

PRODUCT-DETAILS

# S203-K50NA

## S203-K50NA Miniature Circuit Breaker - 3+NP - K - 50 A



### Algemene informatie

Type	S203-K50NA
Artikelnummer	2CDS253103R0577
EAN	4016779551205
Omschrijving	S203-K50NA Miniature Circuit Breaker - 3+NP - K - 50 A
Omschrijving	System pro M compact S200 miniature circuit breakers are current limiting. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C,D,K,Z), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 6 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200 comply with IEC/EN 60898-1, IEC/EN 60947-2, UL1077 allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200 to save 50% space.

### ABB EcoSolutions

ABB EcoSolutions	Yes
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### Circular Value

Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90 %
Sustainable Material Content	0 %
Offered with Extended Lifetime	Product Durability
Offered with Takeback	Take Back for Recycling

## Services

## Eco Transparency

Milieuproductverklaring -  
EPD

9AKK108467A7832

## Technical

Normen	IEC/EN 60898-1 IEC/EN 60947-2 UL 1077
Uitschakelkenmerk	K
Nominaal bedrijfsvoltage	acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 440 V AC
Operationeel voltage	Maximum (inclusief tolerantie) 440 V AC
Nominaal isolatievoltage ( $U_i$ )	acc. to IEC/EN 60664-1 440 V
Nominale impuls grensvoltage ( $U_{imp}$ )	4 kV at 2000 m 5 kV at Sea Level 6.2 kV
Diëlektrische testspanning	50/60 Hz, 1 min: 2 kV
Ingangsspanningstype	AC/DC
Toegekende stroom ( $I_n$ )	50 A
Nominaal kortsluitvermogen	(AC) 6 kA (DC) 6 kA (400 V AC) 6 kA
Nominaal ulтім kortsluitvermogen ( $I_{cu}$ )	(230 V AC) 20 kA (400 V AC) 10 kA (440 V AC) 10 kA
Nominale voorwaardelijke kortsluitstroom ( $I_{nc}$ )	(230 V) 20 kA (400 V) 10 kA
Nominaal vermogen kortsluitvermogen ( $I_{cs}$ )	(230 V AC) 15 kA (400 V AC) 7.5 kA (440 V AC) 7.5 kA
Frequentie (f)	50 Hz
Toegekende frequentie (f)	50 / 60 Hz
Vermogensverlies	12.4 W at Rated Operating Conditions per Pole 3.1 W
Aansluiting voeding	Arbitrary
Statusindicator	Red ON / Green OFF
Elektrisch uithoudingsvermogen	10000 AC cycle
Mechanisch uithoudingsvermogen	20000 cycle
Aantal polen	3+N
Aantal beveiligde polen	3
Overspanningscategorie	III
Positie van neutrale klemmen	Right
Aanhaalmoment	2.8 N·m
Montagetype	DIN-rail
Type schroefklem	Failsafe Bi-directional Cylinder-lift Terminal
Aansturingsmarkering	I / O
Aansturingsmateriaal	Insulation Group II, Black, Sealable
Materiaal behuizing	Insulation Group II, RAL 7035
Montage op 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
Plaats van inbouw	any
Aanbevolen schroevendraaier	Pozidriv 2
Accessoires beschikbaar	Yes
Verbindingscapaciteit	Busbar 10 / 10 mm <sup>2</sup> Flexible with Ferrule 0.75 ... 25 mm <sup>2</sup>

	Flexible 0.75 ... 25 mm <sup>2</sup> Rigid 0.75 ... 35 mm <sup>2</sup> Stranded 0.75 ... 35 mm <sup>2</sup>
Installatiegrootte	acc. to DIN 43880 1
Kabelstriplengte	12.5 mm
Terminaaltype	Schroef

## Environmental

Omgevingsluchttemperatuur	Werking -25 ... +55 °C Opslag -40 ... +70 °C
Beschermingsgraad	IP20 Enclosure with Cover IP40
Verontreinigingsgraad	3
Milieu-omstandigheden	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Weerstand tegen trillingen volgens IEC 60068-2-6	5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In
Schokweerstand volgens IEC 60068-2-27	25g 2 shocks 13 ms
RoHS-status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS-informatie	2CDK403001D0607
REACH-verklaring	9AKK107492A1906

## Technical UL/CSA

Maximale bedrijfsspanning UL/CSA	110 V DC 480Y / 277 V AC
Onderbrekende classificatie volgens UL1077	(110 V DC) 10 kA (277 V AC) 6 kA (480Y / 277 V AC) 6 kA
Verbindingscapaciteit UL/CSA	Busbar 18-8 AWG Conductor 18-4 AWG
Aanhaalmoment UL/CSA	18 in-lb

## Dimensions

Breedte in module-eenheden	4
Product netto breedte	70 mm
Product netto hoogte	88 mm
Product netto diepte	69 mm
Product netto gewicht	0.5 kg
Pool netto gewicht	0.125 kg
Inbouwdiepte (t <sub>2</sub> )	69 mm
Dimensiediagram	2CDC022007F0010

## Ordering

Minimale bestelhoeveelheid	1 stuk
Pakketniveau 1 Units	karton 1 stuk
Pakketniveau 1 Brutoweight	0.51 kg
E-Number (Finland)	3210937

## Certificates and Declarations

Certificatieagentschap	EN IEC UL
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Conformiteitsverklaring - CE	2CDK403001D0607
Declaration of Conformity - UKCA	9AKK108467A5053
† Characteristic	9AKK107992A5103

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## Installation

Instructies en handleidingen	2CDS207104P0002
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## Popular Downloads

Gegevensblad, technische informatie	9AKK107991A8329
† Characteristic	9AKK107992A5103
EPLAN grafische macro	9AKK106713A7632
EPLAN-macro	9AKK106713A7622

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## Classifications

ETIM 8	EC000042 - Installatieautomaat
ETIM 9	EC000042 - Installatieautomaat
EPLAN-functiedefinitie	NO contact / NO contact, 2 connection points / NO contact, leading 7N_8N Circuit breaker / Triple circuit breaker / Triple circuit breaker 1_2_3_4_5_6
WEEE-categorie	5. Small Equipment (No External Dimension More Than 50 cm)
AEEA B2C / B2B	Business To Business
CN8	8536 20 10
UNSPSC	39121603
eClass	V11.0 : 27141901
IGCC (IDEA granulaire categoriecode)	4897 >> Miniature circuit breakers
Object classificatiecode	F

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## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CDS200922R0001	S2C-S/H6R Signal / Auxiliary Contact	S2C-S/H6R	1	piece
2CDS200912R0001	S2C-H6R Auxiliary Contact	S2C-H6R	1	piece
2CDS200936R0001	S2C-H11L Auxiliary Contact	S2C-H11L	1	piece
2CDS200936R0002	S2C-H20L Auxiliary Contact	S2C-H20L	1	piece
2CDS200936R0003	S2C-H02L Auxiliary Contact	S2C-H02L	1	piece
2CDS200946R0001	S2C-H6-11R Auxiliary Contact	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R Auxiliary Contact	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R Auxiliary Contact	S2C-H6-02R	1	piece
2CDS200909R0001	S2C-A1 Shunt Trip	S2C-A1	1	piece
2CDS200909R0002	S2C-A2 Shunt Trip	S2C-A2	1	piece
2CSS200911R0001	S2C-UA 12 DC Undervoltage release	S2C-UA 12 DC	1	piece
2CSS200911R0002	S2C-UA 24 AC Undervoltage release	S2C-UA 24 AC	1	piece
2CSS200911R0003	S2C-UA 48 AC Undervoltage release	S2C-UA 48 AC	1	piece
2CSS200911R0004	S2C-UA 110 AC Undervoltage release	S2C-UA 110 AC	1	piece
2CSS200911R0005	S2C-UA 230 AC Undervoltage release	S2C-UA 230 AC	1	piece
2CSS200911R0006	S2C-UA 400 AC Undervoltage release	S2C-UA 400 AC	1	piece
2CSS200911R0007	S2C-UA 24 DC Undervoltage release	S2C-UA 24 DC	1	piece
2CSS200911R0008	S2C-UA 48 DC Undervoltage release	S2C-UA 48 DC	1	piece
2CSS200911R0009	S2C-UA 110 DC Undervoltage release	S2C-UA 110 DC	1	piece
2CSS200911R0010	S2C-UA 230 DC Undervoltage release	S2C-UA 230 DC	1	piece
2CSS201997R0013	S2C-CM1 Motor operating device	S2C-CM1	1	piece
2CSS203997R0013	S2C-CM2/3 Motor operating device	S2C-CM2/3	1	piece
2CSS204997R0013	S2C-CM4 Motor operating device	S2C-CM4	1	piece
GHS2001901R0003	S2C-DH Mechanical Accessories	S2C-DH	1	piece
2CSS200998R0001	S2C-BP Mechanical tripping device	S2C-BP	1	piece
2CSS200999R0001	S2C-EST Plug-in base	S2C-EST	1	piece
2CDS200918R0001	S2C-NT Hand Operated Neutral	S2C-NT	1	piece
2CCA880100R0001	CMS-100PS Sensor	CMS-100PS	1	piece
2CCA880101R0001	CMS-101PS Sensor	CMS-101PS	1	piece
2CCA880102R0001	CMS-102PS Sensor	CMS-102PS	1	piece

## Categorieën

Laagspanningsproducten en -systemen → Modulaire DIN rail producten → Miniature Circuit Breakers MCBs → Installatieautomaten MCB's

