# *DATA SHEET*

## *miniature circuit-breakers*

## *DMCB 2 C080-3*

### *C characteristic*

***Article number 09915077***

### *Function*

The task of miniature circuit breakers is to automatically disconnect circuits in order to protect lines and connected devices. After disconnection, they can be manually reactivated without the fuse sets having to be replaced, for example. Each of our miniature circuit breakers is equipped with a trip-free mechanism, which guarantees safe deactivation even if, for example, a switching knob is mechanically blocked. 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*

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*

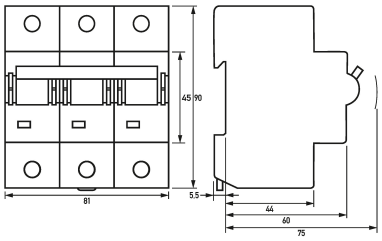
auxiliary switches DMCB 2 Hi, operating current trip DMCB 2 ASA

### *Technical Data*

| Technical Data | DMCB 2 C080-3 |
|---|---|
| Series | DMCB 2 |
| Number of poles | 3 |
| 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 In | 63 - 125 A |
| Rated short-circuit current | 20 kA |
| Rated insulation voltage | 440 V |
| Rated impulse withstand voltage | 4 kV |

| Technical Data | DMCB 2 C080-3 |
|---|---|
| Rated frequency | 50 Hz, 60 Hz |
| Current heat loss per current path | 7.13 W |
| Short-circuit backup-fuse SCPD | 200 A |
| Back-up fuse type | gL |
| Overvoltage class | III |
| | **lift terminal, captive top and bottom (load circuit)** |
| Protection against direct contact | DGUV V3, ÖVE-EN 6, finger and back-of-hand proof |
| Clamping area | 2.5 mm² ... 50 mm² |
| Connection C1 Maximum number of conductors per terminal | (conductors of same type and cross-section) |
| Cross section solid | 1-wire: 2 mm² ... 50 mm² |
| 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 |
| Installation type | Mounting rail (35 mm) |
| Housing material | thermoplastic |
| Protection class | IP20 |
| sealable | true |
| Width | 81 mm |
| Height | 90 mm |
| Depth | 71.5 mm |
| Installation depth | 70 mm |
| Module widths | 4.5 |
| Weight | 0.64 kg |
| Design requirements/Standards | EN 60947-2 |
| Power limitation category | 3 |
| Degree of pollution | 2 |

## *Dimensions*




*Dimensional drawing Group view*

## *Wiring example*

*Wiring diagram*