

PRODUCT-DETAILS

S303P-C40 S303P-C40 Miniature Circuit Breaker - 3P - C -40 A



General Information	
Extended Product Type	\$303P-C40
Product ID	2CDS383001R0404
EAN	4016779077804
Catalog Description	S303P-C40 Miniature Circuit Breaker - 3P - C - 40 A
Long Description	The MCBs S300P series assures protection in industrial installations against overload and short circuits. This product is manufactured according to international IEC and UL standards, for the markets where it is required.
ABB EcoSolutions	
ABB EcoSolutions	Yes
Circular Value	
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90 %
Sustainable Material Content	0 %
Group Waste to Landfill	No non-hazardous waste is sent to a landfill
Target	

Subject to change without notice

Take Back for Recycling Services PAKK108467A9801 PAKK108467A9801 End of Life Instructions 9AKK108467A9130 Ecco Transparency Environmental Product 9AKK108467A7130 Declaration - EPD Technical Standards CSA 22.2 No. 235 IEC/EN 6098-1 UL 1077 Tripping Characteristic C Rated Operational acc. to IEC 60898-1 415 V AC acc. to IEC 60898-1 415 V AC Asign acc. to IEC 60898-1 415 V AC acc. to IEC 60898-1 415 V AC Asign acc. to IEC 6098-1 415 V AC Asign acc. to IEC 6089-1 415 V AC Asign acc. to IEC/EN 6064-1 500 V (U ₁) Asted Insulation Voltage (U _{Imp}) (Differ account of the second account of the secon	Offered with Extended Lifetime	Product Durability
Eco Transparency Environmental Product 9AKK108467A7120 Environmental Product 9AKK108467A7120 Editaration - EPD Technical Technical Technical Tachnical Tachnical The standards CSA 22 AN 235 CSA 23 AN 235 CSA	Offered with Takeback Services	Take Back for Recycling
Environmental Product Declaration - EPD Technical Technical Technical Tachnical Tripping Characteristic Constraints Const	End of Life Instructions	9AKK108467A9801
Declaration - EPD Technical Technical Standards CSA 22.2 No.235 Tripping Characteristic Tripping Characteristic Comparison Compari	Eco Transparency	
Standards CSA 22.2 No. 25 Standards CSA 22.2 No. 25 IEC/EN 00894-1 IEC/EN 00894-2 IEC/EN 00894-2 IEC/EN 00894-2 IEC/EN 00894-2 IEC/EN 00894-2 IEC 00896-1415 V AC Rated Operational Act to IEC 60898-1415 V AC Act. to IEC 60898-1415 V AC Act. to IEC 60898-1415 V AC Act. to IEC 60898-1415 V AC Porestional Voltage Act. to IEC 60898-1415 V AC Maximum (Ind. Tolerance) 457 V AC Maximum 157 V AC Maximum 157 VAC Maximum 152 VAC Minimum 152 VAC Minimum 152 VAC Minimum 152 VAC Minimum 152 VAC Maximum 152 VAC Maxim		9AKK108467A7130
Standards CSA 22.2 No. 25 IEC/EN 60893-1 IEC/EN 60893-1 IEC/EN 60893-2 IEC/EN 60893-2 IEC/EN 60893-2 IEC/EN 60893-2 IEC/EN 60893-1 IEC/EN 6089-1 IEC/EN 60893-1 IEC/EN 6089-1 IEC/EN 6089-1 IEC/EN 6089-1 IEC/EN 6084-1 IEC/EN 6064-1 IEC/EN 6064-1		
IEC/EN 00894-1 IEC/EN 00894-2 UL 1077 Tripping Characteristic C Rated Operational a.c. to IEC 60898-1 415 V.d.C Qperational Voltage Maximum 457 V.AC Maximum 457 V.AC Maximum 124 DC Rated Insulation Voltage Maximum 124 DC Rated Insulation Voltage C. to IEC 60898-1 415 V.AC Minimum 124 DC Maximum 457 V.AC Maximum 457 V.AC Maximum 457 V.AC Minimum 124 DC Maximum 457 V.AC Maximum 457 V.AC Maximum 457 V.AC Minimum 124 DC Maximum 457 V.AC Minimum 124 DC Maximum 457 V.AC Maximum 457 V.AC Maximum 457 V.AC Minimum 124 DC Maximum 457 V.AC Maximum 457 V.AC Maximum 457 V.AC Minimum 124 DC Maximum 457 V.AC Maximum 457 V.AC Maximum 457 V.AC Maximum 457 V.A	Technical	
Rated Operational acc. to IEC 60898-1415 VAC Voltage acc. to IEC 60898-1415 VAC Operational Voltage Maximum (Incl. Tolerance) 457 VAC Maximum S7 VAC Maximum 12 V DC Rated Insulation Voltage acc. to IEC 60897-215 VAC Rated Insulation Voltage acc. to IEC/EN 60664-1 500 V Rated Insulation Voltage (Uimp) acc. to IEC/EN 60664-1 500 V Dielectric Test Voltage 50/60 Hz, 1 min: 2 kV for Ac/DC Rated Insulation Voltage (Uimp) acc. to IEC/EN 60664-1 500 V Dielectric Test Voltage 70/60 Hz, 1 min: 2 kV for Ac/DC Rated Stort-Circuit (AC) 20 kA Capacity (Inter Short- (AC) 20 kA Carcuit Breaking (440 VAC) 25 kA Carcuit Breaking acted Operating Conditions per Pole 2.9 W Power Loss 8.7 W Acted Operating Conditions per Pole 2.9 W Actification Power Supply Actification Contact Position Red ON / Green OFF Indication 3 Poles 3	Standards	IEC/EN 60898-1 IEC/EN 60947-2
Voltage acc. to IEC 6098-1.415 VAC Operational Voltage Maximum (Incl. Tolerance) 457 VAC Maximum 457 VAC Maximum 457 VAC Maximum 457 VAC Minimum 12 VAC Rated Insulation Voltage acc. to IEC/E008-4.150 V Minimum 12 VAC Minimum 12 VAC Minimum 12 VAC Minimum 12 VAC Minimum 12 VAC Minimum 12 VAC Withstand Voltage (Ump)	Tripping Characteristic	C
Maximum 457 V AC Minimum 12 V DC Rated Insulation Voltage acc. to IEC/EN 60664-1 500 V Rated Inpulse 6 kV Withstand Voltage (Ump 6 kV Dielectric Test Voltage 50/60 Hz, 1 min: 2 kV Input Voltage Type AC/DC Rated Short-Circuit (Ac) 20 kA Capacity (Al 00 V) 20 kA Rated Short-Circuit (Ac) 20 kA Capacity (415 VAC) 25 kA Carcuit Breaking (440 VAC) 15 kA Capacity (L ₄₀) 60 Hz Ower Loss 8.7 W Power Loss 8.7 W Power Supply Arbitrary Contact Position Red OH / Green OFF Indication 3 Number of Protected 3 Poles 3 Poles 3 Poles 2.8 N-m Screw Terninal Type Failsafe Bi-directional Cylinder-lift Terminal Catuator Marking 1/ O Actuator Marking 1/ O Actuator Marking 1/ O Actuator Marking 1/ O Actuator Marking 1/ O	Rated Operational Voltage	acc. to IEC 60898-1 415 V
Rated Insulation Voltage acc. to IEC/EN 60664-1 500 V (U) 6 kV Withstand Voltage (Uimp) 6 kV Dielectric Test Voltage 50/60 Hz, 1 min: 2 kV Input Voltage Type AC/DC Rated Bort-Circuit (AC) 20 kA Capacity (400 V) 20 kA Rated Ultimate Short- (415 V AC) 25 kA Circuit Breaking (440 V) 20 kA Capacity (400 V) 20 kA Rated Frequency (f) 50 Hz Power Loss 8.7 W Power Supply 6.8 HZ Contact Position 8.7 W Red ON / Green OFF 60 Hz Electrical Endurance 10000 AC cycle Number of Poles 3 Number of Poles 3 Number of Protected 3 Overvoltage Category IV Tightening Torque 2.8 Nm Screw Terninal Type Failsafe Bi-directional Cylinder-lift Terninal Actuator Marking Insulation Group II, Black, Sealable I/ O Actuator Marking I/ O Actuator Marking I/ O Actuator Markinal Insulation Group II, Bl	Operational Voltage	Maximum 457 V AC Minimum 12 V AC
Withstand Voltage (Uimp) Dielectric Test Voltage Ac/DC Rated Current (In) Acted Short-Circuit Capacity (AC) 20 kA Capacity (400 V) 20 kA Rated Ultinate Short- Circuit Breaking Capacity (Icu) Rated Frequency (f) Capacity (Icu) Rated Frequency (f) Contact Position Contact Positi	Rated Insulation Voltage (Ui)	
Input Voltage Type Rated Current (In) Rated Short-Circuit Capacity Rated Ultimate Short- Circuit Breaking Capacity (Icu) Rated Ultimate Short- Circuit Breaking Capacity (Icu) Rated Frequency (f) Comparison (Capacity) Power Loss Power Supply Contact Position Indication Contact Position Red ON / Green OFF Indication Contact Position Red ON / Green OFF Indication Contact Position Red ON / Green OFF Indication Contact Position Indication Contact Position Insulation Group I, Ralt, 735 Mounting On DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 Contact Position In Rail Contact Position In Rail Contact Position Contact Position	Withstand Voltage (U _{imp}	6 kV
Rated Current (In) 40 A Rated Short-Circuit (AC) 20 kA Capacity (A00 V) 20 kA Rated Ultimate Short-Circuit (A15 V AC) 25 kA Circuit Breaking (440 V AC) 15 kA Capacity (I _{cu}) (440 V AC) 15 kA Rated Frequency (f) 50 Hz Power Loss 8,7 W Power Supply Arbitrary Contact Position 8,7 W Contact Position Red ON / Green OFF Indication 10000 AC cycle Mechanical Endurance 20000 cycle Number of Poles 3 Number of Protected 3 Poles 9 Overvoltage Category IV Tightening Torque 2.8 N-m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Marking I / O Actuator Marking I / O Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Rated Short-Circuit (AC) 20 kA Capacity (400 V) 20 kA Rated Ultimate Short- (415 VAC) 25 kA Circuit Breaking (440 VAC) 15 kA Capacity (I _{Cu}) (400 V) 25 kA Rated Frequency (f) 50 Hz Power Loss 8.7 W Power Loss 8.7 W Ontext Position 8.7 W Contact Position 8.7 W Contact Position Red ON / Green OFF Indication 10000 AC cycle Number of Poles 3 Number of Potected 3 Poles 3 Overvoltage Category IV Tightening Torque 2.8 N-m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Marking I / O Actuator Marking I / O Actuator Marking Insulation Group I, RALZ 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	Input Voltage Type	AC/DC
Capacity (400 V) 20 kA Rated Ultimate Short- Circuit Breaking (415 V AC) 25 kA Circuit Breaking (440 V AC) 15 kA Rated Frequency (f) (400 V) 25 kA Rated Frequency (f) 50 Hz 60 Hz 50 6	Rated Current (In)	40 A
Circuit Breaking (440 V AC) 15 kA Capacity (I _{Cu}) (440 V AC) 15 kA Rated Frequency (f) 50 Hz 60 Hz 50 60 Hz 60 Hz 70 Hz Hated Operating Conditions per Pole 2.9 W Power Supply Arbitrary Connection Contact Position Red ON / Green OFF Indication Electrical Endurance 10000 AC cycle Mechanical Endurance 20000 cycle Number of Poles 3 Number of Poles 3 Number of Protected 3 Poles Overvoltage Category IV Tightening Torque 2.8 Nm Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Marking 1 / O Actuator Markina Insulation Group II, Black, Sealable Housing Material Insulation Group II, Black, Sealable		
60 Hz 50 60 Hz 50 60 Hz 9 ower Loss 8.7 W at Rated Operating Conditions per Pole 2.9 W Power Supply Arbitrary Connection Arbitrary Contact Position Red ON / Green OFF Indication 10000 AC cycle Mechanical Endurance 20000 cycle Number of Poles 3 Number of Protected 3 Poles 3 Overvoltage Category IV Tightening Torque 2.8 N-m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Marking I / O Housing Material Insulation Group I, Black, Sealable Housing Material Insulation Group I, RAL 7035	Circuit Breaking	(440 V AC) 15 kA
Power Loss 8.7 W at Rated Operating Conditions per Pole 2.9 W Power Supply Arbitrary Connection Arbitrary Contact Position Red ON / Green OFF Indication 10000 AC cycle Mechanical Endurance 10000 AC cycle Number of Poles 20000 cycle Number of Potected 3 Poles 3 Overvoltage Category IV Tightening Torque 2.8 N-m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Marking I / O Housing Material Insulation Group II, Black, Sealable Housing Material Insulation Group I, RAL 7035	Rated Frequency (f)	60 Hz
Power Supply Arbitrary Connection Red ON / Green OFF Indication Red ON / Green OFF Electrical Endurance 10000 AC cycle Mechanical Endurance 20000 cycle Number of Poles 3 Number of Protected 3 Poles 3 Overvoltage Category IV Tightening Torque 2.8 N-m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Material Insulation Group II, Black, Sealable Housing Material Insulation Group I, RAL 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	Power Loss	8.7 W
Indication Electrical Endurance 10000 AC cycle Mechanical Endurance 20000 cycle Number of Poles 3 Number of Protected 3 Poles Overvoltage Category IV Tightening Torque 2.8 N·m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Material Insulation Group II, Black, Sealable Housing Material Insulation Group I, RAL 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715		Arbitrary
Mechanical Endurance 20000 cycle Number of Poles 3 Number of Protected 3 Poles 3 Overvoltage Category IV Tightening Torque 2.8 N·m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Material Insulation Group II, Black, Sealable Housing Material Insulation Group I, RAL 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715		Red ON / Green OFF
Number of Poles 3 Number of Protected 3 Poles 7 Overvoltage Category IV Tightening Torque 2.8 N·m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Material Insulation Group II, Black, Sealable Housing Material Insulation Group I, RAL 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715		
Number of Protected 3 Poles IV Overvoltage Category IV Tightening Torque 2.8 N·m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Material Insulation Group II, Black, Sealable Housing Material Insulation Group I, RAL 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715		
Overvoltage Category IV Tightening Torque 2.8 N·m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Material Insulation Group II, Black, Sealable Housing Material Insulation Group I, RAL 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	Number of Protected	
Tightening Torque 2.8 N·m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Material Insulation Group II, Black, Sealable Housing Material Insulation Group I, RAL 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715		IV
Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Material Insulation Group II, Black, Sealable Housing Material Insulation Group I, RAL 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715		
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Actuator MaterialInsulation Group II, Black, SealableHousing MaterialInsulation Group I, RAL 7035Mounting on DIN RailTH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715		-
Housing MaterialInsulation Group I, RAL 7035Mounting on DIN RailTH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715		
	Housing Material	
	Mounting on DIN Rail	

Mounting Position	any
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Connecting Capacity	Busbar 10 / 10 mm² Flexible with Ferrule 0.75 25 mm² Flexible 0.75 25 mm² Flexible 0.75 25 mm² Rigid 0.75 35 mm² Stranded 0.75 35 mm²
Installation Size	acc. to DIN 43880 1
Wire Stripping Length	14 mm
Terminal Type	Screw Terminals

Environmental	
Ambient Air Temperature	Operation -40 +70 °C Storage -55 +70 °C
Degree of Protection	IP20 IP40 Enclosure with Cover IP40
Pollution Degree	3
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations acc. to IEC 60068-2-6	5g, 20 cycles at 5 150 5 Hz with load 0.8 In
Resistance to Shock acc. to IEC 60068-2-27	25g 3 shocks 18 ms
RoHS Status	Following EU Directive 2011/65/EU
RoHS Information	9AKK107991A3220
REACH Declaration	9AKK107492A1906
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	125 V DC 480Y / 277 V AC 480Y/277 V AC
Interrupting Rating acc. to UL1077	(125 V DC) 10 kA (480Y / 277 V AC) 10 kA
Connecting Capacity UL/CSA	Busbar 18-8 AWG Conductor 18-4 AWG
Tightening Torque UL/CSA	18 in-Ib

Dimensions	
Width in Number of Modular Spacings	3
Product Net Width	52.5 mm
Product Net Height	88 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.372 kg
Pole Net Weight	0.124 kg
Built-In Depth (t ₂)	69 mm

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Ordering	
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.387 kg
E-Number (Finland)	3212299

CB Certificate	2CDZ405000A1089
	2CDZ405000A1093
CCA Certificate	2CDZ405000A1090
	2CDZ405000A1094
CCC Certificate	2CDZ405000A1097
	2CDZ405000A1098
Certification Agency	CSA IEC
	EN
	UL
CQC Certificate	2CDZ405000A1097
	2CDZ405000A1098
CSA Certificate	2CDZ405000A1102
Declaration of	9AKK107991A3220
Conformity - CE	
Declaration of	9AKK107992A8877
Conformity - UKCA	
DNV GL Certificate	2CDZ405000A1155
EAC Certificate	2CDZ405000A1092
	2CDZ405000A1096
NF Certificate	2CDZ405000A1144
RINA Certificate	2CDZ405000A1194
UL Certificate	2CDZ405000A1101
VDE Certificate	2CDZ405000A1191
	2CDZ405000A1195
Installation	
Instructions and	2CDS207104P0002
Manuals	

Popular Downloads	
Data Sheet, Technical	9AKK107992A4964
Information	

Classifications	
ETIM 8	EC000042 - Miniature circuit breaker (MCB)
ETIM 9	EC000042 - Miniature circuit breaker (MCB)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business
CN8	8536 20 10
UNSPSC	39121603
eClass	V11.0 : 27141901
IDEA Granular Category Code (IGCC)	4897 >> Miniature circuit breakers

Accessories				
Identifier	Description	Туре	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
2CDS200970R0001	S2C-H01 Auxiliary Contact	S2C-H01	1	piece
2CDS200970R0002	S2C-H10 Auxiliary Contact	S2C-H10	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	\$2C-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

Categories

Low Voltage Products and Systems \rightarrow Modular DIN Rail Products \rightarrow Miniature Circuit Breakers MCBs \rightarrow Miniature Circuit Breakers MCBs

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