

## New two pole OTDC disconnect switch

1000 VDC: UL 98B 100...180...200...250...400A, IEC 315...100...160...200...250...500A - featuring Dual Magnetic Breaking



### Two pole design for DC applications

OTDC disconnect switches have been specifically designed for DC applications. ABB is the first in the market to achieve 1000 VDC with only two poles. The OTDC offering includes UL and IEC versions.

- UL 98B offering 100...180...200...250...400 A, 1000 VDC
- IEC offering 100...160...200...315...500 A, up to 1500 VDC

### Optimal design with Dual Magnetic Breaking

The dual air gap contacts provide quick and reliable isolation in a compact frame. In addition, the high voltage breaking power is balanced, using Lorentz force and permanent magnets together to quickly and reliably extinguish the light arc at both high and low current levels.

- ▶ Optimized breaking across the full ampacity range
- ▶ Fast arc extinguishing within a small footprint

The symmetrical design allows cable connections to be polarity independent enabling top or bottom feed.

- ▶ Ease of installation
- ▶ Versatile cabling

### Modularity

The mechanism can be located either between the poles or on the side of the switch. Special four pole versions are available for use in double-circuit applications.

- 2 poles, 1000 VDC
- 4 poles, 2 x 1000 VDC
- ▶ Configurability to handle location
- ▶ Flexibility to use in diverse applications

### Designed for safety

OTDC is the only DC disconnect switch in the market with visible contacts. The disconnect switch is immune to voltage peaks and its contact operation is independent of the handle rotation speed (quick make-quick break).

- ▶ Visible position indication
- ▶ Safe and reliable operation



Power and productivity  
for a better world™



# Technical overview

1000 VDC: UL 98B 100...400A, IEC 315...500A

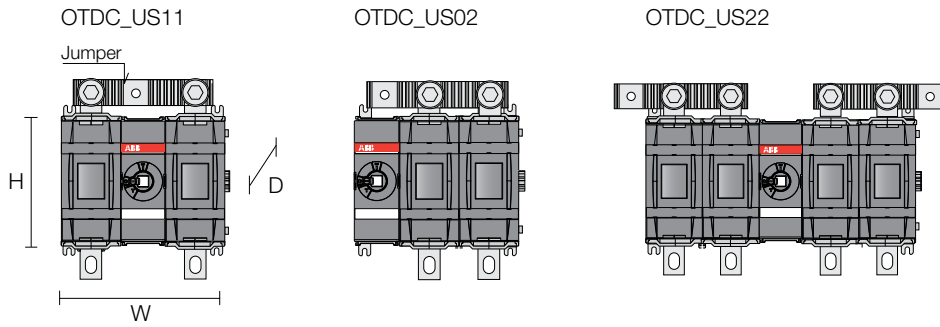
Part # w/ jumper	Part # w/o jumper	Amperage	Standard	Dimensions
				W x H x D in
OTDC100US11	OTDC100U11	100 A	UL 98B	4 x 5 x 3
OTDC100US02	OTDC100U02	100 A	UL 98B	4 x 5 x 3
OTDC180US22	OTDC180U22	180 A	UL 98B	7 x 5 x 3
OTDC200US11	OTDC200U11	200 A	UL 98B	4 x 5 x 3
OTDC200US02	OTDC200U02	200 A	UL 98B	4 x 5 x 3
OTDC250US11	OTDC250U11	250 A	UL 98B	8 x 6 x 4
OTDC250US02	OTDC250U02	250 A	UL 98B	8 x 6 x 4
OTDC250US22	OTDC250U22	2 x 250 A <sup>1)</sup>	UL 98B	13 x 6 x 4
OTDC320US11	OTDC320U11	320 A	UL 98B	8 x 6 x 4
OTDC320US02	OTDC320U02	320 A	UL 98B	8 x 6 x 4
OTDC320US22	OTDC320U22	2 x 320 A <sup>1)</sup>	UL 98B	13 x 6 x 4
OTDC400US11	OTDC400U11	400 A	UL 98B	8 x 6 x 4
OTDC400US02	OTDC400U02	400 A	UL 98B	8 x 6 x 4
OTDC400US22	OTDC400U22	2 x 400 A <sup>1)</sup>	UL 98B	13 x 6 x 4

<sup>1)</sup> Two separate circuits, each with the given amperage

<sup>2)</sup> All IEC types without jumpers

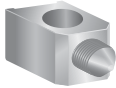
OTDC40US 13-10 1SCC301013B0201

## Dimensions and appearance

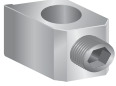


## Cable lugs

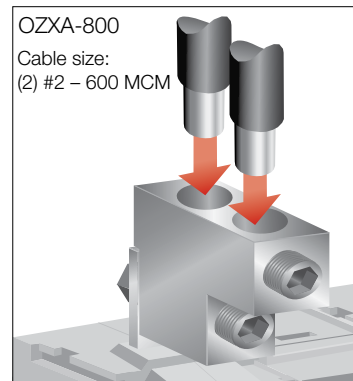
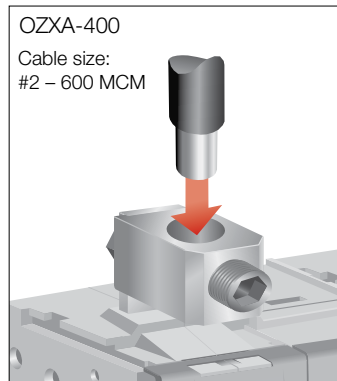
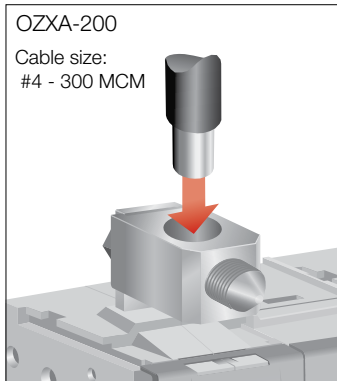
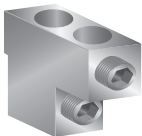
OZXA-200



OZXA-400



OZXA-800



Terminals suitable for 90°C UL cables (Terminal temperature + ambient)

Additional lugs available for IEC

**ABB Inc.**  
**Low Voltage Products, North America**  
 16250 W. Glendale Drive  
 New Berlin, WI 53151  
 Phone: 888-385-1221  
[www.abb.us/lowvoltage](http://www.abb.us/lowvoltage)

Power and productivity  
 for a better world™

