

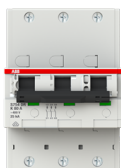



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 PRODUCT-DETAILS

## S753DR-K80

### S753DR-K80 sel. main CB K-Char.,25kA,80A,3P




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#### General Information

<b>Extended Product Type:</b>	S753DR-K80
<b>Product ID:</b>	2CDH783010R0627
<b>EAN:</b>	4016779879743
<b>Catalog Description:</b>	S753DR-K80 sel. main CB K-Char.,25kA,80A,3P
<b>Long Description:</b>	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.
<b>Display Name:</b>	S753DR-K80

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#### ABB EcoSolutions

<b>ABB EcoSolutions:</b>	No
<b>Recyclability Rate of the Product acc. to EN45555:</b>	Design for Closing Resource Loops - Standard EN45555 - 45.9 %
<b>ABB Site Meeting Group Waste To Landfill Target:</b>	No non-hazardous waste is sent to a landfill

<b>Extended Product Lifetime:</b>	Product Durability
<b>End Of Life Disassembling Instructions:</b>	9AKK108469A4877
<b>Environmental Product Declaration - EPD:</b>	9AKK108468A5768

## Technical

<b>Suitable for Isolation:</b>	Yes
<b>Dielectric Test Voltage:</b>	50 / 60 Hz - 1 min 2 kV
<b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</b>	(400 V AC) 25 kA
<b>Rated Service Short-Circuit Breaking Capacity (<math>I_{cs}</math>):</b>	(400 V AC) 12.5 kA
<b>Power Supply Connection:</b>	Arbitrary
<b>Contact Position Indication:</b>	Red ON / Green OFF
<b>Number of Poles:</b>	3P
<b>Tightening Torque:</b>	2.5 ... 3 N·m
<b>Screw Terminal Type:</b>	Cable Clamp
<b>Actuator Marking:</b>	I / O
<b>Recommended Screw Driver:</b>	Cross Recess Pozidriv 2 Slotted 1 x 5.5
<b>Accessories Available:</b>	Yes
<b>Connecting Capacity:</b>	Flexible with Ferrule 2.5 ... 50 mm <sup>2</sup> Flexible 2.5 ... 50 mm <sup>2</sup> Rigid 2.5 ... 50 mm <sup>2</sup> Stranded 2.5 ... 50 mm <sup>2</sup>
<b>Installation Size:</b>	acc. to DIN 43880 3
<b>Terminal Type:</b>	Screw Terminals

## Electrical

<b>Tripping Characteristic:</b>	K (Selective)
<b>Rated Operational Voltage:</b>	400 V AC acc. to IEC 60947-2 400 V AC
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	acc. to IEC/EN 60664-1 690 V
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	6 kV at 2000 m 8 kV at Sea Level 9.8 kV
<b>Input Voltage Type:</b>	AC
<b>Rated Current (<math>I_n</math>):</b>	80 A
<b>Rated Short-Circuit Capacity:</b>	(400 V AC) 25 kA
<b>Rated Frequency (f):</b>	50 / 60 Hz
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 10.5 W
<b>Overvoltage Category:</b>	IV
<b>I<sup>2</sup>t Characteristic:</b>	9AKK108466A4490

## Material Compliance

<b>RoHS Declaration:</b>	9AKK108472A0372
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
<b>RoHS Date:</b>	20260312
<b>REACH Declaration:</b>	9AKK107492A1906
<b>REACH Information:</b>	False - does not contain substances > 0.1 mass percentage
<b>REACH Date:</b>	20260312
<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108468A3363
<b>Toxic Substances Control Act - TSCA:</b>	9AKK108468A8104
<b>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)
<b>WEEE B2C / B2B:</b>	Business To Business

## Environmental

<b>Ambient Air Temperature:</b>	Operation -25 ... +55 °C Storage -40 ... +70 °C
<b>Degree of Protection:</b>	IP20 Enclosure with Cover IP40
<b>Pollution Degree:</b>	3
<b>Environmental Conditions:</b>	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
<b>Resistance to Vibrations:</b>	20 Cycles with Load 0.8 In: 2g 5 ... 150 ... 5 Hz
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	30g 3 shocks 11 ms

## Dimensions

<b>Product Net Width:</b>	89 mm
<b>Product Net Height:</b>	130 mm
<b>Product Net Depth / Length:</b>	96 mm
<b>Product Net Weight:</b>	1.1 kg
<b>Dimension Diagram:</b>	9AKK108466A4497

## Ordering

<b>Package Level 1 Units:</b>	carton 1 piece
<b>Package Level 1 Gross Weight:</b>	1.15 kg
<b>E-Number (Norway):</b>	1682458

## Certificates and Declarations

<b>Declaration of Conformity - CE:</b>	2CDK400633D2701
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## Installation

<b>Instructions and Manuals:</b>	2CDS707001P0004
<b>Mounting Type:</b>	DIN-Rail
<b>Mounting on DIN Rail:</b>	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
<b>Mounting Position:</b>	any

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	9AKK107991A5989
<b>Data Sheet, Technical Information (Part 2):</b>	9AKK108466A4493
<b>Time-Current Characteristic Curve:</b>	9AKK108466A4496

## External Classifications and Standards

<b>ETIM 9:</b>	EC001047 - Selective main line circuit breaker
<b>ETIM 10:</b>	EC001047 - Selective main line circuit breaker
<b>UNSPSC:</b>	39121614
<b>eClass:</b>	V11.0 : 27141903
<b>Object Classification Code:</b>	F
<b>Standards:</b>	IEC/EN 60947-2
<b>Certification Agency:</b>	EN IEC

## Categories

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

