

## PRODUCT-DETAILS

# S751DR-E20

S751DR-E20 sel. main CB E-Char.,25kA,20A,1P



## General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | S751DR-E20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product ID            | 2CDH781001R0202                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| EAN                   | 4016779838078                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Catalog Description   | S751DR-E20 sel. main CB E-Char.,25kA,20A,1P                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Long Description      | Selective main circuit-breakers of the S 750 DR series are SMCBs based on DIN VDE 0641-21 with voltage-independent operating principle. This means that they do not rely on a control circuit to make or break contact (SHU) and are therefore particularly suitable for use in energy distributionsystems with maximum availability requirements. They offer total selectivity to downstream MCBs and outstanding selectivity to upstream protective devices due to unique current limiting selectivity. |

## Technical

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Standards                                 | DIN VDE 0641-21                              |
| Number of Poles                           | 1                                            |
| Tripping Characteristic                   | E (Selective)                                |
| Rated Current ( $I_n$ )                   | 20 A                                         |
| Rated Operational Voltage                 | 230 / 400 V AC                               |
| Power Loss                                | at Rated Operating Conditions per Pole 5.4 W |
| Rated Insulation Voltage ( $U_i$ )        | acc. to IEC/EN 60664-1 690 V                 |
| Rated Frequency (f)                       | 50 Hz<br>60 Hz                               |
| Rated Short-Circuit Capacity ( $I_{cn}$ ) | (230 / 400 V AC) 25 kA                       |

|                                                     |                                                                                                                                                                    |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Overvoltage Category                                | IV                                                                                                                                                                 |
| Pollution Degree                                    | 3                                                                                                                                                                  |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | 6 kV                                                                                                                                                               |
| Dielectric Test Voltage                             | 50/60 Hz, 1 min: 2 kV                                                                                                                                              |
| Actuator Marking                                    | I / O                                                                                                                                                              |
| Contact Position Indication                         | Red ON / Green OFF                                                                                                                                                 |
| Degree of Protection                                | IP20                                                                                                                                                               |
| Remarks                                             | IP40 in enclosure with cover                                                                                                                                       |
| Terminal Type                                       | Screw Terminals                                                                                                                                                    |
| Screw Terminal Type                                 | Cable Clamp                                                                                                                                                        |
| Connecting Capacity                                 | Flexible with Ferrule 2.5 ... 50 mm <sup>2</sup><br>Flexible 2.5 ... 50 mm <sup>2</sup><br>Rigid 2.5 ... 50 mm <sup>2</sup><br>Stranded 2.5 ... 50 mm <sup>2</sup> |
| Tightening Torque                                   | 2.5 ... 3 N·m                                                                                                                                                      |
| Recommended Screw Driver                            | Cross Recess Pozidriv 2<br>Slotted 1 x 5.5                                                                                                                         |
| Mounting on DIN Rail                                | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715<br>TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715                                                     |
| Mounting Position                                   | Any                                                                                                                                                                |
| Function                                            | Single Pole Switching                                                                                                                                              |
| Installation Size                                   | acc. to DIN 43880 3                                                                                                                                                |
| Power Supply Connection                             | Arbitrary                                                                                                                                                          |
| Suitable for Isolation                              | Yes                                                                                                                                                                |

## Environmental

|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| Ambient Air Temperature                        | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C        |
| Resistance to Shock acc. to IEC 60068-2-27     | 30g / 3 shocks / 11 ms                                    |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 2g, 20 cycles at 5 ... 150 ... 5Hz                        |
| Environmental Conditions                       | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| RoHS Status                                    | Following EU Directive 2011/65/EU                         |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 27 mm   |
| Product Net Depth / Length | 92 mm   |
| Product Net Height         | 130 mm  |
| Product Net Weight         | 0.35 kg |

## Container Information

|                                |                |
|--------------------------------|----------------|
| Package Level 1 Units          | carton 3 piece |
| Package Level 1 Width          | 133 mm         |
| Package Level 1 Depth / Length | 157 mm         |
| Package Level 1 Height         | 108 mm         |
| Package Level 1 Gross Weight   | 1.15 kg        |
| Package Level 1 EAN            | 4016779841498  |

| Ordering               |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85369095 |

| Certificates and Declarations (Document Number) |                 |
|-------------------------------------------------|-----------------|
| Declaration of Conformity - CE                  | 2CDK400634D2701 |
| Instructions and Manuals                        | 2CDS707001P0004 |
| RoHS Information                                | 2CDK400642D0201 |

| Popular Downloads                 |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC415012D0104 |
| Instructions and Manuals          | 2CDS707001P0004 |

| Classifications            |                                                |
|----------------------------|------------------------------------------------|
| Object Classification Code | F                                              |
| ETIM 6                     | EC001047 - Selective main line circuit breaker |
| ETIM 7                     | EC001047 - Selective main line circuit breaker |
| ETIM 8                     | EC001047 - Selective main line circuit breaker |
| eClass                     | V11.0 : 27141903                               |
| UNSPSC                     | 39121614                                       |

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Selective Main Circuit Breakers SMCBs → S750DR

