

OTDC Switch-disconnectors for 1500Vdc range expanded



The OTDC Switch-disconnector 1500Vdc offering (Link) has been extended with side operated and with higher current products for photovoltaic and ESS applications. The 1500Vdc offering includes now side operated types from 315A up to 630A (IEC 60947) and 250A up to 600A (UL98B). Furthermore the offering has now parallel connected pole types from 800A up to 1000A (IEC 60947 and UL98B).

Product highlights:

- Tested according to IEC60947-3 and UL98B
- CE, UL and CCC certified
- Ratings according to utilization categories DC21B up to DC-PV2 and DC-22B
- mechanical endurance 10.000 operating cycles
- Rated short-time withstand current I_{cw} up to 63kA
- Rated conditional short-circuit current I_q up to 100kA
- Optimized arc chamber with long opening angle and patented DMB© - Dual Magnetic Breaking
- Inspection window for a direct view of the contact position
- Symmetrical pole design enables independent polarity

For more information:

OTDC Website
OTDC315...1000F_



Installation instruction
OTDC315...800F_



Installation instruction
OTDC800...1000F_22



—
Type code list of products released for sales 14.09.2020

| Type code | Order code | Voltage | Rated Operational current, DC-21B | Rated Operational current, DC-PV2 | Rated current (UL) | Certification | Number of circuits | Operating Mode | Circuit Connection |
|-------------------|-----------------|---------|-----------------------------------|-----------------------------------|--------------------|---------------|--------------------|----------------|--------------------|
| OTDC800F22 | 1SCA160619R1001 | 1000Vdc | 800A | | | CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC1000F22 | 1SCA161286R1001 | 1000Vdc | 1000A | | | CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC800UF22 | 1SCA161282R1001 | 1000Vdc | 800A | | | UL, CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC1000UF22 | 1SCA161290R1001 | 1000Vdc | 1000A | | | UL, CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC800FV22 | 1SCA161280R1001 | 1500Vdc | 800A | | | CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC1000FV22 | 1SCA161288R1001 | 1500Vdc | 1000A | | | CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC800UFV22 | 1SCA161284R1001 | 1500Vdc | 800A | | | UL, CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC315FV02S | 1SCA161226R1001 | 1500Vdc | 315A | 315A | | CE, CCC | 1 | Side operated | 2a, 2b |
| OTDC400FV02S | 1SCA161232R1001 | 1500Vdc | 400A | 400A | | CE, CCC | 1 | Side operated | 2a, 2b |
| OTDC500FV02S | 1SCA161237R1001 | 1500Vdc | 500A | 500A | | CE, CCC | 1 | Side operated | 2a, 2b |
| OTDC630FV02S | 1SCA161268R1001 | 1500Vdc | 630A | 500A | | CE, CCC | 1 | Side operated | 2a, 2b |
| OTDC250UFV02S | 1SCA161243R1001 | 1500Vdc | 315A | 315A | 250A | UL, CE, CCC | 1 | Side operated | 2a, 2b |
| OTDC320UFV02S | 1SCA161249R1001 | 1500Vdc | 400A | 400A | 320A | UL, CE, CCC | 1 | Side operated | 2a, 2b |
| OTDC400UFV02S | 1SCA161256R1001 | 1500Vdc | 500A | 500A | 400A | UL, CE, CCC | 1 | Side operated | 2a, 2b |
| OTDC600UFV02S | 1SCA161264R1001 | 1500Vdc | 630A | 500A | 600A | UL, CE, CCC | 1 | Side operated | 2a, 2b |
| OTDC800F22-ESS | 1SCA161279R1001 | 1000Vdc | 800A | | | CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC1000F22-ESS | 1SCA161287R1001 | 1000Vdc | 1000A | | | CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC800UF22-ESS | 1SCA161283R1001 | 1000Vdc | 800A | | | UL, CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC1000UF22-ESS | 1SCA161291R1001 | 1000Vdc | 1000A | | | UL, CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC800FV22-ESS | 1SCA161281R1001 | 1500Vdc | 800A | | | CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC1000FV22-ESS | 1SCA161289R1001 | 1500Vdc | 1000A | | | CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC800UFV22-ESS | 1SCA161285R1001 | 1500Vdc | 800A | | | UL, CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC1000UFV22-ESS | 1SCA161293R1001 | 1500Vdc | 1000A | | | UL, CE, CCC | 1 | Front operated | 6c, 6g |
| OTDC1000UFV22 | 1SCA161292R1001 | 1500Vdc | 1000A | | | UL, CE, CCC | 1 | Front operated | 6c, 6g |

—
ABB Oy

Smart Power

P.O. Box 622
FI-65101 Vaasa
Finland

www.abb.com

Find the address of your local sales organization on the ABB homepage:

www.abb.com/contacts

> **Low Voltage Products and Systems**