



PRODUCT-DETAILS

# S751DR-E80

## S751DR-E80 Selective Main Circuit Breaker



General Information	
Extended Product Type	S751DR-E80
Product ID	2CDH781010R0802
EAN	4016779879040
Catalog Description	S751DR-E80 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.

Technical	
Standards	IEC/EN 60947-2
Tripping Characteristic	E (Selective)
Suitable for Isolation	Yes
Rated Operational Voltage	230 V AC acc. to IEC 60947-2 230 V AC
Rated Insulation Voltage	acc. to IEC/EN 60664-1 690 V

(U <sub>i</sub> )	
Rated Impulse	6 kV
Withstand Voltage (U <sub>imp</sub> )	at 2000 m 8 kV
	at Sea Level 9.8 kV
Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Rated Current (I <sub>n</sub> )	80 A
Rated Short-Circuit Capacity	(230 V AC) 25 kA
Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )	(230 V AC) 25 kA
Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )	(230 V AC) 12.5 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	at Rated Operating Conditions per Pole 10.5 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Number of Poles	1
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 <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>
Installation Size	acc. to DIN 43880 3
Terminal Type	Screw Terminals

Material Compliance

RoHS Information	2CDK400642D0201
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20160607
REACH Declaration	9AKK108468A9644
REACH Information	False - does not contains substances > 0.1 mass percentage
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	35 mm
Product Net Height	130 mm
Product Net Depth / Length	92 mm
Product Net Weight	0.4 kg
Dimension Diagram	9AKK108466A4497

Ordering

Package Level 1 Units	carton 3 piece
Package Level 1 Gross Weight	1.35 kg

Certificates and Declarations

Certification Agency	EN IEC
Declaration of Conformity - CE	2CDK400633D2701
I <sup>2</sup> t Characteristic	9AKK108466A4490

Installation

Instructions and Manuals	2CDS707001P0004
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Popular Downloads

Data Sheet, Technical Information	9AKK107991A5989
Data Sheet, Technical Information (Part 2)	9AKK108466A4493
I <sup>2</sup> t Characteristic	9AKK108466A4490
Time-Current Characteristic Curve	9AKK108466A4496

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

