

## PRODUCT-DETAILS

# OTDC600UF11

## OTDC600UF11 PV Disconnect Switch



### Informations générales

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extension du type de produit | OTDC600UF11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Code de produit              | 1SCA158233R1001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EAN                          | 6417019873381                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Description courte           | OTDC600UF11 PV Disconnect Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description longue           | <p>A fully optimized two-pole DC switch-disconnector for 1000V utility-scale photovoltaic power plants covering 315-630A current range. The new design offers both a size reduction and an increase in efficiency and performance.</p> <p>The two-pole 1000V DC Switch helps manufacturers improve system efficiency. Measuring just 150mm wide and 122mm high, the compact size of the new OTDC range makes it possible for manufacturers to reduce the size of combiner boxes and inverters.</p> <p>Main characteristics for this particular OTDC type:<br/>Disconnect single PV circuit, Approved according to UL98B and IEC 60947-1,-3</p> |

### Valeur Circulaire

|                                                        |                                                                                           |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------|
| ABB EcoSolutions                                       | Oui                                                                                       |
| Principes du Design Circulaire - Taux de Recyclabilité | Conçu pour utiliser des ressources recyclables et réutilisables - Norme EN45555 - 59,09 % |
| Conflict Minerals Reporting Template (CMRT)            | 9AKK108467A5658                                                                           |
| Instructions relatives à la fin de vie                 | 1SCC301112M0201                                                                           |
| Environmental Product Declaration - EPD                | 1SCC301247D0201                                                                           |
| Déchets destinés à                                     | Déchet non-dangereux mis en décharge, lorsqu'il n'existe aucune autre                     |

|                                                                    |                                                                                                                                        |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| l'enfouissement en<br>décharge - Destination                       | alternative à moins de 100km d'un bâtiment - Atteint                                                                                   |
| Amélioration de l'efficacité<br>des ressources pour les<br>clients | Efficacité du produit - Produit considéré comme plus économe en énergie par<br>rapport à un produit similaire sur le marché. - Atteint |
| REACH Declaration                                                  | 1SCC301240D0201                                                                                                                        |
| Informations RoHS                                                  | 1SCC301239D0201                                                                                                                        |

## Eco Transparence

|                                            |                 |
|--------------------------------------------|-----------------|
| Environmental Product<br>Declaration - EPD | 1SCC301247D0201 |
|--------------------------------------------|-----------------|

## Commande

|                  |              |
|------------------|--------------|
| Quantité minimum | 1 pièce      |
| Code douanier    | 85363090     |
| Pays d'origine   | Finland (FI) |

## Downloads Préférés

|                                            |                                                                                    |
|--------------------------------------------|------------------------------------------------------------------------------------|
| Fiche produit, informations<br>techniques  | 1SCC301022C0201                                                                    |
| Instructions et manuels                    | 1SCC301099M0201<br>9AKK107492A6191                                                 |
| Mechanical Drawings                        | OTDC250-600UFV11_stp<br>OTDC250-600UFV11_igs<br>1SCC307658F0001<br>1SCC307659F0001 |
| Wiring Diagram                             | 1SCC301030K0201                                                                    |
| Environmental Product<br>Declaration - EPD | 1SCC301247D0201                                                                    |
| Instructions relatives à la<br>fin de vie  | 1SCC301112M0201                                                                    |

## Dimensions

|                                |                    |
|--------------------------------|--------------------|
| Dimensions Cadre du<br>produit | M                  |
| Produit Largeur Net            | 157.5 mm<br>6.2 in |
| Produit Hauteur Net            | 211 mm<br>8.3 in   |
| Produit Longueur Net           | 135 mm<br>5.3 in   |
| Poids net                      | 3.5 kg<br>7.7 lb   |

## Technique

|                                                       |                       |
|-------------------------------------------------------|-----------------------|
| Configuration Connexion                               | Single circuit 2a, 2b |
| Rated Operational Current<br>DC-21B (I <sub>g</sub> ) | (1000 V) 630 A        |
| Rated Operational Current<br>DC-22B                   | (1000 V) 400 A        |
| Rated Operational Current<br>DC-PV1                   | (1000 V) 500 A        |
| Rated Operational Current<br>DC-PV2                   | (1000 V) 500 A        |

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Courant thermique conventionnel à l'air libre ( $I_{th}$ ) | q = 40 °C 630 A                                                                                                                                                                                                                                                                                                                                                                            |
| Conventional Thermal Current ( $I_{the}$ )                 | Fully Enclosed 630 A                                                                                                                                                                                                                                                                                                                                                                       |
| Tension assignée de tenue aux chocs ( $U_{imp}$ )          | 12 kV                                                                                                                                                                                                                                                                                                                                                                                      |
| Tension assignée d'isolement ( $U_i$ )                     | 1500 V                                                                                                                                                                                                                                                                                                                                                                                     |
| Tension                                                    | 1000 V                                                                                                                                                                                                                                                                                                                                                                                     |
| Rated Short-Circuit Making Capacity ( $I_{cm}$ )           | (1000 V DC) 10 kA                                                                                                                                                                                                                                                                                                                                                                          |
| Courant assigné de courte durée admissible ( $I_{cw}$ )    | (1500 V DC) 10 kA for 1 s 10 kA                                                                                                                                                                                                                                                                                                                                                            |
| Protection Type                                            | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                            |
| Power Loss                                                 | at Rated Operating Conditions per Pole 30...32 W                                                                                                                                                                                                                                                                                                                                           |
| Degré de pollution                                         | 3                                                                                                                                                                                                                                                                                                                                                                                          |
| Handle Type                                                | Handle and shaft not included                                                                                                                                                                                                                                                                                                                                                              |
| Positive Opening Operation Torque (Direct Opening Action)  | 11 ... 19 N·m                                                                                                                                                                                                                                                                                                                                                                              |
| Diamètre d'arbre                                           | 12 mm<br>0.47 in                                                                                                                                                                                                                                                                                                                                                                           |
| Switches Operating Mechanism                               | Mechanism Between the Poles<br>11 (Between the Poles)                                                                                                                                                                                                                                                                                                                                      |
| Position of Line Terminals                                 | Top In - Bottom Out<br>Bottom In - Top Out                                                                                                                                                                                                                                                                                                                                                 |
| Mode de fonctionnement                                     | Front Operated                                                                                                                                                                                                                                                                                                                                                                             |
| Normes et standards                                        | UL98B and IEC 60947-1, -3                                                                                                                                                                                                                                                                                                                                                                  |
| Fonctions spéciales                                        | No                                                                                                                                                                                                                                                                                                                                                                                         |
| Type de montage                                            | Base mounting                                                                                                                                                                                                                                                                                                                                                                              |
| Number of Circuits                                         | 1                                                                                                                                                                                                                                                                                                                                                                                          |
| Nombre de pôles                                            | 2                                                                                                                                                                                                                                                                                                                                                                                          |
| Indice de protection                                       | Front IP20                                                                                                                                                                                                                                                                                                                                                                                 |
| Type de borne                                              | Lug terminals                                                                                                                                                                                                                                                                                                                                                                              |
| Terminal Width                                             | 30 mm<br>1.2 in                                                                                                                                                                                                                                                                                                                                                                            |
| Couple de serrage                                          | Cable Lug 50 ... 75 N·m<br>Cable Lug 443 ... 664 lbf·in                                                                                                                                                                                                                                                                                                                                    |
| Durabilite mecanique                                       | 10000 cycle                                                                                                                                                                                                                                                                                                                                                                                |
| Utilization                                                | Photovoltaic                                                                                                                                                                                                                                                                                                                                                                               |
| Utilization Category                                       | Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B)<br>Switching of mixed resistive and inductive loads, including moderate overloads (i.e. shunt motors) - occasional actuation (DC-22B)<br>Switching of single PV string(s) without reverse and overcurrents (DC-PV1)<br>Switching of several PV string(s) with reverse and overcurrents (DC-PV2) |

## Technique UL/CSA

|                                     |                                                         |
|-------------------------------------|---------------------------------------------------------|
| Maximum Operating Voltage           | 1000Vdc, UL 98B                                         |
| Ampere Rating                       | 600A, 1000Vdc, UL98B                                    |
| Short-Circuit Current Rating (SCCR) | Any UL Listed Fuses or Circuit-Breakers 10 kA           |
| Couple de serrage                   | Cable Lug 50 ... 75 N·m<br>Cable Lug 443 ... 664 lbf·in |

## Environnement

Statut RoHS

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Certificats et Déclarations (Numéro de document)

|                                            |                                    |
|--------------------------------------------|------------------------------------|
| CCC Certificate                            | CQC2019010302206498                |
| Déclaration de Conformité<br>- CE          | 1SCC301227D2701                    |
| Declaration of Conformity<br>- UKCA        | 1SCC301313D0201                    |
| DNV GL Certificate                         | 1SCC301231D0201                    |
| Environmental Product<br>Declaration - EPD | 1SCC301247D0201                    |
| Instructions et manuels                    | 1SCC301099M0201<br>9AKK107492A6191 |
| REACH Declaration                          | 1SCC301240D0201                    |
| Informations RoHS                          | 1SCC301239D0201                    |
| Certificat UL                              | UL certificate OTDC250-1000UF      |

## Emballage

|                                |                  |
|--------------------------------|------------------|
| Emballage Niveau 1<br>Unités   | box 1 pièce      |
| Emballage Niveau 1<br>Largeur  | 220 mm<br>8.7 in |
| Emballage Niveau 1<br>Longueur | 250 mm<br>9.8 in |
| Emballage Niveau 1<br>Hauteur  | 210 mm<br>8.3 in |
| Emballage Niveau 1 Poids       | 3.8 kg<br>8.3 lb |
| Emballage Niveau 1 EAN         | 6417019873381    |

## Classifications

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| Code de classification<br>d'objet | Q                                                          |
| ETIM 5                            | EC000216 - Switch disconnecter                             |
| ETIM 6                            | EC000216 - sectionneur de charge                           |
| ETIM 7                            | EC000216 - Switch disconnecter                             |
| ETIM 8                            | EC000216 - Switch disconnecter                             |
| ETIM 9                            | EC000216 - Switch disconnecter (low voltage)               |
| UNSPSC                            | 39122233                                                   |
| eClass                            | V11.1 : 27371403                                           |
| Catégorie DEEE                    | 5. Small Equipment (No External Dimension More Than 50 cm) |

## Catégories

Produits basse tension → Interrupteurs → DC Switch-Disconnectors

