

## PRODUCT-DETAILS

# DS201 K20 A30

# DS201 K20 A30 - RCBO



## General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | DS201 K20 A30                                                                                                                                                                                                                                                                                                                                                                 |
| Product ID            | 2CSR255180R1207                                                                                                                                                                                                                                                                                                                                                               |
| EAN                   | 8012542586814                                                                                                                                                                                                                                                                                                                                                                 |
| Catalog Description   | DS201 K20 A30 - RCBO                                                                                                                                                                                                                                                                                                                                                          |
| Long Description      | 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). |

## Technical

|                           |                                  |
|---------------------------|----------------------------------|
| Standards                 | IEC/EN 61009-1, IEC/EN 61009-2-1 |
| Operating Characteristic  | Instantaneous                    |
| Type of Residual Current  | A type                           |
| Number of Poles           | 2                                |
| Number of Protected Poles | 1                                |
| Rated Current ( $I_n$ )   | 20 A                             |
| Rated Current Sensitivity | 0.03 A                           |
| Rated Voltage ( $U_r$ )   | 230 V                            |
| Rated Insulation Voltage  | 500 V                            |

(U<sub>I</sub>)

|                                                                   |                                                                                                                   |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Overvoltage Category                                              | III                                                                                                               |
| Pollution Degree                                                  | 2                                                                                                                 |
| Test Voltage (U <sub>t</sub> )                                    | 170 ... 264 V                                                                                                     |
| Rated Frequency (f)                                               | 50/60 Hz                                                                                                          |
| Rated Short-Circuit Capacity (I <sub>cn</sub> )                   | 6 kA                                                                                                              |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | 10 kA                                                                                                             |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | 7.5 kA                                                                                                            |
| Rated Residual Breaking Capacity (I <sub>Δm</sub> )               | EN 61009-1 6000 A<br>IEC 61009-1 6000 A                                                                           |
| Primary Rated Impulse Withstand Voltage                           | 4 kV                                                                                                              |
| Dielectric Test Voltage                                           | 2.5 kV                                                                                                            |
| Tripping Characteristic                                           | K                                                                                                                 |
| Energy Limiting Class                                             | 3                                                                                                                 |
| Housing Type                                                      | Insulation group I - II, RAL 7035                                                                                 |
| Actuator Type                                                     | Toggle - Insulation group II, Black RAL 9005, sealable in ON-OFF positions                                        |
| Contact Position Indication                                       | Red ON / Green OFF                                                                                                |
| Fault Indication                                                  | Blue flag on toggle                                                                                               |
| Electrical Endurance                                              | 10000 cycle<br>20000 cycle                                                                                        |
| Degree of Protection                                              | Terminals IP20<br>Housing IP40                                                                                    |
| Resistance to Shock acc. to IEC 60068-2-27                        | 25g / 2 shocks / 13 ms                                                                                            |
| Resistance to Vibrations acc. to IEC 60068-2-6                    | 0.1 mm or 1 g - 20 cycles at 5...150...5 Hz                                                                       |
| Environmental Conditions                                          | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 %                                                         |
| Reference Ambient Air Temperature                                 | 20 °C                                                                                                             |
| Terminal Type                                                     | Screw Terminals                                                                                                   |
| Screw Terminal Type                                               | Failsafe Bi-directional Cylinder-lift Terminal                                                                    |
| 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 |
| Tightening Torque                                                 | 2.8 N·m                                                                                                           |
| Wire Stripping Length                                             | 12 mm                                                                                                             |
| Mounting Type                                                     | on DIN rail EN 60715 (35mm) by means of mounting clip                                                             |
| Mounting Position                                                 | Any                                                                                                               |
| Power Supply Connection                                           | Arbitrary                                                                                                         |
| Position of Neutral Terminals                                     | Right                                                                                                             |
| Power Loss                                                        | 3.6 W                                                                                                             |

|                                         |                                                                                                                                                                                        |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Modular Spacings per DIN Rail | 2                                                                                                                                                                                      |
| 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 |

## Environmental

|                         |                       |
|-------------------------|-----------------------|
| Ambient Air Temperature | Operation -25...55 °C |
|-------------------------|-----------------------|

## Technical UL/CSA

|                                     |        |
|-------------------------------------|--------|
| Short-Circuit Current Rating (SCCR) | 0.03 A |
|-------------------------------------|--------|

## Dimensions

|                            |          |
|----------------------------|----------|
| 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 |

## 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            | 8012542586814 |
| Package Level 2 Units          | 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            | 8012542037712 |

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85363030 |
| E-Number (Sweden)      | 2100539  |

E-Number (Finland)

3211183

Certificates and Declarations (Document Number)

|                                   |                 |
|-----------------------------------|-----------------|
| CB Certificate                    | 9AKK107492A6060 |
| Declaration of Conformity<br>- CE | 9AKK106713A5588 |
| Environmental Information         | 2CSC422002K2701 |
| Instructions and Manuals          | 9AKK107492A6006 |
| ÖVE Certificate                   | 9AKK107492A6085 |
| RoHS Information                  | 2CSC422002K2701 |

Popular Downloads

|                                      |                 |
|--------------------------------------|-----------------|
| Data Sheet, Technical<br>Information | 9AKK107492A6187 |
| Instructions and Manuals             | 9AKK107492A6006 |

Classifications

|                            |                                          |
|----------------------------|------------------------------------------|
| Object Classification Code | Q                                        |
| ETIM 6                     | EC000905 - Earth leakage circuit breaker |
| ETIM 7                     | EC000905 - Earth leakage circuit breaker |

Categories

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

