



PRODUCT-DETAILS

# S204L-C40

## S204L-C40 Miniature Circuit Breaker - 4P - C - 40 A



| General Information   |                                                     |
|-----------------------|-----------------------------------------------------|
| Extended Product Type | S204L-C40                                           |
| Product ID            | 2CDS244701R0404                                     |
| EAN                   | 4016779598705                                       |
| Catalog Description   | S204L-C40 Miniature Circuit Breaker - 4P - C - 40 A |
| Long Description      | S204L-C 40 MiniCircuitBreaker C-Char.,4,5kA,40A,4P  |

| Technical                                  |                                                                                           |
|--------------------------------------------|-------------------------------------------------------------------------------------------|
| Standards                                  | IEC/EN 60898-1<br>IEC/EN 60947-2                                                          |
| Tripping Characteristic                    | C                                                                                         |
| Rated Operational Voltage                  | acc. to IEC 60898-1 400 V AC<br>acc. to IEC 60898-1 400 V<br>acc. to IEC 60947-2 400 V AC |
| Operational Voltage                        | Maximum (Incl. Tolerance) 440 V AC<br>Minimum 12 V AC                                     |
| Rated Insulation Voltage (U <sub>i</sub> ) | acc. to IEC/EN 60664-1 440 V                                                              |
| Rated Impulse                              | 4 kV                                                                                      |

|                                                             |                                                                                                                                                                                                          |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Withstand Voltage ( $U_{imp}$ )                             | at 2000 m 5 kV<br>at Sea Level 6.2 kV                                                                                                                                                                    |
| Dielectric Test Voltage                                     | 50/60 Hz, 1 min: 2 kV                                                                                                                                                                                    |
| Input Voltage Type                                          | AC                                                                                                                                                                                                       |
| Rated Current ( $I_n$ )                                     | 40 A                                                                                                                                                                                                     |
| Rated Short-Circuit Capacity                                | (AC) 4.5 kA<br>(DC) 4.5 kA<br>(400 V AC) 4.5 kA<br>(400 V) 4.5 kA                                                                                                                                        |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (230 V AC) 10 kA<br>(400 V AC) 6 kA<br>(230 V) 10 kA<br>(400 V) 6 kA                                                                                                                                     |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ )        | (400 V) 6 kA                                                                                                                                                                                             |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (230 V AC) 7.5 kA<br>(400 V AC) 4.5 kA                                                                                                                                                                   |
| Rated Frequency (f)                                         | 50 / 60 Hz                                                                                                                                                                                               |
| Power Loss                                                  | 19.2 W<br>at Rated Operating Conditions per Pole 4.8 W                                                                                                                                                   |
| Power Supply Connection                                     | Arbitrary                                                                                                                                                                                                |
| Contact Position Indication                                 | ON / OFF                                                                                                                                                                                                 |
| Energy Limiting Class                                       | 3                                                                                                                                                                                                        |
| Electrical Endurance                                        | 10000 AC cycle                                                                                                                                                                                           |
| Mechanical Endurance                                        | 20000 cycle                                                                                                                                                                                              |
| Number of Protected Poles                                   | 4                                                                                                                                                                                                        |
| Number of Poles                                             | 4                                                                                                                                                                                                        |
| Overvoltage Category                                        | III                                                                                                                                                                                                      |
| Tightening Torque                                           | 2.8 N·m                                                                                                                                                                                                  |
| Actuator Type                                               | Toggle                                                                                                                                                                                                   |
| Mounting Type                                               | DIN-Rail                                                                                                                                                                                                 |
| Screw Terminal Type                                         | Failsafe Bi-directional Cylinder-lift Terminal                                                                                                                                                           |
| Actuator Marking                                            | I / O                                                                                                                                                                                                    |
| Actuator Material                                           | Insulation Group II, Black, Sealable                                                                                                                                                                     |
| Housing Material                                            | Insulation Group I, RAL 7035                                                                                                                                                                             |
| Mounting on DIN Rail                                        | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                                           |
| Mounting Position                                           | any                                                                                                                                                                                                      |
| Recommended Screw Driver                                    | Pozidriv 2                                                                                                                                                                                               |
| Accessories Available                                       | Yes                                                                                                                                                                                                      |
| Connecting Capacity                                         | Busbar 10 / 10 mm <sup>2</sup><br>Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup><br>Flexible 0.75 ... 16 mm <sup>2</sup><br>Rigid 0.75 ... 25 mm <sup>2</sup><br>Stranded 0.75 ... 25 mm <sup>2</sup> |
| Installation Size                                           | acc. to DIN 43880 1                                                                                                                                                                                      |
| Wire Stripping Length                                       | 12.5 mm                                                                                                                                                                                                  |
| Terminal Type                                               | Screw Terminals                                                                                                                                                                                          |

## Material Compliance

|                  |                                                                        |
|------------------|------------------------------------------------------------------------|
| RoHS Information | 2CDK400003K0203                                                        |
| RoHS Status      | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

|                                             |                                                   |
|---------------------------------------------|---------------------------------------------------|
| RoHS Date                                   | 20161001                                          |
| REACH Declaration                           | 9AKK108468A9644                                   |
| REACH Information                           | True - contains substances > 0.1 mass percentage  |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                                   |
| SCIP                                        | e6800e55-46b1-49a3-881b-0f66d0e903ad Germany (DE) |

Environmental

|                                            |                                                           |
|--------------------------------------------|-----------------------------------------------------------|
| Ambient Air Temperature                    | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C        |
| Reference Ambient Air Temperature          | 30 °C                                                     |
| Degree of Protection                       | IP20<br>IP40<br>Enclosure with Cover IP40                 |
| Pollution Degree                           | 3                                                         |
| Environmental Conditions                   | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| Resistance to Vibrations                   | 20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz         |
| Resistance to Shock acc. to IEC 60068-2-27 | 25g 2 shocks 13 ms                                        |
| Environmental Information                  | 2CDK400030D0201                                           |

Technical UL/CSA

|                            |                                       |
|----------------------------|---------------------------------------|
| Connecting Capacity UL/CSA | Busbar 18-8 AWG<br>Conductor 18-4 AWG |
|----------------------------|---------------------------------------|

Dimensions

|                                     |                 |
|-------------------------------------|-----------------|
| Width in Number of Modular Spacings | 4               |
| Product Net Width                   | 70 mm           |
| Product Net Height                  | 85 mm           |
| Product Net Depth / Length          | 69 mm           |
| Product Net Weight                  | 0.5 kg          |
| Pole Net Weight                     | 0.125 kg        |
| Built-In Depth (t <sub>2</sub> )    | 69 mm           |
| Dimension Diagram                   | 2CDC022007F0010 |

Ordering

|                              |                |
|------------------------------|----------------|
| Package Level 1 Units        | carton 1 piece |
| Package Level 1 Gross Weight | 0.51 kg        |

Certificates and Declarations

|                      |           |
|----------------------|-----------|
| Certification Agency | EN<br>IEC |
|----------------------|-----------|

|                                   |                 |
|-----------------------------------|-----------------|
| Declaration of<br>Conformity - CE | 2CDK403001D0607 |
| I <sup>2</sup> t Characteristic   | 9AKK107992A5102 |

Installation

|                             |                 |
|-----------------------------|-----------------|
| Instructions and<br>Manuals | 2CDS207104P0002 |
|-----------------------------|-----------------|

Popular Downloads

|                                      |                 |
|--------------------------------------|-----------------|
| Data Sheet, Technical<br>Information | 9AKK107046A0423 |
| I <sup>2</sup> t Characteristic      | 9AKK107992A5102 |

Classifications

|                                       |                                                            |
|---------------------------------------|------------------------------------------------------------|
| ETIM 8                                | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 9                                | EC000042 - Miniature circuit breaker (MCB)                 |
| WEEE Category                         | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B                        | Business To Business                                       |
| CN8                                   | 8536 20 10                                                 |
| UNSPSC                                | 39121603                                                   |
| eClass                                | V11.0 : 27141901                                           |
| IDEA Granular Category<br>Code (IGCC) | 4897 >> Miniature circuit breakers                         |
| Object Classification<br>Code         | F                                                          |

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs → Miniature Circuit Breakers MCBs

