



 PRODUCT-DETAILS

S753DR-E50

Selective Main Circuit Breaker



General Information

Extended Product Type	S753DR-E50
Product ID	2CDH783001R0502
EAN	4016779838498
Catalog Description	Selective Main Circuit Breaker
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.

ABB EcoSolutions

ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 40.4 %
Group Waste to Landfill Target	No non-hazardous waste is sent to a landfill
Offered with Extended	Product Durability

Lifetime

Offered with Takeback Services	Take Back for Recycling
End of Life Instructions	9AKK108469A4877
Environmental Product Declaration - EPD	9AKK108468A5768

Technical

Standards	DIN VDE 0641-21
Tripping Characteristic	E (Selective)
Function	Single Pole Switching
Suitable for Isolation	Yes
Rated Operational Voltage	400 V AC
Rated Insulation Voltage (U _i)	acc. to IEC/EN 60664-1 690 V
Rated Impulse Withstand Voltage (U _{imp})	6 kV at 2000 m 8 kV at Sea Level 9.8 kV
Dielectric Test Voltage	50/60 Hz-1 min: 2 kV
Rated Current (I _n)	50 A
Rated Short-Circuit Capacity	(400 V AC) 25 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	at Rated Operating Conditions per Pole 7.6 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Number of Poles	3
Overvoltage Category	IV
Tightening Torque	2.5 ... 3 N·m
Mounting Type	DIN-Rail
Screw Terminal Type	Cable Clamp
Actuator Marking	I / O
Mounting on DIN Rail	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
Mounting Position	any
Recommended Screw Driver	Cross Recess Pozidriv 2 Slotted 1 x 5.5
Accessories Available	Yes
Connecting Capacity	Flexible with Ferrule 2.5 ... 50 mm ² Flexible 2.5 ... 50 mm ² Rigid 2.5 ... 50 mm ² Stranded 2.5 ... 50 mm ²
Installation Size	acc. to DIN 43880 3
Terminal Type	Screw Terminals

Material Compliance

RoHS Information	2CDK400634D2701
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20160607
REACH Declaration	9AKK107492A1906
REACH Information	False - does not contain substances > 0.1 mass percentage

REACH Date	20240821
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental

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

Dimensions

Product Net Width	81 mm
Product Net Height	130 mm
Product Net Depth / Length	96 mm
Product Net Weight	1.05 kg
Pole Net Weight	0.35 kg
Dimension Diagram	2CDC022023F0011

Ordering

Package Level 1 Units	carton 1 piece
Package Level 1 Gross Weight	1.15 kg
E-Number (Norway)	1634349

Certificates and Declarations

Declaration of Conformity - CE	2CDK400634D2701
I ² t Characteristic	9AKK108466A4490
Certification Agency	DIN

Installation

Instructions and Manuals	2CDS707001P0004
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Popular Downloads

Data Sheet, Technical Information	2CDC415012D0104
Data Sheet, Technical Information (Part 2)	9AKK108466A4493

I ² t Characteristic	9AKK108466A4490
Time-Current	9AKK108466A4496
Characteristic Curve	

Classifications

ETIM 8	EC001047 - Selective main line circuit breaker
ETIM 9	EC001047 - Selective main line circuit breaker
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business
CN8	8536 90 95
UNSPSC	39121614
eClass	V11.0 : 27141903
Object Classification Code	F

Categories

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

