

## PRODUCT-DETAILS

# OTDC250UFV22

## OTDC250UFV22 PV Disconnect Switch



### Ogólne informacje

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | OTDC250UFV22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ID Produktu           | 1SCA158293R1001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Numer EAN             | 6417019873985                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Opis katalogowy       | OTDC250UFV22 PV Disconnect Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Opis                  | <p>A fully optimized four-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.</p> <p>The four-pole 1500V DC concept helps manufacturers improve system efficiency, reducing switch losses. 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 of this particular OTDC type:<br/>Disconnect single PV circuit, Approved according to UL98B and IEC 60947-1,-3</p> |

### Charakterystyka zamówienia

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

### Najczęściej Pobierane

|                                      |                                                                                    |
|--------------------------------------|------------------------------------------------------------------------------------|
| Arkusz danych, informacja techniczna | 1SCC301022C0201                                                                    |
| Instrukcje i podręczniki             | 1SCC301099M0201<br>9AKK107492A6191                                                 |
| Rysunki mechaniczne                  | OTDC250-600UFV22_stp<br>OTDC250-600UFV22_igs<br>1SCC307664F0001<br>1SCC307665F0001 |
| Diagram okablowania                  | 1SCC301035K0201                                                                    |

## Wymiary

|                          |                     |
|--------------------------|---------------------|
| Rozmiar obudowy produktu | M                   |
| Szerokość produktu netto | 255.5 mm<br>10.1 in |
| Wysokość produktu netto  | 211 mm<br>8.3 in    |
| Głębokość produktu netto | 135 mm<br>5.3 in    |
| Waga produktu netto      | 7.5 kg<br>16.5 lb   |

## Dane techniczne

|                                                            |                                    |
|------------------------------------------------------------|------------------------------------|
| Konfiguracja Podłączenia                                   | Double circuit 4a, 4c              |
| Znamionowy prąd pracy DC-21B ( $I_e$ )                     | (1500 V) 315 A                     |
| Rated Operational Current DC-22B                           | (1500 V) 315 A                     |
| Rated Operational Current DC-PV1                           | (1500 V) 315 A                     |
| Rated Operational Current DC-PV2                           | (1500 V) 315 A                     |
| Prąd przy chłodzeniu konwencjonalnym ( $I_{th}$ )          | 315 A                              |
| Conventional Thermal Current ( $I_{the}$ )                 | Fully Enclosed 315 A               |
| Znamionowa wytrzymałość na impuls napięciowy ( $U_{imp}$ ) | 12 kV                              |
| Znamionowe napięcie izolacji ( $U_i$ )                     | 1500 V                             |
| Znamionowe napięcie pracy                                  | 1500 V                             |
| Znamionowa zdolność złączania 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 |
| Rodzaj zabezpieczeń                                        | Circuit breaker                    |
| Straty mocy                                                | na biegun 8 W                      |
| Stopień zanieczyszczenia                                   | 3                                  |

|                              |                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handle Type                  | Handle and shaft not included                                                                                                                                                                                                                                                                                                                                                              |
| Shaft Diameter               | 12 mm<br>0.47 in                                                                                                                                                                                                                                                                                                                                                                           |
| Switches Operating Mechanism | Mechanism Between the Poles<br>22 (Between the Poles)                                                                                                                                                                                                                                                                                                                                      |
| Position of Line Terminals   | Top In - Bottom Out<br>Bottom In - Top Out                                                                                                                                                                                                                                                                                                                                                 |
| Operating Mode               | Front Operated                                                                                                                                                                                                                                                                                                                                                                             |
| Standardy                    | UL98B and IEC 60947-1, -3                                                                                                                                                                                                                                                                                                                                                                  |
| Funkcje specjalne            | No                                                                                                                                                                                                                                                                                                                                                                                         |
| Rodzaj montażu               | Base mounting                                                                                                                                                                                                                                                                                                                                                                              |
| Number of Circuits           | 2                                                                                                                                                                                                                                                                                                                                                                                          |
| Liczba biegunów              | 4                                                                                                                                                                                                                                                                                                                                                                                          |
| 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) |

## Technical UL/CSA

|                                    |                                                     |
|------------------------------------|-----------------------------------------------------|
| Maksymalne napięcie robocze UL/CSA | 1500 V DC                                           |
| Napięcie znamionowe UL/CSA         | 1500VDC 250 A                                       |
| Momenty dokrecające UL/CSA         | Cable Lug 30...44 N·m<br>Cable Lug 266...390 lbf·in |

## 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                    |
| UL Certificate            | UL certificate OTDC250-1000UF      |

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## Informacje o pakowaniu

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|                                      |                   |
|--------------------------------------|-------------------|
| Jednostka opakowania<br>(poziom 1)   | box 1 sztuka      |
| Szerokość opakowania<br>(poziom 1)   | 270 mm<br>10.6 in |
| Długość opakowania<br>(poziom 1)     | 310 mm<br>12.2 in |
| Wysokość opakowania<br>(poziom 1)    | 200 mm<br>7.9 in  |
| Waga opakowania brutto<br>(poziom 1) | 7.8 kg<br>17.1 lb |
| EAN opakowania (poziom<br>1)         | 6417019873985     |

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## Klasyfikacje

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|                  |                                                            |
|------------------|------------------------------------------------------------|
| Kod klasyfikacji | Q                                                          |
| ETIM 5           | EC000216 - Switch disconnecter                             |
| ETIM 6           | EC000216 - Switch disconnecter                             |
| ETIM 7           | EC000216 - Switch disconnecter                             |
| UNSPSC           | 39122233                                                   |
| WEEE Category    | 5. Small Equipment (No External Dimension More Than 50 cm) |

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## Kategorie

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Produkty niskiego napięcia i systemy → Industries → Solar power → 1500V DC

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

