

## PRODUCT-DETAILS

# OTDC500FV11K

## OTDC500FV11K DC Switch-disconnector



### Ogólne informacje

|                       |                                     |
|-----------------------|-------------------------------------|
| Extended Product Type | OTDC500FV11K                        |
| ID Produktu           | 1SCA158276R1001                     |
| Numer EAN             | 6417019873817                       |
| Opis katalogowy       | OTDC500FV11K DC Switch-disconnector |

|      |                                                                                                                                                                                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Opis | A fully optimized two-pole DC switch-disconnector for 1500V 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 to help manufacturers adapt to the industry's rapid adoption of 1500V DC solutions. |
|      | The two-pole 1500V DC concept helps manufacturers improve system efficiency, reducing switch losses by up to 35 percent. Measuring just 150mm wide and 122mm high, the OTDC range of 1500V DC switches is also up to 30 percent smaller than conventional solutions.                                               |
|      | The compact size of the new OTDC range makes it possible for manufacturers to reduce the size of combiner boxes and inverters.                                                                                                                                                                                     |
|      | Main characteristics for this particular OTDC type:<br>Disconnect single PV circuit, Approved according to IEC 60947-1, -3                                                                                                                                                                                         |

### Charakterystyka zamówienia

|                            |                |
|----------------------------|----------------|
| Minimalna ilość zamówienia | 1 sztuka       |
| Kod taryfy celnej          | 85353010       |
| Kraj pochodzenia           | Finlandia (FI) |

## Najczęściej Pobierane

|                                       |                                              |
|---------------------------------------|----------------------------------------------|
| Arkusze danych, informacja techniczna | 1SCC301022C0201                              |
| Instrukcje i podręczniki              | 1SCC301099M0201<br>9AKK107492A6191           |
| Rysunki mechaniczne                   | OTDC315-630FV11K_stp<br>OTDC315-630FV11K_igs |
| Diagram okablowania                   | 1SCC301030K0201                              |

## Wymiary

|                          |                    |
|--------------------------|--------------------|
| Rozmiar obudowy produktu | M                  |
| Szerokość produktu netto | 177.5 mm<br>7 in   |
| Wysokość produktu netto  | 211 mm<br>8.3 in   |
| Głębokość produktu netto | 169.5 mm<br>6.7 in |
| Waga produktu netto      | 3.8 kg<br>8.4 lb   |

## Dane techniczne

|                                                            |                                    |
|------------------------------------------------------------|------------------------------------|
| Konfiguracja Podłączenia                                   | Single circuit 2a, 2b              |
| Znamionowy prąd pracy DC-21B ( $I_e$ )                     | (1500 V) 500 A                     |
| Rated Operational Current DC-22B                           | (1500 V) 400 A                     |
| Rated Operational Current DC-PV1                           | (1500 V) 500 A                     |
| Rated Operational Current DC-PV2                           | (1500 V) 500 A                     |
| Prąd przy chłodzeniu konwencjonalnym ( $I_{th}$ )          | 500 A                              |
| Conventional Thermal Current ( $I_{the}$ )                 | Fully Enclosed 500 A               |
| Znamionowa wytrzymałość na impuls napięciowy ( $U_{imp}$ ) | 12 kV                              |
| Znamionowe napięcie izolacji ( $U_i$ )                     | 1500 V                             |
| Znamionowe napięcie pracy                                  | 1500 V                             |
| Znamionowa zdolność załączania na zwarcie ( $I_{cm}$ )     | (1500 V DC) 10 kA                  |
| Znamionowy prąd zwarciaowy wytrzymały ( $I_{cw}$ )         | (1500 V DC) 10 kA<br>for 1 s 10 kA |
| Straty mocy                                                | na biegun 20 W                     |
| Stopień zanieczyszczenia                                   | 3                                  |
| Handle Color                                               | Czarny                             |

|                              |                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handle Length                | 95 mm<br>3.7 in                                                                                                                                                                                                                                                                                                                                                                            |
| Handle Type                  | Direct mounted handle                                                                                                                                                                                                                                                                                                                                                                      |
| Shaft Diameter               | 12 mm<br>0.47 in                                                                                                                                                                                                                                                                                                                                                                           |
| Shaft Length                 | 160 mm<br>6.3 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                                                                                                                                                                                                                                                                                                                                                 |
| Operating Mode               | Front Operated                                                                                                                                                                                                                                                                                                                                                                             |
| Standardy                    | IEC 60947-1, -3                                                                                                                                                                                                                                                                                                                                                                            |
| Funkcje specjalne            | No                                                                                                                                                                                                                                                                                                                                                                                         |
| Rodzaj montażu               | Base mounting                                                                                                                                                                                                                                                                                                                                                                              |
| Number of Circuits           | 1                                                                                                                                                                                                                                                                                                                                                                                          |
| Liczba biegunów              | 2                                                                                                                                                                                                                                                                                                                                                                                          |
| Stopień ochrony obudowy      | Front IP20                                                                                                                                                                                                                                                                                                                                                                                 |
| Typ terminala                | Lug terminals                                                                                                                                                                                                                                                                                                                                                                              |
| Terminal Width               | 30 mm<br>1.2 in                                                                                                                                                                                                                                                                                                                                                                            |
| Momenty dokrecające          | Cable Lug 30...40 N·m                                                                                                                                                                                                                                                                                                                                                                      |
| Wytrzymałość mechaniczna     | 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) |

## Normy środowiskowe

|             |                                   |
|-------------|-----------------------------------|
| Status RoHS | Following EU Directive 2011/65/EU |
|-------------|-----------------------------------|

## Certyfikaty i deklaracje (Numer dokumentu)

|                           |                                    |
|---------------------------|------------------------------------|
| Certyfikat CCC            | CQC2019010302206498                |
| Deklaracja zgodności - CE | 1SCC301227D2701                    |
| DNV GL Certificate        | 1SCC301231D0201                    |
| Instrukcje i podręczniki  | 1SCC301099M0201<br>9AKK107492A6191 |
| Dane RoHS                 | 1SCC301227D2701                    |

## Informacje o pakowaniu

|                                 |                  |
|---------------------------------|------------------|
| Jednostka opakowania (poziom 1) | box 1 sztuka     |
| Szerokość opakowania (poziom 1) | 220 mm<br>8.7 in |
| Długość opakowania              | 250 mm           |

|                           |               |
|---------------------------|---------------|
| (poziom 1)                | 9.8 in        |
| Wysokość opakowania       | 210 mm        |
| (poziom 1)                | 8.3 in        |
| Waga opakowania brutto    | 4.1 kg        |
| (poziom 1)                | 9 lb          |
| EAN opakowania (poziom 1) | 6417019873817 |

Klasyfikacje

|                  |                                                            |
|------------------|------------------------------------------------------------|
| Kod klasyfikacji | Q                                                          |
| ETIM 5           | EC000216 - Switch disconnecter                             |
| ETIM 6           | EC000216 - Switch disconnecter                             |
| ETIM 7           | EC000216 - Switch disconnecter                             |
| WEEE Category    | 5. Small Equipment (No External Dimension More Than 50 cm) |

Kategorie

Produkty niskiego napięcia i systemy → Rozłączniki → DC Switch-Disconnectors

