

symbolic image

UK Technical Data 03

*DRCBO 4 B or C ** 3+N-F 400v 50Hz*

sensitive to residual currents Type F

Function

RCCB/MCB combinations (RCBO) are residual current operated circuit-breakers with integral overcurrent protection for protecting systems in the event of a short-circuit and overload as per the requirements of VDE 0100 Part 430, and for protecting persons, farm animals and material items in the event of earth leakage currents as per VDE 0100 Part 410. Overload tripping occurs at currents in the overload range through a short-time delayed, heat-sensitive bimetal trip and at short-circuit currents through an electromagnetic instantaneous trip. The DRCBO 4 have a rated switching capacity of 6 kA. They provide a labelling area in addition to the tripping indicator. Type F circuit-breakers are sensitive to mixed frequencies. Switches for residual current type F are mains voltage independent and record type A sinusoidal alternating and pulsating DC residual currents as well as residual currents RCBOs with tripping characteristic C are primarily suitable for power circuits with high switch-on or peak currents, as their short-circuit trip value is five to ten times the rated current. Devices in standard design are intended for monitoring circuits with a rated voltage of 230 V or 400 V and a rated frequency of 50 Hz.

Mounting

quick fastening to mounting rail, any installation position, supply as desired

Applications

Protection of circuits in residential and purpose-built buildings as well as industrial facilities with TN-S, TT and TN-C-S networks. In IT networks, the RCCB/MCBs can be set to switch off in the event of a second earth fault, Not permitted for use in systems with TN-C networks; not permitted for protecting circuits in which the power electronics equipment may cause smooth DC residual currents or residual currents with frequencies not equal to 50/60 Hz.

Accessories

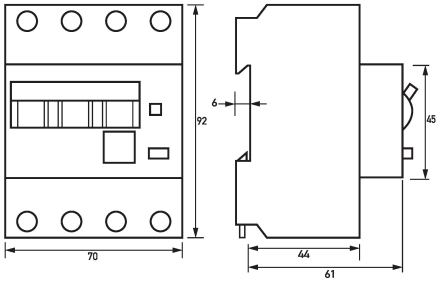
Auxiliary Switches DRCBO 4 Hi 2, wiring components RCCB and MCB busbars 4-pole

Technical Data

Technical Data	DRCBO 4 B or C ** 3N-F
Series	DRCBO 4
Number of poles	3+N
Residual current type	F
Rated current (AC)	Refer to the individual product reference, data sheet available on request
Rated residual current IΔn	Refer to the individual product reference, data sheet available on request
Short-time delayed	true
Selective	false
min. Operating voltage range of test circuit	170 V
max. Operating voltage range of test circuit	250 V
Tripping characteristic	B or C

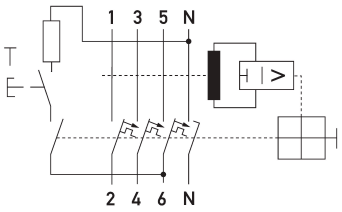
Technical Data	DRCBO 4 B or C **/0,03/3+N-A
Operating voltage (AC)	max. 440 V
	Load circuit
Specification	Load switch contact
Rated voltage (AC)	230, 400 V
Rated current (AC)	Refer to the individual product reference, data sheet available on request
Rated short-circuit current	6 kA
Surge current strength	3 kA
max. total rated switching capacity	6 kA
Rated insulation voltage	440 V
Rated impulse withstand voltage	4 kV
Rated frequency	50 Hz, 60 Hz
Current heat loss per current path	Refer to the individual product reference, data sheet available on request
Back-up fuse type	gG
Overvoltage class	III
	Screw-type terminal top, bottom (Load circuit)
Neutral conductor position	right
Connection C1 Maximum number of conductors per terminal	2 (conductors of same type and cross-section)
Cross section solid	1-wire: 1 mm² ... 35 mm²; 2-wire: 1 mm² ... 10 mm²
Connecting capacity flexible	1-wire: 1 mm² ... 35 mm²; 2-wire: 1 mm² ... 10 mm²
Cross section stranded	1-wire: 1 mm² ... 25 mm²; 2-wire: 1 mm² ... 10 mm²
	General data
Operating position	any
Electrical endurance	min. 2000 switching cycles
Ambient temperature	-25 °C ... 40 °C
Housing type	Distributor housing
Mounting type	Mounting rail (35 mm)
Housing material	Thermoplastic resin
Protection class	IP20 (installed: IP40)
Width	70 mm (40A = 90 mm)
Height	92 mm
Depth	74 mm
Installation depth	68 mm
Width (modules)	4
Weight	0.499 kg
Design requirements/Standards	EN 61009-1, EN 62423
Energy limiting class	3
Degree of pollution according to EN 60664	2

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram