

DATA SHEET

residual current operated circuit-breakers with integral overcurrent protection

DRCBO 4 C16/0,03/1N-HP

AC/DC sensitive, for heat pumps, increased surge-current resistant, short-time delayed, lightning resistant, fire prevention up to 20 kHz Article number 09949524



6000 KHZ (25 KV

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. DRCBO 4s have a rated switching capacity of 6 kA. RCCBs of the HP variant were specially developed to protect heat pumps and detect smooth DC residual currents and all other residual currents with frequencies up to 20 kHz. Thanks to its HP-optimised slow-blow, the AC-DC sensitive residual current circuit-breaker is resistant to surge currents. It therefore offers higher system availability by reducing faulty tripping. 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.

Features

AC/DC sensitive for residual currents with frequencies of o Hz (smooth direct current) up to 20,000 Hz, mains-voltage-independent tripping when type A residual currents occur, compact design for all rated currents, switch position indicator, separate indication of tripping cause, strain-relief clamps with a wide terminal cross-section range on both connection sides, neutral conductor right, labelling area

Mounting

quick fastening to mounting rail, any installation position, supply preferably from above

Applications

RCBOs of the HP variant are suitable for private, commercial and industrial installations with TN-S, TT and TN-C-S systems in which heat pumps are used.

Notes

suitable for use in 50 Hz AC networks, not suitable for use on the output side of controlled electrical equipment such as frequency converters

Accessories

wiring components DRCBO 4-busbars 2-pole, wiring components DRCBO 4-busbars 4-pole

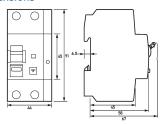
Technical Data

Technical Data	DRCBO 4 C16/0,03/1N-HP
Series	DRCBO 4 HP
Number of poles	1+N
Residual current type	B+
Rated current (AC)	16 A
Rated residual current I∆n	o.o3 A
Short-time delayed	true
Selective	false
min. Operating voltage range of test circuit	170 V

max. Operating voltage range of tests circuit Minimum rated operating voltage (Type A/AC operation) Minimum rated operating voltage (Type A/AC operation) Minimum rated operating sp V AC voltage (Type B operation) Non trip time 15 ms Tripping requency 0 Hz 20 kHz Maximum disconnection times 2 1-lân: \$ 30 ms; \$ 1-lân: \$ 40 ms Tripping characteristic C Supply side up Operating voltage (AC) Internal consumption max. 1,3 W Internal consumption load discount Specification load disconnect contact Rated voltage (AC) 230 V Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching 6 kA Rated dispulse withstand voltage 440 V Rated impulse withstand voltage 440 V Rated impulse withstand voltage 4 kV Rated frequency 50 Hz Current heat loss per current 2,3 W Devorblage class III Neutral conductor position right Connection C.1 Maximum 12 (conductors of same type and cross-section) number of conductors of same type and cross-section) number of conductors per terminal consumber of conductors per terminal consumers and survival	Technical Data	DRCBO 4 C16/0,03/1N-HP
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Mechanical endurance Electrical endurance Imin. 2000 switching cycles Ambient temperature -25 °C 40 °C Climate resistance According to IEC 60068-2-30 Housing type Installation type Mounting rail (35 mm) Housing material Thermoplastic Protection class IP20 (installed: IP40) Width 44 mm Height 91 mm Depth 73.5 mm		General data
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Width 44 mm Height 91 mm Depth 73.5 mm		·
Height 91 mm Depth 73.5 mm		·
Depth 73.5 mm		**
		-
Installation denth 67 mm	Installation depth	67 mm

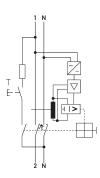
Technical Data	DRCBO 4 C16/0,03/1N-HP
Module widths	2.5
Weight	o.275 kg
Design requirements/Standards	VDE 0664-20, VDE 0664-40, VDE 0664-401, EN 61009-1, EN 62423, ÖVE/ÖNORM E 8601
Power limitation category	3
Degree of pollution	2

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram