



symbolic image

**DATA SHEET**  
**miniature circuit-breakers**  
**DMCB 2 Co80-3N**  
**C characteristic**  
**Article number 09915083**



[Internetlink](#)



**Function**

The function of miniature circuit-breakers is to automatically cut off circuits to protect cables and connected devices. After being cut off, they can be switched back on manually without fuse inserts, for example, having to be replaced. All of our miniature circuit-breakers have a trip-free mechanism that guarantees reliable switch-off, even for mechanically blocked switch toggles for example. Miniature circuit-breakers of series DMCB 2 have a high rated short-circuit current of up to 25 kA. Large U-clamp terminals allow for the use of large conductor cross-sections. The switching mechanism is designed as a double circuit-breaker and has disconnecter properties thanks to a large contact gap. Switches with tripping characteristic C are optimised for power circuits with high inrush or peak currents.

**Features**

wide range of types, one to four-pole, available in different rated currents, high short-circuit switching capacity, double-sided U-clamp terminals for large conductor cross-section and busbar, switch position indicator

**Mounting**

quick fastening to mounting rail, any installation position

**Applications**

suitable for use in power supplies for industrial facilities and purpose-built buildings or buildings for commercial use

**Accessories**

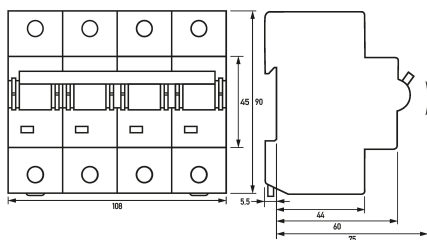
auxiliary switches DMCB 2 Hi, operating current trip DMCB 2 ASA

**Technical Data**

Technical Data	DMCB 2 Co80-3N
Series	DMCB 2
Number of poles	3+N
Tripping characteristic	C
Adjustment range of overload tripping	1.13 ... 1.45
Adjustment range of short-circuit tripping	5 ... 10
Reference temperature thermal release	40 °C
	load circuit
Specification	load disconnect contact
Rated voltage (AC)	230 V, 400 V
Rated voltage (DC)	120 V
Rated current (AC)	80 A
rated current range I <sub>n</sub>	63 - 125 A
Rated short-circuit current	20 kA
Rated insulation voltage	440 V
Rated impulse withstand voltage	4 kV
Rated frequency	50 Hz, 60 Hz

Technical Data	DMCB 2 Co80-3N
Current heat loss per current path	5.53 W
short-circuit backup-fuse SCPD	200 A
Back-up fuse type	gL
Overtoltage class	III
Protection against direct contact	lift terminal, captive top and bottom (load circuit) DGUV V3, ÖVE-EN 6, finger and back-of-hand proof
Clamping area	2.5 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Connection C1 Maximum number of conductors per terminal	(conductors of same type and cross-section)
Cross section solid	1-wire: 2 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Tightening torque	2.5 Nm ... 3 Nm
	General data
Operating position	optional
Mechanical endurance	min. 20000 switching cycles
Storage temperature	-25 °C ... 55 °C
Ambient temperature	-25 °C ... 50 °C
Climate resistance	damp/heat: constant as per IEC 68-2-3, cyclical as per IEC 68-2-30
Housing type	distribution board housing
Mounting type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP20
sealable	true
Width	108 mm
Height	90 mm
Depth	71.5 mm
Installation depth	70 mm
Width (modules)	6
Design requirements/Standards	EN 60947-2
Power limitation category	3
Degree of pollution according to EN 60664	2

**Dimensions**



**Wiring example**



Wiring diagram

Dimensional drawing Group view

STEP file