1001	3.8
2	2a, 2b	320	OTDC320U11	1SCA130986R1001	3.8
2	2a, 2b	400	OTDC400U11	1SCA130990R1001	3.8

Recommended shafts, handles and bolt kits

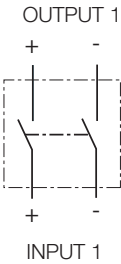
Suitable for switches	Shaft	Handle	Bolt kit
OTDC250...320	OX P12x185	OH B95J12	M10x30
OTDC400	OX P12x185	OH B95J12	M12x40
OTDC250...320	-	OTD V400EK	M10x30
OTDC400	-	OTD V400EK	M12x40



NOTE: The complete list of available accessories for OTDC250...400 can be found in the Accessories section starting on page 77.



Single circuit, US types



Single circuit, U types

Disconnect switches, UL

Ordering information for OTDC250...400



OTDC250...400U20S

Side operated, single circuit, 1000 VDC, UL98B - 250...400 A

Side operated, mechanism at the end of the switch. OTDC_US types include pre-mounted jumpers. Included terminal bolts:

- OTDC250...320: M10x30

- OTDC400: M12x40

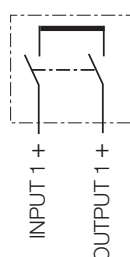
Number of poles	Circuit	Rated operat. current [A] UL98B, 1000 V	Type	Order number	Weight/unit [kg]
Single circuit					
2	1a	250	OTDC250US20S	1SCA135730R1001	4.4
2	1a	320	OTDC320US20S	1SCA135734R1001	4.4
2	1a	400	OTDC400US20S	1SCA135726R1001	4.4
2	2a	250	OTDC250U20S	1SCA135729R1001	3.8
2	2a	320	OTDC320U20S	1SCA135733R1001	3.8
2	2a	400	OTDC400U20S	1SCA135725R1001	3.8

Recommended shafts, handles and bolt kits

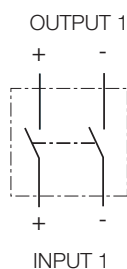
Suitable for switches	Shaft	Handle	Bolt kit
OTDC250...320	OXF12x185	OHB145J12E00S	M10x30
OTDC400	OXF12x185	OHB145J12E00S	M12x40
OTDC250...320	-	OTDV400EK	M10x30
OTDC400	-	OTDV400EK	M12x40



NOTE: The complete list of available accessories for OTDC100...400 can be found in the Accessories section starting on page 77.



Single circuit, US types



Single circuit, U types

Disconnect switches, UL

Ordering information for OTDC250...400



OTDC250...400US22



OTDC250...400U22

Double circuit, 1000 VDC, UL98B -250...400 A

The switches OTDC_U22 and OTDCUS22 can be used for double circuit applications or to create a combined output up to 800 A. Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC400U22K) are available. Phase barriers are included. The connection kit for load side combining should be ordered separately.

Number of poles	Circuit	Rated operat. current [A] UL98B, 1000 V	Type	Order number	Weight/unit [kg]
Mechanism between the poles					
2X2	3, 6f	250	OTDC250US22	1SCA131030R1001	6.6
2X2	3, 6f	320	OTDC320US22	1SCA131032R1001	6.6
2X2	3, 6f	400	OTDC400US22	1SCA132300R1001	6.6
2X2	4a, 6d	250	OTDC250U22	1SCA131003R1001	6.6
2X2	4a, 6d	320	OTDC320U22	1SCA131006R1001	6.6
2X2	4a, 6d	400	OTDC400U22	1SCA131010R1001	6.6

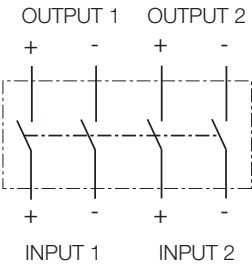
Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC250...320	OXp12x185	OHb95J12	M10x30
OTDC400	OXp12x185	OHb95J12	M12x40
OTDC250...320	-	OTdV400EK	M10x30
OTDC400	-	OTdV400EK	M12x40

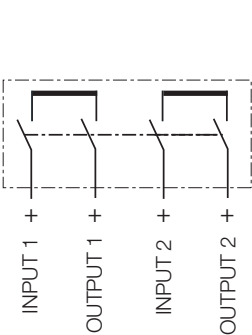
Required connection kit and shrouds for load side combining

Suitable for switches	Connection kit	Shroud
OTDC250...400	OTdCKIT400B111	OTdCS400T2L

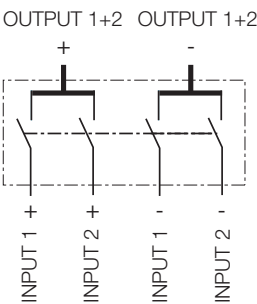
> NOTE: The complete list of available accessories for OTDC250...400 can be found in the Accessories section starting on page 77.



Double circuit, U types



Double circuit, US types



Load side combining

Disconnect switches, UL

Ordering information for OTDC250...400



OTDC250...400UV12



OTDC250USV12

Single circuit, 1500 VDC, UL 98B - 250...400 A

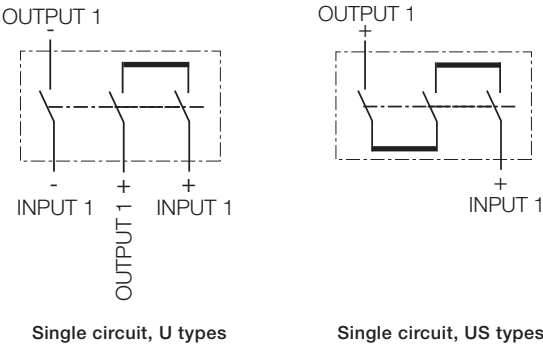
Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC250U12K) are available. Phase barriers included.

Number of poles	Circuit	Rated operat. current [A] UL98B, 1000 V	Type	Order number	Weight/unit [kg]
Mechanism between the poles					
3	5a	250	OTDC250U12	1SCA135619R1001	4.7
3	5a	320	OTDC320U12	1SCA135791R1001	4.7
3	5a	400	OTDC400U12	1SCA135792R1001	4.7
3	5c	250	OTDC250USV12	1SCA140833R1001	5.6
3	5c	320	OTDC320USV12	1SCA140835R1001	5.6
3	5c	400	OTDC400USV12	1SCA140834R1001	5.6

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC250...320	EXP12x185	OH95J12	M10x30
OTDC400	EXP12x185	OH95J12	M12x40
OTDC250...320	-	OTDV400EK	M10x30
OTDC400	-	OTDV400EK	M12x40

> NOTE: The complete list of available accessories for OTDC250...400 can be found in the Accessories section starting on page 77.



Disconnect switches, UL

Ordering information for OTDC600



OTDC600USPP22



OTDC600UPP22

Single circuit, 1000 VDC, UL98B - 600 A

Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC600UPP22P) or direct mount handle (OTDC_K, e.g.OTDC600UPP22K) are available. Phase barriers included if mandatory. Includes pre-mounted connection bars.

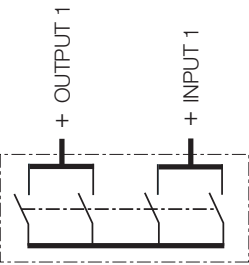
Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/unit [kg]
Front operated, mechanism between the poles. OTDC_US and OTDC_U_PP types include pre-mounted jumpers					
4	6e	600	OTDC600USPP22	1SCA137213R1001	7
4	6c	600	OTDC600UPP22	1SCA137207R1001	7

Recommended shafts, handles and bolt kits

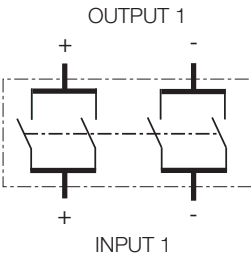
Suitable for switches	Shaft	Handle	Bolt kit
OTDC600	OSP12x185	OHB95J12	M12x40
OTDC600	-	OTDV400EK	M12x40

>

NOTE: The complete list of available accessories for OTDC600 can be found in the Accessories section starting on page 77.



Single circuit, US types



Single circuit, U types

Disconnect switches, UL

Ordering information for OTDC800...1000

3



OTDC800...1000U22



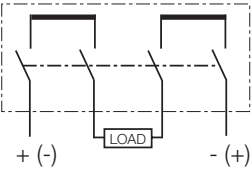
OTDC800...1000US22

Single circuit, 1000 VDC, UL98B - 800 to 1000 A

Shafts and handles are not included. Switches with direct handle OTV1000EK (OTDC_K, e.g. OTDC400E02K) are available. Phase barriers are included if mandatory (phase barriers are included in types OTDC250...400E02 - installation mandatory). Included terminal bolts:
 - OTDC800...1000: M12X60

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Order number	Weight/unit [kg]
Front operated, mechanism between the poles. OTDC_US and OTDC_U_PP types include pre-mounted jumpers					
4	6a, 6b	800	OTDC800U22	1SCA142338R1001	21
4	6a, 6b	1000	OTDC1000U22	1SCA143712R1001	21
4	6a, 6b	800	OTDC800U22K	1SCA143721R1001	21
4	6a, 6b	1000	OTDC1000U22K	1SCA143713R1001	21
4	6m	800	OTDC800US22	1SCA142339R1001	21
4	6m	930	OTDC1000US22	1SCA143714R1001	21
4	6m	800	OTDC800US22K	1SCA143722R1001	21
4	6m	930	OTDC1000US22K	1SCA143715R1001	21

> NOTE: The complete list of available accessories for OTDC800...1000 can be found in the Accessories section starting on page 77.



Single circuit





Switch-disconnectors OTDC and OTDCP

Circuits

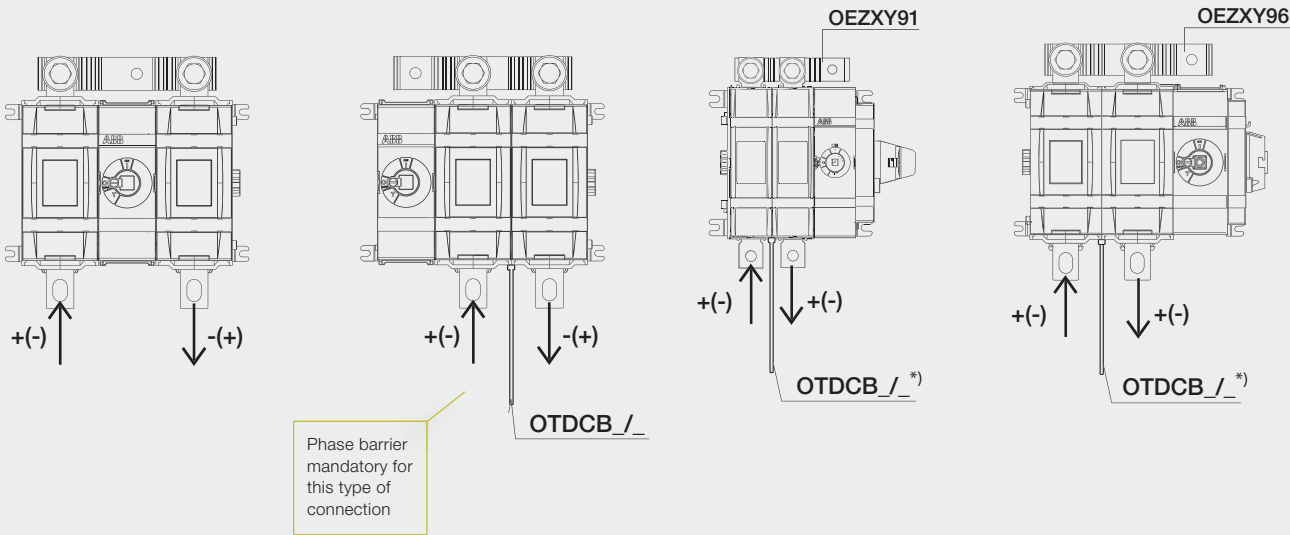
Circuits	
Circuit 1a, 1b	54
Circuit 2a, 2b	54
Circuit 3	55
Circuit 4a	55
Circuit 5a, 5c	56
Circuit 6a, 6b, 6c, 6d	57
Circuit 6e, 6f, 6m	58
Circuit 7a, 7b, 7d	59
Special solutions	60

The modular design of the direct current switch-disconnectors enables a wide variety of configurations and multiple circuits.

Switch-disconnectors OTDC and OTDCP Circuits

4

Circuit 1a, 1b, 1000 VDC



Circuit 1a

Accessories for OTDC100...250E

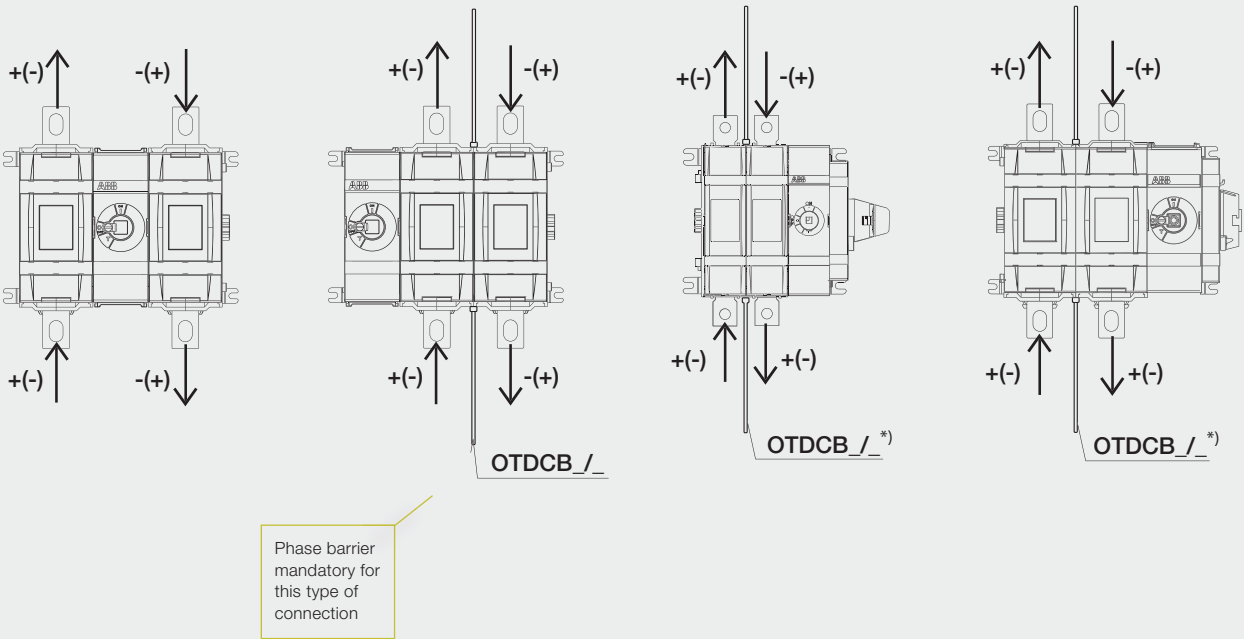
Description	Type	Order number	Needed quantity
Jumper-KIT	OEZXY91	1SCA125290R1001	1
Shroud	OEZXY92	1SCA127382R1001	1

Circuit 1a, 1b

Accessories for OTDC315...500E,OTDC250...400U

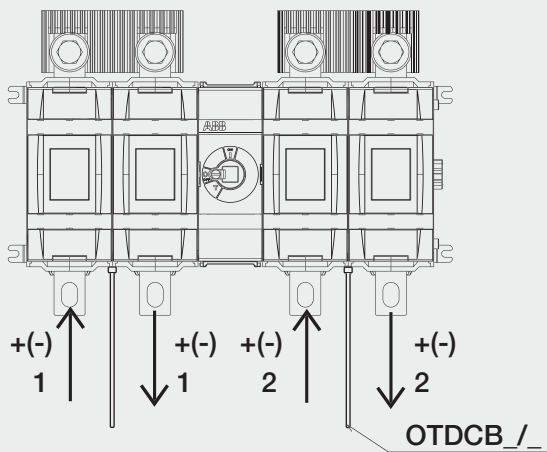
Description	Type	Order number	Needed quantity
Jumper-KIT	OTDCKIT400S101	1SCA136280R1001	1
Shroud	OEZXY97	1SCA130816R1001	1

Circuit 2a, 2b, 1000 VDC



Switch-disconnectors OTDC and OTDCP Circuits

Circuit 3, 1000 VDC - Double circuit



Circuit 3

Accessories for OTDC100...250E

Description	Type	Order number	Needed quantity
Jumper-KIT	OEZXY91	1SCA125290R1001	2
Shroud	OEZXY92	1SCA127382R1001	2

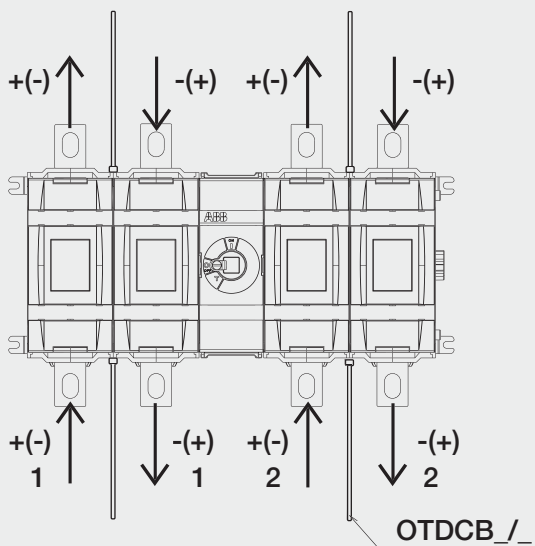
Circuit 3

Accessories for OTDC315...500E, OTDC250...400U

Description	Type	Order number	Needed quantity
Jumper-KIT	OTDCKIT400S11	1SCA136281R1001	2
Shroud	OTDCS400G2B	1SCA136273R1001	2

Phase barrier mandatory for this type of connection

Circuit 4a, 1000 VDC - Double circuit

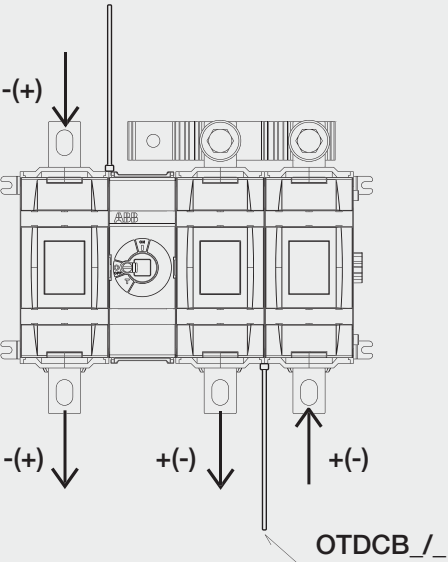


Phase barrier mandatory for this type of connection

Switch-disconnectors OTDC and OTDCP Circuits

4

Circuit 5a,1500 VDC

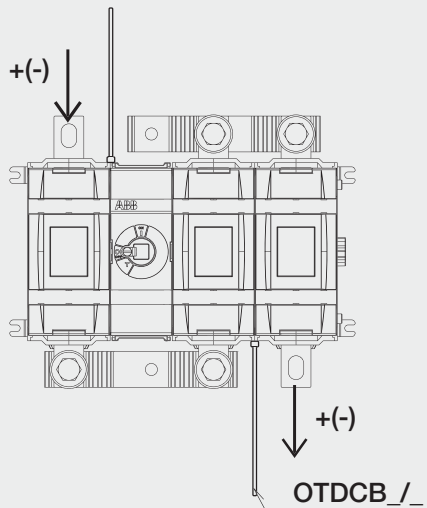


Phase barrier
mandatory for
this type of
connection

Circuit 5a

Accessories for OTDC315...500EV, OTDC250...400UV			
Description	Type	Order number	Needed quantity
Jumper-KIT	OTDCKIT400S101	1SCA136280R1001	1
Shroud	OEZXY97	1SCA130816R1001	1

Circuit 5c,1500 VDC



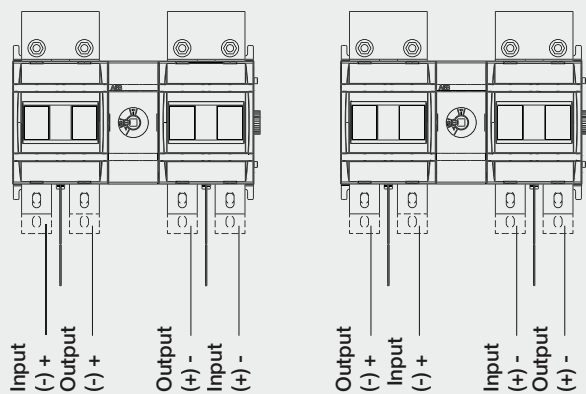
Phase barrier
mandatory for
this type of
connection

Circuit 5c

Accessories for OTDC250...400USV			
Description	Type	Order number	Needed quantity
-KIT	OTDCKIT400S101	1SCA136280R1001	2
Shroud	OEZXY97	1SCA130816R1001	2

Switch-disconnectors OTDC and OTDCP Circuits

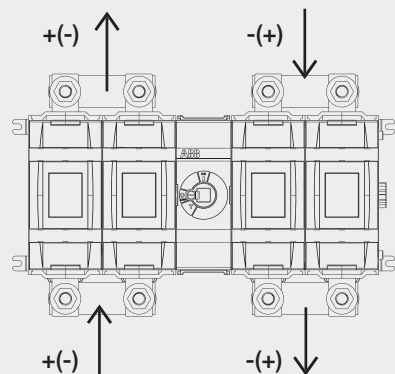
Circuit 6a, 6b



Circuit 6a, 6b

Accessories for OTDC1000...1600E22_, OTDC800...1000U22_			
Description	Type	Order number	Needed quantity
Connection -KIT	OTDCKIT1250B11	1SCA143479R1001	2
Shroud	OTDCS1250T1	1SCA144019R1001	2

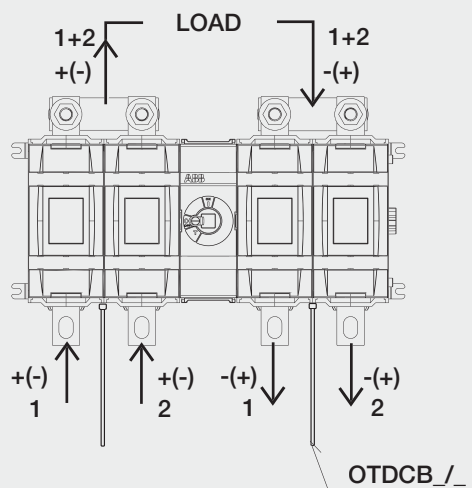
Circuit 6c, 1000 VDC



Circuit 6c

Accessories for OTDC630...800EPP, OTDC600UPP			
Description	Type	Order number	Needed quantity
Jumper-KIT	-	-	-
Shroud	OTDCS400T2L	1SCA136275R1001	4

Circuit 6d, 1000 VDC - Load side combining



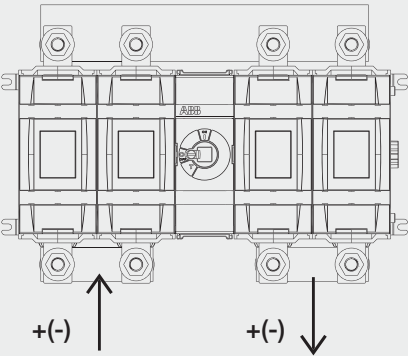
Circuit 6d

Accessories for OTDC315...500E, OTDC250...400U			
Description	Type	Order number	Needed quantity
Needed connection bar kit	OTDCKIT400B11	1SCA136282R1001	2
Shroud	OTDCS400T2L	1SCA136275R1001	2

Switch-disconnectors OTDC and OTDCP Circuits

4

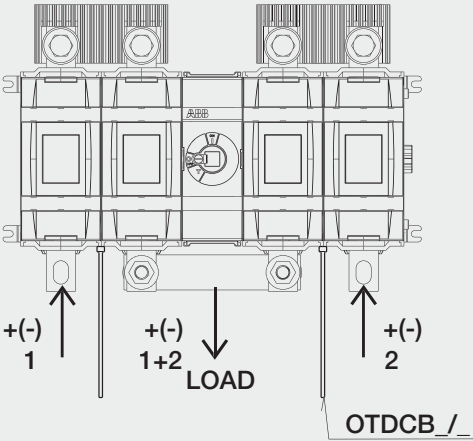
Circuit 6e, 1000 VDC



Circuit 6e

Accessories for OTDC600USPP			
Description	Type	Order number	Needed quantity
Jumper-KIT	-	-	-
Shroud	OTDCS400T2L	1SCA136275R1001	2
	OTDCS400G4B	1SCA136274R1001	1

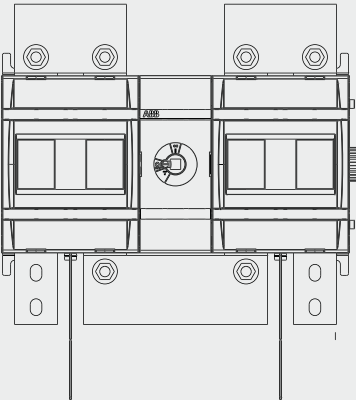
Circuit 6f, 1000 VDC -
Load side combining



Circuit 6f

Accessories for OTDC250...400US						
Description	Type	Order number	Needed	Type	Order number	Needed
Needed connection bar kit	OTDCKIT400B101	1SCA136283R1001	2	-	-	-
Shroud	OTDCS400G2B	1SCA136273R1001	1	OTDCS400T2L	1SCA136274R1001	2

Circuit 6m

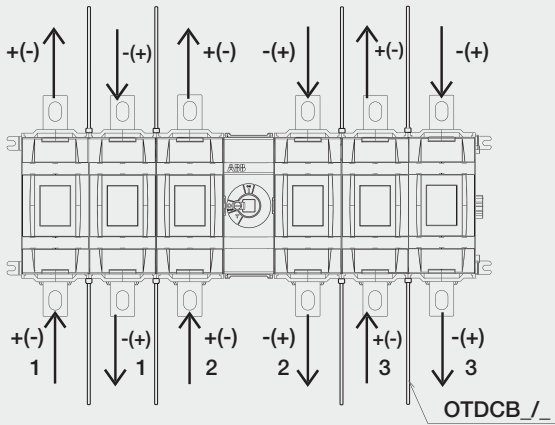


Circuit 6m

Accessories for OTDC800...1000US22_			
Description	Type	Order number	Needed quantity
Connection -KIT	OTDCKIT1250B11	1SCA143479R1001	2
Shroud	OTDCS1250T1	1SCA144019R1001	2
Connection -KIT	OTDCKIT1250B101	1SCA142335R1001	1
Shroud	OTDCS1250T2	1SCA144021R1001	1

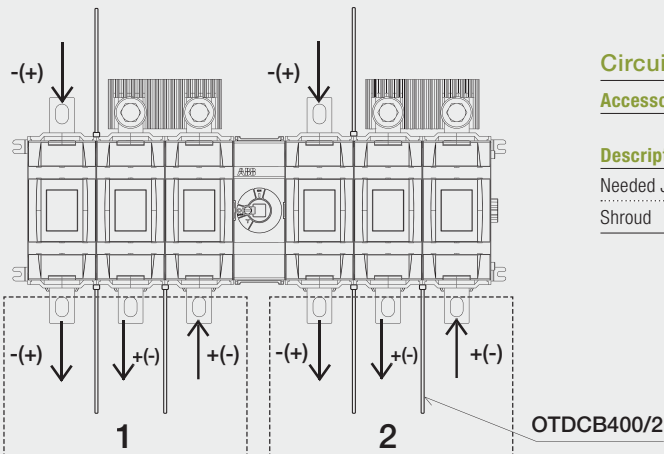
Switch-disconnectors OTDC and OTDCP Circuits

Circuit 7a, 1000 VDC



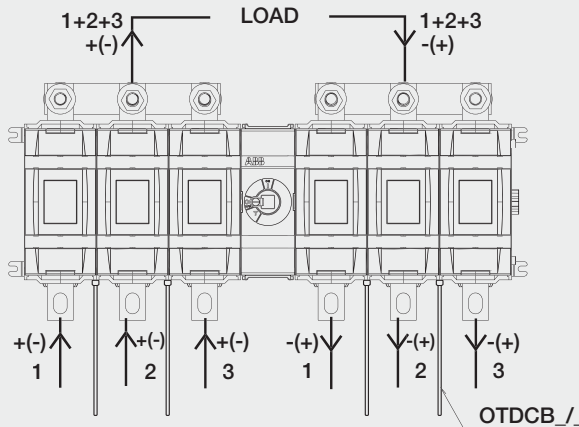
Phase barrier
mandatory for
this type of
connection

Circuit 7b, 1500 VDC



Phase barrier
mandatory for
this type of
connection

Circuit 7d, 1000 VDC



Phase barrier
mandatory for
this type of
connection

Circuit 7b

Accessories for OTDC315...500E

Description	Type	Order number	Needed quantity
Needed Jumper-KIT	OTDCKIT400S11	1SCA136281R1001	2
Shroud	OTDCS400G2B	1SCA136274R1001	2

Circuit 7d

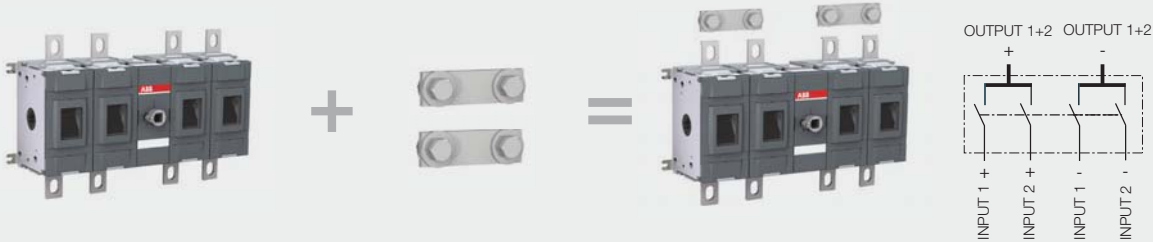
Accessories for OTDC315...500E

Description	Type	Order number	Needed quantity
Needed Jumper-KIT	OTDCKIT400B111	1SCA136284R1001	2
Recommended shroud	OTDCS400T3L	1SCA136276R1001	2

Switch-disconnectors OTDC and OTDCP Special solutions

4

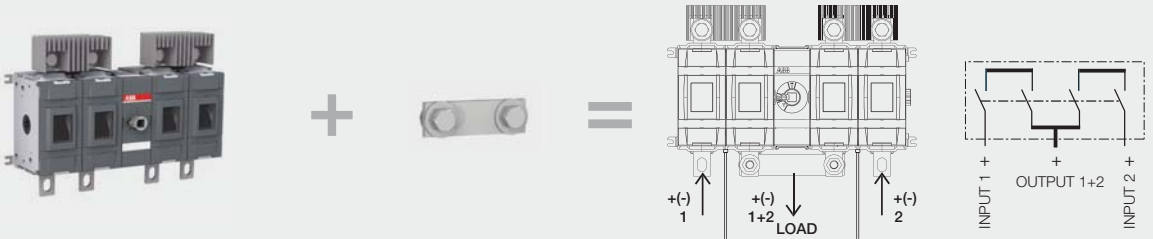
Combined current outputs



Switch types
OTDC315...500E22 (IEC)
OTDC250...400U22 (UL98B)

2 pcs connection
bar kits
OTDCKIT400B11

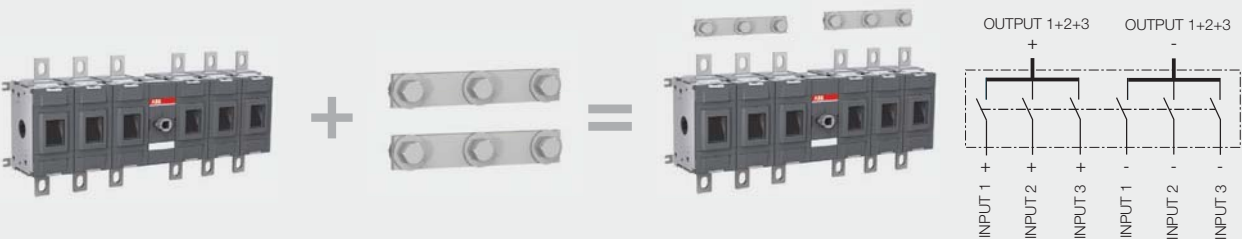
Combined output
(current from input 1 + current from input 2):
Up to 1000 A (IEC)
Up to 800 A (UL)



Switch types
OTDC250...400US22 (UL98B)

1 pc connection
bar kits
OTDCKIT400B101

Combined output
(current from input 1 + current from input 2):
Up to 800 A (UL)



Switch types
OTDC315...500E33 (IEC)

2 pcs connection
bar kits
OTDCKIT400B111

Combined output
Currents input 1+2+3 =
Up to 1000 A (IEC)

**Up to 1000 A output in
a 34% more compact
solution.**

Switch-disconnectors OTDC and OTDCP

Special solutions

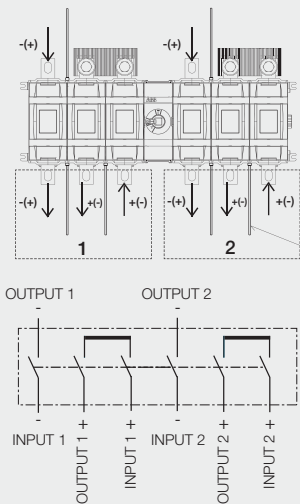
Disconnecting of two circuits with one switch, 1500 VDC



Switch types
OTDC315...500E33 (IEC)



2 x connection bars
OTDCKIT400S11

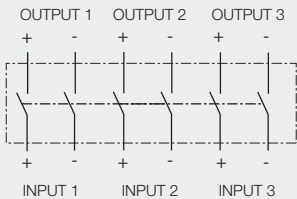


Disconnection of two
1500 VDC circuits

Disconnecting of three circuits with one switch, 1000 VDC



Switch types
(no extra kits needed)
OTDC315...500E33 (IEC)





Switch-disconnectors OTDC and OTDCP

Dimensional drawings

Dimensional drawings

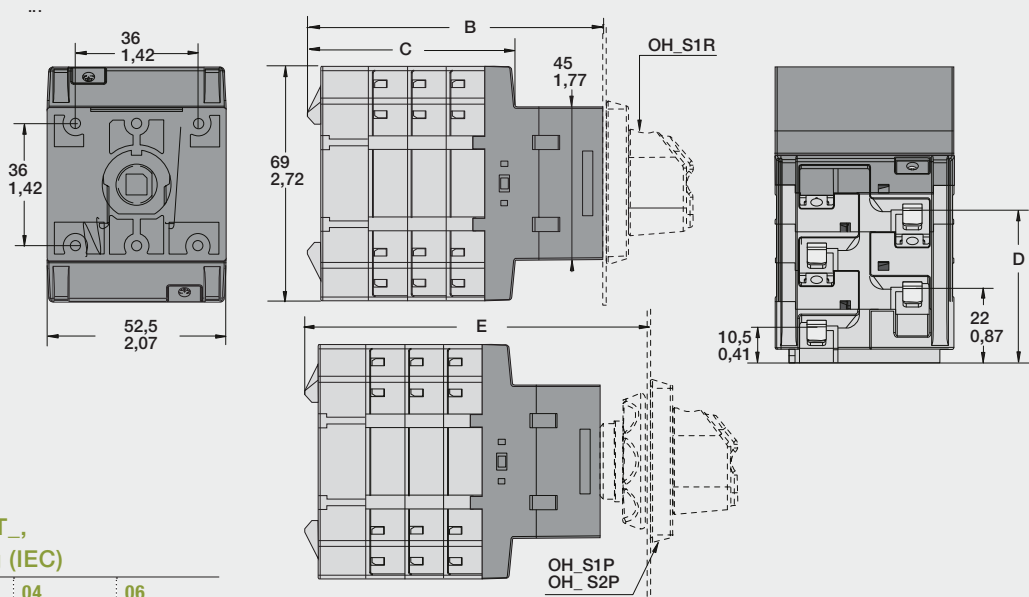
16...32 (IEC and UL), door mounting	64
16...32 (IEC and UL), base mounting	65
100...250 (IEC), 100...200 (UL)	66
315...800 (IEC), 250...600 (UL)	67
100...400 (UL), side operated	68
Enclosed switch-disconnectors, jumpers	69
Connection bars	70
Plastic handles	71
Handles for base and DIN-rail mounted switches	72
Shrouds	72

The compact design and dimensioning of these devices makes them fast and easy to install in all conditions.

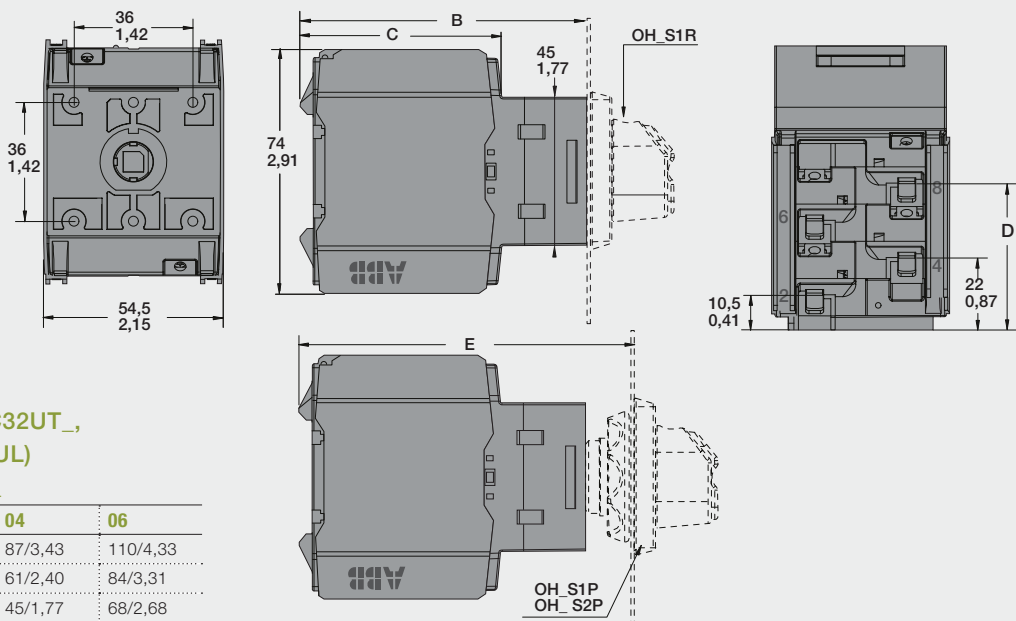
Switch-disconnectors OTDC and OTDCP

Dimensional drawings

5



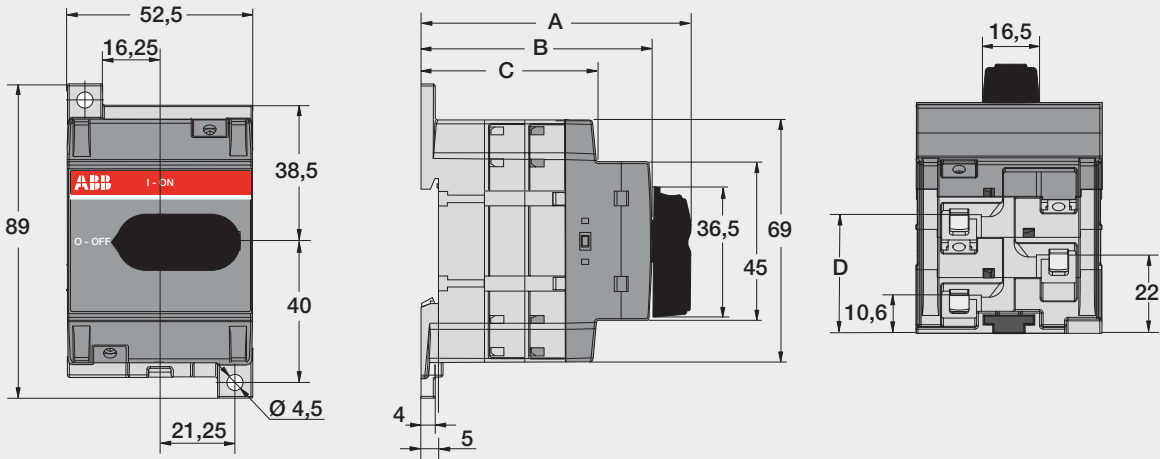
M00470/OTDC16-36UT_ A



M00470/OTDC16-36UT_ C

Switch-disconnectors OTDC and OTDCP

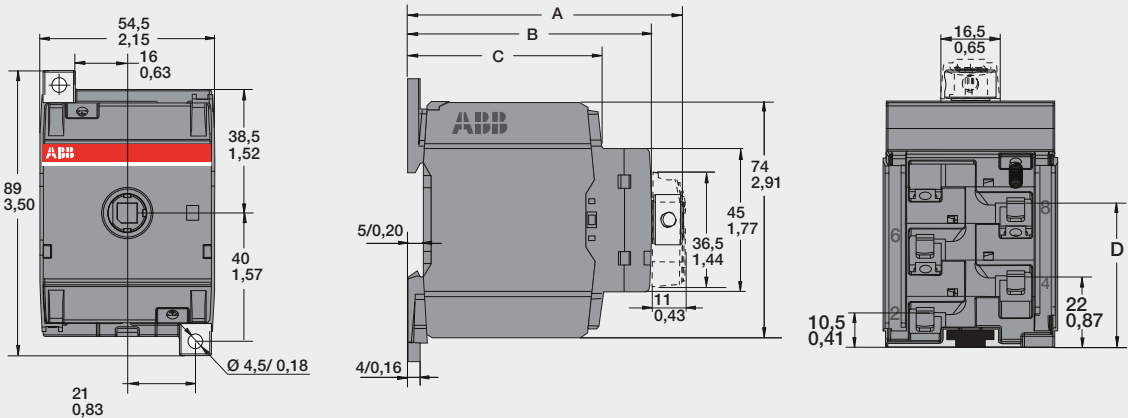
Dimensional drawings



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

S07151 / M00371 / OTDC16-32_ B



OTDC 16-36U_

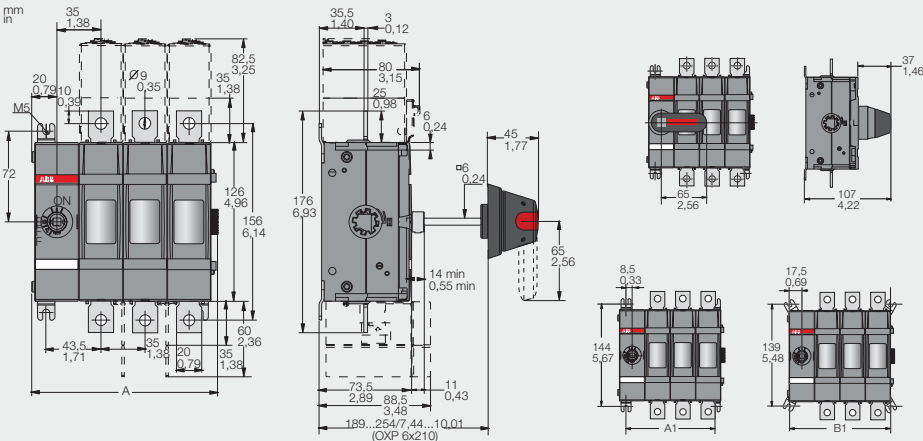
[mm/in]	02	04	06
A	64/2,52	87/3,43	109,5/4,31
B	54/2,13	77/3,03	100/3,94
C	38,5/1,52	61/2,40	84/3,31
D	22/0,87	45/1,77	67,5/2,66

M00469/OTDC16-36U_ C

Switch-disconnectors OTDC and OTDCP

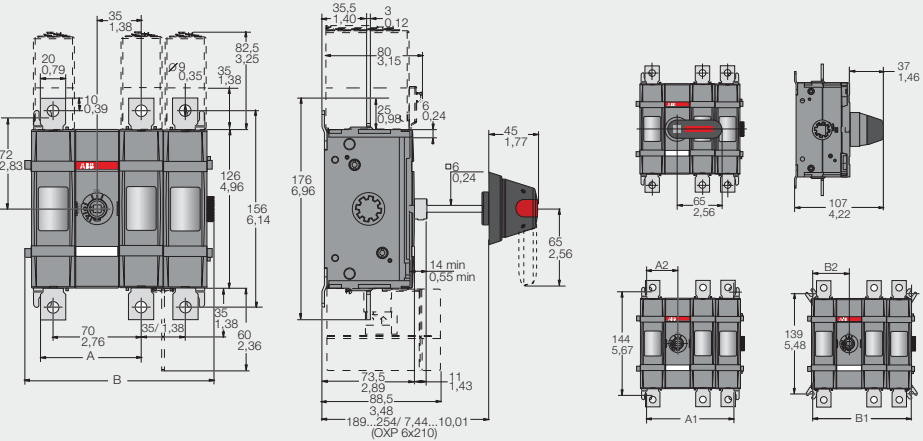
Dimensional drawings

5



OTDC100, 160, 200,
250E01...04K

OTDC100, 180,
200U0, 200U01...04K



OTDC100, 160, 200,
250E11...22K

OTDC100, 180,
200U11...22K

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

[mm/in]	01	02	03	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

M00415/OTDC200-250E11-22 A

OTDC100, 160, 200, 250E11...22
OTDC100, 200U11...22

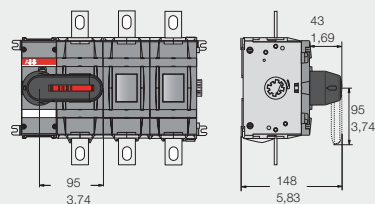
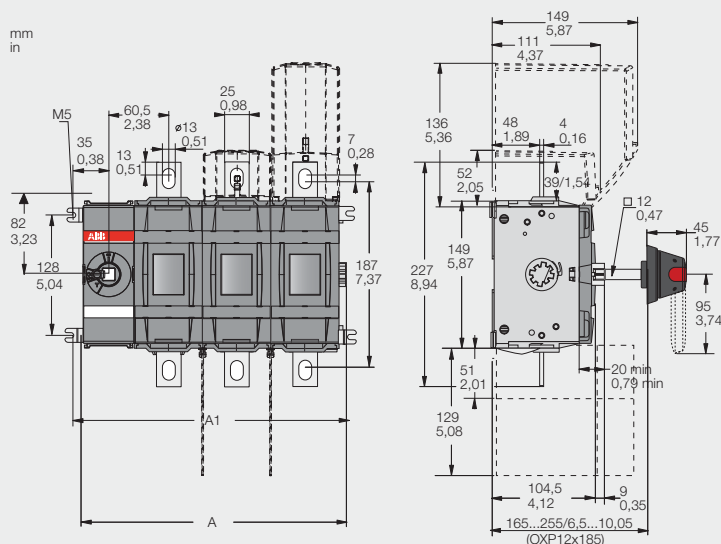
[mm/in]	11	12	13	22
A	80/3,15	80/3,15	80/3,15	115/4,53
B	115,5/4,55	150,5/5,93	185,5/7,31	185,5/7,31
A1	87/3,43	122/4,81	157/6,18	157/6,18
A2	43,5/1,71	43,5/1,71	43,5/1,71	78,5/3,09
B1	105/4,14	140/5,51	175/6,89	175/6,89
B2	52,5/2,07	52,5/2,07	52,5/2,07	87,5/3,44
C1	123/4,85	158/6,22	193/7,6	193/7,6
C2	61,5	61,5	61,5	96,5

M00415/OTDC200-250E11-22 A

Switch-disconnectors OTDC and OTDCP

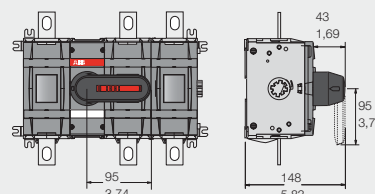
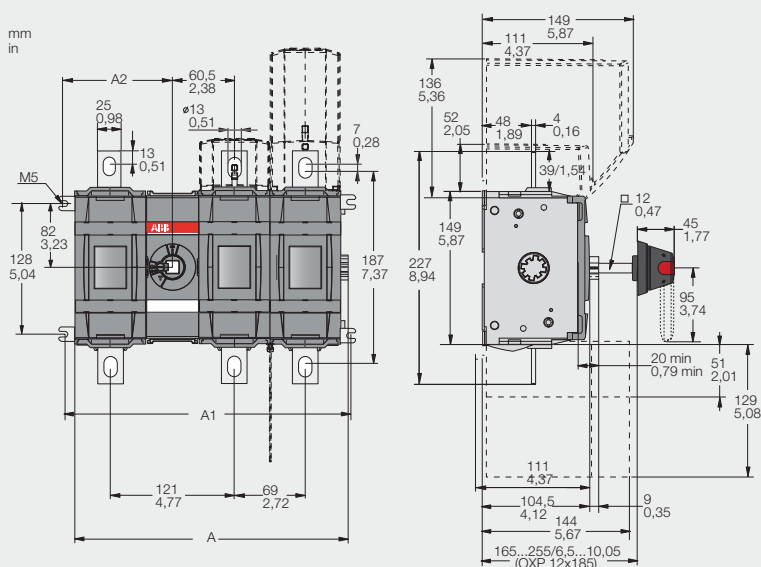
Dimensional drawings

OTDC315/400/500E01-04, OTDC250/320/400U01-04 (IEC and UL)



OTDC315, 400, 500E_K
OTDC250, 320, 400U_K

OTDC315/400/500/800E11-33, OTDC250/320/400/600U11-33 (IEC and UL)



OTDC315, 400, 500, 800E_K
OTDC250, 320, 400, 600U_K

OTDC315, 400, 500E_
OTDC250, 320, 400U

[mm/in]	01	02	03	D
A	130/5,12	199/7,84	268/10,56	337/13,28
A1	139/5,48	208/8,19	277/10,91	346/13,63

M00442/OTDC250-630_01-04 B

OTDC315, 400, 500, 800E_ 1)
OTDC250, 320, 400, 600U_ 1)

[mm/in]	11	12	13	22	33
A	197/7,76	266/10,48	335/13,2	335/13,2	473/18,62
A1	208/8,19	277/10,91	346/13,63	346/63	484/19,06
A2	104/4,1	104/4,1	104/4,1	173/6,81	242/19,53

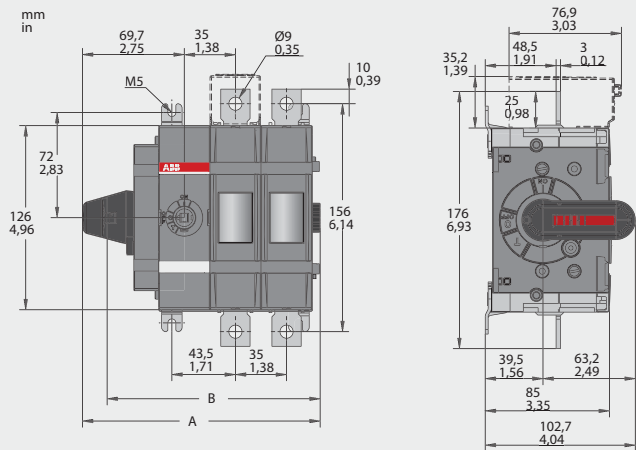
¹⁾ 800E & 600U only available as _22 version

M00443/OTDC250-630_11-22 C

Switch-disconnectors OTDC and OTDCP

Dimensional drawings

5

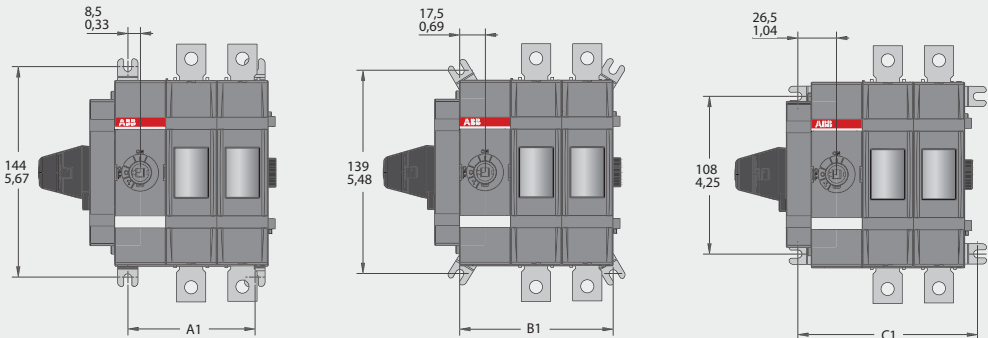


OTDC100/180/200U02-04S (UL)

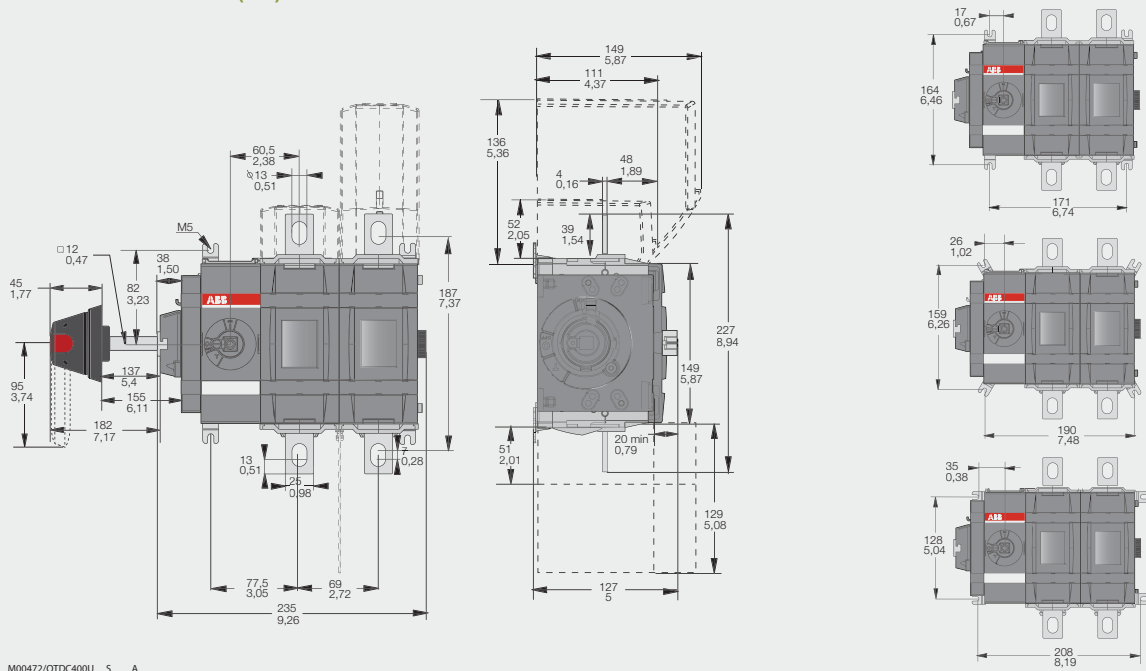
OTDC100, 180, 200U02...04S

[mm/in]	02	04
A	163/6,41	233/9,61
B	146/5,74	216/8,50
A1	87/3,43	157/6,18
B1	105/4,13	175/6,89
C1	123/4,84	193/7,60

13/OTDC100-200U02-04S A



OTDC250/400U02S (UL)

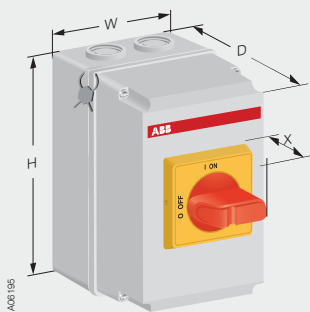


M00472/OTDC400U _S A

Switch-disconnectors OTDC and OTDCP

Dimensional drawings

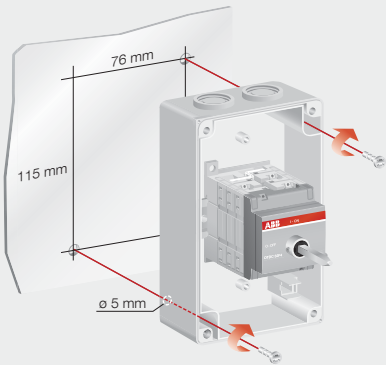
Enclosed switch-disconnectors, jumpers



M16/M20 Cable entry



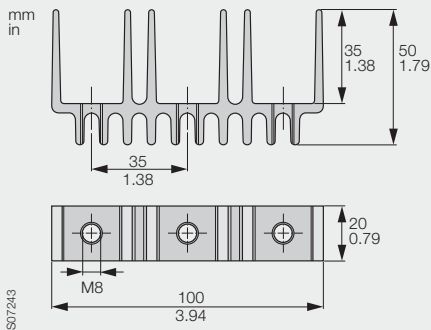
M25 Cable entry



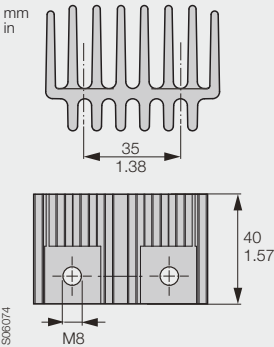
OTDCP16...32 (IEC)

Type	Size [mm]			
Safety switch	H	W	D	E
Enclosure with M25 cable entry				
M25	174	95	95	34.5
Enclosure with M20 and M16 cable entry				
M20/M16	150	95	95	34.5

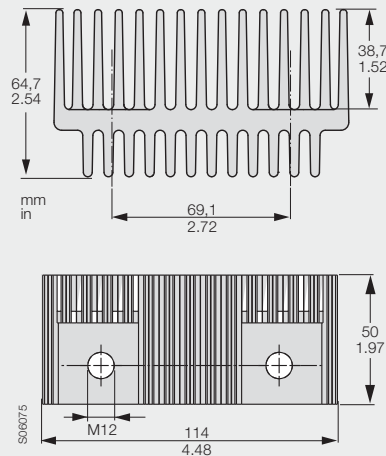
OEZXY91 (IEC and UL)



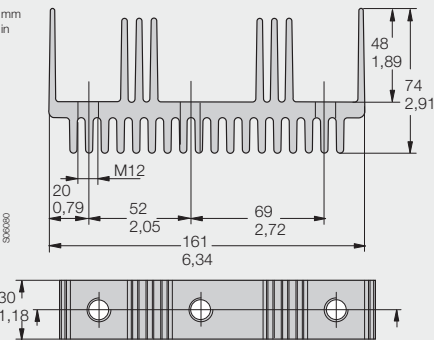
OEZXY99 (IEC and UL)



OTDCKIT400S11 (IEC and UL)



OTDCKIT400S101 (IEC and UL)

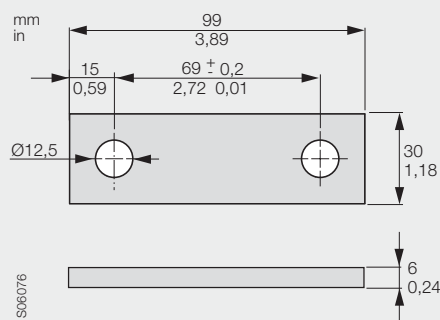


Switch-disconnectors OTDC and OTDCP

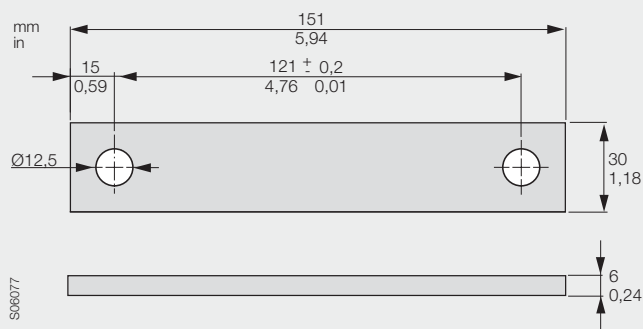
Dimensional drawings

Connection bars

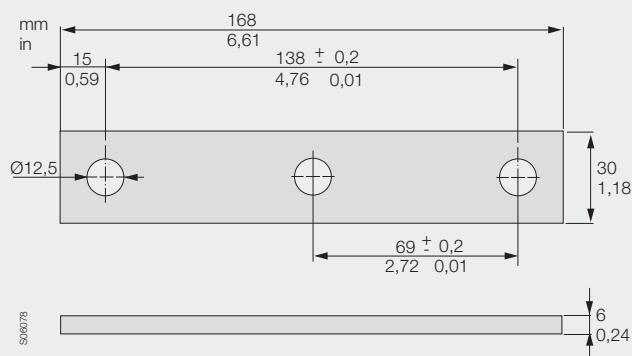
OTDCKIT400B11 (IEC and UL)



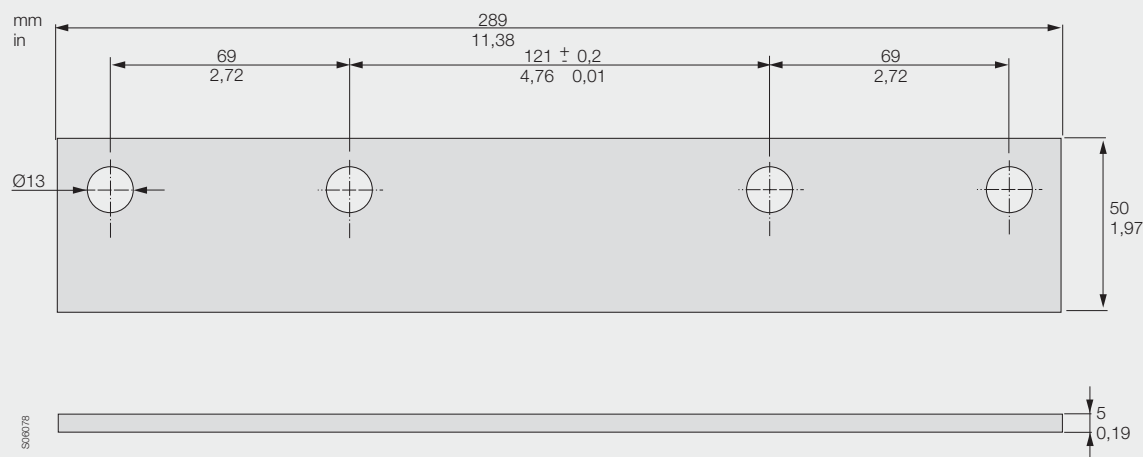
OTDCKIT400B101 (IEC and UL)



OTDCKIT400B111 (IEC and UL)



OTDCKIT400B202 (IEC and UL)

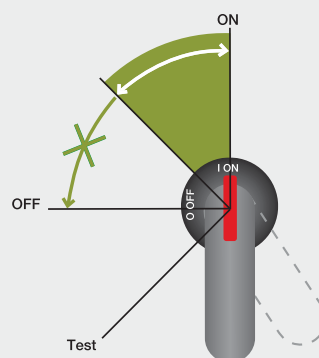


Switch-disconnectors OTDC and OTDCP

Dimensional drawings

Handle indications and functions

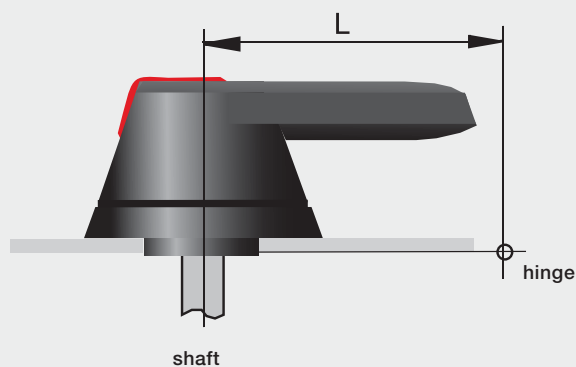
- The handle indicates the position of the contacts with complete reliability in all situations. If the contacts are welded together, the handle does not reach the OFF-position but remains between ON and OFF, maintaining the door interlock and preventing padlocking.
- When operating the switch fuse to the Test-position with a test handle the test auxiliary contacts change position. The main contacts remain open.



Minimum distance L between the hinge and the rotating shaft

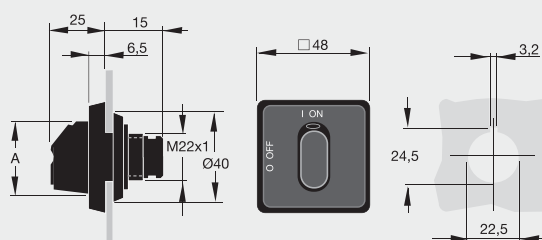
Sizes [Å]	Length L	Handle type [mm]
OT160...250_P	60	OH_65J
OT315...400_P	95	OH_95J
OT630...800_P	150	OH_125J
OT1000...2500_P	274	OH_274J
OT1000...2500_P	330	OH_330J
OETL3150	220	YASDA7, 8
OETL3150	275	OH_275J12

S00374C



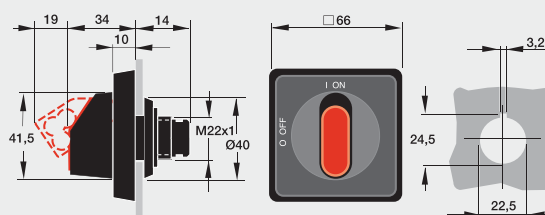
Handles for base and DIN-rail mounted switches

OH_S1A_, OH_S3A_



S00488B/ES, S00489A

OH_S2A_



OH_		
[mm]	OH_S1A_	OH_S3A_
A	31,5	37,5

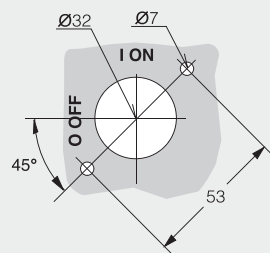
Switch-disconnectors OTDC and OTDCP

Dimensional drawings

Plastic handles

Handle type [mm]	Shaft diameter B	Length L
OH_65J6	6	65
OH_80J6	6	80
OH_95J12	12	95
OH_125J12	12	125
OH_145J12	12	145
OH_175J12	12	175
OH_275J12	12	275

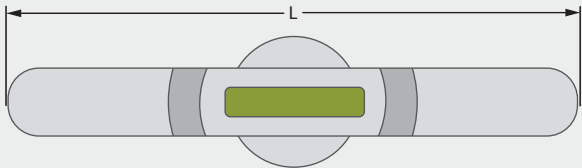
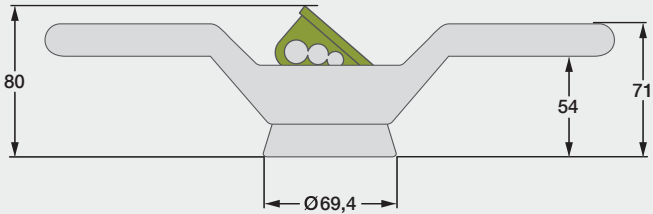
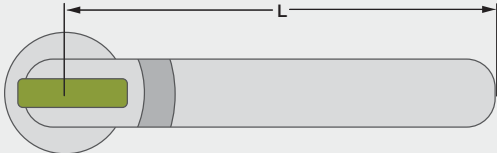
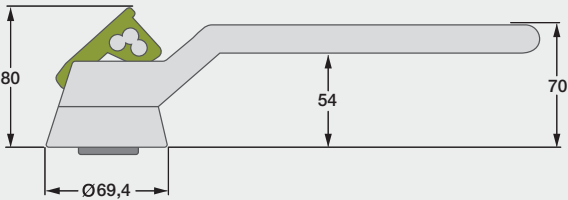
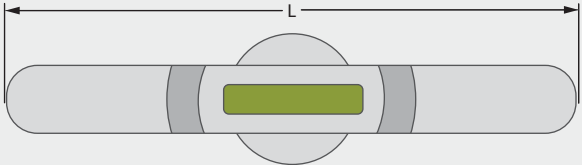
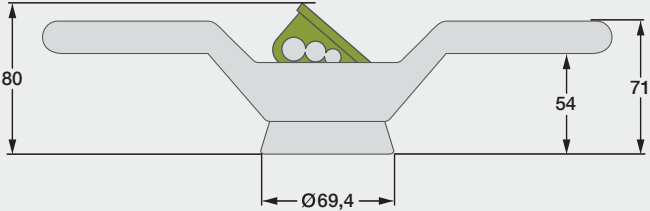
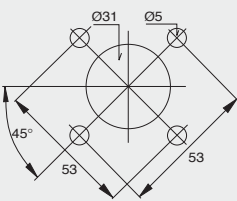
Door drilling for OH_ handles:



Handle type [mm]	Length L
OH_274J12	274
OH_330J12	330

Handle type [mm]	Length L
OHB150J12P	300
OHB200J12P	400

Door drilling for OHB_ handles:

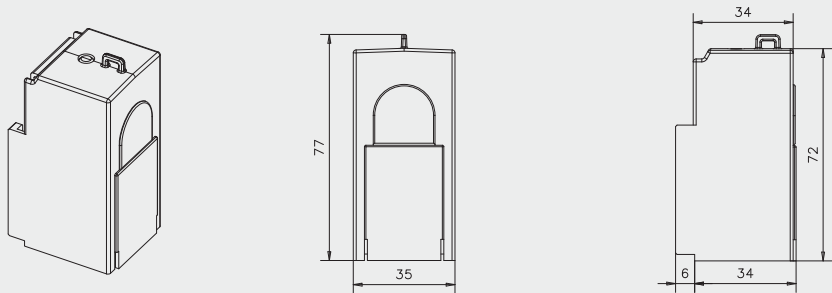


Switch-disconnectors OTDC and OTDCP

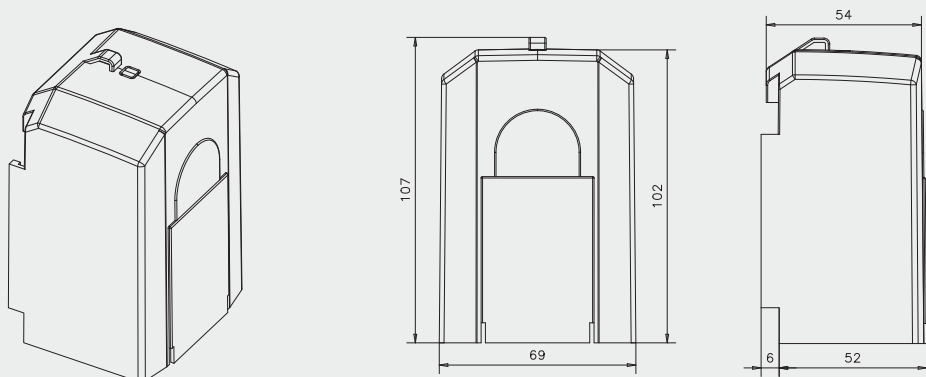
Dimensional drawings

Terminal shrouds

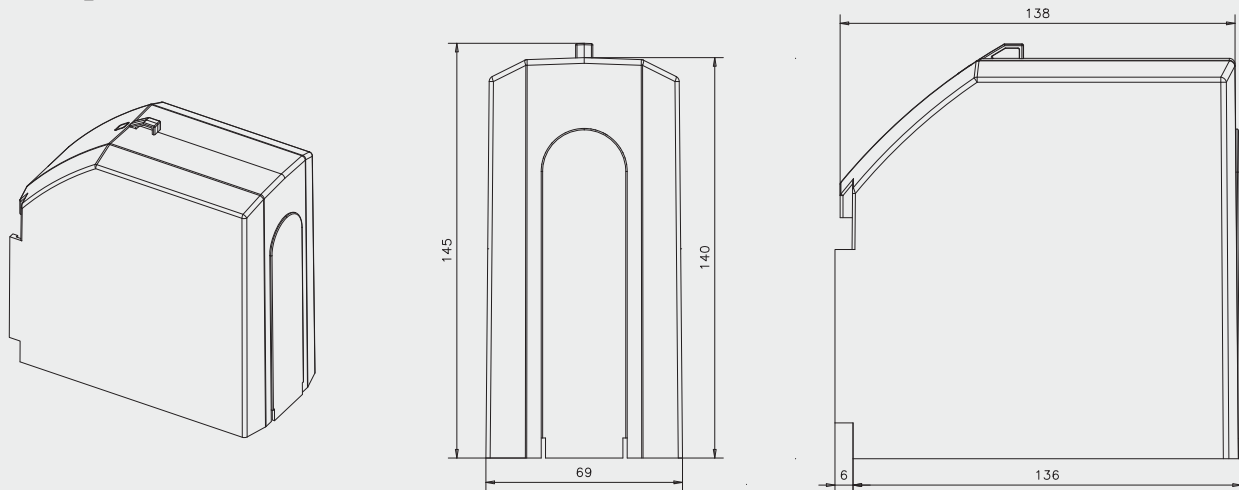
OTDCS250_1S



OTDCS400_1S



OTDCS400_1L

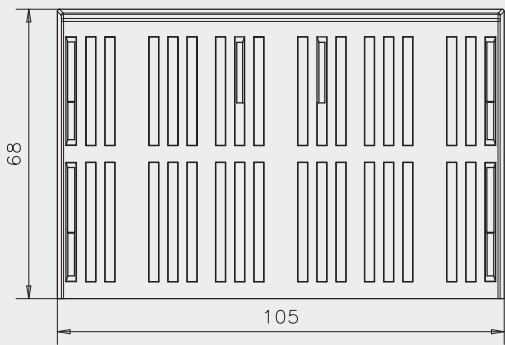
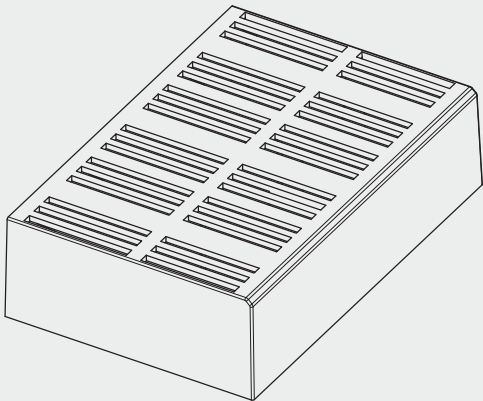


Switch-disconnectors OTDC and OTDCP

Dimensional drawings

Shrouds for jumpers/connection bars

OEZXY92

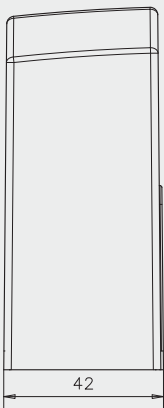
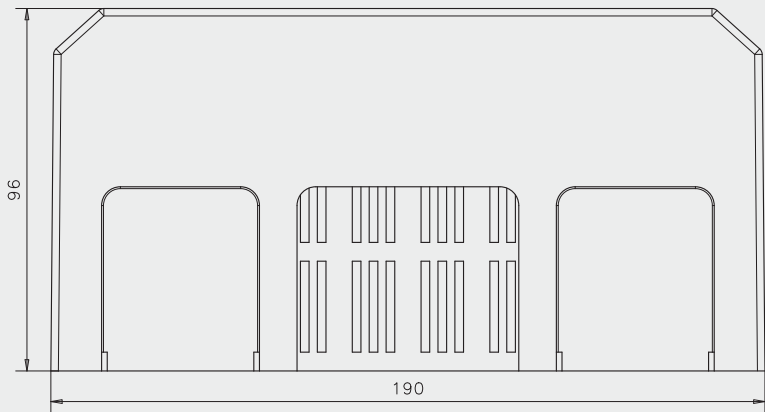
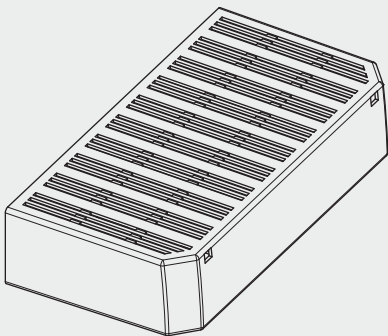


Switch-disconnectors OTDC and OTDCP

Dimensional drawings

Shrouds for jumpers/connection bars

OEZXY97

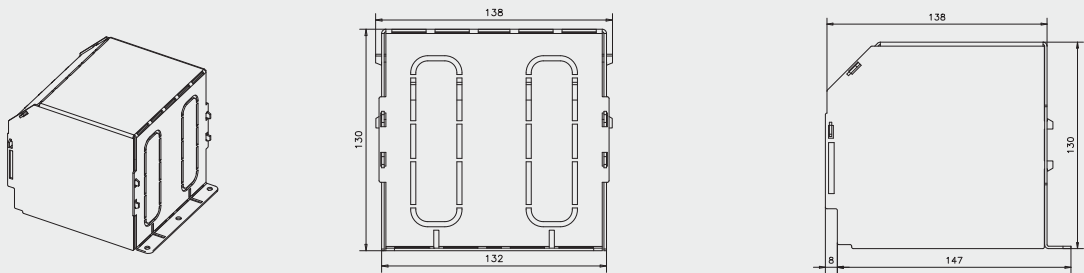


Switch-disconnectors OTDC and OTDCP

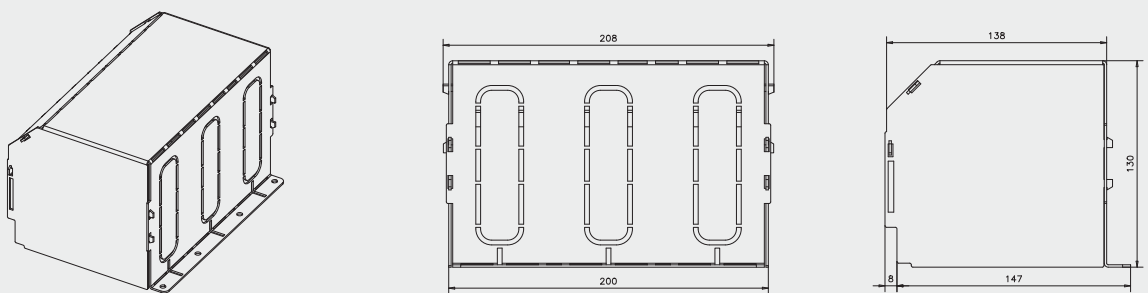
Dimensional drawings

Shrouds for jumpers/connection bars

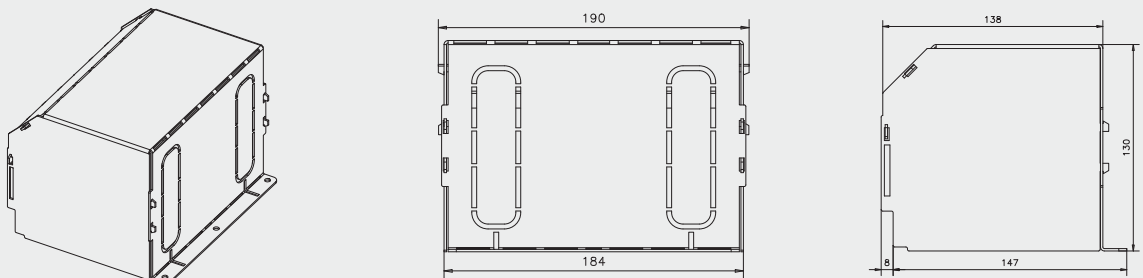
OTDCS400T2L



OTDCS400T3L



OTDCS400T11L

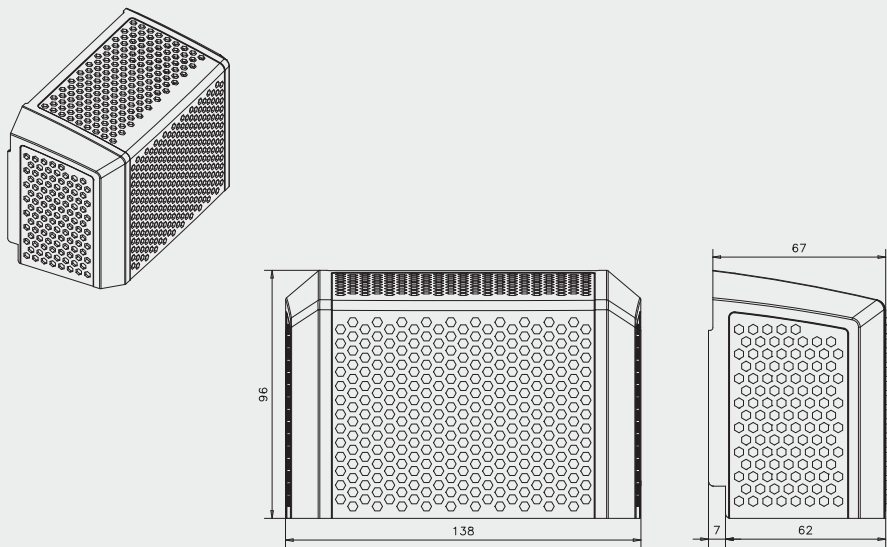


Switch-disconnectors OTDC and OTDCP

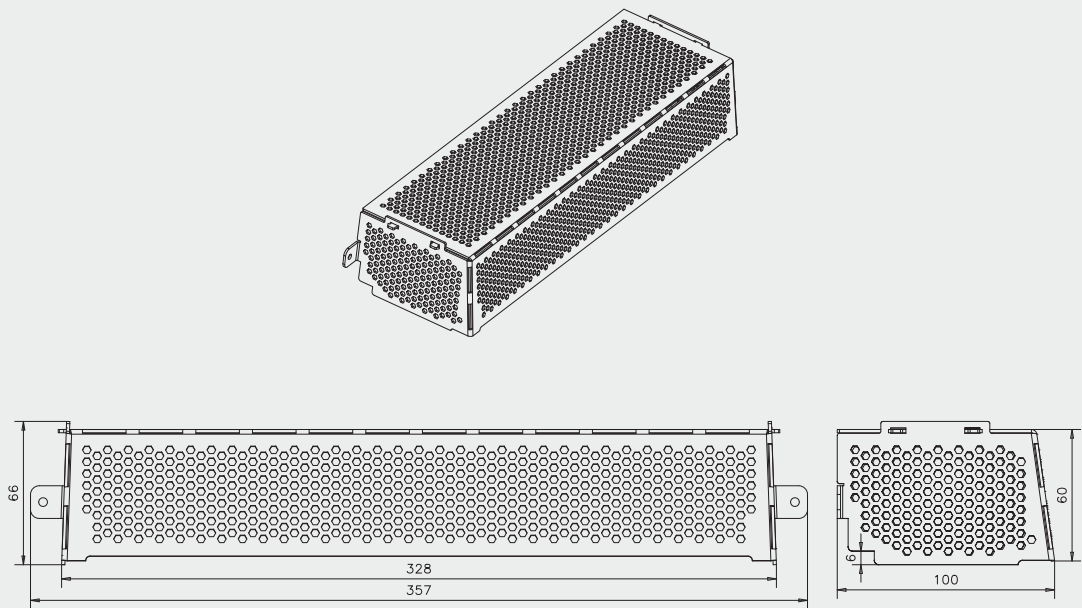
Dimensional drawings

Shrouds for jumpers/connection bars

OTDCS400G2B



OTDCS250G4B





Switch-disconnectors OTDC and OTDCP

Accessories

Ordering information for accessories	
Handle knobs	74
Handles	75
Shafts	80
Phase separators and mounting feet	81
Auxiliary contacts	82
Connection bar kits	83
Terminal shrouds	84
Interlocks and cable lugs	85

A wide range of accessories makes our switch-disconnectors extremely versatile and adaptable for all applications.

Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for handle knobs



OHBS11



OHRS21



OHRS31

Handle knobs for base and DIN rail mounted switches

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
Suitable for switches OTDC16...32F, OTDC16...32U_			
Black	31	OHBS1	1SCA109087R1001
Black	31	OHBS1/1	1SCA109088R1001
Red	31	OHRS1	1SCA109095R1001
Red	31	OHRS1/1	1SCA109096R1001
Suitable for switches OTDC16...32F, OTDC16...32U_			
Black	40	OHBS2	1SCA109089R1001
Black	40	OHBS2/1	1SCA109090R1001
Red	40	OHRS2	1SCA108598R1001
Red	40	OHRS2/1	1SCA108599R1001
Black	39	OHBS3	1SCA108320R1001
Black	39	OHBS3/1	1SCA108319R1001
Red	39	OHRS3	1SCA108667R1001
Red	39	OHRS3/1	1SCA108688R1001

Special information for handle knobs

Handle type	Padlockable	Shaft through the handle	45 mm cut-out enable ¹⁾
OHBS1_, OHRS1_	No	No	Yes
OHBS2_, OHRS2_	Yes	No	Yes
OHBS3_, OHRS3_	No	No	Yes

¹⁾ In I-position the handle shall remain within the cut-out height

Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for handles



OHBS3PH



OHBS2PJ



OHYS3RH



OHYS2RJ

Selector handles, for door mounted switches

Indication I-O and ON-OFF. No separate shaft needed.

Colour	Type	Order number
Snap-on mounting, door drilling 22,5 mm, for OTDC16...32FT and OTDC16...32U_T		
No padlocking, IP54, NEMA 1		
Black	OHBS1PH	1SCA105211R1001
Red-yellow	OHYS1PH	1SCA105294R1001
Padlockable with one padlock, IP54, NEMA 1		
Black	OHBS3PH	1SCA105236R1001
Red-yellow	OHYS3PH	1SCA105327R1001
Padlockable with max. 3 padlocks, IP65, NEMA 1, 3R, 12		
Black	OHBS2PJ	1SCA105231R1001
Red-yellow	OHYS2PJ	1SCA105322R1001
Screw mounting, hole distance 36 mm, for OTDC16...32FT and OTDC16...32U_T		
No padlocking, IP54, NEMA 1		
Black	OHBS1RH	1SCA105212R1001
Red-yellow	OHYS1RH	1SCA105295R1001
Padlockable with one padlock, IP54, NEMA 1		
Black	OHBS3RH	1SCA105237R1001
Red-yellow	OHYS3RH	1SCA105328R1001
Padlockable with max. 3 padlocks, IP65, hole distance 36/48 mm, NEMA 1, 3R, 12		
Black	OHBS2RJ	1SCA105232R1001
Red-yellow	OHYS2RJ	1SCA105323R1001

Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for handles



OHBS3



OHYS3



OHBS2

Selector handles for base and DIN-rail mounted switches

Indication I-O and ON-OFF, for shaft diameter 6 mm, door drilling 22.5 mm.

Colour	Type	Order number
IP 54 handles, NEMA 1, suitable for switches OTDC16...32F and OTDC16...32U_		
Black	OHBS1AH	1SCA102680R1001
Yellow-red	OHYS1AH	1SCA105290R1001
Door interlock in ON-position.		
Black	OHBS1AH1	1SCA105210R1001
Yellow-red	OHYS1AH1	1SCA105291R1001
Padlockable with one padlock with bail diameter 5...6.3 mm.		
Black	OHBS3AH	1SCA105234R1001
Yellow-red	OHYS3AH	1SCA105325R1001
Padlockable with one padlock with bail diameter 5...6.3 mm, door interlock in ON-position.		
Black	OHBS3AH1	1SCA105235R1001
Yellow-red	OHYS3AH1	1SCA105326R1001
IP 65 handles, NEMA 1, 3R, 12, suitable for switches OTDC16...32F and OTDC16...32U_		
Padlockable with max. 3 padlocks with bail diameter 5...8 mm, door interlock in ON-position, defeatable.		
Black	OHBS2AJ	1SCA105213R1001
Yellow-red	OHYS2AJ	1SCA105296R1001
Padlockable with max. 3 padlocks with bail diameter 5...8 mm, door interlock in ON-position.		
Black	OHBS2AJ1	1SCA105215R1001
Yellow-red	OHYS2AJ1	1SCA105297R1001

Selector handle with metal hasp

IP65 handles, NEMA 1, 3R, 12, suitable for switches OTDC16...32F and OTDC16...32U_

Padlockable with max. 3 padlocks, door interlock in the ON-position, defeatable.

Black	OHBS2AJEH	1SCA108230R1001
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Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for handles



OHY_

Pistol handles

OH_ handles for front operation: 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 ensures double insulation.

Colour	Handle length [mm]	Suitable for switches	Type	Order number	Weight/unit [kg]
For shaft diameter 6 mm, indication in types OHB and OHY: I-O, ON-OFF, in types OHG: I-O.					
Black	65	OTDC100...250E_, OTDC100...200U_	OHB65J6	1SCA022380R9660	0.12
Yellow-red	65	OTDC100...250E_, OTDC100...200U_	OHY65J6	1SCA022380R9820	0.12
Grey	65	OTDC100...250E_, OTDC100...200U_	OHG65J6	1SCA022380R9740	0.12
Black	80	OTDC100...250E_, OTDC100...200U_	OHB80J6	1SCA022381R0240	0.14
Yellow-red	80	OTDC100...250E_, OTDC100...200U_	OHY80J6	1SCA022381R0410	0.14
Grey	80	OTDC100...250E_, OTDC100...200U_	OHG80J6	1SCA022381R0320	0.14
For shaft diameter 6 mm, indication: Test-OFF-ON/Test-O-I					
Black	65	OTDC100...250E_, OTDC100...200U_	OHB65J6T	1SCA022399R8110	0.12
Yellow-red	65	OTDC100...250E_, OTDC100...200U_	OHY65J6T	1SCA022456R9540	0.12
For shaft diameter 12 mm, indication OHB and OHY: I-O, ON-OFF, in types OHG: I-O					
Black	95	OTDC315...800E, OTDC250...600U_	OHB95J12	1SCA022381R0830	0.16
Yellow-red	95	OTDC315...800E, OTDC250...600U_	OHY95J12	1SCA022381R1050	0.16
Grey	95	OTDC315...800E, OTDC250...600U_	OHG95J12	1SCA022381R0910	0.16
Black	125	OTDC315...800E, OTDC250...600U_	OHB125J12	1SCA022381R1560	0.17
Yellow-red	125	OTDC315...800E, OTDC250...600U_	OHY125J12	1SCA022381R1720	0.17
Grey	125	OTDC315...800E, OTDC250...600U_	OHG125J12	1SCA022381R1640	0.17
Black	145	OTDC315...800E, OTDC250...600U_	OHB145J12	1SCA022381R2110	0.17
For shaft diameter 12 mm, indication: Test-OFF-ON/Test-O-I					
Black	95	OTDC315...800E, OTDC250...600U_	OHB95J12T	1SCA022736R1750	0.16
Yellow-red	95	OTDC315...800E, OTDC250...600U_	OHY95J12T	1SCA022736R1910	0.16
Black	125	OTDC315...800E, OTDC250...600U_	OHB125J12T	1SCA022652R2220	0.16
Yellow-red	125	OTDC315...800E, OTDC250...600U_	OHY125J12T	1SCA022652R2310	0.16
Black	274	OTDC1000...1600E, OTDC800...1000U_	OHB274J12	1SCA115920R1001	0.54
Yellow-red	274	OTDC1000...1600E, OTDC800...1000U_	OHY274J12	1SCA115919R1001	0.54



OHB274/J12

Door interlocking in ON-position means that the door cannot 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.

Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for handles



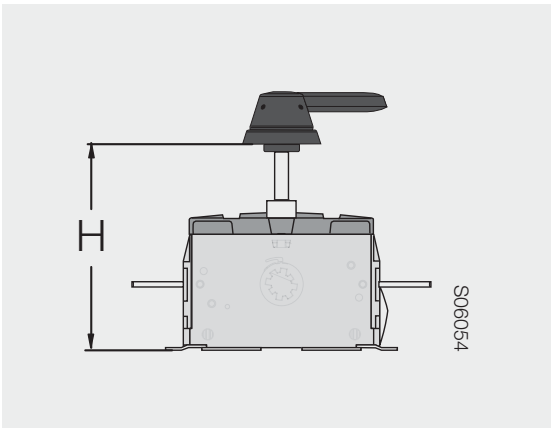
OT_V_

Direct mount handles

Colour	Handle length [mm]	Suitable for switches	Type	Order number	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...250E_, OTDC100...200U_ ²⁾	OTDV250EK	1SCA127390R1001	0.10
Red-yellow	65	OTDC100...250E_, OTDC100...200U_ ²⁾	OTDVY250EK	1SCA127391R1001	0.10
Black	95	OTDC315...800E, OTDC250...600U_ ²⁾	OTDV400EK	1SCA130579R1001	0.3
Black	145	OTDC315...800E, OTDC250...600U_ ²⁾	OTDV500EK ⁴⁾	1SCA135915R1001	0.65
Black	145	OTDC315...800E, OTDC250...600U_ ²⁾	OTDV400EK2	1SCA137301R1001	0.65
Black	95	OTDC250...400U_S ³⁾	OTDV400ESK	1SCA136041R1001	0.1
Black	274	OTDC1000...1600E, OTDC800...1000U_	OTV1000EK	1SCA106608R1001	1.5

²⁾ Valid only for front-operated switches
³⁾ Valid only for side-operated switches
⁴⁾ Handle lifted up with a higher mechanism cover, recommended for use with long terminal shrouds (OTDC400_L_)

Direct mount handle positioning



Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for handles



OHB_

OH_ handles for side operation: IP 65, NEMA 1,3R, 12

For mounting on the side of the enclosure. Padlockable with three padlocks in the OFF-position, door interlock in the ON-position, IP 65.
The position indications are rotated 90°.

Colour	Handle length [mm]	Suitable for switches	Type	Order number	Weight/unit [kg]
Side operation: for shaft diameter 6 mm, indication in types OHB and OHY: I-O, ON-OFF, in types OHG: I-O.					
Plastic handles					
Black	65	OTDC100...200U_S	OHB65J6E00S	1SCA022382R9850	0.12
Red-yellow	65	OTDC100...200U_S	OHY65J6E00S	1SCA022382R9930	0.12
Grey	65	OTDC100...200U_S	OHG65J6E00S	1SCA022383R4510	0.12
Side operation: for shaft diameter 6 mm, indication: Test/I-O/ON-OFF, grey: Test/I-O					
Black	65	OTDC100...200U_S	OHB65J6TE00S	1SCA109016R1001	0.12
Red-yellow	65	OTDC100...200U_S	OHY65J6TE00S	1SCA022688R0140	0.12
Grey	65	OTDC100...200U_S	OHG65J6TE00S	1SCA109014R1001	0.12
Side operation: for shaft diameter 12 mm, indication I-O/ON-OFF					
Plastic handles					
Black	145	OTDC250...400U_S	OHB145J12E00S	1SCA022679R9700	0.17

Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for shafts



OXS6X_

Extended shafts for selector handles

Shaft length [mm]	H [mm]	Type	Order number	Weight/unit [kg]
Suitable for switches OTDC16...32F, shaft diameter 6 mm				
85	See dimension drawings	OXS6X85	1SCA101647R1001	0.02
105		OXS6X105	1SCA108043R1001	0.02
120		OXS6X120	1SCA101654R1001	0.03
130		OXS6X130	1SCA101655R1001	0.03
160		OXS6X160	1SCA101656R1001	0.04
180		OXS6X180	1SCA101659R1001	0.04
250		OXS6X250	1SCA101660R1001	0.07

Extended shafts for pistol handles

Shaft length [mm]	H [mm]	Type	Order number	Weight/unit [kg]
For pistol type handles				
Suitable for switches OTDC100...250E_, OTDC100...200U_, shaft diameter 6 mm ¹⁾				
130	109...174	EXP6X130	1SCA022057R0570	0.04
150	129...194	EXP6X150	1SCA022295R5600	0.05
161	140...205	EXP6X161	1SCA022067R1760	0.05
210	189...254	EXP6X210	1SCA022295R6080	0.06
290	269...334	EXP6X290	1SCA022042R6370	0.08
Suitable for switches OTDC315...800E, OTDC250...600U_, shaft diameter 12 mm				
166	146...226	EXP12X166	1SCA022325R7100	0.2
185	165...245	EXP12X185	1SCA022325R6710	0.2
250	230...310	EXP12X250	1SCA022325R6980	0.28
280	260...340	EXP12X280	1SCA022137R5140	0.3
325	305...385	EXP12X325	1SCA022042R5810	0.36
395	445...525	EXP12X395	1SCA022042R5990	0.43
465	439...519	EXP12X465	1SCA022042R6020	0.51
535	515...595	EXP12X535	1SCA022042R6110	0.59
Suitable for switches OTDC1000...1600E_, OTDC800...1000U_, shaft diameter 12 mm				
250	221...350	EXP12X250	1SCA022325R6980	0.28
280	251...380	EXP12X280	1SCA022137R5140	0.30
325	296...425	EXP12X325	1SCA022042R5810	0.36
395	366...495	EXP12X395	1SCA022042R5990	0.43
465	436...565	EXP12X465	1SCA022042R6020	0.51
535	506...635	EXP12X535	1SCA022042R6110	0.59

¹⁾ Longer shafts on request



OXP12_



OXP6X_



OXP12X185



OXP6X150
S00050A

Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for phase separators and mounting feet



OTDCB_

Phase separators

Grey plastic plate for maintaining 1" clearance between the phases without terminal shrouds. Snap-on mounting. Included as standard in OTDC100...600U_ or OTDC100...800E_ if use mandatory.

Suitable for switches	Type	Order number	Units/ type	Weight/ unit [kg]
OTDC100...250E_, OTDC100...200U_	OTDCB250/6	1SCA125532R1001	6	-
OTDC315...800E, OTDC250...600U_	OTDCB400/2	1SCA132183R1001	2	-



OEZKL10/4

Mounting feet

Higher (10 mm) optional mounting feet to lift the switch up from the mounting base. The delivery includes 4 mounting feet and screws.

Suitable for switches	Type	Order number	Weight/ unit [kg]
OTDC315...800E_, OTDC250...400U_	OEZKL10/4	1SCA132180R1001	-

Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for auxiliary contacts



OA1G10, OA3G01

Auxiliary contact blocks, IP20

Contact numbering according to EN 50013.

The type and the ordering numbers are for one piece.

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...250E, OTDC100...200U_:

Max. 4 test contacts or 2 test contacts + 2 test indication contacts.¹⁾

OTDC315...800E, OTDC250...600U_:

Max. 4 test contacts + 4 test indication contacts.¹⁾

OTDC1000...1600E_, OTDC800...1000U_:

Max 4 test indication contacts + 6 test contacts + 2 early operation test contacts.

The test contacts can be used as standard auxiliary contacts as well.

Suitable for switches	Function	Type	Order number	Delivery batch [pcs] ²⁾	Weight/unit [kg]
OTDC100...1600E_, OTDC100...1000U_	1NO	OA1G10	1SCA022353R4970	10	0.03
OTDC100...1600E_, OTDC100...1000U_	1NC	OA3G01	1SCA022456R7410	10	0.03



OEA28

Module for auxiliary contacts

Screw mounting to the left side of the switch.

Suitable for switches	Type	Order number	Delivery batch [pcs]	Weight/unit [kg]
OTDC100...1600E_, OTDC100...1000U_	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.

Performance data according to IEC 60947-5-1

For OA1G_, OA2G_, OA3G_, OA8G_						
U _e /[VAC]	AC15 I _e /[A]	U _e /[VDC]	DC12 I _e /[A]	P/[W]	DC13 I _e /[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	-	-

Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for connection bar kits



OEZXY91



OTDCKIT400S101



OTDCKIT400S11



OTDCKIT400B11



OTDCKIT400B101



OTDCKIT400B111



OTDCKIT400B202

Short circuit and connection bar kits

Refer to pages for circuit diagrams showing the possible connections and needed amounts of kits. The kits include the necessary mounting hardware.

Suitable for switches	Type	Order number	Weight/unit [kg]
OTDC100...250E_	OEZXY91	1SCA125290R1001	-
OTDC315...500E, OTDC250...400U	OTDCKIT400S101	1SCA136280R1001	0.38
OTDC315...500E, OTDC250...400U	OTDCKIT400S11	1SCA136281R1001	0.54
OTDC315...500E, OTDC250...400U	OTDCKIT400B11	1SCA136282R1001	0.29
OTDC315...500E	OTDCKIT400B111	1SCA136284R1001	0.47
OTDC600UPP	OTDCKIT400B202	1SCA136285R1001	0.910
OTDC250...400US	OTDCKIT400B101	1SCA136283R1001	0.375

Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for terminal shrouds



OTDC250G1S



OTDC250G1L



OTS1600G1L



OTS1600G1S



OTDCS400G2B



OEZXY97



OTDCS400T2L



OTDCS400T1L

Terminal shrouds

The type and ordering numbers are for one piece.

Suitable for switches	Description	Type	Order number	Weight/unit [kg]
Grey				
OTDC100...250E, OTDC100...200US	short	OTDCS250G1S	1SCA125563R1001	0.01
OTDC315...500E, OTDC250...400US	short	OTDCS400G1S	1SCA132361R1001	0.05
OTDC315...500E, OTDC250...400US	long	OTDCS400G1L	1SCA132362R1001	0.1
OTDC1000...1600E_, OTDC800...1000U_	short	OTS1600G1S ¹⁾	1SCA102667R1001	0.13
OTDC1000...1600E_, OTDC800...1000U_	long	OTS1600G1L ¹⁾	1SCA106134R1001	0.22
Transparent				
OTDC100...250E, OTDC100...200US	short	OTDCS250T1S	1SCA125580R1001	0.01
OTDC315...500E, OTDC250...400US	short	OTDCS400T1S	1SCA132363R1001	0.05
OTDC315...500E, OTDC250...400US	long	OTDCS400T1L	1SCA132364R1001	0.1

Shrouds for jumpers connection bars

The type and ordering numbers are for one piece.

Suitable for switches	Suitable for jumper /connection bar	Type	Order number	Weight/unit [kg]
Grey				
OTDC315...500E, OTDC250...400U	OTDCKIT400S11	OTDCS400G2B	1SCA136273R1001	-
OTDC600USPP	OTDCKIT400B202	OTDCS250G4B	1SCA136274R1001	0.07
OTDC100...200US, OTDC100...250E	OEZXY91	OEZXY92	1SCA127382R1001	-
OTDC315...500E, OTDC250...400U_	OTDCKIT400S101	OEZXY97	1SCA130816R1001	0.1
OTDC315...800E, OTDC250...600U_	OTDCKIT400B11	OTDCS400T2L	1SCA136275R1001	0.13
OTDC315...500E, OTDC250...400U	OTDCKIT400B101	OTDCS400T1L	1SCA136279R1001	-
OTDC315...500E	OTDCKIT400B111	OTDCS400T3L	1SCA136276R1001	-
OTDC1000...1600E_, OTDC800...1000U_	OTDCKIT1250B11	OTDCS1250T1	1SCA144019R1001	-
OTDC1000...1600E_, OTDC800...1000U_	OTDCKIT1250B101	OTDCS1250T2	1SCA144021R1001	-

¹⁾ The use of shrouds limits the rated current: OTDC1000U22 to 980 A and OTDC1000US22 to 920 A.

Accessories for switch-disconnectors OTDC and OTDCP

Ordering information for interlocks and cable lugs



OTZT4_



OZXA1200

Mechanism interlock kits and electrical interlocks

OTDC switch-disconnectors can be interlocked in the OFF-position using padlocks or a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8 mm.

Suitable for switches	Type	Order number	Weight/unit [kg]
Interlocking in OFF position			
OTDC315...800E, OTDC250...600U_	OTZT2A	1SCA106523R1001	0.57
OTDC1000...1600E, OTDC800...1000U_	OTZT4A	1SCA106526R1001	1.0
Mechanical interlock kit			
Interlocking in OFF and ON positions			
OTDC315...800E, OTDC250...600U_	OTZT2L	1SCA106529R1001	0.57
OTDC1000...1600E, OTDC800...1000U_	OTZT4L	1SCA106531R1001	1.0

Cable lug			
Suitable for switches	Type	Order number	Weight/unit [kg]
OTDC1000...1600E, OTDC800...1000U_	OZXA1200	1SCA130842R1001	0.5



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Description	Type	Order number	Page	Description	Type	Order number	Page
Bolt kit	M10x30		33	Extended shafts for pistol handles	EXP12X325	1SCA022042R5810	86
	M12x40		33		EXP12X395	1SCA022042R5990	86
	M8x25		32		EXP12X465	1SCA022042R6020	86
Cable lug	OZXA1200	1SCA130842R1001	91		EXP12X535	1SCA022042R6110	86
Connection kit		OTDCKIT400B111	35		EXP6X290	1SCA022042R6370	86
		OTDCKIT400S11	37		EXP6X130	1SCA022057R0570	86
Direct mount handles	OTV1000EK	1SCA106608R1001	84		EXP6X161	1SCA022067R1760	86
	OTDV250EK	1SCA127390R1001	84		EXP12X280	1SCA022137R5140	86
	OTDVY250EK	1SCA127391R1001	84		EXP6X150	1SCA022295R5600	86
	OTDV400EK	1SCA130579R1001	84		EXP6X210	1SCA022295R6080	86
	OTDV500EK 4)	1SCA135915R1001	84		EXP12X185	1SCA022325R6710	86
	OTDV400ESK	1SCA136041R1001	84		EXP12X250	1SCA022325R6980	86
	OTDV400EK2	1SCA137301R1001	84		EXP12X166	1SCA022325R7100	86
Disconnect switches OTDC_, base or DIN-rail mounting, UL	OTDC16U2	1SCA134369R1001	41	Extended shafts for selector handles	OXS6X85	1SCA101647R1001	86
	OTDC16U4	1SCA134370R1001	41		OXS6X120	1SCA101654R1001	86
	OTDC16U6	1SCA134371R1001	41		OXS6X130	1SCA101655R1001	86
	OTDC16US2	1SCA134372R1001	41		OXS6X160	1SCA101656R1001	86
	OTDC16US4	1SCA134373R1001	41		OXS6X180	1SCA101659R1001	86
	OTDC16US6	1SCA134374R1001	41		OXS6X250	1SCA101660R1001	86
	OTDC25U2	1SCA134375R1001	41		OXS6X105	1SCA108043R1001	86
	OTDC25U4	1SCA134377R1001	41	Handle	OHBS3/1	1SCA108319R1001	80
	OTDC25US2	1SCA134378R1001	41		OHBS3	1SCA108320R1001	80
	OTDC25US4	1SCA134379R1001	41		OHBS2	1SCA108598R1001	80
	OTDC32U4	1SCA136703R1001	41	Handle knobs for base and DIN rail mounted switches	OHRS2/1	1SCA108599R1001	80
	OTDC32US4	1SCA136704R1001	41		OHRS3	1SCA108667R1001	80
	OTDC25U6	1SCA141960R1001	41		OHRS3/1	1SCA108688R1001	80
	OTDC32U6	1SCA141963R1001	41		OHBS1	1SCA109087R1001	80
	OTDC32U2	1SCA141976R1001	41		OHBS1/1	1SCA109088R1001	80
Double circuit and load side combining, 1000 VDC, IEC	OTDC315E22	1SCA131001R1001	34		OHBS2	1SCA109089R1001	80
	OTDC400E22	1SCA131036R1001	34		OHBS2/1	1SCA109090R1001	80
	OTDC500E22	1SCA132142R1001	34		OHRS1	1SCA109095R1001	80
Double circuit, 1000 VDC, IEC	OTDC100E22	1SCA125824R1001	32		OHRS1/1	1SCA109096R1001	80
	OTDC160E22	1SCA125844R1001	32	Handle with metal hasp	OHBS2AJEH	1SCA108230R1001	82
	OTDC200E22	1SCA125856R1001	32		OHBS1AH	1SCA102680R1001	82
	OTDC250E22	1SCA125869R1001	32	Handles for base and DIN-rail mounted switches	OHBS1AH1	1SCA105210R1001	82
Double circuit, 1000 VDC, UL98B	OTDC250U22	1SCA131003R1001	47		OHBS2AJ	1SCA105213R1001	82
	OTDC320U22	1SCA131006R1001	47		OHBS2AJ1	1SCA105215R1001	82
	OTDC400U22	1SCA131010R1001	47		OHBS3AH	1SCA105234R1001	82
	OTDC250US22	1SCA131030R1001	47		OHBS3AH1	1SCA105235R1001	82
	OTDC320US22	1SCA131032R1001	47		OHYS1AH	1SCA105290R1001	82
	OTDC400US22	1SCA132300R1001	47		OHYS1AH1	1SCA105291R1001	82
Double circuit, 1500 VDC, IEC	OTDC315E33	1SCA137230R1001	37		OHYS2AJ	1SCA105296R1001	82
	OTDC400E33	1SCA137231R1001	37		OHYS2AJ1	1SCA105297R1001	82
	OTDC500E33	1SCA137234R1001	37		OHYS3AH	1SCA105325R1001	82
					OHYS3AH1	1SCA105326R1001	82

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	OHBS2PJ	1SCA105231R1001	81
	OHBS2RJ	1SCA105232R1001	81
	OHBS3PH	1SCA105236R1001	81
	OHBS3RH	1SCA105237R1001	81
	OHYS1PH	1SCA105294R1001	81
	OHYS1RH	1SCA105295R1001	81
	OHYS2PJ	1SCA105322R1001	81
	OHYS2RJ	1SCA105323R1001	81
	OHYS3PH	1SCA105327R1001	81
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	OTZT4L	1SCA106531R1001	91
Mechanism interlock kits in OFF position	OTZT2A	1SCA106523R1001	91
	OTZT4A	1SCA106526R1001	91
Module for auxiliary contacts	OEA28	1SCA022714R8810	88
Mounting feet	OEZKL10/4	1SCA132180R1001	87
Mounting on the left side of the switch	OA1G10	1SCA022353R4970	88
	OA3G01	1SCA022456R7410	88
OH_ handles for side operation	OHB65J6E00S	1SCA022382R9850	85
	OHY65J6E00S	1SCA022382R9930	85
	OHG65J6E00S	1SCA022383R4510	85
	OHY65J6TE00S	1SCA022688R0140	85
	OHG65J6TE00S	1SCA109014R1001	85
	OHB65J6TE00S	1SCA109016R1001	85
OTDC16...32U_T	OTDC16UT2	1SCA134387R1001	42
	OTDC25UT2	1SCA134388R1001	42
	OTDC16UT4	1SCA134390R1001	42
	OTDC25UT4	1SCA134391R1001	42
	OTDC25UST2	1SCA134578R1001	42
	OTDC25UST4	1SCA134579R1001	42
	OTDC16UT6	1SCA134580R1001	42
	OTDC16UST2	1SCA134581R1001	42
	OTDC16UST4	1SCA134582R1001	42
	OTDC16UST6	1SCA134583R1001	42
	OTDC32UT4	1SCA136705R1001	42
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	OTDC32UT2	1SCA141966R1001	42
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	OHY65J6	1SCA022380R9820	83
	OHB80J6	1SCA022381R0240	83
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	OHY65J6T	1SCA022456R9540	83
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	OTDCP16SA22M	1SCA125094R1001	29
	OTDCP16S22M	1SCA125095R1001	29
	OTDCP16SA11M	1SCA125126R1001	29
	OTDCP25SA11M	1SCA125127R1001	29
	OTDCP32SA11M	1SCA125128R1001	29
	OTDCP16S11M	1SCA125129R1001	29
	OTDCP25S11M	1SCA125130R1001	29
	OTDCP32S11M	1SCA125131R1001	29
	OTDCP16SA12M	1SCA125150R1001	29
	OTDCP25SA12M	1SCA125151R1001	29
	OTDCP32SA12M	1SCA125152R1001	29
	OTDCP16S12M	1SCA125153R1001	29
	OTDCP25S12M	1SCA125154R1001	29
	OTDCP32S12M	1SCA125155R1001	29
	OTDCP16S22MD	1SCA131730R1001	30
	OTDCP25S22MD	1SCA131731R1001	30
	OTDCP32S22MD	1SCA131732R1001	30
	OTDCP16SA22MD	1SCA131850R1001	30
	OTDCP25SA22MD	1SCA131851R1001	30
	OTDCP32SA22MD	1SCA131852R1001	30
	OTDCP16SA22M25	1SCA144900R1001	29
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	OEZXY97	1SCA130816R1001	90
	OTDCS400G2B	1SCA136273R1001	90
	OTDCS250G4B	1SCA136274R1001	90
	OTDCS400T2L	1SCA136275R1001	90
	OTDCS400T3L	1SCA136276R1001	90
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Side operated, single circuit, 1000 VDC, UL98B	OTDC400U20S	1SCA135725R1001	46
	OTDC400US20S	1SCA135726R1001	46
	OTDC250U20S	1SCA135729R1001	46
	OTDC250US20S	1SCA135730R1001	46
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	OTDC320US20S	1SCA135734R1001	46
Single circuit, 1000 VDC, IEC	OTDC315E11	1SCA130982R1001	33
	OTDC400E11	1SCA130983R1001	33
	OTDC500E11	1SCA132135R1001	33
	OTDC315E02	1SCA132337R1001	33
	OTDC400E02	1SCA132349R1001	33
	OTDC500E02	1SCA132357R1001	33
	OTDC200E02	1SCA123687R1001	32
	OTDC160E11	1SCA123745R1001	32
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	OTDC100E11	1SCA125821R1001	32
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