

DATA SHEET

residual current operated circuit-breakers with integral overcurrent protection DRCBO 4 C16/o,10/3N-HP



AC/DC sensitive, for heat pumps, increased surge-current resistant, short-time delayed, lightning resistant, fire prevention up to 20 kHz Article number 09948574



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 4-pole

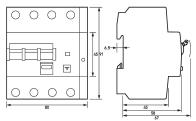
Technical Data

Technical Data	DRCBO 4 C16/0,10/3N-HP
Series	DRCBO 4 HP
Number of poles	3+N
Residual current type	B+
Rated current (AC)	16 A
Rated residual current I∆n	0.1 A
Short-time delayed	true
Selective	false
min. Operating voltage range of test circuit	100 V

max. Operating voltage range of test circuit sets sets circuit sets circuit sets circuit sets sets circuit sets circuit sets circuit sets sets sets sets sets sets sets se	Technical Data	DRCBO 4 C16/o,10/3N-HP
test circuit Minimum rated operating voltage (Type AJAC operation) Minimum rated operating voltage (Type B operation) Minimum rated operating voltage (Type B operation) Minimum rated operating voltage (Type B operation) Non-trip time 1.5 ms Tripping frequency OHZ 20 kHz Maximum disconnection times 1.1 lAn: \$300 ms; 5: lAn: \$40 ms Tripping observed to up Operating voltage (AC) Imax. 4,40 V Internal consymption Internal con		
voltage (Type AVAC operation) \$o V AC workage (Type B operation) 35 ms Non-trip time 15 ms Tripping frequency 0 Hz 20 kHz Maximum disconnection times 1 1 An : \$300 ms; 5; 1 An : \$40 ms Tripping fequency up Operating voltage (AC) max. \$4,0 V Internal consumption max. \$13 W Specification load disconnect contact Rated voltage (AC) 330 V, 900 V Rated solt circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA Rated insulation voltage 44 V Rated insulation voltage 4 kV Rated insulation voltage 4 kV Rated frequency 50 Hz Current heat loss per current path 2,3 W path 2,3 W Back up fuse type 9G Overvoltage class III Back up fuse type 9G Overvoltage class III Connection Cs Maximum 2 (conductors of same type and cross-section) <tr< td=""><td></td><td>31</td></tr<>		31
Minimum rated operating voltage (Type B operation) Non-trip time 15 ms Tripping frequency 0 Hz 20 kHz Tripping characteristic C Supply side Up Operating voltage (AC) Internal consumption Max. 4,40 V Internal consumption Max. 4,30 V Internal consumption Max. 4,40 V Internal consumption Max. 1,3 W Internal consumption Max. 1,4 W Internal consumption Max. Total rated switching And A Internal consumption And A Internal consumption Max. Total rated switching And A Internal consumption Anotes Consumption And A Internal consumption And A Internal consum	Minimum rated operating	o V AC
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Tripping frequency		
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Tripping characteristic C Supply side up Operating voltage (AC) max. 44 o V Internal consumption max. 13 W Specification load disconnect contact Rated voltage (AC) 23 o V, 40 o V Rated surrent (AC) 16 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA Rated insulation voltage 4,40 V Rated impulse withstand voltage 4,40 V Rated frequency 50 HZ Current heat loss per current path 2 3 W Back-up fuse type gG Overvoltage class III Back-up fuse type gG Overvoltage class III Internal conductor position right Connection C1 Maximum 2 (conductors of same type and cross-section) number of conductors per terminal 2 (conductors of same type and cross-section) Cross section stranded 2 -wire: 1 mm² 25 mm²; 2 -wire: 1 mm² 10 mm² Cross section stranded 2 -wire: 1 mm² 25 mm²; 2 -wir	Tripping frequency	0 Hz 20 kHz
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Specification load disconnect contact	Operating voltage (AC)	max. 440 V
Specification load disconnect contact Rated voltage (AC) 230 V, 400 V Rated current (AC) 16 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching 6 kA capacity Rated insulation voltage 4,40 V Rated insulation voltage 4,40 V Rated insulation voltage 4,40 V Rated fingules withstand voltage 4,40 V Rated fingules withstand voltage 4,80 V Rated frequency 50 Hz Current heat loss per current 2.3 W path Back-up fuse type gG Overvoltage class III Connection C1 Maximum 2 (conductors of same type and cross-section) number of conductors per terminal top, bottom (load circuit) Neutral conductor position right Connection C1 Maximum 2 (conductors of same type and cross-section) number of conductors per terminal conductor position 1-wire: 1 mm² 35 mm², 2-wire: 1 mm² 10 mm² Cross section solid 1-wire: 1 mm² 35 mm², 2-wire: 1 mm² 10 mm² Tightening torque 2 Nm 2.4 Nm General data Operating position optional Mechanical endurance min. 4000 cycles Electrical endurance min. 4000 cycles Electrical endurance min. 4000 cycles Electrical endurance min. 2000 switching cycles Ambient temperature -25 °C 40 °C Climate resistance according to IEC 60068-2-30 Housing type distribution board housing Installation type distribution board housing Installation type Mounting rail (35 mm) Housing material thermoplastic Protection class IP20 (installed: IP40) Width 80 mm Depth 73.5 mm	Internal consumption	max. 1.3 W
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Depth 73.5 mm		
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INSTALLATION GENTO 67 mm	Installation depth	67 mm

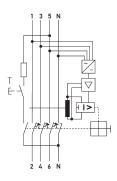
Technical Data	DRCBO 4 C16/0,10/3N-HP
Module widths	4.5
Weight	o.535 kg
Design requirements/Standards	VDE 0664-20, VDE 0664-40, VDE 0664-401, EN 61009-1, EN 62423, ÖVE/ÖNORM E 8601
Power limitation category	3
Degree of pollution	2
Certifications	VDE

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram