

## PRODUCT-DETAILS

# DS203NC L C20 APR30

## DS203NC L C20 APR30 Residual Current Circuit Breaker with Overcurrent Protection



### General Information

|                       |                                                                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | DS203NC L C20 APR30                                                                                                                                                                                                                                                         |
| Product ID            | 2CSR246440R1204                                                                                                                                                                                                                                                             |
| EAN                   | 8012542078623                                                                                                                                                                                                                                                               |
| Catalog Description   | DS203NC L C20 APR30 Residual Current Circuit Breaker with Overcurrent Protection                                                                                                                                                                                            |
| Long Description      | DS203NC is a 3P+N residual current circuit breaker with overcurrent protection (RCBO) in four modules for the protection against short-circuit currents, overload, earth fault currents, indirect contacts, additional protection against direct contacts (30 mA versions). |

### Technical

|                                    |                                                              |
|------------------------------------|--------------------------------------------------------------|
| Standards                          | IEC 61009-1<br>IEC 61009-2-1<br>EN 61009-1<br>EN 61009-2-1   |
| Product Name                       | Residual Current Circuit Breaker with Overcurrent Protection |
| Tripping Characteristic            | C                                                            |
| Type of Residual Current           | A type                                                       |
| Rated Voltage ( $U_r$ )            | 400-415 V AC                                                 |
| Rated Operational Voltage          | 400 ... 415 V AC                                             |
| Rated Insulation Voltage ( $U_i$ ) | 500 V                                                        |

|                                                                              |                                                                                                    |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Rated Impulse Withstand Voltage ( $U_{imp}$ )                                | 4 kV                                                                                               |
| Input Voltage Type                                                           | AC                                                                                                 |
| Rated Current ( $I_n$ )                                                      | 20 A                                                                                               |
| Rated Residual Current                                                       | 30 mA                                                                                              |
| Rated Short-Circuit Capacity ( $I_{cn}$ )                                    | (230 / 400 V AC) 4.5 kA                                                                            |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ )                  | 6 kA                                                                                               |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ )                         | 6 kA                                                                                               |
| Rated Service Short-Circuit Breaking Capacity, in % of $I_{cu}$ ( $I_{cs}$ ) | 4.5 kA                                                                                             |
| Maximum Surge Current                                                        | 3 kA                                                                                               |
| Leakage Current Type                                                         | A                                                                                                  |
| Frequency (f)                                                                | 50/60 Hz                                                                                           |
| Rated Frequency (f)                                                          | 50/60 Hz                                                                                           |
| Power Loss                                                                   | 11.8 W                                                                                             |
| Power Supply Connection                                                      | Arbitrary                                                                                          |
| Energy Limiting Class                                                        | 3                                                                                                  |
| Electrical Endurance                                                         | 10000 cycle<br>20000 cycle                                                                         |
| Number of Poles                                                              | 4                                                                                                  |
| Number of Protected Poles                                                    | 3                                                                                                  |
| Operating Characteristic                                                     | Instantaneous (APR High Immunity)                                                                  |
| Overvoltage Category                                                         | III                                                                                                |
| Position of Neutral Terminals                                                | Right                                                                                              |
| Earthing Switch Type                                                         | Short-Time Delayed                                                                                 |
| Release Type                                                                 | C                                                                                                  |
| Options Provided                                                             | None                                                                                               |
| Accessories Available                                                        | Yes                                                                                                |
| Connecting Capacity                                                          | Busbar 10 mm <sup>2</sup><br>Rigid 25 ... 25 mm <sup>2</sup><br>Flexible 25 ... 25 mm <sup>2</sup> |
| Rated Cross-Section                                                          | 4 - Multi-Wired 1...25 mm <sup>2</sup><br>1 - Solid-Core 25...25 mm <sup>2</sup>                   |

## Environmental

|                           |                                   |
|---------------------------|-----------------------------------|
| Ambient Temperature       | -25...55 °C                       |
| Ambient Air Temperature   | Operation -25...55 °C             |
| Degree of Protection      | IP2X                              |
| Pollution Degree          | 2                                 |
| RoHS Status               | Following EU Directive 2011/65/EU |
| Environmental Information | refer to RoHS information         |

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## Technical UL/CSA

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|                                        |        |
|----------------------------------------|--------|
| Short-Circuit Current<br>Rating (SCCR) | 0.03 A |
|----------------------------------------|--------|

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## Dimensions

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|----------------------------------------|----------|
| Width in Number of<br>Modular Spacings | 4        |
| Product Net Width                      | 0.071 m  |
| Product Net Height                     | 0.085 m  |
| Product Net Depth /<br>Length          | 0.069 m  |
| Product Net Weight                     | 0.480 kg |
| Built-In Depth (t <sub>2</sub> )       | 69 mm    |

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## Container Information

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|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | box 1 piece   |
| Package Level 1 Width             | 0.076 m       |
| Package Level 1 Height            | 0.096 m       |
| Package Level 1 Depth /<br>Length | 0.073 m       |
| Package Level 1 Gross<br>Weight   | 0.530 kg      |
| Package Level 1 EAN               | 8012542078623 |

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## Ordering

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|                         |            |
|-------------------------|------------|
| Minimum Order Quantity  | 1 piece    |
| Customs Tariff Number   | 85363030   |
| Country of Origin       | Italy (IT) |
| Selling Unit of Measure | piece      |

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## Certificates and Declarations (Document Number)

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|-----------------------------------|---------------------------|
| CCC Certificate                   | 2021980307001650          |
| Declaration of Conformity<br>- CE | 9AKK106713A5597           |
| Environmental Information         | refer to RoHS information |
| Instructions and Manuals          | 9AKK106713A8790           |
| RoHS Information                  | 9AKK106713A8875           |

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## Popular Downloads

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|                                      |                 |
|--------------------------------------|-----------------|
| Data Sheet, Technical<br>Information | 2CSC423030B0201 |
| Instructions and Manuals             | 9AKK106713A8790 |

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## Classifications

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| ETIM 6                     | EC000905 - Earth leakage circuit breaker                   |
| ETIM 7                     | EC000905 - Earth leakage circuit breaker                   |
| ETIM 8                     | EC000905 - Earth leakage circuit breaker                   |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B             | Business To Consumer                                       |
| CN8                        | 85363030                                                   |
| 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           |
| 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           |
| 2CSS200911R0006 | S2C-UA 400 AC S2C - UA 400 AC- 400V c.a. (1 mod.) | S2C-UA 400 AC | 1        | piece           |
| 2CSS200923R0001 | SN201-IH SN201-IH - 1NA+1NC (1/2 mod.)            | SN201-IH      | 1        | piece           |
| 2CSS200924R0001 | SN201-S SN201-S - 1NA+1NC (1/2 mod.)              | SN201-S       | 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           |

## Categories

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

