

SMART POWER

DC Switches

OTDC Switch-disconnectors 16...1000A OT(M) Disconnectors 1600...6000A





- Designed for harsh environments
- Compact and modular design
- Reduced power losses

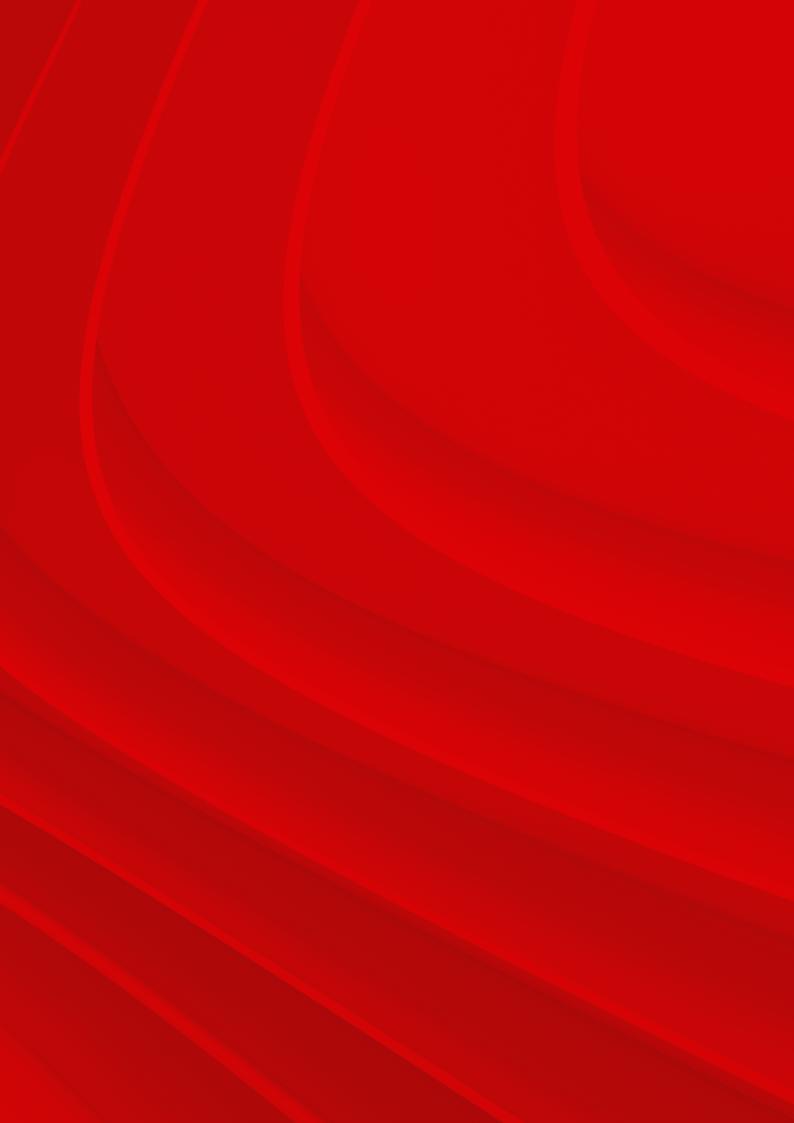


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01

Introduction

- **01.1.** OTDC switches portfolio overview
- **01.2.** Overview of product range

DC Switches

Switches for all DC applications

OTDC switch-disconnectors and OT(M) Disconnectors are suitable for many applications

- Solar/PV
- Energy Storage System (ESS)
- EV Charging
- Marine
- DC Microgrids
- DC Datacenters
- Rai
- DC Distribution







DC switches

Portfolio overview

Enclosed XS-Series 16...32 Amperes

Enclosed low current OTDC is IP65 rated. It has a selector handle (I-O/ON-OFF) with cover interlock and defeatable interlock function.



OTDC S1.0-Series 100...250 Amperes

Compact and reliable solution for 1000V DC DC-21B applications. S1.0-Series has one of the smallest power losses on the market. They are an efficient solution for the end application.



OTDC M-Series 315...1000 Amperes

High performing switch with DC-PV2 ratings up to 800A, with small power losses and compact size. The M-Series includes variants for 10kA short-circuit applications and unique -ESS variants, designed and tested with and without fuses for higher short-circuit applications up to 100kA.



315...800A

800...1000A

OTDC XS-Series 16...32 Amperes

Low current OTDC is equipped with high thermal capacity for 1000V DC applications. Available for base, door or DIN-rail mounting.



OTDC S2.0-Series 100...250 Amperes

Compact, high efficiency DC switch for 1500V DC DC-21B/DC-PV2 applications. This series include variants for 10kA short-circuit applications and unique -ESS variants. The ESS variants are designed and tested with fuses for higher short-circuit applications up to 40kA.



OT(M)-135 1600...6000 Amperes

Compact and robust DC disconnecter for 1500V DC DC-20B applications. This series include variants for remote operation. Rated short-time withstand currents up to 100kA.



Quick selection IEC

Volta :::	Civarita	Ammerican											
Voltage	Circuits	Amperage		100	100			24.5	400				1000
Itilizatio	IEC60947-3 on category: DC-21B -	16 25	32	100	160	200	250	315	400	500	630	800	1000
Julizatio	on category: DC-21B -	OTDC XS and OTL	CP XS										
660	Single circuit Double circuit												
	Triple circuit	OTDC XS	OTDCPXS	-									
	Order information	Pages 22-23	Page 24					'					
Utilizatio	on category: DC-21B -	OTDC XS, OTDCP	XS and OTI	JC \$1.0	DC-21	B/DC-PV1	./DC-PV2	/DC-22B	- OTDC M	<u> </u>			
			OTDCP									39	
	Single circuit	OTDC XS	XS		ОТ	DC S1.0			C	OTDC M			OTDC M
	Order information	Pages 22-23	Page 24		P	age 33		Pa		Page 43 igher SC-r	atings)	Page	Page 43 e 45 (highe r E -ratings)
1000°)						11011							
	Double circuit	OTDC XS	OTDCP XS	5	ОТ	DC S1.0				OTDC M			
	Order information	Pages 22-23	Page 24			age 33				Page 43			
	Triple circuit	OTDC X	(S		OTDC S1.0				(OTDC M			
	Order information	Page 2				age 33			Page	43			
Utilizatio	on category: DC-21B ,	DC-PV1 & DC-PV2	- OTDC S2.	0	DC-21B	DC-PV1	/DC-PV2/	DC-22B -	OTDC M				
					3/7	(O)]	
	Single circuit				ОТ	DC S2.0			C	OTDC M		(OTDC M
	Order information			Pa	P. age 35 (hi	age 34 gher SC-r a	atings)	Pa		Page 43 igher SC-r	atings)	Page	Page 43 e 45 (highe r i- ratings)
1500					200	0							
	Double circuit	_				DC S2.0				OTDC M			
	Order information				P	age 31			F	Page 43			
	Triple circuit								OTDC	М			
	Order information								Page	43			
Utilizatio	n category: DC-21B &	& DC-PV1											
2000	Charle should								4	The M			
	Single circuit	-								OTDC M			
	Order information							-		Page 43			

Quick selection IEC

Voltage	Circuits	Amperage					
	IEC60947-3	1600	2500	:	3200	4000	6000
Utilization	category: DC-20B M	anual OT-135	'				
		OT1600E02-135	Connection Cor	00E02-135 nnection	OT3200E02-135	OT2500E04-135 OT2500E22-135	OT3200E04-135 OT3200E22-135
1500	Single circuit Order information	Connection type 1 Page 52		type 1 Page 52	Connection type 1 Page 52	Connection type 3 Page 52	Connection type 3 Page 52
1300	Double circuit Order information	OT1600E04-135 OT1600E22-135 Connection type 2 Page 52	OT2500E04-13 OT2500E22-13 Connection type Page 52	35	OT3200E04-135 OT3200E22-135 Connection type 2 Page 52		
Utilization	category: DC-20B M	otorized OTM-135		· ·			
		OTM1600E2M230V-135	OTM2500E2M230V		OTM3200E2M230V-135	OTM2500E4M230V-135	OTM3200E4M230V-135
	Single circuit Order information	Connection type 1 Page 52	Connection type	6 T	Connection type 1 Page 52	Connection type 3 Page 52	Connection type 3 Page 52
1500		OTM1600E4M230V-135	OTM2500E4M230V	Page 52		, age JL	i age JZ
	Double circuit	Connection type 2	Connection type	e 2	Connection type 2		
	Order information	Page 52	Page 52		Page 52		

Quick selection UL

ltage	Circuits	Amper	age									
	UL98B	16	25	32	100	200	250	320	400	600	800	1000
			Market Street									
	Single circuit		A23 100									
500	Double circuit		8/2-									
	Triple circuit		OTDC XS									
	Order information		Page 23									
	Single circuit Order information				OTDC S1.0			OTDC M Page 44 Page 45 (higher SC-ratings)			Pa	OTDC M Page 44 age 45 (higher SC-ratings)
1000°)	order information					li cili		rage 43 (III	giler 3C-1a	icings)		3C-ratings)
	Double circuit				ОТ	DC S1.0		0	TDC M			
	Order information				Pa	age 33		Р	age 44			
	Triple circuit				ОТ	DC S1.0						
	Order information				Pa	age 33						
									1			
	Single circuit				ОТ	DC S2.0		O	TDC M			OTDC M
500	Order information				Page	age 31 32 (higher ratings)		Page -	Page 4 45 (higher	14 SC-ratings)	Pa	Page 44 ige 45 (highe i SC-ratings)
	Double circuit					OTDC S2			OTDC			
	Order information					Page 29	9		Page 4	10		1
000								4				
	Single circuit							О	TDC M			
	Order information							Page 40				

^{*)} OTDC S2.0-Series available for 1000V DC Single or Double circuit on request. Higher performance compared to S1.0-Series

02

Gearing up your installation

- **02.1.** High performance
- **02.2.** Speed up your projects
- **02.3.** Efficient design
- **02.4.** ABB EcoSolutionsTM

OTDC switch-disconnectors

Gearing up your installation

OTDC switch-disconnectors provide a robust and reliable switching and isolation in a wide variety of applications. Their efficient design makes your operations smoother and more sustainable.



High performance

With OTDC, you can have peace of mind. The unique 2-pole switch design has been optimized to break mid-currents up to 1500V DC easily and reliably, across the complete lifespan of the installation. OTDC switch-disconnectors have been certified according to all main international standards and can be used in demanding conditions.



Speed up your projects

Time is money. With OTDC switch-disconnectors, you have the flexibility to design the best installation and equipment, while decreasing labor time.



Efficient design

OTDC switch-disconnectors have been designed with sustainability in mind when it comes to operation, transportation, and installation. As a result, OTDC has a compact design, high energy efficiency and fast installation. The new optimized bulk package decreases waste without compromising the quality of the product during transportation.

High performance

Robust operation and long lifetime

Robust operation in a wide variety of applications

The complete portfolio from 16A to 1000A complies with all the international standards: IEC 60947, UL98B and CCC. Our OTDC S2.0 and M series fulfill the requirements of AS 60947.3 standard. The OTDC range complies with Marine specific DNV GL standard.











OTDC switch-disconnectors from 100A to 800A fulfill the highest requirements in the IEC standards, such as DC-PV2 utilization category. This means that OTDC can connect and disconnect DC circuits with significant overcurrents and handle bi-directional current flow.

OTDC switch-disconnectors have been tested with and without fuses to fulfill higher short circuit level requirements. Now OTDC can reach up to 100kA short-circuit level with fuses.

IEC standards

DC-PV2

ratings

Short circuit current up to

100kA

with fuses

Reliability - exceptional mechanical endurance

The mechanical endurance of OTDC switch-disconnectors from 100A up to 1000A is 10 000 mechanical operation cycles, which is up to 90% higher than other existing products in the market.

10 000

Operating cycles

High thermal capacity

When selecting DC switch in different DC applications there are many aspects to consider, like enclosure size, cable size, type of connection (busbars or lugs) and ambient temperature inside the enclosure. These have an impact on the thermal capacity of the switch.

OTDC switch-disconnectors have a high thermal capacity, to minimize the derating required in high ambient temperatures. We provide a detailed reference table for the OTDC thermal ratings, based on testing results.

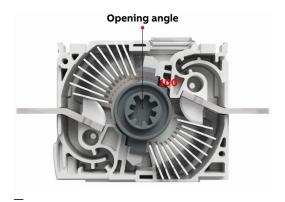
No derating needed up to

75°C

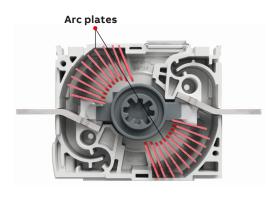
in enclosure

High performance

Pole design that enhances safety, reliability and flexibility



Long contact opening angle of 100 degrees – this stretches the electric arc at maximum and improves arc suppression

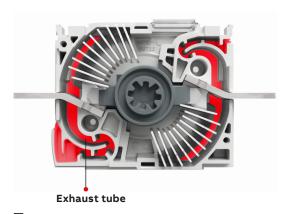


Multiple arcing plates in the pole chamber create multiple jumping points in the electric arc

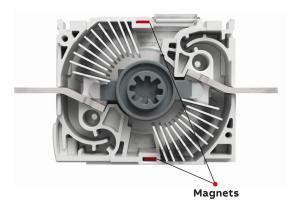
Knife and fixed contacts



The contact design allows a high withstand capability – the higher the current, the more firmly the knife contacts are pushed against the fixed contacts



The long exhaust tubes prevent leakage of conductive gasses caused by arc flash away from the pole



Dual Magnetic breaking – the pole chamber includes magnets to optimize arc suppression at the end the arc path

Speed up your projects

Fast and flexible

Switch up to 3x1500 with one device

OTDC's modular design makes it possible to operate more than one 1500V DC circuit simultaneously with one switch, giving you more alternatives to design your installation. You can connect and disconnect up to 3x1500V DC circuits using only one switch in one enclosure.

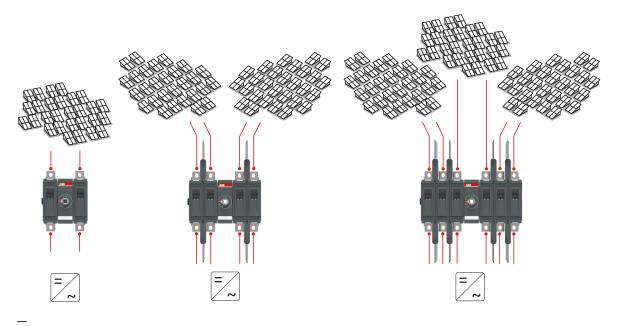
Switch up to 3x1500V DC circuits

Front and side operation

The switch can be side or front operated and can be mounted in any direction without significant impact on the performance.



Side operated OTDC switch-disconnector



 ${\tt OTDC}\ switch-disconnectors\ to\ connect\ and\ disconnect\ one,\ two\ and\ three\ circuits\ simultaneously$

Speed up your projects

Easy installation

Symmetrical pole design

Thanks to the symmetrical pole design, the power supply and load can be reversed. This simplifies cabling, making it possible to cable from bottom/up or up/bottom.

Easy to install accessories

Cabling can be done with mechanical lugs, electrical lugs, and busbars. The accessories are snap-on mounted and can be installed easily and quickly without using any tools. There is no need to use any connection bars to finalize the installation.



The symmetrical pole design allows an easy and flexible design and installation

Adjustable shaft

The length of the shaft is adjustable, so no special cutting tools are needed. This feature saves up to 50% installation time per switch.



Adjustable shaft that saves installation time



Efficient design

More compact and energy efficient

Compact and powerful

The design of the new OTDC switch-disconnectors has been optimized for a smaller footprint and high performance. The 2D footprint has been decreased up to 80% compared to equivalent solutions in the market.

Up to

80%

more compact

Energy efficiency

A compact size gives you the possibility to use a smaller enclosure, without worrying about power losses. OTDC's design has up to 80% lower power losses compared to equivalent solutions in the market.

Up to

80%

reduced power losses

Energy efficiency label

OTDC's high energy efficiency by the Solar Impulse Foundation. The 315...800A range has received the Energy Efficiency Label, given to efficient and profitable solutions that protect the environment.



Learn more about the Solar Impulse Energy Efficiency Label (OTDC 315...800A)





Efficient design

New bulk package

DC projects typically require hundreds of switches to be delivered in the same batch. Now, OTDC comes in a bulk package designed for your convenience, saving labor time and decreasing the amount of waste.

OTDC switch-disconnectors help original equipment manufacturers (OEMs) to improve the efficiency in their products and systems.

Speed up your manufacturing process

Previously, each switch was delivered in a single pack that had to be unpacked individually. With the new bulk package you can save up to 60 seconds of unpacking per switch. This means that if you purchase a bulk package (280 pieces) of 2-pole S2.0 Series switches, you can save up to 4,5 hours time.

Decrease waste

Bulk pack decreases board and paper waste up to 45kg without compromising product quality during transportation.



Save up to 4,5 hours



Up to

45kg

ABB EcoSolutions™

Leading the way to the circular economy

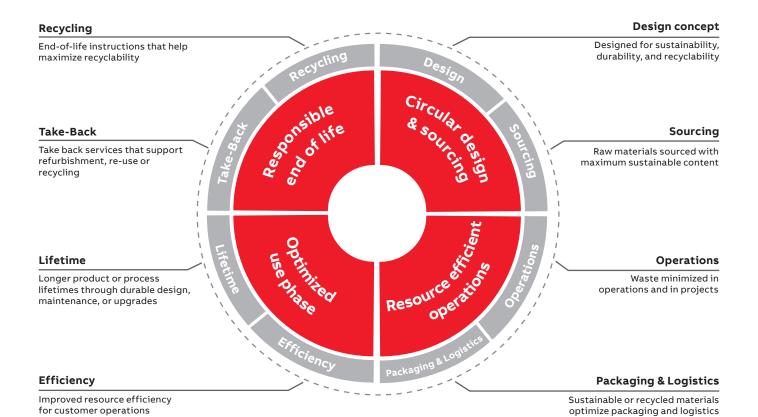
The OTDC switch-disconnectors series has been certified with the ABB EcoSolutions™ label, a significant achievement that reflects our commitment to sustainability and transparency. To help preserve the Earth's resources for future generations, ABB takes a company-wide approach to circularity. We aim to innovate towards new circular business models by cutting waste, increasing recyclability and reusability, and making our products more durable. We work closely with customers and suppliers to embed circularity across the value chain.

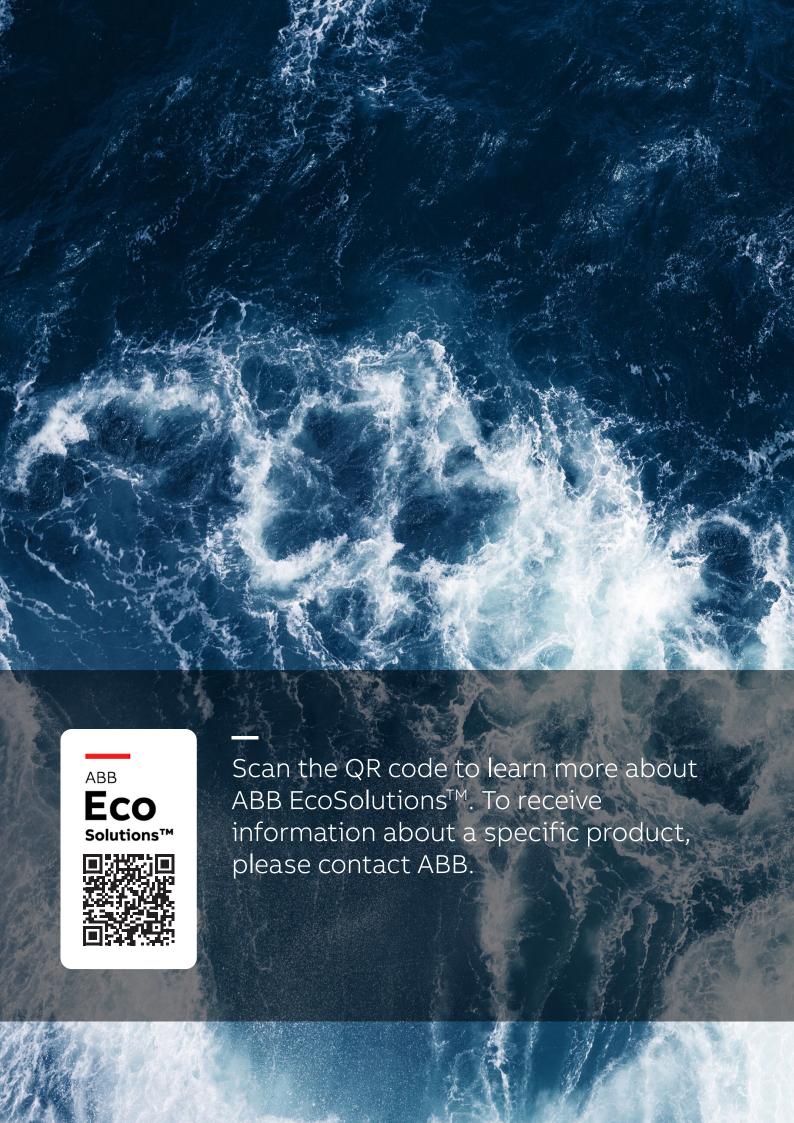
ABB's EcoSolutions[™] label provides full transparency on a product's circularity value and environmental impact. ABB products with the EcoSolutions label carry an independently verified environmental product declaration (EPD) (ISO 14025) – and comply with a set of key performance indicators defined in ABB's circularity framework.

ABB EcoSolutions: transparency for customers The ABB EcoSolutionsTM label is an assurance that the product is:

- designed to last and manufactured with the maximum amount of sustainably sourced raw materials;
- made with processes that are designed to avoid waste and maximize the use of sustainable packaging materials;
- designed to increase resource and process efficiency while in use, be upgradable and optimize the lifetime of equipment and facilities;
- supported by take-back services leading to refurbishment, re-use or recycling of products and components, and is accompanied by instructions for responsible end-of-life treatment.

EcoSolutions products are evaluated against a clear set of 8 key performance indicators (KPIs) based on these four stages of the product life cycle.





03

OTDC XS-Series

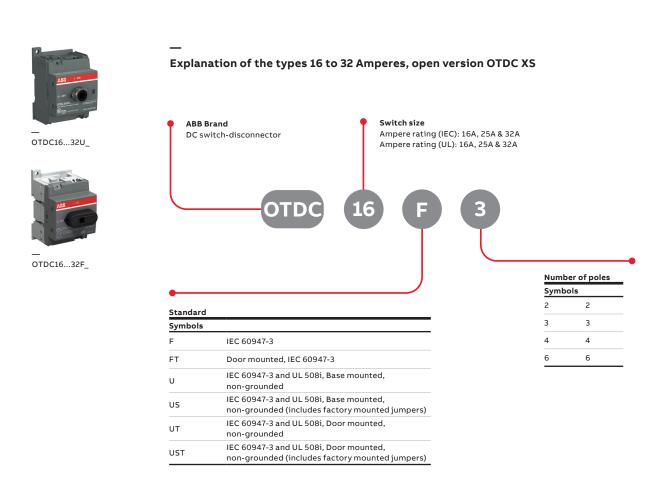
- **03.1.** Overview of product range OTDC XS-Series
- **03.2.** Technical data
- **03.3.** Ordering information, OTDC XS-Series
- **03.4.** Ordering information, OTDCP XS-Series
- **03.5.** OTDC and OTDCP XS-Series circuits

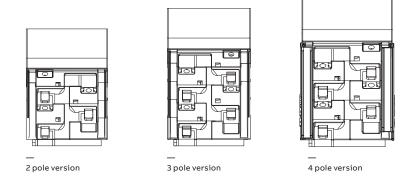




OTDC XS-Series, Type codes and pole configuration table

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.

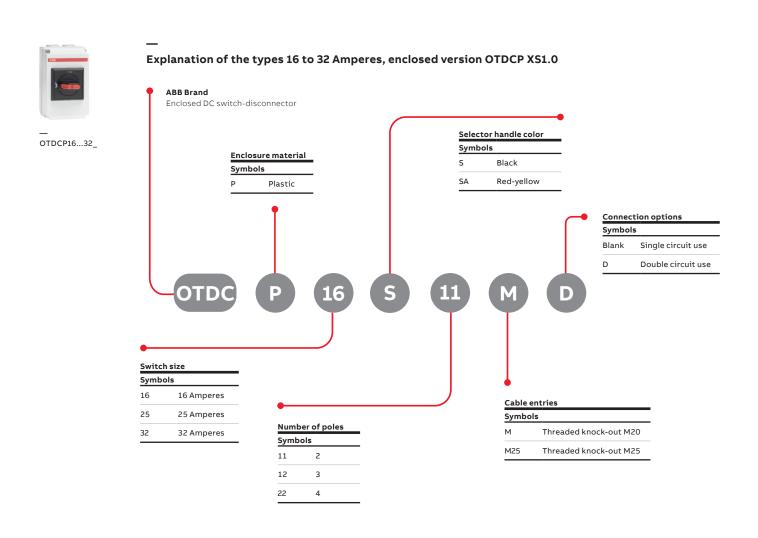




6 pole version

OTDC XS-Series, Type codes and pole configuration table

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.



OTDC XS-Series IEC



OTDC16...32F_

Technical data according to IEC 60947 for switch-disconnectors OTDC16...32F_

Switch size				OTDC16F	OTDC25F	OTDC32F
Rated insulation voltage U _i	Pollution degree	e 2 ¹)	V	1250	1250	1250
	Pollution degree	e 3 ¹)	V	1000	1000	1000
Rated impulse withstand voltage			kV	8	8	8
Rated thermal current I _{th}	In open air, normal conditions 2)			25	32	45
	In enclosure 40°	In enclosure 40°C		25	32	45
	In enclosure 60°C			25	32	32
with cable or bar cross section	Cu		mm²	4	6	10
Rated operational current /	660V	One circuit	V	16/2P	25/2P	32/2P
poles in series DC-21B						36A/3P
		Two circuits	V	16/2Px2	25/2Px2	32/2Px2
	1000V	One circuit	V	10/2P	16/2P	20/2P
			V	16/3P	25/3P	32/3P
		Two circuits	V	10/2Px2	16/2Px2	20/2Px2
Rated short-time withstand current, 1000V, 1s	R.M.Svalue I _{cw}		kA	0,8	0,8	0,8
Power loss / pole	At rated current		W	0,15	0,3	0,5
Terminal cable size	Cu		mm²	2.516	2.516	2.516
Terminal tightening torque	Counter torque	required	Nm	1.21.4	1.21.4	1.21.4
Operating torque	2P/3P/4P		Nm	0,40,8	0,40,8	0,40,8

¹⁾ When used with external handle. For use with direct mounted handle, see installation instruction. ²⁾ Normal conditions defined in IEC 60947-1, section 6.1.



OTDCP16...32_

Switch size			Α	OTDCP16	OTDCP25	OTDCP32
Rated insulation voltage	Pollution degr	ee 2	V	1250	1250	1250
	Pollution degr	ee 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		Α	25	32	45
	In enclosure 60°C		Α	25	32	32
Rated operational current /	660V	One circuit	Α	16/2P	25/2P	32/2P
poles in series DC-21B		Two circuits	Α	16/2Px2	25/2Px2	32/2Px2
DC-21B	1000V	One circuit	Α	10/2P	16/2P	20/2P
			Α	16/3P	25/3P	32/3P
		Two circuit	Α	10/2Px2	16/2Px2	20/2Px2
Rated short-time withstand current, 1000V, 1s	R.M.Svalue I	cw	kA	0.8	0.8	0.8
Power loss / pole	At rated current		W	0.15	0.3	0.5

OTDC XS-Series IEC and UL



OTDC16...32U_

Technical data according to IEC 60947 for switch-disconnectors OTDC16...32U_

Switch size				OTDC16U	OTDC25U	OTDC32U
Rated insulation voltage U _i	Pollution de	egree 2 1)	V	1250	1250	1250
	Pollution de	egree 3 1)	V	1000	1000	1000
Rated impulse withstand voltage			kV	8	8	8
Rated thermal current I _{th}	In open air, normal conditions ²⁾		Α	40	50	63
	In enclosure	e 40°C	Α	32	40	50
	In enclosure 60°C		Α	25	32	40
with cable or bar cross section	Cu		mm²	4	6	10
Rated operational current DC-21B /	660V	One circuit	V	16/2P	25/2P	32/2P
Poles in series		Two circuits	V	16/2Px2	25/2Px2	32/2Px2
		Three circuits	V	16/2Px3	25/2Px3	32/2Px3
	1000V ³⁾	One circuit	V	10/2P	16/2P	20/2P
		Two circuits	V	10/2Px2	16/2Px2	20/2Px2
		Three circuits	V	10/2Px3	16/2Px3	20/2Px3
Rated short-time withstand current, 1000V, 1s	R.M.S. -value I _{cw}		kA	1,0	1,0	1,0
Rated conditional short-circuit	I _p (r.m.s.), 1	000V	kA	10	10	10
current I _p (r.m.s.)	Max fuse si	ze, gPV	Α	80	80	80
Power loss / pole	At rated current		W	0,1	0,2	0,35
Terminal cable size	Cu		mm²	2.516	2.516	2.516
Terminal tightening torque	Counter to	que required	Nm	1.21.4	1.21.4	1.21.4
Operating torque	2P/4P		Nino	0,40,8	0,40,8	0,40,8
	6P		Nm	0,81,9	0,81,9	0,81,9

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

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			UL508i	UL508i	UL508i
Rated ambient temperature			°C	-20+60	-20+60	-20+60
Rated current /	600V	One circuit	Α	16/2P	25/2P	
Poles in series		Two circuits	Α	16/2Px2	25/2Px2	32/2Px2
		Three circuits	Α	16/2Px3		
Short circuit rating	600V		kA	5	5	5
Protection type	Max fuse	size, RK5 fuse	Α	80	80	80
Wire range				AWG 12-6	AWG 12-6	AWG 12-6
Technical data according to IEC 60947	See IEC ta	ble for type		OTDC16U	OTDC25U	OTDC32U

 $^{^{\}rm 2)}$ Normal conditions defined in IEC 60947-1, section 6.1.

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

Ordering information, IEC

OTDC XS-Series 16...32A



OTDC16...32F_



OTDC16...32FT_

Switch-disconnectors OTDC XS-Series, base, DIN-rail or door mounting, IEC
OTDC16...32F_ base or DIN-rail mounted types include IP20 protected terminal clamps and knob handles.

Rated operation	onal current [A]						
600V DC	1000V DC	Number of circuits	Circuit	Number of poles	Туре	Order code	
Base or DIN-ra	il mounting						
16	10	1	2a, 2b	2	OTDC16F2	1SCA121454R1001	
16	16	1	5a	3	OTDC16F3	1SCA121457R1001	
25	16	1	2a, 2b	2	OTDC25F2	1SCA121455R1001	
25	25	1	5a	3	OTDC25F3	1SCA121458R1001	
32	20	1	2a, 2b	2	OTDC32F2	1SCA121456R1001	
32	32	1	5a	3	OTDC32F3	1SCA121459R1001	
16	10	2	4a, 4c	4	OTDC16F4	1SCA121461R1001	
25	16	2	4a, 4c	4	OTDC25F4	1SCA121462R1001	
32	20	2	4a, 4c	4	OTDC32F4	1SCA121463R1001	
Door mounting	g						
16	10	1	2a, 2b	2	OTDC16FT2	1SCA123839R1001	
-	16	1	5a	3	OTDC16FT3	1SCA123840R1001	
25	16	1	2a, 2b	2	OTDC25FT2	1SCA123842R1001	
-	25	1	5a	3	OTDC25FT3	1SCA123843R1001	
32	20	1	2a, 2b	2	OTDC32FT2	1SCA123845R1001	
-	32	1	5a	3	OTDC32FT3	1SCA123846R1001	
16	10	2	4a, 4c	4	OTDC16FT4	1SCA123841R1001	
25	16	2	4a, 4c	4	OTDC25FT4	1SCA123844R1001	
32	20	2	4a, 4c	4	OTDC32FT4	1SCA123847R1001	

You can find the accessories starting from page 47 and dimensional drawings starting from page 61.

Ordering information, IEC and UL

OTDC XS-Series 16...32A



OTDC16...32U_

Switch-disconnectors OTDC XS-Series, base or DIN-rail mounting, IEC and UL OTDC16...32U include IP20 protected terminal clamps.

Rated operational current [A]						a: 1 1		
UL 508i	IEC 60947-3, DC-21B		Number of		Number of	Single packed		
600V DC	/ DC 660V DC 1000V		circuits	Circuit	poles	Type	Order code	
Base or DI	I-rail mounting							
16	16	10	1	2a, 2b	2	OTDC16U2	1SCA134369R1001	
25	25	16	1	2a, 2b	2	OTDC25U2	1SCA134375R1001	
16	16	10	2	4a, 4c	4	OTDC16U4	1SCA134370R1001	
25	25	16	2	4a, 4c	4	OTDC25U4	1SCA134377R1001	
32	32	20	2	4a, 4c	4	OTDC32U4	1SCA136703R1001	
16	16	10	3	7a,7e	6	OTDC16U6	1SCA134371R1001	
Door moun	ting							
16	16	10	1	2a, 2b	2	OTDC16UT2	1SCA134387R1001	
25	25	16	1	2a, 2b	2	OTDC25UT2	1SCA134388R1001	
16	16	10	2	4a, 4c	4	OTDC16UT4	1SCA134390R1001	
25	25	16	2	4a, 4c	4	OTDC25UT4	1SCA134391R1001	
32	32	20	2	4a, 4c	4	OTDC32UT4	1SCA136705R1001	
16	16	10	3	7a,7e	6	OTDC16UT6	1SCA134580R1001	

The circuits can be found in page 25.

You can find the accessories starting from page 47 and dimensional drawings starting from page 61.

Ordering information, IEC

OTDCP XS-Series 16...32 Amperes



OTDCP16...32SA_



OTDCP16...32S_

Enclosed Switch-disconnectors OTDCP XS-Series
The delivery includes a selector handle (I-O/ON-OFF) with cover interlock and defeatable interlock function. Auxiliary contacts not included. Plastic enclosure is IP65 rated.

Rated operational current [A]								
DC-21B		- - Handle	Cable	Number of		Number		
660V DC	1000V DC	color	outlets	circuits	Circuit	of poles	Туре	Order code
16	10	Red-yellow	M20	1	2a, 2b	2	OTDCP16SA11M	1SCA125126R1001
25	16	Red-yellow	M20	1	2a, 2b	2	OTDCP25SA11M	1SCA125127R1001
32	20	Red-yellow	M20	1	2a, 2b	2	OTDCP32SA11M	1SCA125128R1001
16	10	Black	M20	1	2a, 2b	2	OTDCP16S11M	1SCA125129R1001
25	16	Black	M20	1	2a, 2b	2	OTDCP25S11M	1SCA125130R1001
32	20	Black	M20	1	2a, 2b	2	OTDCP32S11M	1SCA125131R1001
16	16	Red-yellow	M20	1	5a	3	OTDCP16SA12M	1SCA125150R1001
25	25	Red-yellow	M20	1	5a	3	OTDCP25SA12M	1SCA125151R1001
32	32	Red-yellow	M20	1	5a	3	OTDCP32SA12M	1SCA125152R1001
16	16	Black	M20	1	5a	3	OTDCP16S12M	1SCA125153R1001
25	25	Black	M20	1	5a	3	OTDCP25S12M	1SCA125154R1001
32	32	Black	M20	1	5a	3	OTDCP32S12M	1SCA125155R1001
16	16	Red-yellow	M25	1	6c	4	OTDCP16SA22M25	1SCA144900R1001
25	25	Red-yellow	M25	1	6c	4	OTDCP25SA22M25	1SCA144902R1001
32	32	Red-yellow	M25	1	6c	4	OTDCP32SA22M25	1SCA144904R1001
16	16	Red-yellow	M20	1	6c	4	OTDCP16SA22M	1SCA125094R1001
25	25	Red-yellow	M20	1	6c	4	OTDCP25SA22M	1SCA125091R1001
32	32	Red-yellow	M20	1	6c	4	OTDCP32SA22M	1SCA125090R1001
16	16	Black	M20	1	6c	4	OTDCP16S22M	1SCA125095R1001
25	25	Black	M20	1	6c	4	OTDCP25S22M	1SCA125092R1001
32	32	Black	M20	1	6c	4	OTDCP32S22M	1SCA125093R1001
16	10	Red-yellow	M20	2	4a, 4c	4	OTDCP16SA22MD	1SCA131850R1001
25	16	Red-yellow	M20	2	4a, 4c	4	OTDCP25SA22MD	1SCA131851R1001
32	20	Red-yellow	M20	2	4a, 4c	4	OTDCP32SA22MD	1SCA131852R1001
16	10	Black	M20	2	4a, 4c	4	OTDCP16S22MD	1SCA131730R1001
25	16	Black	M20	2	4a, 4c	4	OTDCP25S22MD	1SCA131731R1001
32	20	Black	M20	2	4a, 4c	4	OTDCP32S22MD	1SCA131732R1001

You can find the accessories starting from page 47 and dimensional drawings starting from page 61.

Ordering information, IEC

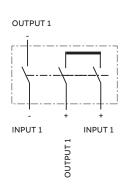
OTDC XS and OTDCP XS circuits

Single circuit 2a, 2b

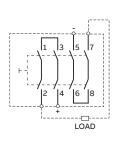
2-pole, 4-wire, 1-circuit

2-pole, 4-wire, 1-circuit
REVERSED SUPPLY
+(-) -(+)
2 4
1 3

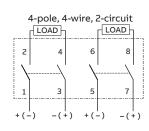
Single circuit 5a

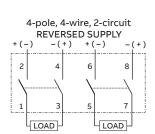


Single circuit 6c

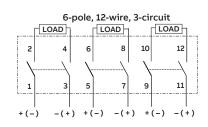


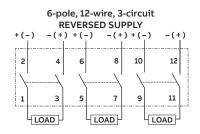
Double circuit 4a, 4c





Triple circuit 7a, 7c





04

OTDC S-Series

- **04.1.** Overview of product range OTDC S-Series
- **04.2.** Technical data, OTDC S1.0-Series
- **04.3.** Technical data, OTDC S2.0-Series
- **04.4.** Ordering information, OTDC S1.0-Series
- **04.5.** Ordering information, OTDC S2.0-Series
- **04.6.** OTDC S.1 and S2.0-Series circuits



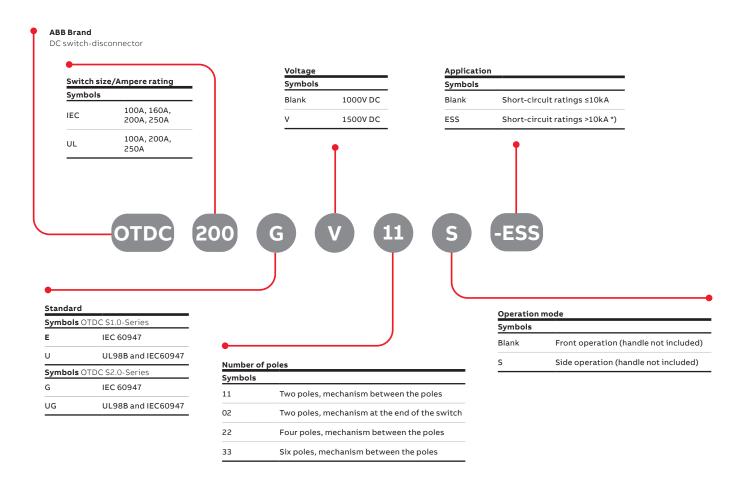


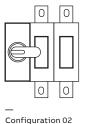
Overview of product range OTDC S-Series

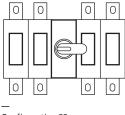
Type codes and pole configuration table

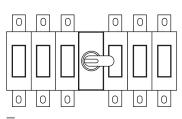
Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

Explanation of the types OTDC S1.0 and OTDC S2.0-Series from 100A up to 250A (IEC and UL98B)









Configuration 11 Configuration 22

Configuration 33

OTDC S1.0-Series IEC and UL



Technical data according to IEC 60947 for switch-disconnectors OTDC100...250E_ Switch size OTDC10

Switch size					OTDC100E	OTDC160E	OTDC200E	OTDC250E
Rated insulation voltage U _i	Pollutio	n degree 3		٧	1500	1500	1500	1500
Rated impulse withstand voltage					12	12	12	12
Rated thermal current I _{th} ²⁾	In open	air, normal	conditions 1)	Α	100	160	200	250
	In enclo	sure 40°C		Α	96	154	193	241
	In enclosure 50°C			Α	89	142	177	222
	In enclosure 60°C			Α	80	128	160	200
with cable or bar cross section	Cu			mm²	35	70	95	120
Rated operational current DC-21B,	1000V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	250
poles in series		2 circuits	4P (2P+, 2P-)	Α	100	160	200	250
		3 circuits	6P (3P+, 3P-)	Α	100	160	200	
Rated short-time withstand	R.M.S	R.M.Svalue I _{cw} 1s		kA	5	5	5	5
current, 1000V			0.1s	kA	10	10	10	10
Power loss / pole	At rate	d current		W	2	4	6	9,5
Terminal bolt size	Metric thread diameter x length			mm	M8x25	M8x25	M8x25	M8x25
Terminal tightening torque	Counter torque required			Nm	1522	1522	1522	1522
Operating torque	2P/4P/	'6P		Nm	58	58	58	58

¹⁾ Normal conditions defined in IEC 60947-1, section 6.1.

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC100...200U_Suitable for use In photovoltaic systems in accordance with article 690 of the NEC.

Switch size					OTDC100U	OTDC200U
UL Listed	Standar	d			UL98B	UL98B
Rated ambient temperature				°C	-20+50	-20+50
Rated current	1000V	1 circuit	2P (1P+, 1P-)	Α	100	200
		2 circuits	4P (2P+, 2P-)	Α	100	200
		3 circuits	6P (3P+, 3P-)	Α	100	200
Short circuit rating	1000V			kA	10	10
Protection type					Circuit breaker	Circuit breaker
Mechanical lug					OZXA200	OZXA200
Wire range	Cu/Al				AWG 4-300MCM	AWG 4-300MCM
Tightening torque				lb-in.	200	200
Technical data according to IEC 60947	See IEC table for type				OTDC160E	OTDC250E

²⁾ Ambient max. average 24h.

OTDC S2.0-Series IEC

Switch size					Α	OTDC100G_	OTDC160G_	OTDC200G_	OTDC250G
Rated insulation volt	lated insulation voltage U _i Pollution degree 3				V	1500	1500	1500	1500
Rated impulse withstand voltage				kV	12	12	12	12	
Rated thermal currer	nt I _{th} 1)	In open air, norma	I conditions 2)		Α	100	160	200	250
		In enclosure 40°C			Α	100	160	200	250
		In enclosure 50°C			Α	100	160	200	250
		In enclosure 60°C			Α	100	160	200	219
		In enclosure 70°C			Α	100	146	169	185
		In enclosure 80°C			Α	88	115	133	146
with cable or bar cr	oss section	Cu			mm²	35	70	95	120
Rated operational	DC-21B	1000V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	250
current le 3),			2 circuits	4P (2P+, 2P-)	Α	100	160	200	250
poles in series		1500V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	250
			2 circuits	4P (2P+, 2P-)	Α	100	160	200	250
	DC-PV1	1000V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	200
			2 circuits	4P (2P+, 2P-)	Α	100	160	200	200
		1500V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	200
			2 circuits	4P (2P+, 2P-)	Α	100	160	200	200
	DC-PV2	1000V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	200
			2 circuits	4P (2P+, 2P-)	Α	100	160	200	200
		1500V	1 circuit	2P (1P+, 1P-)	Α	100	100	100	100
			2 circuits	4P (2P+, 2P-)	Α	100	100	100	100
Rated short-time with 1500V, 0,1	nstand current,	R.M.Svalue I _{cw}			kA	10	10	10	10
Rated short circuit m	naking capacity,	Peak value I _{cm}			kA	10	10	10	10
Power loss / pole		At rated current	At rated current			1,01,3	3,13,5	5,05,5	7,78,4
Terminal bolt size		Metric thread dia	Metric thread diameter x length				M8x25	M8x25	M8x25
Terminal tightening torque		Counter torque re	Counter torque required			1522	1522	1522	1522
Mechanical Endurance	ce	Cycles			-	10.000			
Operating altitude w	rithout derating				m	≤2000			
Operating torque		2P/4P			Nm	69	69	69	69

¹⁾ For more detailed derating, please consult us. Installation condition may have an influence on the derating by increasing the possible rated current. The given deratings are references based on specific test setup.
²⁾ Normal conditions defined in IEC 60947-1, section 6.1.

 $^{^{\}scriptsize 3)}$ For DC-22B utilization category ratings, please consult us.



OTDC100...250_G_

OTDC S2.0-Series IEC and UL

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC100UG_...250UG_ Suitable for use in photovoltaic systems in accordance with article 690 of the NEC.

Switch size					OTDC100UG_	OTDC200UG_	OTDC250UG_
UL Listed	Standard				UL98B	UL98B	UL98B
Rated ambient temperature without derating				°C	-20+50	-20+50	-20+50
Rated current	1000V	1 circuit	2P (1P+,1P-)	А	100	200	250
		2 circuits	4P (2P+,2P-)	Α	100	200	250
	1500V	1 circuit	2P (1P+,1P-)	А	100	200	250
		2 circuits	4P (2P+,2P-)	Α	100	200	250
Short circuit rating	1500V			kA	10	10	10
Required protection ²⁾					Any	Any	Any
Mechanical lug					OZXA 100	OZXA 200	OZXA 252
Wire range					AWG 14-2/0	AWG 4-300MCM	2 X AWG
							14-2/0
Tightening torque				lb-in.	35-50	200	120
Technical data according to IEC 60947	See IEC table	for type			OTDC160G_	OTDC250G_	OTDC250G_

¹⁾ For more detailed derating please consult us. Installation condition may have an influence on the derating. The given deratings are references based on specific test setup.
²⁾ Any suitable PV fuse or PV circuit breaker.



OTDC100...250_G_

OTDC S2.0-Series for higher short-circuit currents IEC

Technical data according to IEC 60947 for switch-disconnectors OTDC1 Switch size							OTDC1606 -ESS	OTDC200GESS	OTDC250G -ESS
				<u>А</u> V	1500	1500	1500	1500	
Rated impulse withstand voltage					kV		12	12	
·			i±i=== 2)		12			12	
Rated thermal curre	ent I _{th} -/		r, normal cond	ittions 5/	A	100	160	200	250
		In enclosure 40°C				100	160	200	250
		In enclosu			A	100	160	200	250
		In enclosu			Α	100	160	200	219
		In enclosu			Α	100	146	169	185
		In enclosu	re 80°C		Α	88	115	133	146
with cable or bar					mm²		70	95	120
Rated operational	DC-21B	1000V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	250
current le ⁵⁾ , poles in series			2 circuits	4P (2P+, 2P-)	Α	100	160	200	250
poles ili series		1500V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	250
			2 circuits	4P (2P+, 2P-)	Α	100	160	200	250
	DC-PV1	1000V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	200
			2 circuits	4P (2P+, 2P-)	Α	100	160	200	200
		1500V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	200
			2 circuits	4P (2P+, 2P-)	Α	100	160	200	200
	DC-PV2	1000V	1 circuit	2P (1P+, 1P-)	Α	100	160	200	200
			2 circuits	4P (2P+, 2P-)	Α	100	160	200	200
		1500V	1 circuit	2P (1P+, 1P-)	Α	100	100	100	100
			2 circuits	4P (2P+, 2P-)	Α	100	100	100	100
Rated short-time w current, 1500V, 0,1	ithstand	R.M.Svalue I _{cw}			kA	10	10	10	10
Rated short circuit capacity, 1500V	making	Peak value	e I _{cm}		kA	10	10	10	10
Rated conditional s	hort-circuit	R.M.S va	lue Iq		kA	50	50	50	50
current Iq Required protection	า ³⁾	Max. fuse	size		Α	100	160	200	250
Power loss/pole		At rated co	urrent		W	1,01,3	3,13,5	5,05,5	7,78,4
Terminal bolt size		Metric thr	ead diameter:	x length	mm	M8x25	M8x25	M8x25	M8x25
Terminal tightening	torque	Counter to	orque required	ł	Nm	1522	1522	1522	1522
Mechanical Endurar	nce	Cycles			-	10.000			
Operating altitude derating	without	-			m	≤2000			
Operating torque		2P			Nm	69	69	69	69

¹⁾ For more detailed derating please consult us. Installation condition may have an influence on the derating by increasing the possible rated current. The given deratings are a reference based on specific test setup.



²⁾Normal conditions defined in IEC 60947-1, section 6.1.

 $^{^{\}scriptsize 3)}$ Please consult us on the fuse coordination table for more information.

 $^{^{\}mbox{\tiny 4)}}$ For DC-22B utilization category ratings, please consult us.

OTDC S2.0-Series for higher short-circuit currents IEC and UL

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC100UG_...250UG_-ESS Suitable for use in photovoltaic systems in accordance with article 690 of the NEC.

Switch size					OTDC100UGESS	OTDC200UGESS	OTDC250UGESS
UL Listed	Standard				UL98B	UL98B	UL98B
Rated ambient temperature				°C	-20+50	-20+50	-20+50
Rated current 1)	1000V	1 circuit	2P (1P+, 1P-)	Α	100	200	250
		2 circuits	4P (2P+, 2P-)	Α	100	200	250
	1500V	1 circuit	2P (1P+, 1P-)	Α	100	200	250
		2 circuits	4P (2P+, 2P-)	Α	100	200	250
Short circuit rating	1500V		R.M.Svalue	kA	10	10	10
Required protection 2)					Any	Any	Any
Short circuit rating	1500V DC			kA	50	50	50
Required protection 3)	Max. fuse size			Α	100	200	250
Mechanical lug					OZXA 100	OZXA 200	OZXA 252
Wire range					AWG 14-2/0	AWG 4-300MCM	2 X AWG 14-2/0
Tightening torque				lb-in	. 35-50	200	120
Technical data according to IEC 60947	See IEC table fo	r type			OTDC160G_	OTDC250G_	OTDC250G_

¹⁾ For more detailed derating please consult us. Installation condition may influence on the derating. The given deratings are references based on specific test setup.



OTDC100...250_G_

²⁾ Any suitable PV fuse or PV circuit breaker.

 $^{^{\}mbox{\tiny 3)}}\mbox{Please}$ consult us on the fuse coordination table for more information

Ordering information, IEC and UL

OTDC S1.0-Series 100...250A



OTDC100...250 11

The OTDC S1.0-Series is specially designed for DC applications up to 1000V DC in the current range from 100A up to 250A. The switch has one of the smallest physical footprints and lowest power losses in the market. Handles and shafts are not included.

IEC Ordering information

	Rated operational current [A]	Number of		Number of	Single package	
Voltage [V DC]	DC-21B	Circuits	Circuit 1)	poles	Type ²⁾	Order code
Front operated	, mechanism between the poles					
1000	100	1	2a, 2b	2	OTDC100E11	1SCA125821R1001
1000	160	1	2a, 2b	2	OTDC160E11	1SCA123745R1001
1000	200	1	2a, 2b	2	OTDC200E11	1SCA125626R1001
1000	250	1	2a, 2b	2	OTDC250E11	1SCA125865R1001
1000	100	2	4a, 4c	4	OTDC100E22	1SCA125824R1001
1000	160	2	4a, 4c	4	OTDC160E22	1SCA125844R1001
1000	200	2	4a, 4c	4	OTDC200E22	1SCA125856R1001
1000	250	2	4a, 4c	4	OTDC250E22	1SCA125869R1001
1000	100	3	7a, 7e	6	OTDC100E33	1SCA149066R1001
1000	160	3	7a, 7e	6	OTDC160E33	1SCA149065R1001
1000	200	3	7a, 7e	6	OTDC200E33	1SCA149067R1001

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UL Ordering information

•	Rated operational current [A]		Number of		Number of	Single package			
Voltage [V DC]	UL98B	IEC60947-3	Circuits	Circuit 1)	poles	Type 2)	Order code		
Front operated, mechanism between the poles									
1000	100	100	1	2a, 2b	2	OTDC100U11	1SCA123957R1001		
1000	200	200	1	2a, 2b	2	OTDC200U11	1SCA123767R1001		
1000	100	100	2	4a, 4c	4	OTDC100U22	1SCA126180R1001		
1000	200	200	2	4a, 4c	4	OTDC200U22	1SCA126129R1001		
1000	100	100	3	7a, 7e	6	OTDC100U33	1SCA149069R1001		
1000	200	200	3	7a, 7e	6	OTDC200U33	1SCA149090R1001		

¹⁾ Please see floating circuit in page 36 and grounded circuits in pages 56-57. Single circuit 1a and Double circuit 3 with connection bar kit accessories.

²⁾ Phase barriers are included in types OTDC100...250_22/33 – installation mandatory..

You can find the accessories starting from page 47 and dimensional drawings starting from page 61.

OTDC S-SERIES

Ordering information, IEC and UL

OTDC S2.0-Series 100...250A



OTDC100...250_GV11

Robust DC switch-disconnector for up to 1500V DC applications covering 100-250A current range. The new design has a more compact size, higher efficiency and higher performance. The two-pole 1500V DC concept helps manufacturers improve system efficiency, reducing switch power losses up to 75%. The physical footprint is up to 70% smaller than other solutions in the market. The compact size of the new OTDC range makes it possible for manufacturers to reduce the size of enclosures. Handles, shafts or other hardware are not included.

IFC	Ordering	information

	Rated								
Voltage	operation Current	[A]	Number of	Circuit	Number of	Single package		Bulk package	
[V DC]	DC-21B	DC-PV2	Circuits	1)	poles	Type 2)	Order code	Type 3)	Order code
Front op	erated, n	nechanisı	m betwee	n the pol	es				
1500	100	100	1	2a, 2b	2	OTDC100GV11	1SCA161932R1001	OTDC100GV11/280	1SCA162002R1001
1500	160	100	1	2a, 2b	2	OTDC160GV11	1SCA161933R1001	OTDC160GV11/280	1SCA162004R1001
1500	200	100	1	2a, 2b	2	OTDC200GV11	1SCA161938R1001	OTDC200GV11/280	1SCA162005R1001
1500	250	100	1	2a, 2b	2	OTDC250GV11	1SCA161996R1001	OTDC250GV11/280	1SCA162007R1001
1500	100	100	2	4a, 4c	4	OTDC100GV22	1SCA161976R1001		
1500	160	100	2	4a, 4c	4	OTDC160GV22	1SCA161985R1001		
1500	200	100	2	4a, 4c	4	OTDC200GV22	1SCA161989R1001		
1500	250	100	2	4a, 4c	4	OTDC250GV22	1SCA161939R1001		
Side ope	erated, m	echanism	at the en	d of the	switch				,
1500	100	100	1	2a, 2b	2	OTDC100GV02S	1SCA161974R1001		'
1500	160	100	1	2a, 2b	2	OTDC160GV02S	1SCA161982R1001		
1500	200	100	1	2a, 2b	2	OTDC200GV02S	1SCA161986R1001		
1500	250	100	1	2a, 2b	2	OTDC250GV02S	1SCA161995R1001		

UL Orde	ering inf	ormation							
Voltage		t [A]	Number of	Circuit	Number of	Single package		Bulk package	
[V DC]	UL98B	IEC60947-3	Circuits	1)	poles	Type ²⁾	Order code	Type 3)	Order code
Front o	perated	, mechanism	betweer	the pole	:s				
1500	100	160	1	2a, 2b	2	OTDC100UGV11	1SCA161978R1001	OTDC100UGV11/280	1SCA162003R100
1500	200	250	1	2a, 2b	2	OTDC200UGV11	1SCA161991R1001	OTDC200UGV11/280	1SCA162006R100
1500	250	250	1	2a, 2b	2	OTDC250UGV11	1SCA161942R1001	OTDC250UGV11/280	1SCA162008R100
1500	100	160	2	4a, 4c	4	OTDC100UGV22	1SCA161981R1001		
1500	200	250	2	4a, 4c	4	OTDC200UGV22	1SCA161994R1001		
1500	250	250	2	4a, 4c	4	OTDC250UGV22	1SCA162001R1001		
Side op	erated,	mechanism a	at the en	d of the s	witch		,		
1500	100	160	1	2a, 2b	2	OTDC100UGV02S	1SCA161977R1001		
1500	200	250	1	2a, 2b	2	OTDC200UGV02S	1SCA161990R1001		
1500	250	250	1	2a. 2b	2	OTDC250UGV02S	1SCA161940R1001		

^{*} Please consult us for 1000V DC types.

¹⁾ Please see floating circuit in page 36 and grounded circuits in pages 56-57. Single circuit 1a and Double circuit 3 with connection bar kit accessories.

Phase barriers are included to pole configurations _22/_02 – Installation mandatory.

Bulk package includes 280pcs of switches in FIN-pallet (LxWxH) 1200mm x 1000mm x 1200mm. The bulk package contains only switches and one

You can find the accessories starting from page 47 and dimensional drawings starting from page 61.

OTDC S2.0-Series 100...250A for higher short-circuit currents



OTDC100...250_GV11-ESS

Robust DC switch-disconnector for up to 1500V DC applications covering 100-250A current range. These new switches have higher short-circuit ratings. Handles and shafts are not included.

IEC Ordering information

Voltage	Rated oper	ational current [A]	Number of		Number of	Single	package
[V DC]	DC-21B	DC-PV2	circuits	Circuit 1)	poles	Туре	Order code
Front opera	ated, mechanisn	n between the pole	s	'			,
1500	100	100	1	2a, 2b	2	OTDC100GV11-ESS	1SCA161975R1001
1500	160	100	1	2a, 2b	2	OTDC160GV11-ESS	1SCA161983R1001
1500	200	100	1	2a, 2b	2	OTDC200GV11-ESS	1SCA161987R1001
1500	250	100	1	2a, 2b	2	OTDC250GV11-ESS	1SCA161997R1001

UL Ordering information

	Rated operation	onal current [A]	Number of		Number of	Single package		
Voltage [V DC]	UL98B	IEC60947-3	circuits	Circuit 1)	poles	Туре	Order code	
Front operated	l, mechanism be	tween the poles	5					
1500	100	160	1	2a, 2b	2	OTDC100UGV11-ESS	1SCA161979R1001	
1500	200	250	1	2a, 2b	2	OTDC200UGV11-ESS	1SCA161992R1001	
1500	250	250	1	2a, 2b	2	OTDC250UGV11-ESS	1SCA161999R1001	

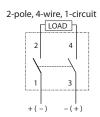
^{*} Please consult us for 1000V DC types.

¹⁾ Please see floating circuit in page 36 and grounded circuits from pages 56-57. Single circuit 1a and Double circuit 3 with connection bar kit accessories.

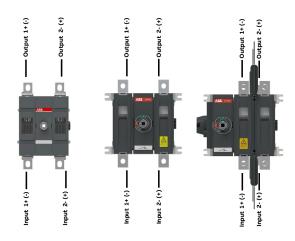
accessories. You can find the accessories starting from page 47 and dimensional drawings starting from page 61.

OTDC S1.0 and S2.0 circuits

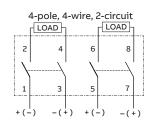
Single circuit 2a, 2b

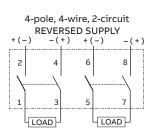






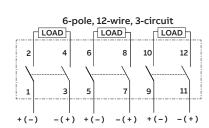
Double circuit 4a, 4c

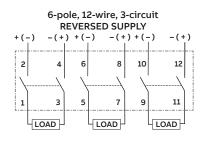






Triple circuit 7a, 7e







OTDC M-Series

- **05.1.** Overview of product range OTDC M
- **05.2.** Technical data
- **05.3.** Ordering information
- **05.4.** OTDC M-Series circuits

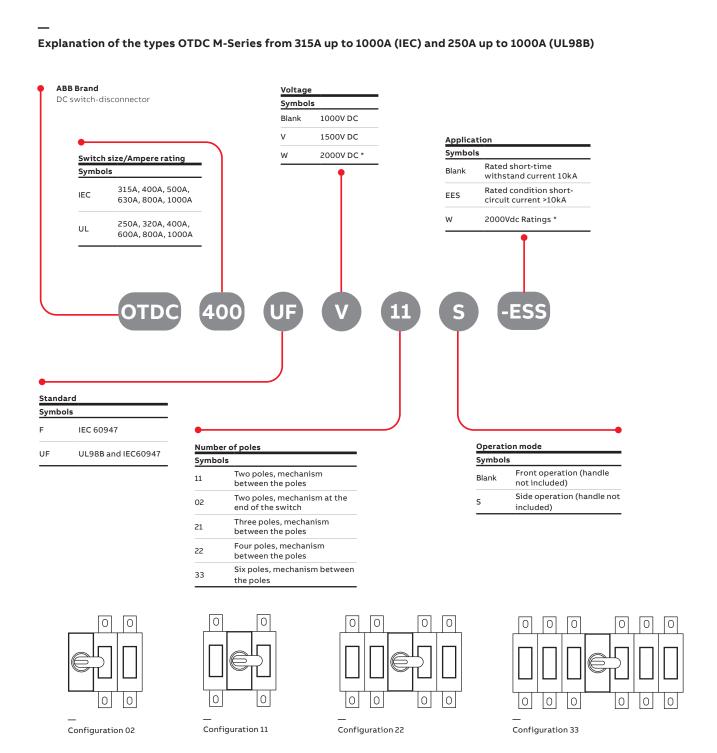




Overview of product range OTDC M-Series

Type codes and pole configuration table

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.



OTDC M-Series IEC

Technical data according to IEC 60947 for switch-disconnectors OTDC315F...1000F

Switch size						OTDC 315F_	OTDC 400F_	OTDC 500F_	OTDC 630F_	OTDC 800F_11	OTDC 800F_22	OTDC 1000F_22
Rated insulation voltage	U,	Pollutio	n degree 3		V	1500	1500	1500	1500	1500	1500	1500
Rated impulse withstan	d voltage				kV	12	12	12	12	12	12	12
Rated thermal current I,,	1)	In open	air, normal o	conditions 2)	Α	315	400	500	630	800	800	1000
u		In enclo	sure 40°C		Α	315	400	500	630	630	800	1000
		In enclo	sure 50°C		Α	315	400	475	567	630	800	1000
		In enclo	sure 60°C		Α	293	352	415	498	523	664	830
		In enclo	sure 80°C		Α	195	232	275	328	347	440	550
with cable or bar cross	section	Cu			mm²	185	240	2x150	2x185	2x240	2x241	4x150
Rated operational			1 circuit	2P (1P+, 1P-)	Α	315	400	500	630	800	800 3)	1000 ³⁾
current le,		1000V	2 circuits	4P (2P+, 2P-)	Α	315	400	500	630			
poles in series			3 circuits	6P (3P+, 3P-)	Α	315	400	500	630			
	DC-21B		1 circuit	2P (1P+, 1P-)	Α	315	400	500	630	800	800 3)	1000 ³⁾
		1500V	2 circuits	4P (2P+, 2P-)	Α	315	400	500	630			
			3 circuits	6P (3P+, 3P-)	Α	315	400	500	630			
		2000V	1 circuit 4)	3P (2P+, 1P-)	Α		400	500				
			1 circuit	2P (1P+, 1P-)	Α	315	400	500	500	500	800 3)	1000 ³⁾
		1000V	2 circuits	4P (2P+, 2P-)	Α	315	400	500	500			
	DC-PV1		1 circuit	2P (1P+, 1P-)	Α	315	400	500	500	500	800 3)	1000 ³⁾
		1500V	2 circuits	4P (2P+, 2P-)	Α	315	400	500	500			
		2000V	1 circuit 4)	3P (2P+, 1P-)	Α		400	400				
			1 circuit	2P (1P+, 1P-)	Α	315	400	500	500/630 ³⁾	500	800 3)	
		1000V	2 circuits	4P (2P+, 2P-)	Α	315	400	500	500			
	DC-PV2		1 circuit	2P (1P+, 1P-)	Α	315	400	500	500/630 ³⁾	500	800 3)	
		1500V	2 circuits	4P (2P+, 2P-)	Α	315	400	500	500			
			1 circuit	2P (1P+, 1P-)	Α	315	400	400	400	400		
		1000V	2 circuits	4P (2P+, 2P-)	Α	315	400	400	400			
	DC-22B	.=	1 circuit	2P (1P+, 1P-)	Α	315	400	400	400	400		
		1500V	2 circuits	4P (2P+, 2P-)	Α	315	400	400	400			
Rated short-time withst current, 1500V, 1s	and	R.M.S	value Icw		kA	10	10	10	10	10	10	10
Rated short circuit maki capacity, 1500V	ng	Peak va	lue Icm		kA	10	10	10	10	10	10	10
Power loss/pole		At rated	d current		W	7-8	12-13	18-20	30-32	48-52	22-24	37-40
Terminal bolt size		Metric t	hread diame	eter x length	mm	M10x30	M10x30	M12x40	M12x40	M12x40	M12x40	M12x40
Terminal tightening tord	que	Counte	r torque requ	uired	Nm	30-44	30-44	50-75	50-75	50-75	50-75	50-75
Mechanical Endurance		Cycles			-	10 000						
Operating altitude with	out derati	ng			m	≤2000						
Operating torque				2P		1119	1119	1119	1119	1119		
				4P	Nm	1830	1830	1830	1830		1830	1830
				6P		1835	1835	1835				

¹⁾ For more detailed derating please consult us. Installation condition may influence on the derating by increasing the possible rated current. The given deratings are references based on For more detailed deraying please consult us. Installation contains may himselves at 1975 and specific test setup.

Normal conditions defined in IEC 60947-1, section 6.1.

4-pole-types with 2-poles in parallel _22 models, OTDCKIT800FS11 is included to the package – installation mandatory.

IEC 60947 standard ratings only up to 1500Vdc, investigation report available for 2000Vdc.





OTDC800...1000F_22

OTDC315...800F_11

OTDC M-Series UL

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC250U_...1000UF_ Suitable for use in photovoltaic systems in accordance with article 690 of the NEC.

Switch size					OTDC250UF_	OTDC320UF_	OTDC400UF_	OTDC600UF_	OTDC800UF_22	OTDC1000UF_22
UL Listed	Standard	ł			UL98B	UL98B	UL98B	UL98B	UL98B	UL98B
Rated ambient tem	perature			°C	-20+50	-20+50	-20+50	-20+50	-20+50	-20+50
Rated current 1)	1000V	1 circuit	2P (1P+, 1P-)	Α	250	320	400	600	800 ²⁾	1000 ²⁾
		2 circuits	4P (2P+, 2P-)	Α	250	320	400	600	-	-
	1500V	1 circuit	2P (1P+, 1P-)	Α	250	320	400	600	800 ²⁾	1000 ²⁾
		2 circuits	4P (2P+, 2P-)	Α	250	320	400	600	-	-
	2000V 4)	1 circuit	3P (2P+, 1P-)	Α			400			
Short circuit rating	1500V			kA	10	10	10	10	10	10
Required protection 3)					Any	Any	Any	Any	Any	Any
Mechanical lug					OZXA 402	OZXA 402	OZXA 402	OZXA 604	OZXA 804	OZXA 804
Wire range					2x AWG 6-300MCM	2x AWG 6-300MCM	2x AWG 6-300MCM	4x AWG 6-300MCM	4x AWG 2-600MCM	4x AWG 2-600MCM
Tightening torque				lb- in.	275	275	275	275	500	500
Technical data according to IEC 60947	See IEC t	able for ty	pe		OTDC315F_	OTDC400F_	OTDC500F_	OTDC630F_	OTDC800F_22	OTDC1000F_22

³ Any suitable PV fuse or PV circuit breaker.

4 UL98B Standard ratings only up to 1500Vdc, investigation report available for 2000Vdc.



OTDC250...600UF_11



OTDC800...1000UF_22

OTDC M-Series for higher short-circuit currents IEC

Switch size						OTDC 315F ESS	OTDC 400F ESS	OTDC 500F ESS	OTDC 630F ESS	OTDC 800F_22- ESS	OTDC 1000F_22- ESS
Rated insulation volt	age II		Pollution degree	3	V	1500	1500	1500	1500	1500	1500
Rated impulse withs		10	1 ollution degree		kV	12	12	12	12	12	12
Rated thermal currer		, c	In open								
			air, normal conditions 2)		Α	315	400	500	630	800	1000
			In enclosure 40°0	C	Α	315	400	500	630	800	1000
			In enclosure 50°0		Α	315	400	475	567	800	1000
			In enclosure 60°0	2	Α	293	352	415	498	664	830
			In enclosure 80°0	<u> </u>	Α	195	232	275	328	440	550
with cable or bar c	ross sectio	n	Cu			185	240	2x150	2x185	2x240	4x150
. DC 31B		1000V	_		Α	315	400	500	630	800 3)	1000 3)
current l _e	DC-51B	1500V	_		Α	315	400	500	630	800³)	1000 3)
Poles in series DC-PV1		1000V			Α	315	400	500	500	8003)	1000 3)
	DC-PVI	1500V	1	00 (40 : 40)	Α	315	400	500	500	8003)	1000 ³⁾
DC DV		1000V	1 circuit	2P (1P+, 1P-)	Α	315	400	500	500/630 ³⁾	800³)	-
	DC-PV2	1500V	_		Α	315	400	500	500/6303)	8003)	-
		1000V	_		Α	315	400	400	400	-	-
	DC-22B	1500V	_		Α	315	400	400	400	-	-
Rated short-time withstand				1	kA	10	10	10	10	10	10
current I , 1500V			R.M.Svalue I	0,1	kA	20	20	20	20	63	63
Rated short circuit m	naking		Peak value, I _{cm}		kA	20	20	20	20	63	63
Rated conditional sh	ort-circuit		R.M.S value I		kA	50	50	50	50	50	50
current I _q , 1500V Required protection	4)		Max. fuse size		Α	315	400	500	630	800	1000
Rated conditional sh	ort-circuit	current	R.M.S value I _q , I	_/R = 5 ms	kA	70	70	70	70	-	-
I _q , 1500V ⁵⁾			Allowed let throu	ıgh peak	kA	29	29	29	29	-	-
			Allowed let throu	ıgh energy I²t	MA ² s	2,3	2,3	2,3	2,3	-	-
Rated conditional sh	ort-circuit	current	R.M.S value I _q , I	_/R = 0.5 ms	kA	100	100	100	100	100	100
I _q , 1500V ⁵⁾			Allowed let throu	ıgh peak	kA	53	53	53	53	70	70
			Allowed let throu	ıgh energy I²t	MA ² s	1,1	1,1	1,1	1,1	2,4	2,4
Power loss/pole			At maximum rate	ed current	W	7-8	12-13	18-20	30-32	22-24	37-40
Terminal bolt size			Metric thread dia mm	ameter x length		M10x30	M10x30	M12x40	M12x40	M12x40	M12x40
Terminal tightening torque			Counter torque r	equired	Nm	30-44	30-44	50-75	50-75	50-75	50-75
Mechanical Endurance			Cycles		-	10000					
Operating altitude w	ithout der	ating			m	≤ 2000					
Operating torque			2P			1119	1119	1119	1119		
			4P		Nm	1830	1830	1830	1830	1830	1830
			6P			1835	1835	1835			





OTDC315...630F_11-ESS OTDC800...1000F_22-ESS

Dased on specific test setup.

2 Normal conditions defined in IEC 60947-1, section 6.1.

3 4-pole-types with 2-poles in parallel _22 models, OTDCKIT800FS11 is included in the package and installation is mandatory.

4 Please consult us on the fuse coordination table for more information

5 Any fuse, which does not exceed stated values, can be used.

OTDC M-Series for higher short-circuit currents UL

 $Technical\ data\ in\ accordance\ to\ UL98B\ for\ photovoltaic\ disconnect\ switches\ OTDC250_...1000UF_-ESS$ Suitable for use in photovoltaic systems in accordance with article 690 of the NEC.

Suitable for use in priocovore						0700	0700	0700	
Switch size				OTDC	OTDC	OTDC	OTDC	OTDC	OTDC
Switch size				250UFESS	320UFESS	400UFESS	6000FESS	800UF_22-ESS	1000UF_22-ESS
UL listed	Standard			UL98B	UL98B	UL98B	UL98B	UL98B	UL98B
Rated ambient temperature without de-rating ¹⁾			°C	-20+50°C	-20+50°C	-20+50°C	-20+50°C	-20+50°C	-20+50°C
Rated current	1000V	20	Α	250	320	400	600	800 3)	1000 ³⁾
	1500V 1 circuit	2P	Α	250	320	400	600	8003)	1000 ³⁾
Short-circuit rating	1500V	R.M.Svalue	kA	10	10	10	10	40	40
Required protection				Any 4)	Any 4)				
Short-circuit rating	1500V		kA	50	50	50	50	50	50
Required protection 2)	Max. fuse size		Α	250	320	400	600	800	1000
Mechanical lug				OZXA 402	OZXA 402	OZXA 402	OZXA 402	OZXA 804	OZXA 804
Wire range	МСМ			2x AWG 6-300MCM	2x AWG 6-300MCM	2x AWG 6-300MCM	2x AWG 6-300MCM	4x AWG 2-600MCM	4x AWG 2-600MCM
Terminal tightening torque			lb-in.	275	275	275	275	500	500
Technical data according to IEC 60947	See IEC table fo	r type		OTDC 315FESS	OTDC 400FESS	OTDC 500FESS	OTDC 630FESS	OTDC 800F_22-ESS	OTDC 1000F_22-ESS

¹⁾ For more detailed derating please consult us. Installation condition may have an influence on the derating. The given deratings are references based on specific test setup.
²⁾ Please consult us on the fuse coordination table for more information.
³⁾ 4-pole-types with 2-poles in parallel _22 models, OTDCKIT800FS11 is included in the package and installation is mandatory.
⁴⁾ Any suitable PV fuse or PV circuit breaker.



OTDC250...400UF_11-ESS



OTDC800...1000UF_22-ESS

Ordering information, IEC

OTDC M-Series 315...1000A



OTDC315_800_F_11

Robust DC switch-disconnector for up to 1500V DC applications. The new design has a more compact size, higher efficiency and higher performance. The two-pole 1500V DC design that reduces switch power losses up to 50%. The physical footprint is up to 80% smaller than other solutions in the market. Handles and shafts are not included.

	Rated oper current [A]		Number			Single package	
Voltage [V DC]	DC-21B	DC-PV2	of circuits	Circuit 1)	Number of poles	Type ²⁾	Order code
ront operated	, mechanisr	n between the	poles				
.000	315	315	1	2a, 2b	2	OTDC315F11	1SCA158172R1001
.000	400	400	1	2a, 2b	2	OTDC400F11	1SCA158196R1001
.000	500	500	1	2a, 2b	2	OTDC500F11	1SCA158220R1001
1000	630	500	1	2a, 2b	2	OTDC630F11	1SCA158244R1001
1000	800	500	1	2a, 2b	2	OTDC800F11	1SCA158853R1001
1000	630	630	1	6c, 6g	4	OTDC630F22-PV2	1SCA161682R1001
1000	800	800	1	6c, 6g	4	OTDC800F22-PV2	1SCA161684R1001
1000	800	-	1	6c, 6g	4	OTDC800F22	1SCA160619R1001
1000	1000	-	1	6c, 6g	4	OTDC1000F22	1SCA161286R1001
.000	315	315	2	4a, 4c	4	OTDC315F22	1SCA158294R1001
1000	400	400	2	4a, 4c	4	OTDC400F22	1SCA158298R1001
1000	500	500	2	4a, 4c	4	OTDC500F22	1SCA158302R1001
1000	630	500	2	4a, 4c	4	OTDC630F22	1SCA158306R1001
1000	315	-	3	7a, 7e	6	OTDC315F33	1SCA158286R1001
1000	400	-	3	7a, 7e	6	OTDC400F33	1SCA158287R1001
1000	500	-	3	7a, 7e	6	OTDC500F33	1SCA158288R1001
500	315	315	1	2a, 2b	2	OTDC315FV11	1SCA158178R1001
.500	400	400	1	2a, 2b	2	OTDC400FV11	1SCA158202R1001
500	500	500	1	2a, 2b	2	OTDC500FV11	1SCA158226R1001
.500	630	500	1	2a, 2b	2	OTDC630FV11	1SCA158250R1001
1500	800	500	1	2a, 2b	2	OTDC800FV11	1SCA158856R1001
1500	630	630	1	6c, 6g	4	OTDC630FV22-PV2	1SCA161683R1001
1500	800	800	1	6c, 6g	4	OTDC800FV22-PV2	1SCA161685R1001
1500	800	-	1	6c, 6g	4	OTDC800FV22	1SCA161280R1001
1500	1000	-	1	6c, 6g	4	OTDC1000FV22	1SCA161288R1001
1500	315	315	2	4a, 4c	4	OTDC315FV22	1SCA158295R1001
1500	400	400	2	4a, 4c	4	OTDC400FV22	1SCA158299R1001
1500	500	500	2	4a, 4c	4	OTDC500FV22	1SCA158303R1001
1500	630	500	2	4a, 4c	4	OTDC630FV22	1SCA158307R1001
1500	315	-	3	7a, 7e	6	OTDC315FV33	1SCA158844R1001
1500	400	-	3	7a, 7e	6	OTDC400FV33	1SCA158847R1001
1500	500	-	3	7a, 7e	6	OTDC500FV33	1SCA158850R100
20003)	400	-	1	3WA	3	OTDC400FV21-WA	1SCA163138R1001
2000³)	500		1	3WA	3	OTDC500FV21-WA	1SCA163139R1001
ide operated	, mechanis	m at the end	of the switch				
.000	315	315	1	2a, 2b	2	OTDC315F02S	1SCA160644R100
.000	400	400	1	2a, 2b	2	OTDC400F02S	1SCA161230R1001
.000	500	500	1	2a, 2b	2	OTDC500F02S	1SCA161235R1001
.000	630	500	1	2a, 2b	2	OTDC630F02S	1SCA161266R1001
.500	315	315	1	2a, 2b	2	OTDC315FV02S	1SCA161226R1001
1500	400	400	1	2a, 2b	2	OTDC400FV02S	1SCA161232R1001
.500	500	500	1	2a, 2b	2	OTDC500FV02S	1SCA161237R1001
1500	630	500	1	2a, 2b	2	OTDC630FV02S	1SCA161268R1001

¹⁵ circuit 1a and Double circuit 3 with connection bar kit accessories.

²⁾ Phase barriers are included to pole configurations _22/_33/_02 - installation mandatory. You can find the accessories starting from page 47 and dimensional drawings starting from page 61.

³⁾ IEC 60947 standard ratings only up to 1500Vdc, investigation report available for 2000Vdc.

OTDC M-SERIES

Ordering information, UL

OTDC M-Series 250...1000A



OTDC 250...600UF_11

Robust DC switch-disconnector for up to 1500V DC applications. The new design has a more compact size, higher efficiency and performance. The two-pole 1500V DC design that reduces switch power losses up to 50%. The physical footprint is up to 80% smaller than other solutions in the market. Handles and shafts are not included.

	Rated opera current [A]	ational	Number of		Number of	Single package	
Voltage [V DC]	UL98B	IEC60947-3	circuits	Circuit 1)	poles	Type 2)	Order code
Front operated	d, mechanism	n between the p	ooles				
1000	250	315	1	2a, 2b	2	OTDC250UF11	1SCA158160R1001
1000	320	400	1	2a, 2b	2	OTDC320UF11	1SCA158184R1001
1000	400	500	1	2a, 2b	2	OTDC400UF11	1SCA158209R1001
1000	600	630	1	2a, 2b	2	OTDC600UF11	1SCA158233R1001
1000	800	800	1	6c, 6g	4	OTDC800UF22	1SCA161282R1001
1000	1000	1000	1	6c, 6g	4	OTDC1000UF22	1SCA161290R1001
1000	250	315	2	4a, 4c	4	OTDC250UF22	1SCA158292R1001
1000	320	400	2	4a, 4c	4	OTDC320UF22	1SCA158296R1001
1000	400	500	2	4a, 4c	4	OTDC400UF22	1SCA158300R1001
1000	600	630	2	4a, 4c	4	OTDC600UF22	1SCA158304R1001
1500	250	315	1	2a, 2b	2	OTDC250UFV11	1SCA158166R1001
1500	320	400	1	2a, 2b	2	OTDC320UFV11	1SCA158190R1001
1500	400	500	1	2a, 2b	2	OTDC400UFV11	1SCA158215R1001
1500	400 4)	-	1	2WA	2	OTDC400UFV11-WA	1SCA162650R1001
1500	600	630	1	2a, 2b	2	OTDC600UFV11	1SCA158239R1001
1500	800	800	1	6c, 6g	4	OTDC800UFV22	1SCA161284R1001
1500	1000	1000	1	6c, 6g	4	OTDC1000UFV22	1SCA161292R1001
1500	250	315	2	4a, 4c	4	OTDC250UFV22	1SCA158293R1001
1500	320	400	2	4a, 4c	4	OTDC320UFV22	1SCA158297R1001
1500	400	500	2	4a, 4c	4	OTDC400UFV22	1SCA158301R1001
1500	600	630	2	4a, 4c	4	OTDC600UFV22	1SCA158305R1001
2000 3)	400	500	1	3WA	3	OTDC400UFV21-WA	1SCA162651R1001
Side operated,	mechanism	at the end of th	ne switch	,			
1000	250	315	1	2a, 2b	2	OTDC250UF02S	1SCA161224R1001
1000	320	400	1	2a, 2b	2	OTDC320UF02S	1SCA161228R1001
1000	400	500	1	2a, 2b	2	OTDC400UF02S	1SCA161234R1001
1000	600	630	1	2a, 2b	2	OTDC600UF02S	1SCA161258R1001
1500	250	315	1	2a, 2b	2	OTDC250UFV02S	1SCA161243R1001
1500	320	400	1	2a, 2b	2	OTDC320UFV02S	1SCA161249R1001
1500	400	500	1	2a, 2b	2	OTDC400UFV02S	1SCA161256R1001
1500	600	630	1	2a, 2b	2	OTDC600UFV02S	1SCA161264R1001

 $^{1) \} Circuit \ connection \ 6c, 6g-connection \ bar \ kit \ OTDCKIT800FS11 \ included \ with \ the \ package-installation \ mandatory. \ Circuit \ connection \ 3WA-included \ with \ the \ package-installation \ mandatory. \ Circuit \ connection \ 3WA-included \ with \ the \ package-installation \ mandatory.$ $connection\ bar\ kit\ OTDCKIT400UFV\ included\ with\ the\ package-installation\ mandatory.\ Please\ see\ floating\ circuit\ in\ page\ 46\ and\ the\ grounded\ package-installation\ mandatory.$ circuits in pages 56-57. Single circuit 1a and Double circuit 3 with connection bar kit accessories.

²⁾ Phase barriers are included to pole configurations, 22½/02 - installation mandatory.

You can find the accessories starting from page 47 and dimensional drawings starting from page 61.

³⁾ UL98B and IEC 60947 standard ratings only up to 1500Vdc, investigation report available for 2000Vdc.

⁴⁾ Certified according to CSA C22.2 No. 304:14.

OTDC M-Series 250...1000A for higher short-circuit current



OTDC315_630_F_11-ESS

Robust DC switch-disconnector for up to 1500V DC applications covering 315-1000A (IEC) and 250-1000A (UL) current range. The new design offers higher short-circuit ratings for the OTDC switches up to 100kA. Handles and shafts are not included.

IEC Ordering information

	Rated oper current [A]		Number		Number of	Single package	
Voltage [V DC]	DC-21B	DC-PV2	of circuits	Circuit 1)	poles	Туре	Order code
Front operated	l, mechanisr	n between th	e poles				
1000	315	315	1	2a, 2b	2	OTDC315F11-ESS	1SCA158173R1001
1000	400	400	1	2a, 2b	2	OTDC400F11-ESS	1SCA158197R1001
1000	500	500	1	2a, 2b	2	OTDC500F11-ESS	1SCA158221R1001
1000	630	500	1	2a, 2b	2	OTDC630F11-ESS	1SCA158245R1001
1000	800	-	1	6c, 6g	4	OTDC800F22-ESS	1SCA161279R1001
1000	1000	-	1	6c, 6g	4	OTDC1000F22-ESS	1SCA161287R1001
1500	315	315	1	2a, 2b	2	OTDC315FV11-ESS	1SCA158179R1001
1500	400	400	1	2a, 2b	2	OTDC400FV11-ESS	1SCA158203R1001
1500	500	500	1	2a, 2b	2	OTDC500FV11-ESS	1SCA158227R1001
1500	630	500	1	2a, 2b	2	OTDC630FV11-ESS	1SCA158251R1001
1500	800	-	1	6c, 6g	4	OTDC800FV22-ESS	1SCA161281R1001
1500	1000	-	1	6c, 6g	4	OTDC1000FV22-ESS	1SCA161289R1001

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UL Ordering information

	Rated operational current [A]				Single package		
Voltage [V DC]	UL98B	IEC60947-3	Number of circuits	Circuit 1)	Number of poles	Туре	Order code
Front operat	ed, mechani	ism between the	poles				
1000	250	315	1	2a, 2b	2	OTDC250UF11-ESS	1SCA158161R1001
1000	320	400	1	2a, 2b	2	OTDC320UF11-ESS	1SCA158185R1001
1000	400	500	1	2a, 2b	2	OTDC400UF11-ESS	1SCA158210R1001
1000	600	630	1	2a, 2b	2	OTDC600UF11-ESS	1SCA158234R1001
1000	800	800	1	6c, 6g	4	OTDC800UF22-ESS	1SCA161283R1001
1000	1000	1000	1	6c, 6g	4	OTDC1000UF22-ESS	1SCA161291R1001
1500	250	315	1	2a, 2b	2	OTDC250UFV11-ESS	1SCA158167R1001
1500	320	400	1	2a, 2b	2	OTDC320UFV11-ESS	1SCA158191R1001
1500	400	500	1	2a, 2b	2	OTDC400UFV11-ESS	1SCA158216R1001
1500	600	630	1	2a, 2b	2	OTDC600UFV11-ESS	1SCA158240R1001
L500	800	800	1	6c, 6g	4	OTDC800UFV22-ESS	1SCA161285R1001
1500	1000	1000	1	6c, 6g	4	OTDC1000UFV22-ESS	1SCA161293R1001

¹⁾ Circuit connection 6c, 6g – connection bar kit OTDCKIT800FS11 included with the package – installation mandatory.

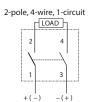
Please see floating circuit in page 46 and the grounded circuits in pages 56-57. Single circuit 1a and Double circuit 3 with connection bar kit

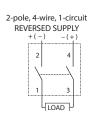
Please see floating circuit in page 46 and the grounded circuits in pages 56-57. Single circuit 1a and Double circuit 3 with connection bar kit accessories.

You can find the accessories starting from page 47 and dimensional drawings starting from page 61.

OTDC M Circuits IEC and UL

Single circuit 2a, 2b

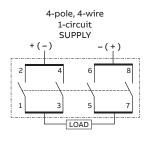


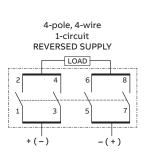


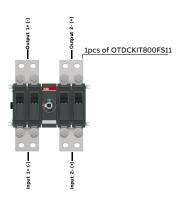




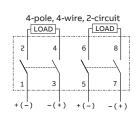
Single circuit 6c, 6g

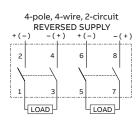






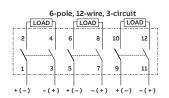
Double circuit 4a, 4c

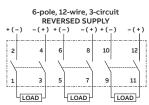






Triple circuit 7a, 7e

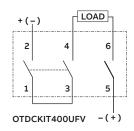


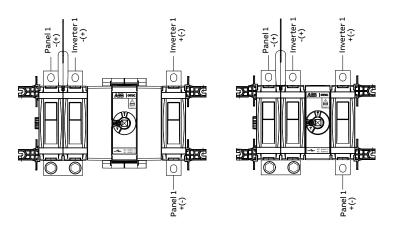




OTDC M Circuits IEC and UL

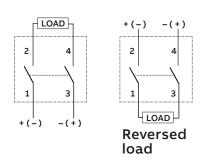
Single circuit 3W, 3WA 3-pole, 4-wire, 1-circuit

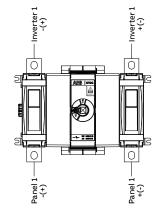


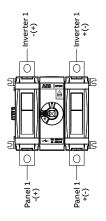


Single circuit

Single circuit 2W, 2WA 2-pole, 4-wire, 1-circuit







06

2a, 2b

OT(M)_-135 -Series

- **06.1.** Overview of product range OT(M)_-135
- **06.2.** Technical data
- **06.3.** Ordering information
- **06.4.** OT(M)_-135 -Series circuits



Disconnector ratings, IEC

OT(M)1600 -135

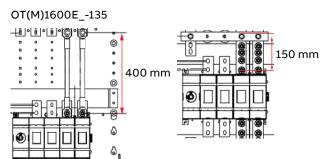
	Disconnector types		OT1600E02-135 OTM1600E2M230V-135	OT1600E04-135, OT1600E22-135 OTM1600E4M230V-135	OT1600E04-135	OT1600E22-135
	Number of poles		2	4	4	4
	Number of circuits		1	2	1	1
	Connection type		1	2	3	3
	DC-20B rating, 1500 V	Α	1600	1600	2500	2500
	AC-20B rating, 1000 V	Α	1600	1600	2500	2500
Rated short-time	Support distance 150 mm (with busbars)	kA	50	50	65	65
withstand current, lcw 0.3 s	Support distance 400 mm (with cables)	kA	36	36	50	50
Max. Let-through Peak Current when	Support distance 150 mm (with busbars)	kA	110	110 (*120)	140	176
protected with Fuses or Circuit Breaker	Support distance 400 mm (with cables)	kA	76	76	105	105
Max. Let-through Energy when protected with Fuses or Circuit Breaker	Support distance 150 mm (with busbars)	MA ² s	88	88 (*154)	210	339
	Support distance 400 mm (with cables)	MA ² s	43	43	115	115

^{*)} Busbars supported on both sides of the switch contact terminals

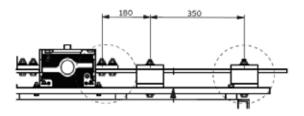
OT(M)2500_-135

	Disconnector types		OT2500E02-135 OTM2500E2M230V-135	OT2500E04-135, OT2500E22-135 OTM2500E4M230V-135	OT2500E04-135, OT2500E22-135 OTM2500E4M230V-135
	Number of poles		2	4	4
	Number of circuits		1	2	1
	Connection type		1	2	3
	DC-20B rating, 1500 V	Α	2500	2500	4000
	AC-20B rating, 1000 V	Α	2500	2500	4000
Rated short-time withstand current, Icw 0.3 s	Support distance 180 mm (with busbars)	kA	80	80	100
Max. Let-through Peak Current when protected with Fuses or Circuit Breaker	Support distance 180 mm (with busbars)	kA	176	176	220
Max. Let-through Energy when protected with Fuses or Circuit Breaker	Support distance 180 mm (with busbars)	MA ² s	363	363	616

Busbar support distances



OT(M)2500E_-135

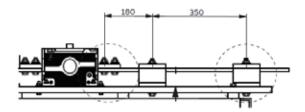


53

OT(M)3200_-135

	Disconnector types		OT3200E02-135 OTM3200E2M230V-135	OT3200E04-135, OT3200E22-135 OTM3200E4M230V-135	OT3200E04-135, OT3200E22-135 OTM3200E4M230V-135
	Number of poles		2	4	4
	Number of circuits		1	2	1
	Connection type		1	2	3
	DC-20B rating, 1500 V	Α	3200	3200	6000
Rated short-time withstand current, lcw 0.3 s	Support distance 180 mm (with busbars)	kA	80	80	100
Max. Let-through Peak Current when protected with Fuses or Circuit Breaker	Support distance 180 mm (with busbars)	kA	176	176	220
Max. Let-through Energy when protected with Fuses or Circuit Breaker	Support distance 180 mm (with busbars)	MA ² S	363	363	616

OT(M)3200E_-135



Ordering information, IEC

OT(M) -135 -Series 1600...4000A



OT1600E02-135

ABB offers manual and motor operated disconnectors suitable for diverse DC-20 applications such as energy storage systems (ESS), large disconnectors for inverters onboard marine vehicles and in photovoltaic installations.

Voltage [V DC]	Rated operational current [A]	Number of circuits	Connection type 1)	Number of poles	Single package Type	Order code
Manual ope	erated without l	nandle and sh	aft			1
1500	1600	1	1	2	OT1600E02-135	1SCA159244R1001
1500	1600	2	2	4	OT1600E04-135	1SCA159250R1001
1500	2500	1	3	4	OT1600E04-135	1SCA159250R1001
1500	1600	2	2	4	OT1600E22-135	1SCA159247R1001
1500	2500	1	3	4	OT1600E22-135	1SCA159247R1001
1500	2500	1	1	2	OT2500E02-135	1SCA160392R1001
1500	2500	2	2	4	OT2500E04-135	1SCA160395R1001
1500	4000	1	3	4	OT2500E04-135	1SCA160395R1001
1500	2500	2	2	4	OT2500E22-135	1SCA160398R1001
1500	4000	1	3	4	OT2500E22-135	1SCA160398R1001
1500	3200	1	1	2	OT3200E02-135	1SCA163289R1001
1500	3200	2	2	4	OT3200E04-135	1SCA163290R1001
1500	6000	1	3	4	OT3200E04-135	1SCA163290R1001
1500	3200	2	2	4	OT3200E22-135	1SCA163291R1001
1500	6000	1	3	4	OT3200E22-135	1SCA163291R1001
Manual ope	erated with dire	ct mounted	handle			
1500	1600	1	1	2	OT1600E02K-135	1SCA159245R1001
1500	1600	2	2	4	OT1600E04K-135	1SCA159251R1001
1500	2500	1	3	4	OT1600E04K-135	1SCA159251R1001
1500	1600	2	2	4	OT1600E22K-135	1SCA159248R1001
1500	2500	1	3	4	OT1600E22K-135	1SCA159248R1001
1500	2500	1	1	2	OT2500E02K-135	1SCA160393R1001
1500	2500	2	2	4	OT2500E04K-135	1SCA160396R1001
1500	4000	1	3	4	OT2500E04K-135	1SCA160396R1001
1500	2500	2	2	4	OT2500E22K-135	1SCA160399R1001
1500	4000	1	3	4	OT2500E22K-135	1SCA160399R1001
Manual ope	erated with pist	ol handle	*		`	
1500	1600	1	1	2	OT1600E02P-135	1SCA159246R1001
1500	1600	2	2	4	OT1600E04P-135	1SCA159252R1001
1500	2500	1	3	4	OT1600E04P-135	1SCA159252R1001
1500	1600	2	2	4	OT1600E22P-135	1SCA159249R1001
1500	2500	1	3	4	OT1600E22P-135	1SCA159249R1001
1500	2500	1	1	2	OT2500E02P-135	1SCA160394R1001
1500	2500	2	2	4	OT2500E04P-135	1SCA160397R1001
1500	4000	1	3	4	OT2500E04P-135	1SCA160397R1001
1500	2500	2	2	4	OT2500E22P-135	1SCA160400R1001
1500	4000	1	3	4	OT2500E22P-135	1SCA160400R1001
Motor ope	rated, mechanis	m at the end	of the switch	<u> </u>		
1500	1600	1	1	2	OTM1600E2M230V-135	1SCA162142R1001
1500	1600	2	2	4	OTM1600E4M230V-135	1SCA162702R1001
1500	2500	1	1	2	OTM2500E2M230V-135	1SCA162703R1001
1500	2500	2	2	4	OTM2500E4M230V-135	1SCA162704R1001
1500	4000	1	3	4	OTM2500E4M230V-135	1SCA162704R1001
1500	3200	1	1	2	OTM3200E2M230V-135 (2)	1SCA163296R1001
1500	3200	2	2	4	OTM3200E4M230V-135	1SCA163294R1001
1500	6000	3	3	4	OTM3200E4M230V-135	1SCA163294R1001

¹⁾ Connection type 3 – connection bar kit OTKIT2500B11 & OTKIT3200B11 available as separate accessory – installation mandatory. Please see connection types in page 54.

You can find the dimensional drawings starting from page 87.

²⁾ Coming available for sales soon

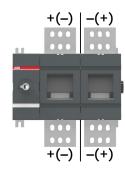
Ordering information, IEC

OT(M)_-135 Circuits

Single Circuit

Connection type 1

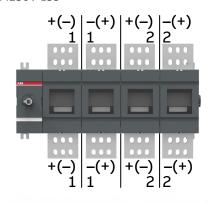
OT1600...3200E02-135 OTM1600...3200E2M230V-135

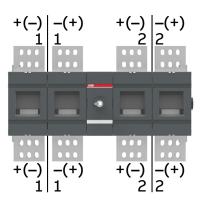


Double Circuit

Connection type 2

OT1600...3200E04-135 OT1600...3200E22-135 OTM1600...3200E4M230V-135

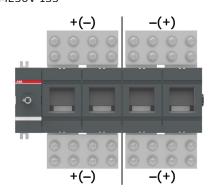


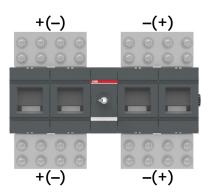


Single Circuit

Connection type 3

OT1600...3200E04-135 OT1600...3200E22-135 OTM1600...3200E4M230V-135





Accessories

07.1.	DC switch-disconnectors accessory	auide for XS-Series

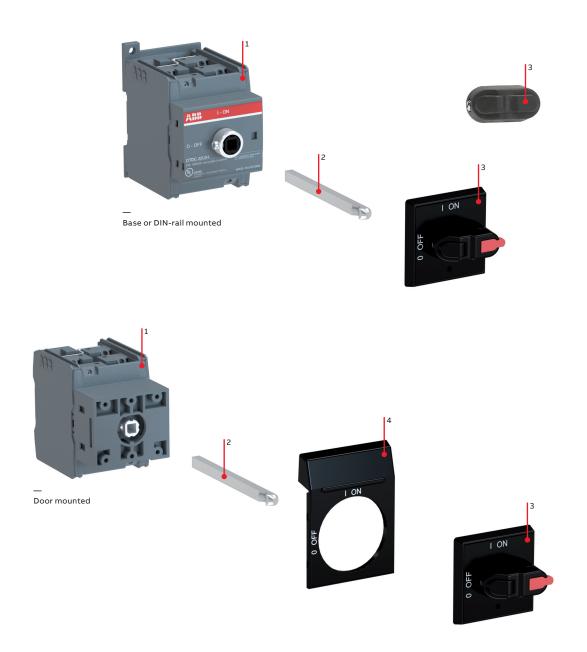
- **07.2.** DC switch-disconnectors accessory guide for S- and M-Series
- **07.3.** Ordering information, accessories

DC switch-disconnectors accessory guide

XS-Series

- 1. Switch-disconnector
- 2. Shaft
- 3. Selector handle or knob handle
- 4. Legend plate

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



DC switch-disconnectors accessory guide

S- and M-Series

- 1. Switch-disconnector
- 2. Shaf
- 3. Pistol handle
- 4. Direct mount handle
- 5. Phase barrier
- 6. Connection bar
- 7. Shroud
- 8. Auxiliary contact
- 9. Mechanical lug
- 10. Mechanical & Electrical interlock

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



9

Ordering information for accessories IEC and UL

Handle knobs



OHBS1



OHRS2



OHRS3

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 5mm, see the table below. OTDC16...32F_ types already include knob handles in the delivery. For OTDC16...32U_ types, knob handles need to be ordered separately.

Color	Handle length [mm]	Туре	Order code					
Suitable for swi	Suitable for switches OTDC1632_							
Black	31	OHBS1	1SCA109087R1001					
Black	31	OHBS1/1	1SCA109088R1001					
Red	31	OHRS1	1SCA109095R1001					
Red	31	OHRS1/1	1SCA109096R1001					
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					

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$\underline{\textbf{Special information for handle knobs}}$

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

[&]quot;) In I-position, the handle shall remain within the cut-out height.

Selector handles and shafts



ОНВЅЗРН



OHBS2PJ



OHYS3RH





OHBS3





Selector handles, for door mounted OTDC16...32_T Indication I-O and ON-OFF. No separate shaft needed.

Color	Padlocking	Degree of protection	Туре	Order code
Snap-on mou	nting, door drilling 22.5mm, for	OTDC1632_T		
Black	No padlocking	IP54, NEMA 1	OHBS1PH	1SCA105211R1001
Red-Yellow	No padlocking	IP54, NEMA 1	OHYS1PH	1SCA105294R1001
Black	Yes with 1 padlock	IP54, NEMA 1	ОНВS3PH	1SCA105236R1001
Red-Yellow	Yes with 1 padlock	IP54, NEMA 1	OHYS3PH	1SCA105327R1001
Black	Yes with max.3 padlocks	IP65, NEMA 1, 3R, 12	OHBS2PJ	1SCA105231R1001
Red-Yellow	Yes with max.3 padlocks	IP65, NEMA 1, 3R, 12	OHYS2PJ	1SCA105322R1001
Screw mount	ing, hole distance 36mm, for O	TDC1632_T		
Black	No padlocking	IP54, NEMA 1	OHBS1RH	1SCA105212R1001
Red-Yellow	No padlocking	IP54, NEMA 1	OHYS1RH	1SCA105295R1001
Black	Yes with 1 padlock	IP54, NEMA 1	OHBS3RH	1SCA105237R1001
Red-Yellow	Yes with 1 padlock	IP54, NEMA 1	OHYS3RH	1SCA105328R1001
Black	Yes with max.3 padlocks	IP65 *), NEMA 1, 3R, 12	OHBS2RJ	1SCA105232R1001
Red-Yellow	Yes with max.3 padlocks	IP65 *), NEMA 1, 3R, 12	OHYS2RJ	1SCA105323R1001

^{*)} hole distance 36/48mm.

Selector handles for base and DIN-rail mounted OTDC16...32_

Indication I-O and ON-OFF, for shaft diameter 6mm, door drilling 22.5mm. Shafts are not included

Color	Padlocking and door interlock	Degree of Protection	Туре	Order code
Black	No padlocking	IP54, NEMA 1	OHBS1AH	1SCA102680R1001
Black	No padlocking, door interlocking in ON-position	IP54, NEMA 1	OHBS1AH1	1SCA105210R1001
Black	With 1 padlock (bail diameter 56.3 mm)	IP54, NEMA 1	OHBS3AH	1SCA105234R1001
Black	With 1 padlock (bail diameter 56.3 mm), door interlocking in ON-position	IP54, NEMA 1	OHBS3AH1	1SCA105235R1001
Black	With max.3 padlocks (bail diameter 58mm), door interlocking in ON-position, defetable	IP65, NEMA 1, 3R, 12	OHBS2AJ	1SCA105213R1001
Black	With max.3 padlocks (bail diameter 58mm), door interlocking in ON-position	IP65, NEMA 1, 3R, 12	OHBS2AJ1	1SCA105215R1001
Selecto	r handle with metal hasp			
Black	With max.3 padlocks (bail diameter 58mm), door interlocking in ON-position, defetable	IP65, NEMA 1, 3R, 12	OHBS2AJEH	1SCA108230R1001
Black	With max.3 padlocks (bail diameter 58mm), door interlocking in ON-position, non-defetable	IP65, NEMA 1, 3R, 12	OHBS2AJ1EH	1SCA105217R1001

Door interlocking in ON-position prevents the door from opening when the handle is in ON-position. This can be defeated. in IP65 types to allow authorized personnel access for inspection. The padlocked handle is not defeatable.

Shafts for selector handles

Shaft lengt	h		
[mm]	 Н [mm]	Type	Order code
Suitable fo	r switches OTDC1632_ shaft diameter 6 mm		
85		OXS6X85	1SCA101647R1001
105		OXS6X105	1SCA108043R1001
120		OXS6X120	1SCA101654R1001
130	See dimension drawings	OXS6X130	1SCA101655R1001
160		OXS6X160	1SCA101656R1001
180		OXS6X180	1SCA101659R1001
250		OXS6X250	1SCA101660R1001

Handles



OTDV200GK



OTDV400FK1



ОНВ

Direct Mount Handles for front operated OTDC Switch-disconnectors

Indication Test-OFF-ON/Test-O-I. Padlockable with three padlocks in OFF-position. Includes shaft and mechanism cover.

	Handle length			
Color	[mm]	Suitable for switches	Type	Order code
Black	65	OTDC S1.0 - OTDC100250E_,	OTDV250EK	1SCA127390R1001
Red-Yellow	65	OTDC100200U_	OTDVY250EK	1SCA127391R1001
Black	65	OTDC \$2.0 - OTDC100250G_, OTDC100250UG_	OTDV200GK	1SCA161864R1001
Black	95	OTDC M - OTDC3151000F_,	OTDV400FK1	1SCA157315R1001
Black	145	OTDC2501000UF_ *)	OTDV400FK2	1SCA157316R1001

^{*)} Recommend length: 95mm for 2-pole configuration, 145mm for 4- and 6-pole configurations.

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.

	Handle length	Shaft			
Color	[mm]	diameter	Suitable for switches	Туре	Order code
Indication in	n types OHI	B and OHY: I-0,	ON-OFF, in types OHG: I-0		
Black	65	6	OTDC S1.0 - OTDC100250E_,	OHB65J6	1SCA022380R9660
Red-Yellow	65	6	OTDC100245U_	OHY65J6	1SCA022380R9820
Grey	65	6	OTDC S2.0 - OTDC100250G_, OTDC100250UG_	OHG65J6	1SCA022380R9740
Black	95	12	OTDC M2.0 - OTDC3151000F_,	OHB95J12	1SCA022381R0830
Red-Yellow	95	12	OTDC2501000UF_	OHY95J12	1SCA022381R1050
Grey	95	12		OHG95J12	1SCA022381R0910
Black	125	12		OHB125J12	1SCA022381R1560
Yellow-red	125	12		OHY125J12	1SCA022381R1720
Grey	125	12		OHG125J12	1SCA022381R1640
Black	145	12		OHB145J12	1SCA022381R2110
Yellow-red	145	12		OHY145J12	1SCA022381R2370
Grey	145	12		OHG145J12	1SCA022381R2290
Black	274	12	OT16003200E135	OHB274J12	1SCA115920R1001
Indication: 1	Test-OFF-O	N/Test-0-I			
Black	65	6	OTDC S1.0 - OTDC100250E_, OTDC100245U_ OTDC S2.0 - OTDC100250G_, OTDC100250UG	OHB65J6T	1SCA022399R8110
Black	95	12	OTDC M2.0 - OTDC3151000F ,	OHB95J12T	1SCA022736R1750
Black	125	12	OTDC M2.0 - OTDC3151000F_, OTDC2501000UF_	OHB125J12T	1SCA022652R2220

Door interlocking in ON-position prevents the door from opening 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.

Stainless steel pistol handles OHM_ for front operation: IP 66, NEMA 4X $\,$

IP66 (NEMA 4X). Material: AISI 316. Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position.

	Handle length			,	
Color	[mm]	Shaft diameter	Suitable for switches	Туре	Order code
Indicatio	n in types:	I-0, ON-OFF			'
Grey	65	6	OTDC S1.0 - OTDC100250E_, OT- DC100245U_ OTDC S2.0 - OTDC100250G_, OT- DC100250UG_	OHM65L6	1SCA022739R1070
Grey	125	12	OTDC M2.0 - OTDC3151000F_, OT- DC2501000UF_	OHM125L12	1SCA022739R1150

Handles and shafts



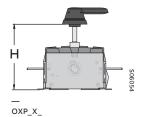
ОНВ_

Pistol handles OH_handles for side operation: IP 65, NEMA 1,3R, 12For mounting on the side of the enclosure. Padlockable with three padlocks in OFF-position, door interlock in ONposition. The position indications are rotated 90°.

	Handle length					
Color	[mm]	Shaft diameter	Suitable for switches	Type	Order code	
Indication i	n types	OHB and OHY: I-0/	ON-OFF		,	
Black	65	6	OTDC \$2.0 - OTDC100250G_, OT- DC100250UG_	OHB65J6E00S	1SCA022382R9850	
Red-yellow	65	6	_	OHY65J6E00S	1SCA022382R9930	
Black	145	12	OTDC M2.0 - OTDC315630F_, OT- DC250600UF_	OHB145J12E00S	1SCA022679R9700	
Indication i	n type O	HB : Test/I-O/ON-	OFF			
Black	65	6	OTDC S2.0 - OTDC100250G_, OTDC100250UG_	OHB65J6TE00S 1SCA109016R1001		



OXP6X



Shafts for pistol handles

Shaft length [mm]	Mounting depth H [mm]		Type	Order code
	OTDC S1.0	OTDC S2.0		
Suitable for switches	OTDC S1.0 and OTDC	S2.0, shaft diameter 6 mm		
130	109174	120188	OXP6X130	1SCA022057R0570
150	129194	140208	OXP6X150	1SCA022295R5600
161	140205	151219	OXP6X161	1SCA022067R1760
210	189254	200268	OXP6X210	1SCA022295R6080
Suitable for switches	OTDC M - OTDC3151	.000F_, OTDC2501000UF	_, shaft diameter 12 mr	n
166	146226		OXP12X166	1SCA022325R7100
185	165255		OXP12X185	1SCA022325R6710
250	230310		OXP12X250	1SCA022325R6980
280	260340		OXP12X280	1SCA022137R5140
325	305385		OXP12X325	1SCA022042R5810
395	445525		OXP12X395	1SCA022042R5990
465	439519		OXP12X465	1SCA022042R6020
535	515595		OXP12X535	1SCA022042R6110
Suitable for disconne	ctors OT16003200E_	-135, shaft diameter 12 mm		
250	230310		OXP12X250	1SCA022325R6980
280	260340		OXP12X280	1SCA022137R5140
325	305385		OXP12X325	1SCA022042R5810
395	445525		OXP12X395	1SCA022042R5990
465	439519		OXP12X465	1SCA022042R6020
535	515595		OXP12X535	1SCA022042R6110

Longer shafts available on request.
Recommend shafts: 210mm shaft for OTDC S1.0 and S2.0-Series, 185mm shaft for OTDC M-Series.

Phase barriers and terminal shroud kits



OTDCB250/2



OTDCB200G/2



OTDCB400F/2



OTS250G1L



OTS250T1L



OTDCS200GG1



OTDCS400FG1

Phase barrier kit

Plastic phase separators for maintaining 1" clearance between the phases without terminal shrouds. Snap-on mounting. Phase barriers included as standard in OTDC switches with pole configuration 02/20/22/33, installation is mandatory.

Color	Suitable for switches	Туре	Order code	Pieces/ Package
	OTDC S1.0 - OTDC100250E_,			
White	OTDC100200U_	OTDCB250/2	1SCA148901R1001	2
	OTDC S2.0 - OTDC100250G_,			
Grey	OTDC100200UG_	OTDCB200G/2	1SCA161883R1001	2
	OTDC M - OTDC3151000F_,			
Grey	OTDC2501000UF_	OTDCB400F/2	1SCA157314R1001	2
Grey	OT(M)16002500E135	OTB1600/6	1SCA102667R1001	6

Terminal shroud kit

Plastic terminal shrouds. The terminal shroud kits for OTDC S2.0 and OTDC M-Series can be used with UL mechanical lugs.

Color	Suitable for switches		Туре	Order code	Pieces/ Package
Grey			OTS250G1L	1SCA022715R5340	1
Transparent	OTDC \$1.0 - OTDC100250E_, OTDC100245U_		OTS250G1L	1SCA022726R0640	1
Grey	OTDC \$2.0 - OTDC100250G_, OTDC100250UG_		OTDCS200GG1	1SCA161884R1001	1
Grey	OTDC M - OTDC315800F_,		OTDCS400FG1	1SCA157308R1001	1
Transparent	OTDC250600UF_		OTDCS400FT1	1SCA157309R1001	1
		Short	OTS1600G1S	1SCA102667R1001	1
		Long	OTS1600G1L	1SCA106134R1001	1
		Short	OTS1600G1S/4	1SCA022871R9860	4
Grey	OT(M)1600E135	Long	OTS1600G1L/4	1SCA022871R9780	4
		Short	OTS2500G1S	1SCA108810R1001	1
		Long	OTS2500G1L	1SCA108816R1001	1
		Short	OTS2500G1S/4	1SCA107271R1001	4
Grey	OT(M)2500E135	Long	OTS2500G1L/4	1SCA107262R1001	4

Connection bar kits and circuits



OEZXY91



The kits include the necessary mounting hardware. The kits include the necessary mounting hardware.

Special circuits (including grounded) can be created by installing connection bar kits to OTDC Switches and OT(M)

Disconnectors.



OTDCKIT250GS11
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1

— OTDCKIT250GS101



OTDCKIT400FS101

Suitable for		Туре	Order code	Pieces/ Package
OTDC S1.0	OTDC100200U_11	OEZXY91	1SCA125290R1001	1
	OTDC100250E_22, OTDC100200U_22	OTDCKIT250S11	1SCA148902R1001	1
OTDC S2.0	OTDC100250_G_11	OTDCKIT250GS101	1SCA161881R1001	1
	OTDC100250_G_22/02S	OTDCKIT250GS11	1SCA161882R1001	1
OTDC M	OTDC250400-F_11	OTDCKIT400FS101	1SCA157317R1001	1
	OTDC600630UF_11	OTDCKIT600FS101	1SCA157319R1001	1
	OTDC250400-F_22/02S	OTDCKIT400FS11	1SCA157318R1001	2
	OTDC600630UF_22/02S	OTDCKIT600FS11	1SCA157320R1001	2
	OTDC8001000-F_22	OTDCKIT800FS11 1)	1SCA160635R1001	4
OT(M)1600E135	OT1600E04-135, OT1600E22-135, OTM1600E4M230V-135	OTDCKIT1250B11	1SCA143479R1001	2
OT(M)2500E135	OT2500E04-135, OT2500E22-135, OTM2500E4M230V-135	OTKIT2500B11	1SCA160501R1001	4
OT(M)3200E135	OT3200E04-135, OT3200E22-135, OTM3200E4M230V-135	OTKIT2500B11	1SCA162098R1001	4

 $^{^{\}rm D}$ Connection bar kit OTDCKIT800FS11 included with the package – installation mandatory. See special circuits (including grounded) in pages 56-59.



OTDCKIT600FS101



OTDCKIT400FS11



OTDCKIT600FS11



OTDCKIT800FS11

Connection bar kits and circuits

	Suitable for	switches		Connection bar kit	Order code	Required kit qty	Connection bars pcs/kit
Circuit 1a 2-pole, 2-wire, 1-circuit	OTDC S1.0	OTDC100250_11		OEZXY91	1SCA125290R1001	1	1
+(-) -(+) LOAD For grounded systems	OTDC S2.0	OTDC100250_G_11		OTDCKIT250GS101	1SCA161881R1001	1	1
		OTDC100250_G_02S		OTDCKIT250GS11	1SCA161882R1001	1	1
	OTDC M	OTDC250500_F_11		OTDCKIT400FS101	1SCA157317R1001	1	1
		OTDC600630_F_11		OTDCKIT600FS101	1SCA157319R1001	1	1
		OTDC250400_F_02S		OTDC400FS11	1SCA157318R1001	1	2
		OTDC600630_F_02S	©	OTDC600FS11	1SCA157320R1001	1	2

Connection bar kits and circuits

Connection bar kits to create Double circuit 3

	Suitable for	switches	Connection bar kit	Order code	Required kit qty	Connection bars pcs/ kit
Circuit 3 4-pole, 4-wire, 2-circuit	OTDC S1.0	OTDC100250E_22, OTDC100200U_22	OTDCKIT250S11	1SCA148902R1001	2	1
+(-) LOAD LOAD -(+) For grounded systems	OTDC S2.0	OTDC100250_G_ 22	OTDCKIT250GS11	1SCA161882R1001	2	1
	OTDC M	OTDC250500_F_22	OTDCKIT400FS11	1SCA157318R1001	1	2
		OTDC600630_F_22	OTDCKIT600FS11	1SCA157320R1001	1	2

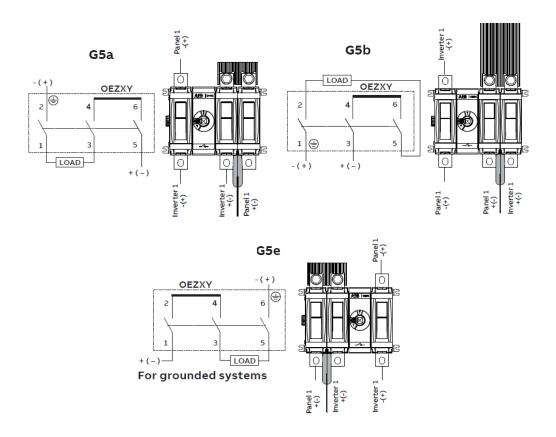
ACCESSORIES 67

Ordering information for accessories IEC and UL

Connection bar kits and circuits

Connection bar kits to create Single circuit G5a, G5b, G5e *)

	Suitable for	switches	Connection bar kit	Order code	Required kit qty	Connection bars pcs/ kit
Simplify SEC. SEL. SEC.	OTDC S2.0	OTDC100250_G_12	OTDCKIT250GS11	1SCA161882R1001	1	1
Circuit G5a, G5b, G5e 3-pole, 4-wire, 1-circuit		OTDC100250_G_21	OTDCKIT250GS11	1SCA161882R1001	1	1
3-pole, 4-wire, 1-circuit	OTDC M	OTDC250500_F_12	OTDCKIT400FS11	1SCA157318R1001	1	2
		OTDC600630_F_12	OTDCKIT600FS11	1SCA157320R1001	1	2
		OTDC250500_F_21	OTDCKIT400FS11	1SCA157318R1001	1	2
		OTDC600 630 F 21	OTDCKIT600FS11	1SCA157320R1001	1	2

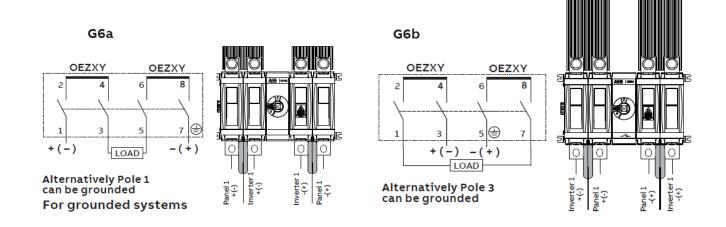


^{*)} Please consult us for 3-Pole OTDC S2.0 and M types

Connection bar kits and circuits

Connection bar kits to create Single circuit G6a, G6b

	Suitable for	switches	Connection bar kit	Order code	Required kit qty	Connection bars pcs/ kit
Circuit G6a, G6b 4-pole, 4 wire, 1-circuit	OTDC S2.0	OTDC100250_G_22	OTDCKIT250GS11	1SCA161882R1001	2	1
	OTDC M	OTDC250500_F_22	OTDCKIT400FS11	1SCA157318R1001	1	2
		OTDC600630 F 22	OTDCKIT600FS11	1SCA157320R1001	1	2



Mechanical lugs



— 07XA200



077440



OZXA604



OZXA100



OZXA252

Mechanical lugs

 $\underline{\text{Mechanical lugs for Al and Cu cables for IEC OTDC switch-disconnectors and OT(M)_-135\ disconnectors}$

	Cable cross section	า		Pieces/	
Suitable for switches	[mm²]	Type	Order code	Package	
	1070	OZXB1L/1	1SCA022194R0030	1	
OTDC \$1.0 OTDC100250E_	25120	OZXB2/1	1SCA022194R0200	1	
	25120	OZXB2L/1	1SCA022194R0460	1	
	95185	OZXB3/1	1SCA022136R8100	1	
	2x(95185)	OZXB4/1	1SCA022194R0890	1	
	120300	OZXB5/1	1SCA022194R1010	1	
	2x(120300)	OZXB6/1	1SCA022194R1270	1	
OT(M)16002500E -135	120240	OZXB7L/1	1SCA022194R1600	1	

Mechanical lugs

Mechanical lugs for Al and Cu cables for UL OTDC switch-disconnectors

Suitable for	switches	Wire range AWG	Туре	Order code	Pieces/ Package
OTDC S1.0	OTDC100200U_	AWG 4 - 300MCM	OZXA-200/4	1SCD000008R0012	4
OTDC S2.0	OTDC100UG_	AWG 14-10 AWG 8 AWG 6-4 AWG 3-2/0	OZXA-100/4P	1SCD000003R0012	4
	OTDC100200UG_	AWG 4 - 300MCM	OZXA-200/4	1SCD000008R0012	4
	OTDC250UG_	2 x AWG 14 - 2/0	OZXA-252/4	1SCD000139R0012	4
	OTDC250400UF_	2 x AWG 6 - 300MCM	OZXA-402/4	1SCD000138R0012	4
OTDC M	OTDC600UF_	2 x AWG 6 - 300MCM	OZXA-604	1SCA157322R1001	4
	OTDC8001000UF_	2 x AWG 2 - 600MCM	OZXA-804	1SCA161408R1001	4

Auxiliary contacts

Auxiliary contact blocks, IP20

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



— OA1G10, OA3G01

Auxiliary contacts

Mounting under the mechanism cover.

OTDC S1.0 - OTDC100...250E, OTDC100...200U_: Max. 4 test contacts or 2 test contacts + 2 test indication contacts.

OTDC S2.0 - OTDC100...250G, OTDC100...250UG_: Max. 1 test contact + 1 test indication contact.

OTDC M - OTDC315...1000F_, OTDC250...1000UF_: Max. 4 test contacts + 4 test indication contacts.

OT(M)1600...2500E_-135: Max. 6 test contacts + 4 test indication contacts + 2 early operation test contacts.

Suitable for switches	Function	Туре	Order code	Pieces/ Package
OTDC1001000_,	1NO	OA1G10	1SCA022353R4970	10
OT(M)16003200E135	1NC	OA3G01	1SCA022456R7410	10

For OTDC M - OTDC400...500_FV_-WA types for 2000Vdc, the auxiliary contacts are not permitted to install.

_

Module for auxiliary contacts

Screw mounting to the left side of the switch. Max. 8 auxiliary contact blocks with the OEA28 module.

Suitable	_		Pieces/
for switches	Type	Order code	Package
OTDC S1.0 - OTDC100250E, OTDC100200U_	OEA28	1SCA022714R8810	1

_

Performance data according to IEC 60947-5-1

For OA1G, OA3G

	AC15		DC12		DC13	
U _e /[VAC]	I _e /[A]	U _e /[V DC]	I _e /[A]	P/[W]	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	-	-

Interlocks



OSZT1



OTDCZTML



PDAL2

Mechanical/electrical interlock kit

OTDC switch-disconnectors can be interlocked in the ON and OFF-position using padlocks or a mechanical/eletrical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8 mm. Kit includes the mounting hardware. Coil for the electrical interlock needs to be ordered separately.

Suitable for switches		Type	Order code
OTDC S1.0	OTDC100250E_, OTDC100200U_	OSZT1L	1SCA106538R1001
OTDC M	OTDC2501000_F_*)	OTDCZTML	1SCA162042R1001

^{*)} Limitations to use of auxiliary contacts, max. 2 test contacts + 2 test indication contacts.

The disconnector can be mechanically interlocked in the OFF-position using padlocks. The diameter of the lock bail can be max. 8 mm. By installing a coil inside the mechanical interlocking unit, the disconnector can be electrically interlocked in OFF-position or in both ON and OFF-position. The electrical interlock works using the "closed circuit principle": when the control voltage is not applied to the coil, the disconnector with type-A mechanical interlock cannot be operated to ON-position, and with type-L mechanical interlock the disconnector cannot be operated to ON- or OFF-position.

Suitable for	'		'
disconnector	Mechanical interlock function	Type	Order code
	OFF	OTZT4A	1SCA106526R1001
OT16002500E135	ON and OFF	OTZT4L	1SCA106531R1001

Coils for electrical interlocks

The switch can be interlocked electrically in the OFF- and ON-positions by installing a coil inside the housing of the interlock kit. The electrical interlock works using the "closed circuit principle", meaning that when the control voltage is not connected to the coil.

			Weight/ unit	
Suitable for switches	Туре	Order code	kg	
AC coils				
110V AC, 50 Hz	PDAL2/110AC50Hz	1SCA106543R1001	0.15	
110V AC, 60 Hz	PDAL2/110AC60Hz	1SCA107100R1001	0.15	
120V AC, 60 Hz	PDAL2/120AC60Hz	1SCA111353R1001	0.15	
208V AC, 60 Hz	PDAL2/208AC60Hz	1SCA107101R1001	0.15	
230V AC, 50 Hz	PDAL2/230AC50Hz	1SCA107102R1001	0.15	
240V AC, 60 Hz	PDAL2/240AC60Hz	1SCA111356R1001	0.15	
DC coils				
24V DC	PDAL2/24DC	1SCA106542R1001	0.15	
48V DC	PDAL2/48DC	1SCA107103R1001	0.15	
110V DC	PDAL2/110DC	1SCA107105R1001	0.15	
125V DC	PDAL2/125DC	1SCA111338R1001	0.15	
220V DC	PDAL2/220DC	1SCA112503R1001	0.15	
Technical data for the coil				
Operating voltage	U = 0.81.1 x U _n	,		
Operating ambient temperature	-40°C+65°C			
Power consumption	with AC 6.5W			
	with DC 9VA			

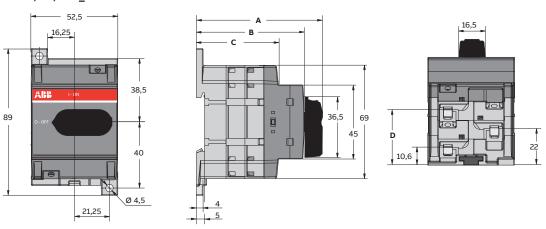
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Dimensional drawings

08.1.	Dimensional drawings, OTDC XS-Series
08.2.	Dimensional drawings, OTDC S1.0-Series
08.3.	Dimensional drawings, OTDC S2.0-Series
08.4.	Dimensional drawings, OTDC M-Series
08.5.	Dimensional drawings, OT(M)135 - Series
08.6.	Dimensional drawings, accessories

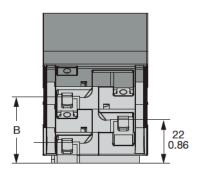
OTDC XS-Series 16...32 Amperes (IEC)

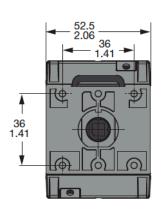
OTDC16, 25, 32F_

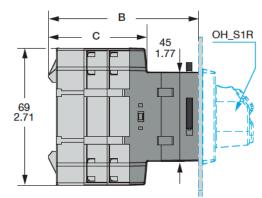


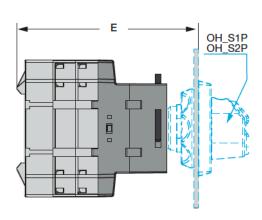
Number of poles	A	В	С	D
2	66,2	54,1	38,3	22
3	77,6	65,5	49,7	33,4
4	89	76,9	61,1	44,8

OTDC16, 25, 32FT_



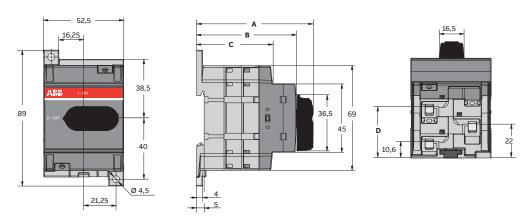






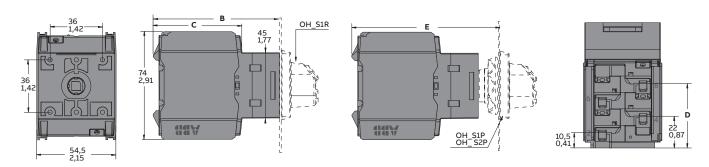
OTDC XS-Series 16...32 Amperes (IEC and UL)

OTDC 16, 25, 32U_



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

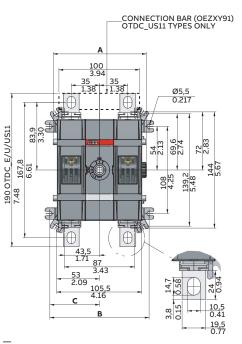
OTDC 16, 25, 32U_T_

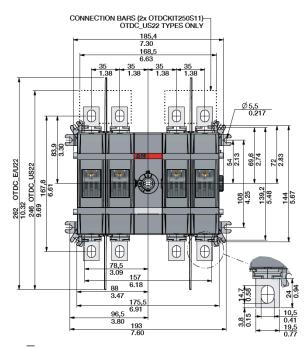


[mm/in]	02	04	06
В	64/2,52	87/3,43	110/4,33
С	38/1,50	61/2,40	84/3,31
D	22/0,87	45/1,77	68/2,68
E	79/3,11	102/4,02	124,5/4,9
· · · · · · · · · · · · · · · · · · ·	•	·	· · · · · · · · · · · · · · · · · · ·

OTDC S1.0 - 100...250 Amperes (IEC and UL)

OTDC100, 160, 200, 250E11/_22, OTDC100, 200U11/_22



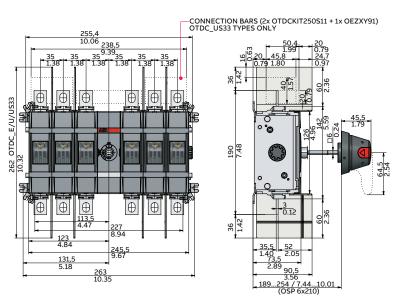


OTDC100..250E11, OTDC100..200U11

OTDC100..250E22, OTDC100..200U22

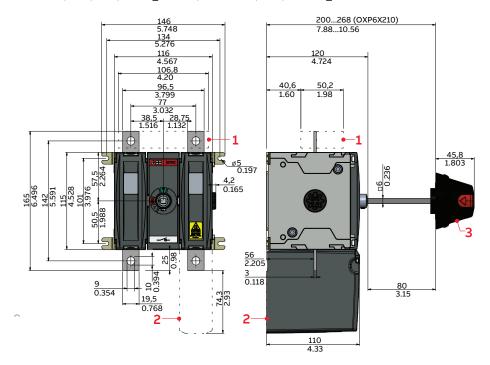
[mm/in]	11	22
A	115,4/4.54	185,4/7.30
В	123/4.84	193/7.60
С	61,5/2.42	96,5/3.80

OTDC100...250E33, OTDC100...200U33



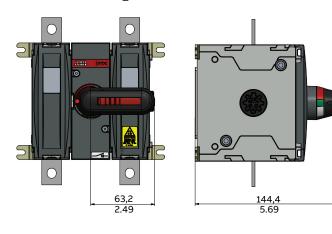
OTDC S2.0 - 100...250 Amperes (IEC and UL)

OTDC100, 160, 200, 250G_11, OTDC100, 200, 250UG_11 OTDC100, 160, 200, 250G_11-ESS, OTDC100, 200, 250UG_11-ESS



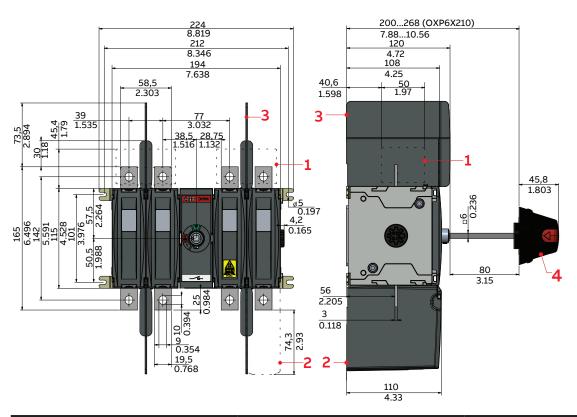
Pos.	Accessory	Description
1	Connection bar kit	OTDCKIT250GS101
2	Terminal shroud	OTDCS200GG1
3	Handle	OH_65J6

OTDC100...250GV_K OTDC100...250UGV_K



OTDC S2.0 - 100...250 Amperes (IEC and UL)

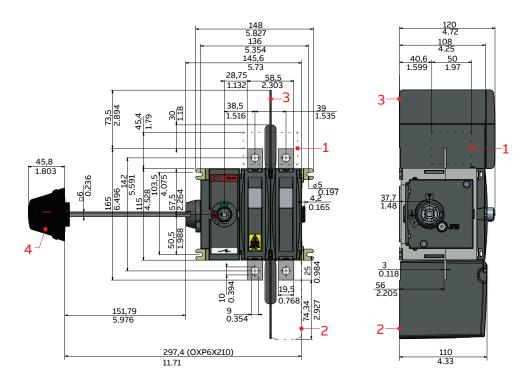
OTDC100, 160, 200, 250G_22 OTDC100, 200, 250UG_22



Pos.	Accessory	Description
1	Connection bar kit	OTDCKIT250GS11
2	Terminal shroud	OTDCS200GG1
3	Phase barrier	OTDCB200/2
4	Handle	OH_65J6

OTDC S2.0 - 100...250 Amperes (IEC and UL)

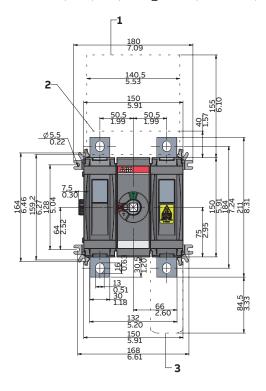
OTDC100, 160, 200, 2500G_02S OTDC100, 200, 250UG_02S

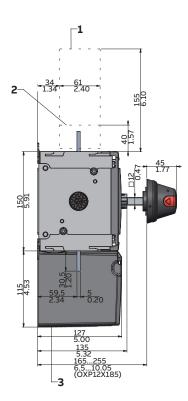


Pos.	Accessory	Description
1	Connection bar kit	OTDCKIT250GS11
2	Terminal shroud	OTDCS200GG1
3	Phase barrier	OTDCB200/2
4	Handle	OH_65J6E00S

OTDC M – 250...1000 Amperes (IEC and UL)

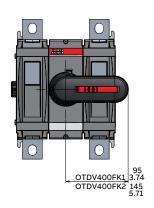
OTDC315, 400, 500, 630, 800F_11, OTDC250, 320, 400, 600UF_11 OTDC315, 400, 500, 630F_11-ESS, OTDC250, 320, 400UF_11-ESS

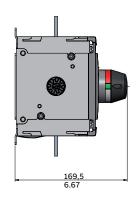




Pos.	Accessory	Description
1	Connection bar	OTDCKIT600FS101, OTDC600UF_11 only
2	Connection bar	OTDCKIT400FS101, OTDC250400UF_11 only
3	Terminal shroud	OTDCS400FG1, OTDCS400FT1
4	Handle	OH_95J12

OTDC315...800F_K_, OTDC250...600UF_K_

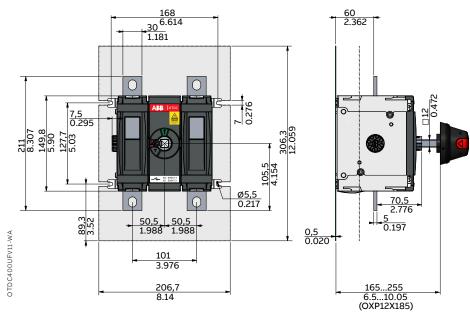




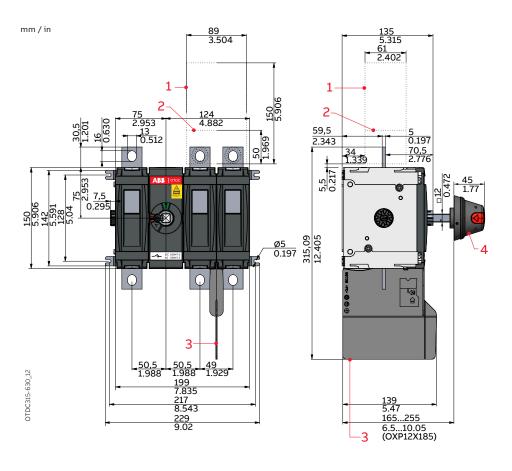
OTDC400UFV11-WA (UL & CSA)

Insulation sheet use is mandatory, included with the product package. Aux use is forbidden.



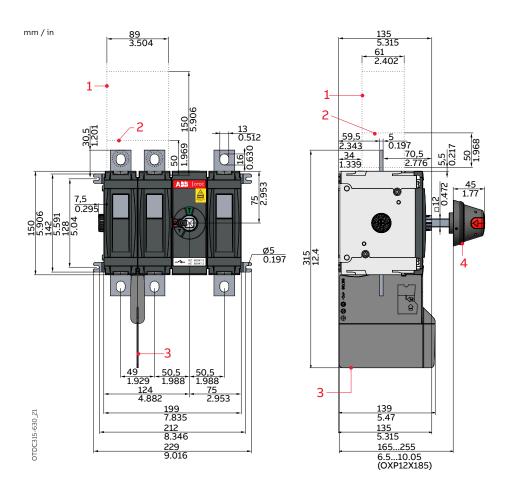


OTDC315...630F_12, OTDC250...600UF_12



Pos.	Accessory	Description
1	Connection bar	OTDCKIT600FS11
2	Connection bar	OTDCKIT400FS11
3	Phase barrier	OTDC400F/2
4	Handle	OH_95_145

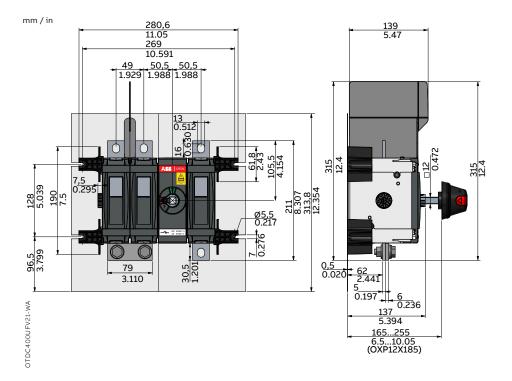
OTDC315...630F_21, OTDC250...600UF_21



Pos.	Accessory	Description
1	Connection bar	OTDCKIT600FS11
2	Connection bar	OTDCKIT400FS11
3	Phase barrier	OTDCB400F/2
4	Handle	OH_95_145

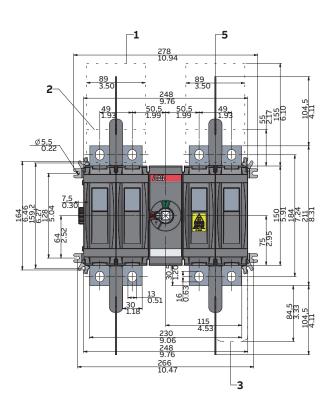
OTDC400...500(U)FV21-WA (IEC & UL)

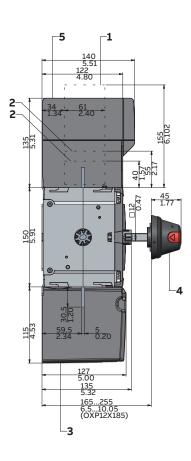
Insulation sheet use is mandatory, included with the product package. AUX use forbidden.



OTDC M – 250...1000 Amperes (IEC and UL)

OTDC315, 400, 500, 630F_22 OTDC250, 320, 400, 600UF_22





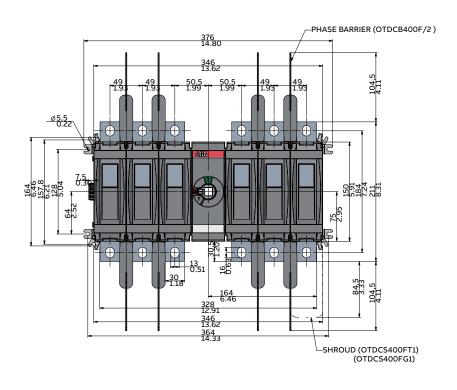
Pos.	Accessory	Description
1	Connection bar	OTDCKIT600FS11, OTDC600UF_22 only
2	Connection bar	OTDCKIT400FS11, OTDC250400UF_22 only
3	Terminal shroud	OTDCS400FG1, OTDCS400FT1
4	Handle	OH145J12
5	Phase barrier	OTDCB400F/2

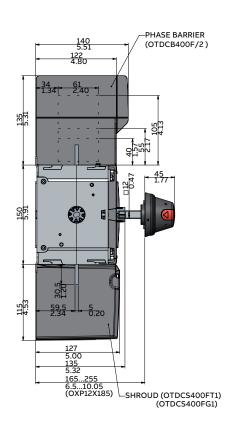
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Dimensional drawings

OTDC M – 250...1000 Amperes (IEC)

OTDC315, 400, 500F_33

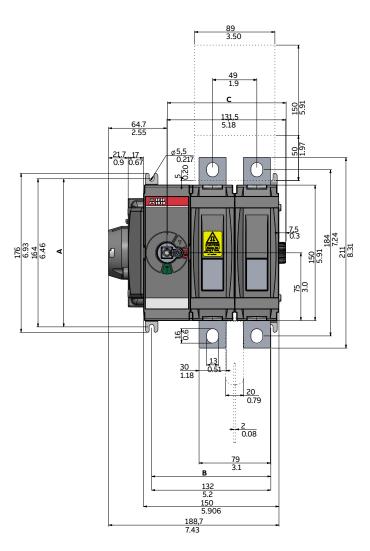


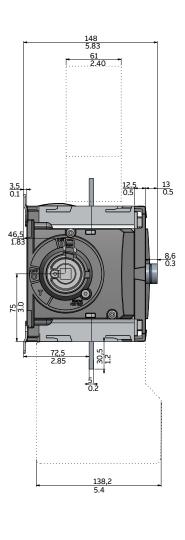


Pos.	Accessory	Description
3	Terminal shroud	OTDCS400FG1, OTDCS400FT1
4	Handle	OH_145J12
5	Phase barrier	OTDCB400F/2

OTDC M – 250...1000 Amperes (IEC and UL)

OTDC315, 400, 500, 630FV02S OTDC250, 320, 400, 600UFV02S



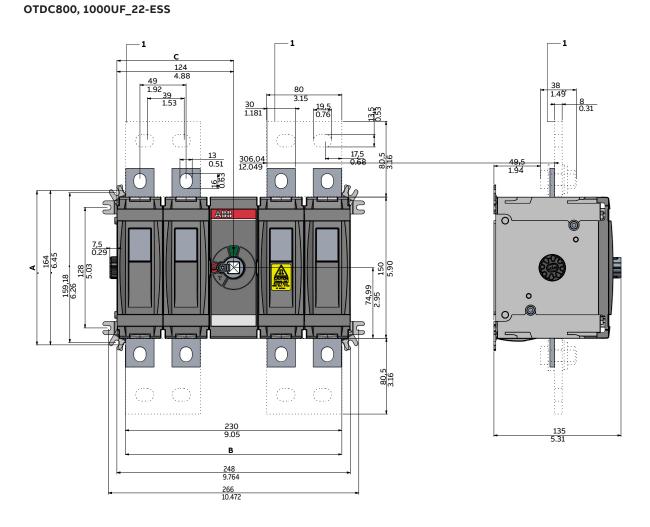


[mm/in]	02
A	164/6.46
В	132/5.2
С	131,5/5.18

OTDC M – 250...1000 Amperes (IEC and UL)

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OTDC630, 800F_22-PV2 OTDC800, 1000F_22 OTDC800, 1000UF_22 OTDC800, 1000F_22-ESS

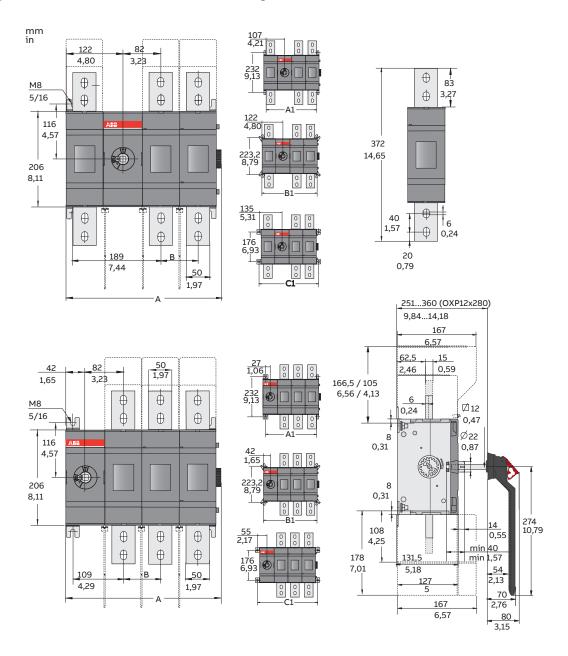


[mm/in]	22
A	164/6.46
В	230/9.055
С	124/4.882

Pos.	Accessory	Description
1	Connection bar	OTDCKIT800FS11

OT1600E -135

Front operated disconnectors OT1600, base mounting, IEC

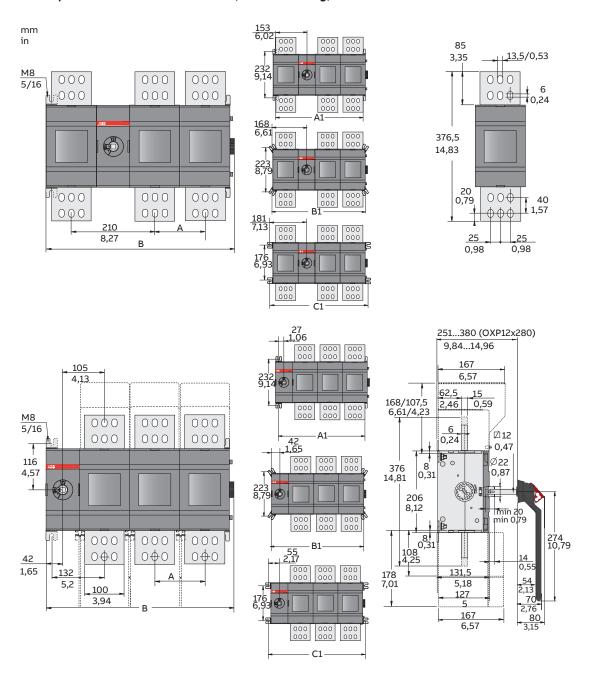


OT1600E_-135

mm/in	02	04	22
A	254.50/10.02	414.50/16.32	414.50/16.32
В	80/3.15	80/3.15	80/3.15
A1	214/8.43	374/14.72	374/14.72
B1	244/9.61	404/15.91	404/15.91
C1	270/10.63	430/16.93	430/16.93

OT2500E -135

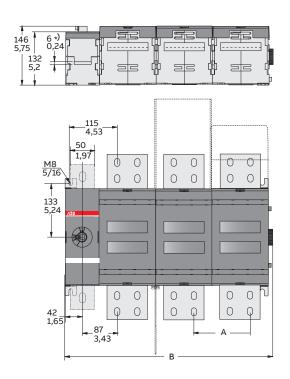
Front operated disconnectors OT2500, base mounting, IEC

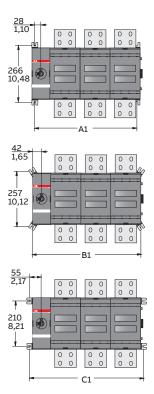


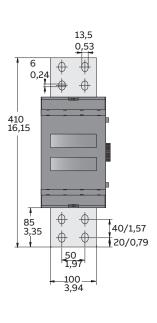
OT2500E_-135

mm/in	02	04	22
A	126/4.96	126/4.96	126/4.96
В	346.5/13.64	598.5/23.56	598.5/23.56
A1	306/12.05	558/21.97	558/21.97
B1	336/13.23	588/23.15	588/23.15
C1	362/14.25	614/24.17	614/24.17

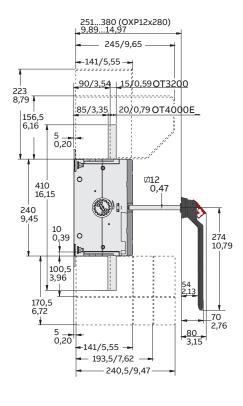
OT3200E_-135



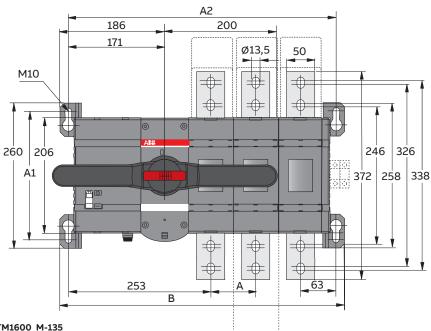


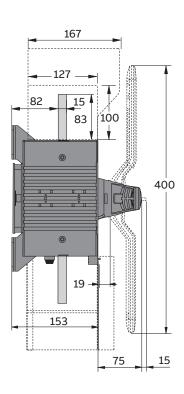


OT3200E135			_
	02	04	_
A	140	140	
В	374	654	
A1	335	615	
B1	364	644	
C1	390	670	



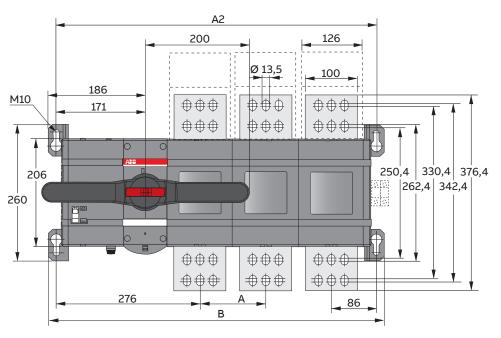
OTM1600-2500E -135

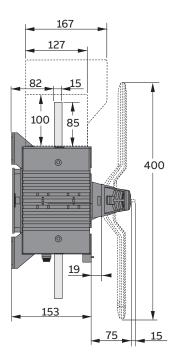




OTM1600_M	1-135
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	E2	E4
A	80	80
A1	230	230
A2	396,5	556,5
В	426,5	586,5

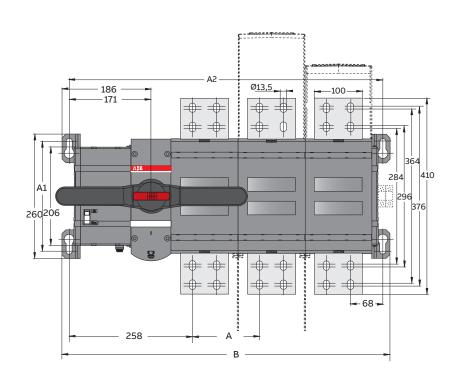


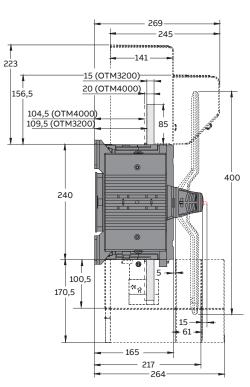


OTM2500_M-135

	E2	E4
A	126	126
A1	230	230
A2	488,5	740,5
В	518,5	770,5

OTM3200E_-135



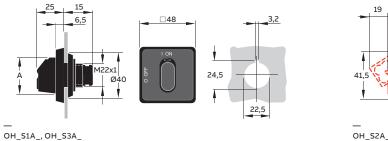


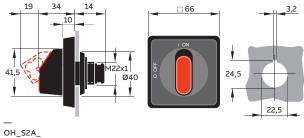
OTM3200_-135

<u> </u>		
	E2	E4
A	140	140
A1	230	230
A2	516,5	796,5
В	546,5	826,5

Handles

Handles for base and DIN-rail mounted OTDC 16...32_



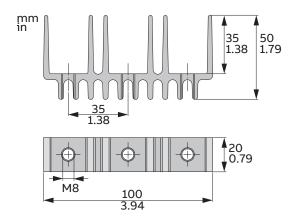


[mm]	OH_S1A_	OH_S3A_
A	31,5	37,5

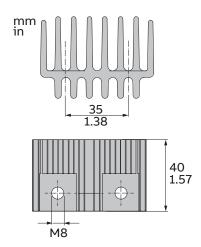
Connection bar kits

OTDC S1.0 – 100...250 Amperes (IEC and UL)

OEZXY91 (IEC and UL)

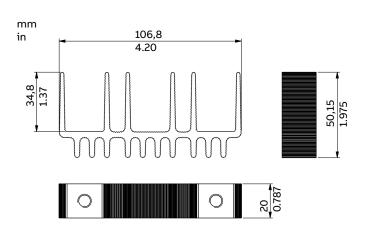


OTDCKIT250S11 (IEC and UL)

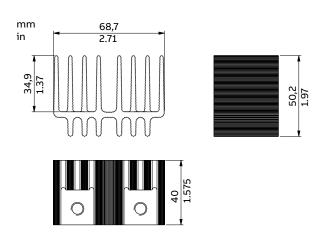


OTDC S2.0 - 100...250 Amperes (IEC and UL)

OTDCKIT250GS101



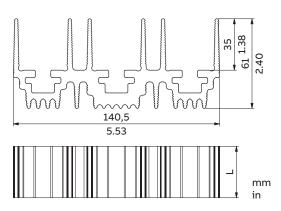
OTDCKIT250GS11



Connection bar kits

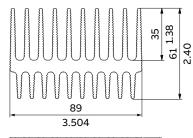
OTDC M - 250...1000 Amperes (IEC and UL)

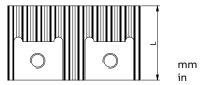
OTDCKIT400FS101 and OTDCKIT600FS101 (IEC and UL)



	L [mm/in]
OTDC250400UFS(V)22	35/1.38
OTDC600UFS(V)22	150/5.91

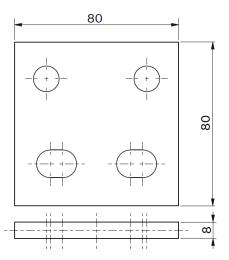
OTDCKIT400FS11 and OTDCKIT600FS11 (IEC and UL)





	L [mm/in]	
OTDC250400UFS(V)22	50/1.97	
OTDC600UFS(V)22	150/5.91	

OTDCKIT800FS11 (IEC and UL)

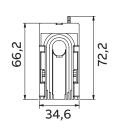


Terminal shrouds

OTDC S1.0 – 100...250 Amperes (IEC and UL)

OTS250_1L/4



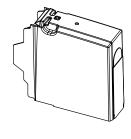


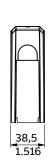


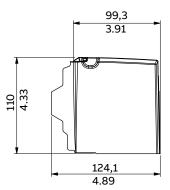
OTDC S2.0 – 100...250 Amperes (IEC and UL)

OTDCS200GG1

mm in

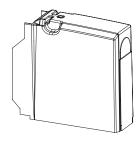




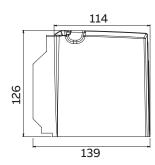


OTDC M - 250...800 Amperes (IEC and UL)

OTDCS400FG1 / OTDCS400FT1



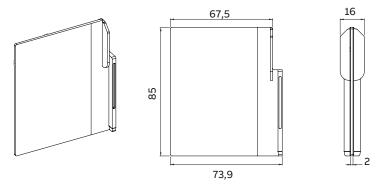




Phase barriers

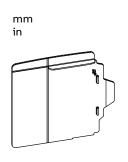
OTDC S1.0 – 100...250 Amperes (IEC and UL)

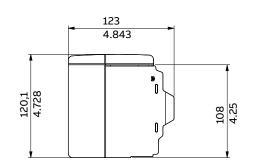
OTDCB250/2



OTDC S2.0 – 100...250 Amperes (IEC and UL)

OTDCB200G/2

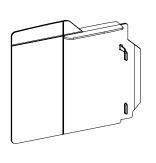


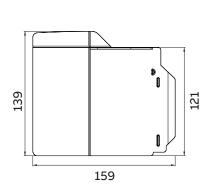




OTDC M – 250...630 Amperes (IEC and UL)

OTDCB400F/2







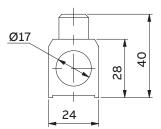
Mechanical lugs

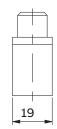
OTDC S1.0 – 100...250 Amperes (IEC and UL)

OZXA200



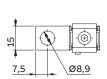


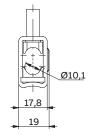


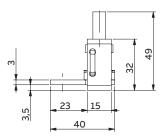


OZXB1L

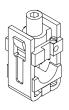




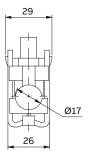


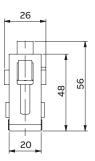


OZXB2

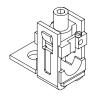


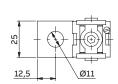


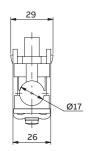


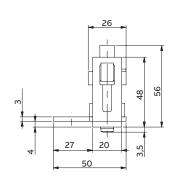


OZXB2L



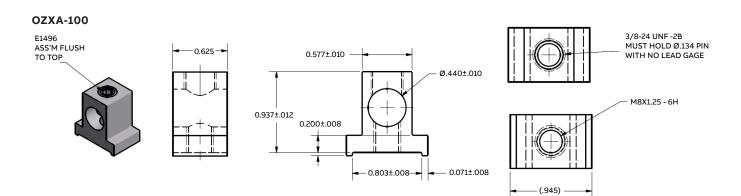






Mechanical lugs

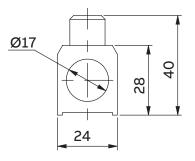
OTDC S2.0 - 100...250 Amperes (IEC and UL)

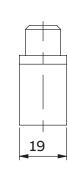


OZXA-200

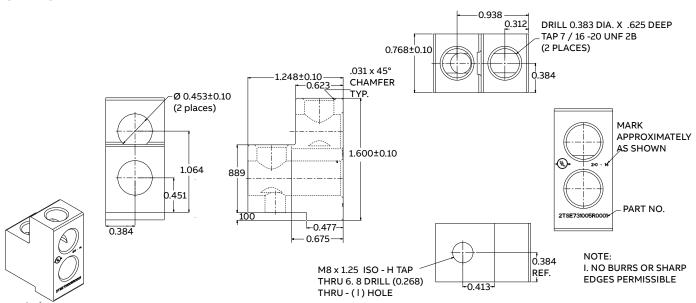








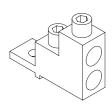
OZXA-252

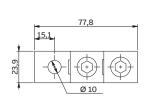


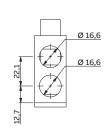
Mechanical lugs

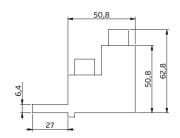
OTDC M – 315...1000 Amperes (IEC and UL)

OZXA-402

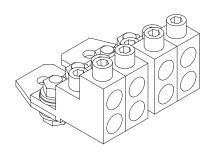


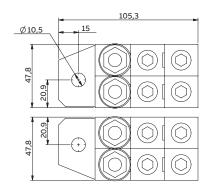


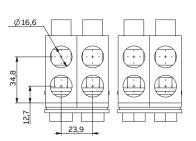


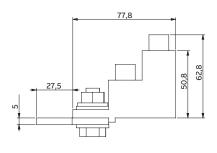


OZXA-604

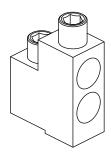


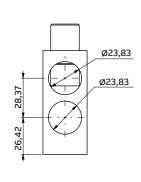


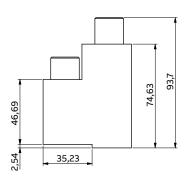


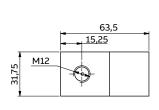


OZXA-804









Additional resources

OTDC switch-disconnectors



Do you need additional information?

Visit our websites to find out more

OTDC Switch-disconnectors

Website



OT Disconnectors

1600...4000A, DC-20



Low Voltage Solutions for Solar Power

Websit



Low Voltage Solutions for Energy Storage Systems (ESS)

\Mahsita





Installation instructions

Installation instructions for OTDC XS-Series $\mbox{OTDC15}...32\mbox{U}_{-}$



Installation instructions for OTDC XS-Series ${\tt OTDC16...32F}_$



Installation instructions for OTDC S1.0-Series (OTDC100...250E_/OTDC100...200U)



Installation instructions for OTDC S2.0-Series (OTDC100...250_G_) $\label{eq:condition}$



Installation instructions for OTDC M-Series (OTDC315...800F_/OTDC250...600UF_)



Installation instructions for OTDC M-Series (OTDC800...1000F_/OTDC800...1000UF_)



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