



 PRODUCT-DETAILS

S751DR-K80

S751DR-K80 sel. main CB K-Char.,25kA,80A,1P



General Information

Extended Product Type:	S751DR-K80
Product ID:	2CDH781010R0627
EAN:	4016779879149
Catalog Description:	S751DR-K80 sel. main CB K-Char.,25kA,80A,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.
Display Name:	S751DR-K80

ABB EcoSolutions

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

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

Technical

Suitable for Isolation:	Yes
Dielectric Test Voltage:	50 / 60 Hz - 1 min 2 kV
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(230 V AC) 25 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(230 V AC) 12.5 kA
Power Supply Connection:	Arbitrary
Contact Position Indication:	Red ON / Green OFF
Number of Poles:	1P
Tightening Torque:	2.5 ... 3 N·m
Screw Terminal Type:	Cable Clamp
Actuator Marking:	I / O
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

Electrical

Tripping Characteristic:	K (Selective)
Rated Operational Voltage:	230 V AC acc. to IEC 60947-2 230 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
Input Voltage Type:	AC
Rated Current (I_n):	80 A
Rated Short-Circuit Capacity:	(230 V AC) 25 kA
Rated Frequency (f):	50 / 60 Hz
Power Loss:	at Rated Operating Conditions per Pole 10.5 W
Overvoltage Category:	IV
I²t Characteristic:	9AKK108466A4490

Material Compliance

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

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
E-Number (Norway):	1682450

Certificates and Declarations

Declaration of Conformity - CE:	2CDK400633D2701
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Installation

Instructions and Manuals:	2CDS707001P0004
Mounting Type:	DIN-Rail
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

Popular Downloads

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

External Classifications and Standards

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

Categories

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



