

## PRODUCT-DETAILS

# DS201 C16 APR300

## DS201 C16 APR300 Residual Current Circuit Breaker with Overcurrent Protection



### General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | DS201 C16 APR300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product ID            | 2CSR255480R3164                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EAN                   | 8012542659310                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Catalog Description   | DS201 C16 APR300 Residual Current Circuit Breaker with Overcurrent Protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Long Description      | <p>The DS201 series is a 1P+N RCBO in two-modules width for the protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with sensitivity = 30 mA). The APR type provides an optimal trade-off between safety and continuity of service, thanks to the resistance to unwanted trippings, offering good protection and isolation of resistive and inductive loads.</p> |

### Technical

|                                    |                                                              |
|------------------------------------|--------------------------------------------------------------|
| Standards                          | IEC/EN 61009-1, IEC/EN 61009-2-1                             |
| Product Name                       | Residual Current Circuit Breaker with Overcurrent Protection |
| Tripping Characteristic            | C                                                            |
| Type of Residual Current           | A type                                                       |
| Rated Voltage ( $U_r$ )            | 230 V                                                        |
| Rated Operational Voltage          | 230 ... 240 V AC                                             |
| Rated Insulation Voltage ( $U_i$ ) | 500 V                                                        |

|                                                             |                                                                                                                                                                                        |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Voltage (Ut)                                           | 110 ... 264 V                                                                                                                                                                          |
| Dielectric Test Voltage                                     | 2 kV                                                                                                                                                                                   |
| Primary Rated Impulse Withstand Voltage                     | 4 kV                                                                                                                                                                                   |
| Input Voltage Type                                          | AC                                                                                                                                                                                     |
| Rated Current ( $I_n$ )                                     | 16 A                                                                                                                                                                                   |
| Rated Residual Current                                      | 300 mA                                                                                                                                                                                 |
| Rated Short-Circuit Capacity ( $I_{cn}$ )                   | 6 kA                                                                                                                                                                                   |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | 10 kA                                                                                                                                                                                  |
| Rated Residual Breaking Capacity ( $I_{\Delta m}$ )         | EN 61009-1 6000 A<br>IEC 61009-1 6000 A                                                                                                                                                |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ )        | 10 kA                                                                                                                                                                                  |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | 7.5 kA                                                                                                                                                                                 |
| Maximum Surge Current                                       | 3 kA                                                                                                                                                                                   |
| Frequency (f)                                               | 50/60 Hz                                                                                                                                                                               |
| Rated Frequency (f)                                         | 50/60 Hz                                                                                                                                                                               |
| Power Loss                                                  | 3.3 W                                                                                                                                                                                  |
| Power Supply Connection                                     | Arbitrary                                                                                                                                                                              |
| Contact Position Indication                                 | Red ON / Green OFF                                                                                                                                                                     |
| Energy Limiting Class                                       | 3                                                                                                                                                                                      |
| Electrical Endurance                                        | 10000 cycle<br>20000 cycle                                                                                                                                                             |
| Number of Poles                                             | 2                                                                                                                                                                                      |
| Number of Protected Poles                                   | 1                                                                                                                                                                                      |
| Number of Modular Spacings per DIN Rail                     | 2                                                                                                                                                                                      |
| Fault Indication                                            | Blue flag on toggle                                                                                                                                                                    |
| Operating Characteristic                                    | Instantaneous (APR High Immunity)                                                                                                                                                      |
| Overvoltage Category                                        | III                                                                                                                                                                                    |
| Position of Neutral Terminals                               | Right                                                                                                                                                                                  |
| Tightening Torque                                           | 2.8 N·m                                                                                                                                                                                |
| Accessory Type                                              | Auxiliary contact<br>Signal contact / auxiliary contact<br>Shunt trip<br>Auxiliary contact for bottom fitting<br>Undervoltage release<br>Overvoltage release<br>Motor operating device |
| Actuator Type                                               | Toggle - Insulation group II, Black RAL 9005, sealable in ON-OFF positions                                                                                                             |
| Housing Type                                                | Insulation group I - II, RAL 7035                                                                                                                                                      |
| Mounting Type                                               | on DIN rail EN 60715 (35mm) by means of mounting clip                                                                                                                                  |
| Release Type                                                | C                                                                                                                                                                                      |
| Screw Terminal Type                                         | Failsafe Bi-directional Cylinder-lift Terminal                                                                                                                                         |
| Mounting Position                                           | Any                                                                                                                                                                                    |

|                                      |                                                                                                                       |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Accessories Available                | Yes                                                                                                                   |
| Surge Immunity acc. to IEC 61000-4-5 | 3000 A                                                                                                                |
| Number of Batteries                  | 0                                                                                                                     |
| Cable Size                           | 25 mm²                                                                                                                |
| Connecting Capacity                  | Busbar 10 ... 10 mm²<br>Stranded 0.75 ... 25 mm²<br>Flexible with Ferrule 0.75 ... 16 mm²<br>Flexible 0.75 ... 16 mm² |
| Wire Stripping Length                | 12 mm                                                                                                                 |
| Terminal Type                        | Screw Terminals                                                                                                       |

## Environmental

|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| Ambient Temperature                            | -25...55 °C                                               |
| Ambient Air Temperature                        | Operation -25...55 °C                                     |
| Reference Ambient Air Temperature              | 30 °C                                                     |
| Degree of Protection                           | Terminals IP20<br>Housing IP40                            |
| Pollution Degree                               | 2                                                         |
| Environmental Conditions                       | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 0.1 mm or 1 g - 20 cycles at 5...150...5 Hz               |
| Resistance to Shock acc. to IEC 60068-2-27     | 25g / 2 shocks / 13 ms                                    |
| Environmental Information                      | 2CSC422002K2701                                           |

## Technical UL/CSA

|                                     |       |
|-------------------------------------|-------|
| Short-Circuit Current Rating (SCCR) | 0.3 A |
|-------------------------------------|-------|

## Dimensions

|                                     |          |
|-------------------------------------|----------|
| Width in Number of Modular Spacings | 2        |
| Product Net Width                   | 0.035 m  |
| Product Net Height                  | 0.085 m  |
| Product Net Depth / Length          | 0.069 m  |
| Product Net Weight                  | 0.200 kg |
| Built-In Depth (t <sub>2</sub> )    | 69 mm    |

## Container Information

|                        |             |
|------------------------|-------------|
| Package Level 1 Units  | box 1 piece |
| Package Level 1 Width  | 40 mm       |
| Package Level 1 Height | 106 mm      |

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Depth / Length | 80 mm         |
| Package Level 1 Gross Weight   | 225 g         |
| Package Level 1 EAN            | 8012542659310 |
| Package Level 2 Units          | box 5 piece   |
| Package Level 2 Width          | 200 mm        |
| Package Level 2 Height         | 106 mm        |
| Package Level 2 Depth / Length | 80 mm         |
| Package Level 2 Gross Weight   | 1125 g        |
| Package Level 2 EAN            | 8012542041818 |

---

## Ordering

|                         |            |
|-------------------------|------------|
| Minimum Order Quantity  | 1 piece    |
| Customs Tariff Number   | 85363010   |
| E-Number (Sweden)       | 2100513    |
| Country of Origin       | Italy (IT) |
| Selling Unit of Measure | piece      |

---

## Certificates and Declarations (Document Number)

|                                |                                    |
|--------------------------------|------------------------------------|
| ABS Certificate                | 9AKK107991A2823                    |
| CB Certificate                 | 9AKK107492A6060                    |
| CCC Certificate                | 9AKK107492A6067                    |
| Declaration of Conformity - CE | 9AKK106713A5588                    |
| DNV GL Certificate             | 9AKK107680A3457<br>9AKK107680A3456 |
| EAC Certificate                | 9AKK107492A6071<br>9AKK107991A7755 |
| Environmental Information      | 2CSC422002K2701                    |
| GOST Certificate               | 9AKK107992A1640                    |
| Instructions and Manuals       | 9AKK107492A6006                    |
| KEMA Certificate               | 9AKK107492A6076                    |
| ÖVE Certificate                | 9AKK107492A6085                    |
| RMRS Certificate               | 9AKK107680A3454<br>9AKK107680A3455 |
| RoHS Information               | 2CSC422002K2701                    |
| VDE Certificate                | 9AKK107492A6092                    |

---

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 9AKK107492A6187 |
| Instructions and Manuals          | 9AKK107492A6006 |
| EPLAN Macro                       | 9AKK107680A0597 |

## Classifications

|                            |                                                                                    |
|----------------------------|------------------------------------------------------------------------------------|
| ETIM 6                     | EC000905 - Earth leakage circuit breaker                                           |
| ETIM 7                     | EC000905 - Earth leakage circuit breaker                                           |
| ETIM 8                     | EC000905 - Earth leakage circuit breaker                                           |
| EPLAN Catalog Tree         | Electrical engineering / Protection devices / Ground fault current circuit breaker |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm)                         |
| WEEE B2C / B2B             | Business To Consumer                                                               |
| CN8                        | 85363010                                                                           |
| Object Classification Code | F                                                                                  |

## Accessories

| Identifier      | Description                                       | Type          | Quantity | Unit Of Measure |
|-----------------|---------------------------------------------------|---------------|----------|-----------------|
| 2CDS200912R0001 | S2C-H6R S2C - H 6R- 1NA+1NC (1/2 mod.)            | S2C-H6R       | 1        | piece           |
| 2CDS200922R0001 | S2C-S/H6R S2C - S/H 6R- 1NA+1NC (1/2 mod.)        | S2C-S/H6R     | 1        | piece           |
| 2CDS200946R0001 | S2C-H6-11R Auxiliary Contact                      | S2C-H6-11R    | 1        | piece           |
| 2CDS200946R0002 | S2C-H6-20R Auxiliary Contact                      | S2C-H6-20R    | 1        | piece           |
| 2CDS200946R0003 | S2C-H6-02R Auxiliary Contact                      | S2C-H6-02R    | 1        | piece           |
| 2CDS200970R0031 | S2C-H01 Auxiliary Contact                         | S2C-H01       | 1        | piece           |
| 2CDS200970R0032 | S2C-H10 Auxiliary Contact                         | S2C-H10       | 1        | piece           |
| 2CSS200910R0005 | S2C-OVP1 Overvoltage release                      | S2C-OVP1      | 1        | piece           |
| 2CSS200911R0002 | S2C-UA 24 AC S2C - UA 24 AC- 24V c.a. (1 mod.)    | S2C-UA 24 AC  | 1        | piece           |
| 2CSS200911R0003 | S2C-UA 48 AC S2C - UA 48 AC- 48V c.a. (1 mod.)    | S2C-UA 48 AC  | 1        | piece           |
| 2CSS200911R0004 | S2C-UA 110 AC S2C - UA 110 AC- 110V c.a. (1 mod.) | S2C-UA 110 AC | 1        | piece           |
| 2CSS200911R0005 | S2C-UA 230 AC S2C - UA 230 AC- 230V c.a. (1 mod.) | S2C-UA 230 AC | 1        | piece           |
| 2CSS200933R0011 | F2C-A1 F2C-A1                                     | F2C-A1        | 1        | piece           |
| 2CSS200933R0012 | F2C-A2 F2C-A2                                     | F2C-A2        | 1        | piece           |
| 2CSS200993R0005 | S2C-OVP2 Overvoltage release                      | S2C-OVP2      | 1        | piece           |
| 2CSS203997R0013 | S2C-CM2/3 S2C-CM2/3-S200 2P-3P                    | S2C-CM2/3     | 1        | piece           |

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Residual Current Devices RCDs → Residual Current Circuit Breakers with Overcurrent Protection RCBO

