



PRODUCT-DETAILS

F204 B-40/0.03

Residual Current Circuit Breaker - 4P - Type B - 30 mA - 40 A



General Information	
Extended Product Type	F204 B-40/0.03
Product ID	2CSF204568R1400
EAN	8012542342052
Catalog Description	Residual Current Circuit Breaker - 4P - Type B - 30 mA - 40 A
Long Description	The RCCBs F200 series assures protection to people and installations against fault current to earth. A large offer for standard instantaneous and selective AC and A types is completed with some configurations for special applications. This product is particularly suitable for the protection against smooth d.c. earth fault currents.

ABB EcoSolutions	
ABB EcoSolutions	Yes
EcoSolutions Profile	9AKK108469A3795
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 77.05 %
ABB Site Meeting Group Waste To Landfill Target	No non-hazardous waste is sent to a landfill UL 2799 Zero Waste To Landfill Validation available
Sustainable Material Content in Packaging	Recycled Cardboard - 29 % Recycled Cardboard - 61 %

(wt. %)

Recycled Cardboard - 03 %
 Recycled Paper - 00 %
 Recycled Paper - 00 %

Extended Product Lifetime	Product Durability
End Of Life Disassembling Instructions	9AKK108470A1744
Environmental Product Declaration - EPD	9AKK108468A5757

Technical

Type of Residual Current	Type B
Test Voltage (Ut)	170 ... 253 V
Dielectric Test Voltage	2500 kV
Impulse Current	I (max, 8 / 20 µs) 3000 A
Maximum Surge Current	3 kA
Leakage Current Type	B
Electrical Endurance	10000 cycle
Mechanical Endurance	20000 cycle
Number of Poles	4P
Number of Modular Spacings per DIN Rail	4
Operating Characteristic	10ms Delay (High Immunity)
Position of Neutral Terminals	Right
Tightening Torque	2.8 N·m
Delay Time (T)	10 ms
Accessory Type	Auxiliary contact Signal contact/auxiliary contact Shunt trip Undervoltage release Overvoltage release Motor operating device Auto reclosing unit
Actuator Type	Toggle - Insulation group I - II, RAL 5015
Housing Type	Insulation group I - II, RAL 7035
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Options Provided	None
Accessories Available	Yes
Number of Batteries	0
Cable Size	25 mm ²
Connecting Capacity	Busbar 10 mm ² Flexible 1 ... 25 mm ² Stranded 1 ... 25 mm ²
Rated Cross-Section	1 - Solid-Core 1 ... 25 mm ²
Wire Stripping Length	12 mm
Terminal Type	Screw Terminals

Electrical

Rated Voltage (Ur)	230/400 V
Rated Operational Voltage	230 ... 400 V AC
Rated Insulation Voltage (Ui)	440 V

Rated Impulse Withstand Voltage (U _{imp})	4 kV
Input Voltage Type	AC
Rated Current (I _N)	40 A
Rated Residual Current	30 mA
Rated Conditional Short-Circuit Current (I _{nc})	(Typ gG/gLfuse, 500 V) 100 A Selective MCB S750-E 63A or S750DR-E/K 100 A
Frequency (f)	50/60 Hz
Rated Frequency (f)	50 ... 60 Hz
Power Loss	at Rated Operating Conditions per Pole 1.92 W Total 6.96 W
Overvoltage Category	III

Design

Number of Modules	4
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Material Compliance

RoHS Information	9AKK106713A5610
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20211115
REACH Declaration	9AKK108467A9482
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240429
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
SCIP	10b8311e-47e3-4a9c-bc31-a2d09986d074 Italy
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer

Environmental

Ambient Air Temperature	Operation -25...+65 °C Storage -40...+70 °C
Degree of Protection	Terminals IP20 Housing IP40
Pollution Degree	2
Environmental Conditions	28 cycle with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations	20 Cycles with Load 0.8 In: 1g or 1mm 50 ... 150 ... 5 Hz
Resistance to Shock acc. to IEC 60068-2-27	25g 2 shocks 13 ms

Dimensions

Width in Number of Modular Spacings	4
Product Net Width	70 mm
Product Net Height	85 mm
Product Net Depth /	69 mm

Length

Product Net Weight	380 g
Built-In Depth (t ₂)	69 mm
Dimension Diagram	9AKK106354A0759

Engineering

EPLAN Data	9AAF619163_EPLAN
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Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	80 mm
Package Level 1 Height	82 mm
Package Level 1 Depth / Length	94 mm
Package Level 1 Gross Weight	0.415 kg
Package Level 1 EAN	8012542342052
Package Level 2 Units	box 3 piece
Package Level 2 Width	246 mm
Package Level 2 Height	94 mm
Package Level 2 Depth / Length	80 mm
Package Level 2 Gross Weight	1.25 kg
Package Level 2 EAN	8012542343653
Package Level 3 Units	pallet (lift) 780 piece
Package Level 3 Width	760 mm
Package Level 3 Height	1180 mm
Package Level 3 Depth / Length	820 mm
Package Level 3 Gross Weight	326.152 kg
Package Level 3 EAN	8012542056553

Ordering

Minimum Order Quantity	1 piece
E-Number (Finland)	3214069
E-Number (Norway)	1672371
E-Number (Sweden)	2160157

Certificates and Declarations

Declaration of Conformity - CE	9AKK106713A5610
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Installation

Instructions and Manuals	9AKK107992A0195
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Popular Downloads	
Data Sheet, Technical Information	9AKK107991A7569

External Classifications and Standards	
ETIM 8	EC000003 - Residual current circuit breaker (RCCB)
ETIM 9	EC000003 - Residual current circuit breaker (RCCB)
UNSPSC	39121601
eClass	V11.0 : 27142201
IDEA Granular Category Code (IGCC)	4875 >> Residual current circuit breaker (RCCB)
Object Classification Code	F
Standards	IEC/EN 61008-1, IEC/EN 61008-2-1, IEC/EN 62423

Accessories					
Identifier	Description	Type	Quantity	Unit Of Measure	
2CDS200912R0001	S2C-H6R Auxiliary Contact 1CO	S2C-H6R	2	piece	
2CDS200922R0001	S2C-S/H6R Universal Auxiliary/Signal Con	S2C-S/H6R	2	piece	
2CDS200946R0001	S2C-H6-11R Auxiliary contact 1NO/1NC	S2C-H6-11R	1	piece	
2CDS200946R0003	S2C-H6-02R Auxiliary contact 2NC	S2C-H6-02R	1	piece	
2CDS200946R0002	S2C-H6-20R Auxiliary contact 2NO	S2C-H6-20R	1	piece	
2CSS200933R0011	F2C-A1 Shunt trip	F2C-A1	1	piece	
2CSS200933R0012	F2C-A2 Shunt trip	F2C-A2	1	piece	
2CSS200911R0005	S2C-UA 230 AC Undervoltage release	S2C-UA 230 AC	1	piece	
2CSS200911R0007	S2C-UA 24 DC Undervoltage release	S2C-UA 24 DC	1	piece	
2CSS200911R0002	S2C-UA 24 AC Undervoltage release	S2C-UA 24 AC	1	piece	
2CSS200911R0008	S2C-UA 48 DC Undervoltage release	S2C-UA 48 DC	1	piece	
2CSS200911R0004	S2C-UA 110 AC Undervoltage release	S2C-UA 110 AC	1	piece	
2CSS200911R0006	S2C-UA 400 AC Undervoltage release	S2C-UA 400 AC	1	piece	
2CSS200911R0001	S2C-UA 12 DC Undervoltage release	S2C-UA 12 DC	1	piece	
2CSS200911R0010	S2C-UA 230 DC Undervoltage release	S2C-UA 230 DC	1	piece	
2CSS200911R0009	S2C-UA 110 DC Undervoltage release	S2C-UA 110 DC	1	piece	
2CSS200911R0003	S2C-UA 48 AC Undervoltage release	S2C-UA 48 AC	1	piece	
2CSS200910R0005	S2C-OVP1 Overvoltage release	S2C-OVP1	1	piece	
2CSS200993R0005	S2C-OVP2 Overvoltage release	S2C-OVP2	1	piece	
2CSF201998R0034	F3C-AR24 Autoreclosing unit	F3C-AR24	1	piece	
2CSF202998R0034	F3C-AR230 Autoreclosing unit	F3C-AR230	1	piece	
2CSS201998R0033	S3C-MOD24 Motor Operating Device	S3C-MOD24	1	piece	
2CSS202998R0033	S3C-MOD230 Motor Operating Device	S3C-MOD230	1	piece	

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Residual Current Devices RCDs → Residual Current Devices RCDs

